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### EDITORIAL NOTICE

Contributors of perturbed orbital elements are advised that use of the Epoch  
2001 Apr. 1.0 TT (rather than 2000 Sept. 13.0 TT) will become effective *after* the  
next batch of *MPCs*.

### ERRATA

|            |      |                                     |
|------------|------|-------------------------------------|
| <i>MPC</i> | Line |                                     |
| 41383      | -41  | For Grigororievich read Georgievich |
| 41383      | -39  | For Vladimirovna read Ivanovna      |

### NEW OBSERVATORY CODES

The following listing is a continuation to that on *MPC* 41247. The longitudes  $\lambda$   
are measured in degrees eastward from Greenwich, and the parallax constants  $\rho \cos \phi'$   
and  $\rho \sin \phi'$  are the product of the geocentric distance (in earth equatorial radii) and  
the cosine and sine, respectively, of the geocentric latitude.

| Obs. | $\lambda$ | $\rho \cos \phi'$ | $\rho \sin \phi'$ |                                        |
|------|-----------|-------------------|-------------------|----------------------------------------|
| 346  | 127.3854  | 0.80474           | +0.59166          | KNUE Astronomical Observatory          |
| 923  | 284.6300  | 0.76655           | +0.64006          | The Bradstreet Observatory, St. Davids |
| 941  | 359.6139  | 0.76988           | +0.63608          | Observatorio Pla D'Arguines            |

### CORRECTED OBSERVATION

The following observation corrects that previously published.

| Object  | Date    | UT       | $\alpha_{2000}$ | $\delta_{2000}$ | Reference        | Obs. |
|---------|---------|----------|-----------------|-----------------|------------------|------|
| (17081) | 2000 09 | 23.21251 | 00 41 38.44     | -03 15 33.5     | <i>MPS</i> 20592 | 808  |

### DELETED OBSERVATIONS

The following observations are to be deleted.

| Object                 | Date      | UT       | $\alpha_{2000}$ | $\delta_{2000}$ | Reference        | Obs. |
|------------------------|-----------|----------|-----------------|-----------------|------------------|------|
| 1999 RS <sub>250</sub> | * 1999 09 | 05.33911 | 23 20 22.35     | -03 15 42.3     | <i>MPS</i> 16516 | 691  |
| 1999 RS <sub>250</sub> | 1999 09   | 05.36043 | 23 20 21.39     | -03 15 52.4     | <i>MPS</i> 16516 | 691  |
| 1999 RS <sub>250</sub> | 1999 09   | 05.38155 | 23 20 20.45     | -03 16 02.6     | <i>MPS</i> 16516 | 691  |
| 1999 RS <sub>250</sub> | 1999 09   | 17.22463 | 23 11 59.45     | -04 58 44.1     | <i>MPS</i> 16516 | 691  |

|                        |           |          |             |             |                  |     |
|------------------------|-----------|----------|-------------|-------------|------------------|-----|
| 1999 RS <sub>250</sub> | 1999 09   | 17.24565 | 23 11 58.47 | -04 58 54.9 | <i>MPS</i> 16516 | 691 |
| 1999 RS <sub>250</sub> | 1999 09   | 17.26690 | 23 11 57.47 | -04 59 06.3 | <i>MPS</i> 16516 | 691 |
| 2000 ED <sub>180</sub> | * 2000 03 | 04.30428 | 09 59 55.50 | +23 48 26.2 | <i>MPS</i> 16929 | 704 |
| 2000 ED <sub>180</sub> | 2000 03   | 04.31752 | 09 59 54.80 | +23 48 26.5 | <i>MPS</i> 16929 | 704 |
| 2000 ED <sub>180</sub> | 2000 03   | 04.34400 | 09 59 53.47 | +23 48 28.4 | <i>MPS</i> 16929 | 704 |
| 2000 ED <sub>180</sub> | 2000 03   | 04.35725 | 09 59 52.82 | +23 48 28.9 | <i>MPS</i> 16929 | 704 |
| 2000 ED <sub>180</sub> | 2000 03   | 12.20531 | 09 53 57.89 | +23 49 43.3 | <i>MPS</i> 16929 | 704 |
| 2000 ED <sub>180</sub> | 2000 03   | 12.21847 | 09 53 57.32 | +23 49 42.8 | <i>MPS</i> 16929 | 704 |
| 2000 ED <sub>180</sub> | 2000 03   | 12.23286 | 09 53 56.66 | +23 49 42.5 | <i>MPS</i> 16929 | 704 |
| 2000 ED <sub>180</sub> | 2000 03   | 12.24606 | 09 53 56.10 | +23 49 42.3 | <i>MPS</i> 16929 | 704 |
| 2000 ED <sub>180</sub> | 2000 03   | 12.25959 | 09 53 55.52 | +23 49 41.6 | <i>MPS</i> 16929 | 704 |

Note 1: 2000 ED<sub>180</sub> = (16295).

### IDENTIFICATION CHANGES

Continuation to *MPC* 41250.

| Object                | Date      | UT       | $\alpha_{2000}$ | $\delta_{2000}$ | Originally            | Mag. | Obs. |
|-----------------------|-----------|----------|-----------------|-----------------|-----------------------|------|------|
| 1977 RN <sub>20</sub> | * 1977 09 | 10.94133 | 00 15 26.47     | -05 23 20.4     | 1977 RA <sub>2</sub>  | 16.5 | 095  |
| 1977 RN <sub>20</sub> | 1977 09   | 22.97902 | 00 03 57.18     | -06 08 44.4     | 1977 RA <sub>2</sub>  | 16.5 | 095  |
| 1977 TO <sub>8</sub>  | * 1977 10 | 07.88476 | 23 50 52.56     | -06 59 14.1     | 1977 RA <sub>2</sub>  | 16.5 | 095  |
| 1977 TO <sub>8</sub>  | 1977 10   | 13.83228 | 23 46 33.89     | -06 49 46.0     | 1977 RA <sub>2</sub>  | 16.5 | 095  |
| 1982 BT <sub>15</sub> | * 1982 01 | 20.87134 | 08 05 08.24     | +18 52 38.7     | 1982 BM <sub>10</sub> | 17.8 | 095  |
| 1985 SH <sub>7</sub>  | * 1985 09 | 22.96814 | 01 37 49.60     | +12 13 59.2     | 1985 SB <sub>5</sub>  | 17.8 | 095  |
| 1989 VS <sub>6</sub>  | * 1989 11 | 02.26337 | 01 04 41.19     | -01 01 45.7     | 1989 SM <sub>2</sub>  | 19.0 | 675  |
| 1989 VS <sub>6</sub>  | 1989 11   | 02.30035 | 01 04 39.84     | -01 01 43.9     | 1989 SM <sub>2</sub>  |      | 675  |
| 1990 VL <sub>16</sub> | * 1990 11 | 15.22708 | 03 31 08.70     | +09 29 26.7     | 1990 VZ <sub>15</sub> |      | 809  |
| 1990 VL <sub>16</sub> | 1990 11   | 17.26528 | 03 28 48.90     | +09 26 02.4     | 1990 VZ <sub>15</sub> |      | 809  |
| 1991 GS <sub>14</sub> | * 1991 04 | 10.16736 | 13 33 02.93     | -10 54 37.9     | 1991 GR <sub>6</sub>  | 19.0 | 809  |
| 1991 GS <sub>14</sub> | 1991 04   | 10.18056 | 13 33 02.31     | -10 54 30.4     | 1991 GR <sub>6</sub>  |      | 809  |
| 1991 GS <sub>14</sub> | 1991 04   | 10.19375 | 13 33 01.65     | -10 54 25.7     | 1991 GR <sub>6</sub>  |      | 809  |
| 1991 PF <sub>32</sub> | * 1991 08 | 05.25833 | 21 08 46.93     | -14 52 05.3     | 1991 PV <sub>3</sub>  |      | 809  |
| 1991 PF <sub>32</sub> | 1991 08   | 05.27153 | 21 08 46.24     | -14 52 06.8     | 1991 PV <sub>3</sub>  |      | 809  |
| 1991 PF <sub>32</sub> | 1991 08   | 05.28472 | 21 08 45.65     | -14 52 09.3     | 1991 PV <sub>3</sub>  |      | 809  |
| 1991 RE <sub>42</sub> | * 1991 09 | 15.45382 | 02 12 46.04     | +17 09 07.6     | 1991 UP               | 18.2 | 675  |
| 1991 RE <sub>42</sub> | 1991 09   | 15.50295 | 02 12 46.08     | +17 09 06.5     | 1991 UP               |      | 675  |
| 1992 WC <sub>10</sub> | * 1992 11 | 27.55556 | 03 21 20.50     | +05 24 55.4     | 1992 WF <sub>5</sub>  | 17   | 400  |
| 1992 WC <sub>10</sub> | 1992 11   | 27.56944 | 03 21 19.77     | +05 24 50.5     | 1992 WF <sub>5</sub>  |      | 400  |

|                        |                    |             |             |                        |        |     |                        |                    |             |             |                        |        |     |
|------------------------|--------------------|-------------|-------------|------------------------|--------|-----|------------------------|--------------------|-------------|-------------|------------------------|--------|-----|
| 1993 SL <sub>16</sub>  | * 1993 09 16.48264 | 00 30 22.78 | +08 34 57.6 | 1993 SJ <sub>2</sub>   | 17     | 400 | 1999 KG <sub>19</sub>  | * 1999 05 19.29311 | 15 43 38.26 | -11 57 14.2 | 1999 JX <sub>126</sub> | 18.9   | 704 |
| 1993 SL <sub>16</sub>  | 1993 09 16.49861   | 00 30 21.76 | +08 34 53.6 | 1993 SJ <sub>2</sub>   |        | 400 | 1999 KG <sub>19</sub>  | 1999 05 19.30714   | 15 43 37.65 | -11 57 11.8 | 1999 JX <sub>126</sub> | 19.5   | 704 |
| 1995 WO <sub>43</sub>  | * 1995 11 19.74861 | 00 04 12.00 | +13 08 04.4 | 1995 UR <sub>47</sub>  |        | 104 | 1999 KG <sub>19</sub>  | 1999 05 19.33536   | 15 43 36.13 | -11 57 04.7 | 1999 JX <sub>126</sub> | 18.9   | 704 |
| 1995 WO <sub>43</sub>  | 1995 11 19.75313   | 00 04 12.02 | +13 08 03.8 | 1995 UR <sub>47</sub>  |        | 104 | 1999 KG <sub>19</sub>  | 1999 05 19.34940   | 15 43 35.19 | -11 57 00.0 | 1999 JX <sub>126</sub> | 19.4   | 704 |
| 1995 WO <sub>43</sub>  | 1995 11 19.76528   | 00 04 12.07 | +13 08 01.7 | 1995 UR <sub>47</sub>  |        | 104 | 1999 MG <sub>2</sub>   | * 1999 06 18.21801 | 15 10 38.33 | -14 56 29.8 | 1999 ME <sub>2</sub>   | 20.9 V | 691 |
| 1995 WO <sub>43</sub>  | 1995 11 21.80035   | 00 04 19.27 | +13 01 33.5 | 1995 UR <sub>47</sub>  |        | 104 | 1999 MG <sub>2</sub>   | 1999 06 18.24063   | 15 10 37.69 | -14 56 30.5 | 1999 ME <sub>2</sub>   | 21.0 V | 691 |
| 1995 WO <sub>43</sub>  | 1995 11 21.80729   | 00 04 19.30 | +13 01 32.6 | 1995 UR <sub>47</sub>  |        | 104 | 1999 MG <sub>2</sub>   | 1999 06 18.26294   | 15 10 36.96 | -14 56 30.5 | 1999 ME <sub>2</sub>   | 20.6 V | 691 |
| 1995 WO <sub>43</sub>  | 1995 11 21.81424   | 00 04 19.34 | +13 01 31.4 | 1995 UR <sub>47</sub>  |        | 104 | 1999 OH <sub>5</sub>   | * 1999 07 16.29675 | 21 34 27.31 | -14 08 12.0 | 1999 NX <sub>8</sub>   | 18.4   | 704 |
| 1995 WO <sub>43</sub>  | 1995 12 10.76146   | 00 10 05.79 | +12 28 37.3 | 1995 UR <sub>47</sub>  |        | 104 | 1999 OH <sub>5</sub>   | 1999 07 16.30948   | 21 34 26.85 | -14 08 16.4 | 1999 NX <sub>8</sub>   | 18.7   | 704 |
| 1995 WO <sub>43</sub>  | 1995 12 10.76806   | 00 10 05.78 | +12 28 37.1 | 1995 UR <sub>47</sub>  |        | 104 | 1999 OH <sub>5</sub>   | 1999 07 16.32222   | 21 34 26.32 | -14 08 21.3 | 1999 NX <sub>8</sub>   | 18.9   | 704 |
| 1995 WO <sub>43</sub>  | 1995 12 10.78657   | 00 10 06.39 | +12 28 36.8 | 1995 UR <sub>47</sub>  |        | 104 | 1999 QC <sub>3</sub>   | * 1999 08 21.25094 | 20 56 50.77 | -16 32 29.9 | 1999 PD <sub>5</sub>   | 18.7 V | 691 |
| 1995 WO <sub>43</sub>  | 1995 12 10.81181   | 00 10 07.12 | +12 28 36.3 | 1995 UR <sub>47</sub>  |        | 104 | 1999 QC <sub>3</sub>   | 1999 08 21.27596   | 20 56 49.59 | -16 32 33.9 | 1999 PD <sub>5</sub>   | 18.8 V | 691 |
| 1996 DS <sub>7</sub>   | * 1996 02 25.00846 | 07 26 37.03 | +23 10 49.4 | 1996 CO <sub>1</sub>   | 18.0 R | 540 | 1999 QC <sub>3</sub>   | 1999 08 21.29958   | 20 56 48.49 | -16 32 38.2 | 1999 PD <sub>5</sub>   | 18.8 V | 691 |
| 1996 DS <sub>7</sub>   | 1996 02 25.02050   | 07 26 36.88 | +23 10 50.6 | 1996 CO <sub>1</sub>   |        | 540 | 1999 QD <sub>3</sub>   | * 1999 08 21.25682 | 21 05 27.86 | -16 28 23.0 | 1999 PK <sub>5</sub>   | 18.1 V | 691 |
| 1998 BG <sub>49</sub>  | * 1998 01 28.33130 | 10 43 15.37 | +11 06 37.4 | 2000 RF <sub>7</sub>   | 18.4 V | 691 | 1999 QD <sub>3</sub>   | 1999 08 21.28182   | 21 05 26.71 | -16 28 28.7 | 1999 PK <sub>5</sub>   | 18.0 V | 691 |
| 1998 BG <sub>49</sub>  | 1998 01 28.35257   | 10 43 14.10 | +11 06 29.3 | 2000 RF <sub>7</sub>   | 19.5 V | 691 | 1999 QD <sub>3</sub>   | 1999 08 21.30545   | 21 05 25.61 | -16 28 34.9 | 1999 PK <sub>5</sub>   | 17.6 V | 691 |
| 1998 BG <sub>49</sub>  | 1998 01 28.37421   | 10 43 12.84 | +11 06 26.0 | 2000 RF <sub>7</sub>   | 19.4 V | 691 | 1999 RU <sub>255</sub> | * 1999 09 13.28372 | 23 37 52.45 | -08 55 58.7 | 1999 RY <sub>178</sub> | 18.6   | 704 |
| 1998 FT <sub>148</sub> | * 1998 03 29.18122 | 11 02 45.66 | +10 16 14.6 | 1998 FF <sub>147</sub> | 19.3   | 704 | 1999 RU <sub>255</sub> | 1999 09 13.29485   | 23 37 51.97 | -08 56 01.6 | 1999 RY <sub>178</sub> | 18.8   | 704 |
| 1998 FT <sub>148</sub> | 1998 03 29.20133   | 11 02 44.84 | +10 16 19.2 | 1998 FF <sub>147</sub> | 19.6   | 704 | 1999 RU <sub>255</sub> | 1999 09 13.30620   | 23 37 51.39 | -08 56 04.6 | 1999 RY <sub>178</sub> | 19.2   | 704 |
| 1998 FT <sub>148</sub> | 1998 03 29.22151   | 11 02 44.09 | +10 16 23.5 | 1998 FF <sub>147</sub> | 19.3   | 704 | 1999 RU <sub>255</sub> | 1999 09 13.31768   | 23 37 50.95 | -08 56 08.2 | 1999 RY <sub>178</sub> | 19.1   | 704 |
| 1998 FT <sub>148</sub> | 1998 03 29.24157   | 11 02 43.23 | +10 16 29.6 | 1998 FF <sub>147</sub> | 19.0   | 704 | 1999 XP <sub>261</sub> | * 1999 12 06.46626 | 09 58 36.26 | +14 45 26.8 | (9789)                 | 19.5   | 704 |
| 1998 FT <sub>148</sub> | 1998 03 29.26209   | 11 02 42.31 | +10 16 35.6 | 1998 FF <sub>147</sub> | 19.0   | 704 | 1999 XP <sub>261</sub> | 1999 12 06.48296   | 09 58 36.90 | +14 45 24.5 | (9789)                 | 19.5   | 704 |
| 1998 FU <sub>148</sub> | * 1998 03 29.18711 | 11 31 42.94 | +03 05 01.6 | 1998 FR <sub>146</sub> | 18.0   | 704 | 1999 XP <sub>261</sub> | 1999 12 06.49742   | 09 58 37.42 | +14 45 23.9 | (9789)                 | 19.8   | 704 |
| 1998 FU <sub>148</sub> | 1998 03 29.20722   | 11 31 42.03 | +03 05 07.8 | 1998 FR <sub>146</sub> | 19.0   | 704 | 2000 HB <sub>105</sub> | * 2000 04 27.33613 | 14 13 27.26 | -11 51 17.5 | 2000 GF <sub>71</sub>  | 18.0   | 704 |
| 1998 FU <sub>148</sub> | 1998 03 29.22738   | 11 31 40.90 | +03 05 14.8 | 1998 FR <sub>146</sub> | 18.4   | 704 | 2000 HB <sub>105</sub> | 2000 04 27.34847   | 14 13 26.48 | -11 51 11.6 | 2000 GF <sub>71</sub>  | 18.4   | 704 |
| 1998 FU <sub>148</sub> | 1998 03 29.24766   | 11 31 39.80 | +03 05 20.4 | 1998 FR <sub>146</sub> | 18.4   | 704 | 2000 HB <sub>105</sub> | 2000 04 27.36082   | 14 13 25.73 | -11 51 05.9 | 2000 GF <sub>71</sub>  | 18.6   | 704 |
| 1998 FU <sub>148</sub> | 1998 03 29.26798   | 11 31 38.74 | +03 05 26.6 | 1998 FR <sub>146</sub> |        | 704 | 2000 HB <sub>105</sub> | 2000 04 27.37317   | 14 13 25.05 | -11 51 01.2 | 2000 GF <sub>71</sub>  | 18.8   | 704 |
| 1998 FV <sub>148</sub> | * 1998 03 20.68200 | 11 32 29.29 | +04 05 38.7 | 1998 EU <sub>9</sub>   |        | 327 | 2000 JL <sub>87</sub>  | * 2000 05 13.40823 | 15 37 34.78 | -08 48 00.7 | 2000 JB <sub>85</sub>  | 20.6 V | 691 |
| 1998 FV <sub>148</sub> | 1998 03 20.69633   | 11 32 28.72 | +04 05 44.5 | 1998 EU <sub>9</sub>   | 19.2   | 327 | 2000 JL <sub>87</sub>  | 2000 05 13.42978   | 15 37 33.51 | -08 47 54.3 | 2000 JB <sub>85</sub>  | 20.5 V | 691 |
| 1998 FV <sub>148</sub> | 1998 03 20.71059   | 11 32 28.11 | +04 05 50.4 | 1998 EU <sub>9</sub>   |        | 327 | 2000 JL <sub>87</sub>  | 2000 05 13.45143   | 15 37 32.24 | -08 47 47.9 | 2000 JB <sub>85</sub>  | 20.3 V | 691 |
| 1998 HG <sub>154</sub> | * 1998 04 24.20672 | 12 48 22.12 | +00 25 51.0 | 1998 FY <sub>76</sub>  | 18.4 V | 691 | 2000 MV <sub>6</sub>   | * 2000 06 24.53720 | 20 13 34.91 | -19 04 39.8 | 2000 PK <sub>15</sub>  | 19.3   | 608 |
| 1998 HG <sub>154</sub> | 1998 04 24.22761   | 12 48 21.37 | +00 25 51.6 | 1998 FY <sub>76</sub>  | 18.6 V | 691 | 2000 MV <sub>6</sub>   | 2000 06 24.54842   | 20 13 34.47 | -19 04 41.5 | 2000 PK <sub>15</sub>  | 19.3   | 608 |
| 1998 HG <sub>154</sub> | 1998 04 24.24853   | 12 48 20.61 | +00 25 53.3 | 1998 FY <sub>76</sub>  | 18.6 V | 691 | 2000 MV <sub>6</sub>   | 2000 06 24.55928   | 20 13 34.11 | -19 04 42.7 | 2000 PK <sub>15</sub>  | 19.6   | 608 |
| 1998 YK <sub>32</sub>  | * 1998 12 24.45726 | 08 17 14.63 | +19 49 06.6 | 1998 YX <sub>12</sub>  | 20.8 V | 691 | 2000 PU <sub>30</sub>  | * 2000 08 05.51800 | 01 03 34.08 | +08 19 15.9 | 2000 SO <sub>104</sub> | 20.0   | 608 |
| 1998 YK <sub>32</sub>  | 1998 12 24.48606   | 08 17 13.52 | +19 49 14.8 | 1998 YX <sub>12</sub>  | 19.9 V | 691 | 2000 PU <sub>30</sub>  | 2000 08 05.52851   | 01 03 34.60 | +08 19 20.2 | 2000 SO <sub>104</sub> | 20.2   | 608 |
| 1998 YK <sub>32</sub>  | 1998 12 24.50829   | 08 17 12.45 | +19 49 18.9 | 1998 YX <sub>12</sub>  | 20.5 V | 691 | 2000 PU <sub>30</sub>  | 2000 08 05.53927   | 01 03 35.09 | +08 19 22.9 | 2000 SO <sub>104</sub> | 20.5   | 608 |
| 1999 BZ <sub>34</sub>  | * 1999 01 17.84678 | 07 55 27.26 | +21 41 19.2 | 1999 AT <sub>38</sub>  | 20.1 V | 557 | 2000 PV <sub>30</sub>  | * 2000 08 10.39818 | 00 09 44.27 | -15 27 40.5 | 2000 PE <sub>11</sub>  | 19.7   | 704 |
| 1999 BZ <sub>34</sub>  | 1999 01 17.85259   | 07 55 26.82 | +21 41 21.9 | 1999 AT <sub>38</sub>  |        | 557 | 2000 PV <sub>30</sub>  | 2000 08 10.42456   | 00 09 43.68 | -15 27 49.2 | 2000 PE <sub>11</sub>  | 19.2   | 704 |
| 1999 BA <sub>35</sub>  | * 1999 01 23.42201 | 09 22 58.06 | +15 25 23.4 | 1998 YB <sub>5</sub>   | 21.6 V | 691 | 2000 PV <sub>30</sub>  | 2000 08 10.43709   | 00 09 43.32 | -15 27 53.9 | 2000 PE <sub>11</sub>  | 19.3   | 704 |
| 1999 BA <sub>35</sub>  | 1999 01 23.44348   | 09 22 56.81 | +15 25 24.4 | 1998 YB <sub>5</sub>   | 21.3 V | 691 | 2000 QG <sub>243</sub> | * 2000 08 29.29691 | 22 59 01.94 | -07 46 42.6 | 2000 QH <sub>53</sub>  | 15.7   | 704 |
| 1999 BA <sub>35</sub>  | 1999 01 23.46480   | 09 22 55.58 | +15 25 25.6 | 1998 YB <sub>5</sub>   | 21.2 V | 691 | 2000 QG <sub>243</sub> | 2000 08 29.31034   | 22 59 01.33 | -07 46 47.0 | 2000 QH <sub>53</sub>  | 15.5   | 704 |
| 1999 KD <sub>19</sub>  | * 1999 05 17.39904 | 17 00 12.72 | -03 36 01.4 | 1999 JV <sub>129</sub> | 18.9   | 704 | 2000 QG <sub>243</sub> | 2000 08 29.32378   | 22 59 00.72 | -07 46 51.0 | 2000 QH <sub>53</sub>  | 15.7   | 704 |
| 1999 KD <sub>19</sub>  | 1999 05 17.41115   | 17 00 12.14 | -03 36 01.0 | 1999 JV <sub>129</sub> | 19.2   | 704 | 2000 QG <sub>243</sub> | 2000 08 29.33725   | 22 59 00.09 | -07 46 56.2 | 2000 QH <sub>53</sub>  | 16.1   | 704 |
| 1999 KD <sub>19</sub>  | 1999 05 17.42335   | 17 00 11.56 | -03 35 58.0 | 1999 JV <sub>129</sub> | 19.2   | 704 | 2000 SB <sub>321</sub> | * 2000 09 23.25632 | 23 30 36.55 | +04 45 38.2 | 2000 RU <sub>87</sub>  | 19.1   | 704 |
| 1999 KD <sub>19</sub>  | 1999 05 17.43544   | 17 00 10.86 | -03 35 57.9 | 1999 JV <sub>129</sub> | 19.6   | 704 | 2000 SB <sub>321</sub> | 2000 09 23.27105   | 23 30 35.66 | +04 45 32.0 | 2000 RU <sub>87</sub>  | 19.1   | 704 |
| 1999 KE <sub>19</sub>  | * 1999 05 19.16703 | 13 51 03.72 | -13 38 08.3 | 1999 JA <sub>126</sub> | 18.4   | 704 | 2000 SB <sub>321</sub> | 2000 09 23.28610   | 23 30 34.88 | +04 45 25.0 | 2000 RU <sub>87</sub>  | 18.8   | 704 |
| 1999 KE <sub>19</sub>  | 1999 05 19.18093   | 13 51 03.11 | -13 38 01.5 | 1999 JA <sub>126</sub> | 18.4   | 704 | 2000 SB <sub>321</sub> | 2000 09 23.30083   | 23 30 33.96 | +04 45 18.7 | 2000 RU <sub>87</sub>  | 19.0   | 704 |
| 1999 KE <sub>19</sub>  | 1999 05 19.19489   | 13 51 02.50 | -13 37 56.8 | 1999 JA <sub>126</sub> | 18.8   | 704 | 2000 SB <sub>321</sub> | 2000 09 23.31554   | 23 30 33.15 | +04 45 12.2 | 2000 RU <sub>87</sub>  | 19.2   | 704 |
| 1999 KE <sub>19</sub>  | 1999 05 19.20880   | 13 51 01.69 | -13 37 51.3 | 1999 JA <sub>126</sub> | 19.1   | 704 | 2000 SC <sub>321</sub> | * 2000 09 23.25904 | 23 45 46.64 | +10 25 17.4 | 2000 RL <sub>27</sub>  | 18.8   | 704 |
| 1999 KF <sub>19</sub>  | * 1999 05 16.20958 | 13 07 01.94 | -01 30 17.3 | 1999 JP <sub>9</sub>   | 19.9 R | 703 | 2000 SC <sub>321</sub> | 2000 09 23.27394   | 23 45 45.92 | +10 25 11.2 | 2000 RL <sub>27</sub>  | 18.9   | 704 |
| 1999 KF <sub>19</sub>  | 1999 05 16.22377   | 13 07 01.43 | -01 30 14.7 | 1999 JP <sub>9</sub>   | 19.7 R | 703 | 2000 SC <sub>321</sub> | 2000 09 23.28882   | 23 45 45.27 | +10 25 05.3 | 2000 RL <sub>27</sub>  | 18.8   | 704 |
| 1999 KF <sub>19</sub>  | 1999 05 16.23755   | 13 07 01.05 | -01 30 15.9 | 1999 JP <sub>9</sub>   | 19.2 R | 703 | 2000 SC <sub>321</sub> | 2000 09 23.30355   | 23 45 44.65 | +10 24 59.4 | 2000 RL <sub>27</sub>  | 19.2   | 704 |
| 1999 KF <sub>19</sub>  | 1999 05 16.25274   | 13 07 00.69 | -01 30 13.0 | 1999 JP <sub>9</sub>   | 19.0 R | 703 | 2000 SC <sub>321</sub> | 2000 09 23.31827   | 23 45 43.95 | +10 24 53.6 | 2000 RL <sub>27</sub>  | 19.2   | 704 |

|                        |   |                  |             |             |                        |      |     |
|------------------------|---|------------------|-------------|-------------|------------------------|------|-----|
| 2000 SD <sub>321</sub> | * | 2000 09 23.32763 | 00 46 48.25 | +11 16 46.8 | 2000 RU <sub>91</sub>  | 19.2 | 704 |
| 2000 SD <sub>321</sub> |   | 2000 09 23.34213 | 00 46 47.40 | +11 16 43.2 | 2000 RU <sub>91</sub>  | 19.5 | 704 |
| 2000 SD <sub>321</sub> |   | 2000 09 23.38535 | 00 46 44.83 | +11 16 35.3 | 2000 RU <sub>91</sub>  | 20.0 | 704 |
| 2000 SE <sub>321</sub> | * | 2000 09 25.35402 | 00 22 35.22 | -03 55 29.4 | 2000 QC <sub>147</sub> | 19.1 | 704 |
| 2000 SE <sub>321</sub> |   | 2000 09 25.36918 | 00 22 34.33 | -03 55 29.9 | 2000 QC <sub>147</sub> | 18.7 | 704 |
| 2000 SE <sub>321</sub> |   | 2000 09 25.38437 | 00 22 33.41 | -03 55 32.5 | 2000 QC <sub>147</sub> | 19.2 | 704 |
| 2000 SF <sub>321</sub> | * | 2000 09 23.27731 | 00 10 13.69 | +12 17 26.7 | 2000 RX <sub>83</sub>  | 19.7 | 704 |
| 2000 SF <sub>321</sub> |   | 2000 09 23.29203 | 00 10 12.85 | +12 17 22.4 | 2000 RX <sub>83</sub>  | 19.2 | 704 |
| 2000 SF <sub>321</sub> |   | 2000 09 23.30676 | 00 10 12.07 | +12 17 17.8 | 2000 RX <sub>83</sub>  | 19.4 | 704 |
| 2000 SF <sub>321</sub> |   | 2000 09 23.32148 | 00 10 11.22 | +12 17 12.7 | 2000 RX <sub>83</sub>  | 19.2 | 704 |
| 2000 SG <sub>321</sub> | * | 2000 09 24.33139 | 00 04 25.92 | -00 17 05.6 | 2000 QH <sub>207</sub> | 18.8 | 704 |
| 2000 SG <sub>321</sub> |   | 2000 09 24.34628 | 00 04 25.07 | -00 17 12.6 | 2000 QH <sub>207</sub> | 19.0 | 704 |
| 2000 SG <sub>321</sub> |   | 2000 09 24.36151 | 00 04 24.19 | -00 17 19.8 | 2000 QH <sub>207</sub> | 19.0 | 704 |
| 2000 SG <sub>321</sub> |   | 2000 09 24.37648 | 00 04 23.28 | -00 17 26.5 | 2000 QH <sub>207</sub> | 19.3 | 704 |
| 2000 SG <sub>321</sub> |   | 2000 09 24.39147 | 00 04 22.43 | -00 17 34.7 | 2000 QH <sub>207</sub> | 19.1 | 704 |
| 2000 SJ <sub>333</sub> | * | 2000 09 24.28668 | 23 09 10.13 | -10 58 34.8 | 2000 QN <sub>203</sub> | 19.0 | 704 |
| 2000 SJ <sub>333</sub> |   | 2000 09 24.30183 | 23 09 09.25 | -10 58 36.1 | 2000 QN <sub>203</sub> | 19.6 | 704 |
| 2000 SJ <sub>333</sub> |   | 2000 09 24.31669 | 23 09 08.47 | -10 58 36.7 | 2000 QN <sub>203</sub> | 19.2 | 704 |
| 2000 SE <sub>344</sub> | * | 2000 09 27.32453 | 01 25 40.60 | +01 27 35.5 | 2000 SX <sub>103</sub> | 18.6 | 704 |
| 2000 SE <sub>344</sub> |   | 2000 09 27.33968 | 01 25 39.85 | +01 27 34.1 | 2000 SX <sub>103</sub> | 18.3 | 704 |
| 2000 SE <sub>344</sub> |   | 2000 09 27.35482 | 01 25 39.20 | +01 27 32.6 | 2000 SX <sub>103</sub> | 18.3 | 704 |
| 2000 SE <sub>344</sub> |   | 2000 09 27.37003 | 01 25 38.41 | +01 27 31.7 | 2000 SX <sub>103</sub> | 18.8 | 704 |
| 2000 SE <sub>344</sub> |   | 2000 09 27.38531 | 01 25 37.70 | +01 27 30.8 | 2000 SX <sub>103</sub> | 18.4 | 704 |
| 2000 SF <sub>344</sub> | * | 2000 09 26.35015 | 23 41 42.85 | -05 49 56.2 | 2000 QV <sub>96</sub>  | 20.5 | 608 |
| 2000 SF <sub>344</sub> |   | 2000 09 26.36077 | 23 41 42.33 | -05 49 59.3 | 2000 QV <sub>96</sub>  | 20.5 | 608 |
| 2000 SF <sub>344</sub> |   | 2000 09 26.37160 | 23 41 41.82 | -05 50 02.5 | 2000 QV <sub>96</sub>  | 20.5 | 608 |
| 2000 SK <sub>344</sub> | * | 2000 09 30.24585 | 01 18 09.42 | +16 59 04.3 | 2000 SF <sub>167</sub> | 18.9 | 704 |
| 2000 SK <sub>344</sub> |   | 2000 09 30.26047 | 01 18 08.90 | +16 58 58.7 | 2000 SF <sub>167</sub> | 19.8 | 704 |
| 2000 SK <sub>344</sub> |   | 2000 09 30.27508 | 01 18 08.17 | +16 58 52.6 | 2000 SF <sub>167</sub> | 18.9 | 704 |
| 2000 SK <sub>344</sub> |   | 2000 09 30.28980 | 01 18 07.50 | +16 58 46.6 | 2000 SF <sub>167</sub> | 18.6 | 704 |
| 2000 SK <sub>344</sub> |   | 2000 09 30.30435 | 01 18 06.80 | +16 58 41.7 | 2000 SF <sub>167</sub> | 18.6 | 704 |
| 2000 SL <sub>344</sub> | * | 2000 09 28.34457 | 02 30 10.21 | +15 13 13.5 | 2000 SC <sub>153</sub> | 19.0 | 704 |
| 2000 SL <sub>344</sub> |   | 2000 09 28.36011 | 02 30 09.74 | +15 13 11.6 | 2000 SC <sub>153</sub> | 19.3 | 704 |
| 2000 SL <sub>344</sub> |   | 2000 09 28.37573 | 02 30 09.26 | +15 13 10.7 | 2000 SC <sub>153</sub> | 19.2 | 704 |
| 2000 SL <sub>344</sub> |   | 2000 09 28.39136 | 02 30 08.79 | +15 13 10.0 | 2000 SC <sub>153</sub> | 19.1 | 704 |
| 2000 SM <sub>344</sub> | * | 2000 09 20.36573 | 22 21 03.74 | +01 31 57.7 | 2000 QF <sub>160</sub> | 18.9 | 608 |
| 2000 SM <sub>344</sub> |   | 2000 09 20.37594 | 22 21 03.29 | +01 31 53.4 | 2000 QF <sub>160</sub> | 19.5 | 608 |
| 2000 SM <sub>344</sub> |   | 2000 09 20.38667 | 22 21 02.77 | +01 31 49.5 | 2000 QF <sub>160</sub> | 19.9 | 608 |
| 2000 TW <sub>36</sub>  | * | 2000 10 01.35720 | 02 22 49.31 | +11 15 48.6 | 2000 SZ <sub>239</sub> | 20.4 | 704 |
| 2000 TW <sub>36</sub>  |   | 2000 10 01.37229 | 02 22 48.65 | +11 15 46.0 | 2000 SZ <sub>239</sub> | 20.0 | 704 |
| 2000 TW <sub>36</sub>  |   | 2000 10 01.38737 | 02 22 48.02 | +11 15 42.0 | 2000 SZ <sub>239</sub> | 19.9 | 704 |
| 2000 TW <sub>36</sub>  |   | 2000 10 01.40245 | 02 22 47.43 | +11 15 39.1 | 2000 SZ <sub>239</sub> | 19.9 | 704 |
| 2000 TH <sub>68</sub>  | * | 2000 10 02.37989 | 02 05 03.28 | +12 51 40.8 | 2000 TZ <sub>18</sub>  | 19.5 | 704 |
| 2000 TH <sub>68</sub>  |   | 2000 10 02.39484 | 02 05 02.72 | +12 51 38.7 | 2000 TZ <sub>18</sub>  | 20.1 | 704 |
| 2000 TH <sub>68</sub>  |   | 2000 10 02.41032 | 02 05 02.15 | +12 51 37.0 | 2000 TZ <sub>18</sub>  | 19.3 | 704 |
| 2000 TH <sub>68</sub>  |   | 2000 10 02.42524 | 02 05 01.60 | +12 51 33.4 | 2000 TZ <sub>18</sub>  | 19.3 | 704 |
| 2000 TH <sub>68</sub>  |   | 2000 10 02.44035 | 02 05 01.04 | +12 51 31.8 | 2000 TZ <sub>18</sub>  | 19.5 | 704 |
| 2000 TJ <sub>68</sub>  | * | 2000 10 01.33627 | 01 59 44.50 | +11 45 33.0 | 2000 SZ <sub>236</sub> | 20.5 | 704 |
| 2000 TJ <sub>68</sub>  |   | 2000 10 01.35135 | 01 59 44.05 | +11 45 30.8 | 2000 SZ <sub>236</sub> | 20.6 | 704 |
| 2000 TJ <sub>68</sub>  |   | 2000 10 01.36643 | 01 59 43.34 | +11 45 27.7 | 2000 SZ <sub>236</sub> | 20.1 | 704 |
| 2000 TJ <sub>68</sub>  |   | 2000 10 01.38151 | 01 59 42.74 | +11 45 25.6 | 2000 SZ <sub>236</sub> | 20.4 | 704 |
| 2000 TJ <sub>68</sub>  |   | 2000 10 01.39659 | 01 59 42.11 | +11 45 21.5 | 2000 SZ <sub>236</sub> | 20.2 | 704 |
| 2000 TK <sub>68</sub>  | * | 2000 10 02.26237 | 23 26 57.56 | -09 16 53.9 | 2000 SD <sub>243</sub> | 18.9 | 704 |

|                       |                  |             |             |                        |      |     |
|-----------------------|------------------|-------------|-------------|------------------------|------|-----|
| 2000 TK <sub>68</sub> | 2000 10 02.27713 | 23 26 56.81 | -09 16 59.0 | 2000 SD <sub>243</sub> | 19.4 | 704 |
| 2000 TK <sub>68</sub> | 2000 10 02.29256 | 23 26 56.03 | -09 17 03.3 | 2000 SD <sub>243</sub> | 19.4 | 704 |
| 2000 TK <sub>68</sub> | 2000 10 02.32402 | 23 26 54.59 | -09 17 10.7 | 2000 SD <sub>243</sub> | 19.3 | 704 |

### CRITICAL LIST OF MINOR PLANETS

The following list updates and is in the same form as that on *MPC* 36978:

- Objects observed at only one opposition:  
None
- Objects observed at only two oppositions:  
(4581) (5335) (5797) (7236) (7822) (7839) (8014) (8034)  
(9767) (10860) (11885) (14402) (16064) (16636) (18106)
- Objects observed at only three oppositions:  
(2608) (3360) (3757) (3908) (4544) (4688) (5324) (5370)  
(6130) (6489) (6491) (7025) (7335) (7336) (8709) (9172)  
(9950) (10145) (10150) (10636) (11318) (11398) (14222) (15504)  
(15817) (15964) (16465) (16657) (16724) (16851) (16868) (16912)  
(16958) (16975) (17181) (17182) (17188) (17274) (17493) (18109)  
(18172)
- Objects observed at four or more oppositions, last more than five years ago:  
(1915) (2101) (2135) (3554) (4401) (5201) (5381)
- Objects observed at four or more oppositions, only one night in last five years:  
(2059) (5011) (5620)
- Other poorly-observed objects observed at four or more oppositions:  
(2340) (3200) (3362) (3753) (4034) (4769) (5590) (5604)  
(5786) (5828) (8300) (9439) (9498) (10362) (10606) (10614)  
(10660) (10923) (10957) (11208) (11287) (11412) (11770) (15263)  
(15500)

### NUMBERING OF A PERIODIC COMET

Continuation to the list on *MPC* 41252.

147P/1993 X1 = 2000 T2 (Kushida-Muramatsu)

### OBSERVATIONS OF COMETS

Observations are published here for the following observatory codes:

- Kleť. 0.57-m *f*/5.2 reflector + CCD. Observers J. Tichá, M. Tichý, M. Kočer and P. Jelínek.
- Črni vrh. 0.36-m *f*/6.7 Schmidt-Cassegrain + CCD. Observer H. Mikuž.
- Modra. 0.6-m *f*/5.5 reflector + CCD. Observers A. Galád, Š. Gajdoš and P. Kolény.
- Winterthur. 0.40-m *f*/5.9 hypergraph + CCD. Observer M. Griesser.
- SOHO. SOHO-LASCO coronagraphs C3 and C2. Measured by D. Hammer. Reduction by B. G. Marsden.
- Bisei. 0.50-m *f*/2.0 reflector + CCD. Observers A. Asami, D. J. Asher, S. Hashimoto, S. Isobe, S. Nakano, Y. Oshima, J. Terazono, T. Urata and M. Yoshikawa.

- 322 Perth Observatory, Bickley-MCT. 0.25-m  $f/4.5$  reflector + CCD. Observers J. D. Biggs and G. Lowe. Measured by J. D. Biggs.
- 327 Xinglong. 0.60-m Schmidt + CCD. Observers H. T. Zhang, Z. Y. Zheng, S. J. Xue, X. M. Teng and Y. J. Chen. Measured by X. Y. Li and X. M. Teng.
- 344 Bohyunsan Optical Astronomy Observatory. 1.8-m  $f/8$  reflector + CCD. Observers S.-L. Kim, Y.-H. Park, Y.-B. Jeon, S.-H. Lee. Measured by M.-Y. Chun.
- 349 Ageo. 0.18-m  $f/5.5$  reflector + CCD. Observer K. Kadota.
- 352 Konan. 0.25-m  $f/6$  reflector + CCD. Observer M. Hotta.
- 360 Kuma Kogen. 0.60-m  $f/5.8$  Ritchey-Chrétien + CCD. Observer A. Nakamura.
- 365 Uto Observatory. 0.20-m  $f/4.0$  reflector + CCD. Observer F. Uto.
- 392 JCPM Sapporo Station. 0.30-m  $f/2.7$  Schmidt camera. Observer K. Watanabe.
- 402 Dynic Astronomical Observatory. 0.60-m  $f/3.7$  reflector + CCD. Observer A. Sugie.
- 428 Reedy Creek. 0.25-m  $f/6.3$  Schmidt-Cassegrain + CCD. Observer J. Broughton.
- 467 Auckland. 0.50-m Cassegrain  $f/6.4$  reflector + CCD. Observers I. P. Griffin, O. Pinto and P. Walsh.
- 557 Ondřejov. 0.65-m  $f/3.6$  reflector + CCD. Observer P. Pravec and P. Kušnirák.
- 620 Mallorca. 0.35-m  $f/3.2$  Schmidt-Cassegrain + CCD. Observers S. Sanchez and M. Blasco. Measured by J. Rodriguez.
- 642 Oak Bay, Victoria. 0.20-m  $f/3.7$  Schmidt-Cassegrain + CCD. Observer C. E. Spratt.
- 649 Powell Observatory, Louisburg. 0.30-m Schmidt-Cassegrain + CCD. Observer L. Robinson.
- 670 Camarillo. 0.25-m Schmidt-Cassegrain + CCD. Observer J. E. Rogers.
- 678 Fountain Hills. 0.32-m  $f/5.5$  reflector + CCD. Observer C. W. Juels.
- 691 Kitt Peak. 0.91-m Spacewatch telescope. Observers A. Descour, T. Gehrels, A. E. Gleason, J. Larsen and J. V. Scotti.
- 695 Kitt Peak. 2.3-m reflector + CCD. Observer C. W. Hergenrother.
- 697 McGraw-Hill Observatory. 2.4-m Michigan-Dartmouth-M.I.T. Telescope. Observer G. J. Garradd.
- 699 LONEOS. 0.59-m Schmidt + CCD. Observers B. A. Skiff and M. E. Van Ness. Measured by B. W. Koehn and B. A. Skiff.
- 704 LINEAR. 1.0-m  $f/2.15$  reflector + CCD. Observers M. Blythe, F. Shelly, M. Bezpalko, M. Elowitz and R. Huber. Measured by J. Stuart, H. Vigg, R. Sayer and J. B. Evans.
- 711 McDonald. 0.76-m reflector + CCD. Observer J. G. Ries.
- 719 Etsorn Observatory. 0.355-m Schmidt-Cassegrain + CCD. Observer D. A. Klinglesmith, III.
- 739 Sunflower Observatory, Olathe. 0.30-m Schmidt-Cassegrain + CCD. Observer L. Robinson.
- 750 Hobbs Observatory, Fall Creek. 0.6-m  $f/5$  telescope + CCD. Observer R. Elliott.
- 808 El Leoncito. 0.76-m  $f/17$  reflector + CCD. Observers R. Gil-Hutton and H. Lepez. Measured by R. Gil-Hutton and P. Benavidez.
- 809 European Southern Observatory. 2.2-m MPG reflector + CCD. Observers C. Wolf and T. Kranz.

|                                     |                                                                                                                |             |                 |                 |      |        |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------|-----------------|-----------------|------|--------|
| 850                                 | Cordell-Lorenz Observatory. 0.3-m $f/5.7$ Schmidt-Cassegrain + CCD. Observers D. T. Durig and T. D. Polk.      |             |                 |                 |      |        |
| 853                                 | Biosphere 2 Observatory. 0.60-m $f/8.0$ reflector. Observer G. J. Garradd.                                     |             |                 |                 |      |        |
| 858                                 | Tebbutt Observatory, Edgewood. 0.3-m $f/10$ Schmidt-Cassegrain + CCD. Observer F. B. Zoltowski.                |             |                 |                 |      |        |
| 860                                 | Valinhos. 0.36-m $f/3.6$ Schmidt-Cassegrain + CCD. Observer P. R. Holvorcem.                                   |             |                 |                 |      |        |
| 867                                 | Saji Observatory. 1.03-m $f/4.8$ reflector + CCD. Observers M. Yamanishi, A. Miyamoto, M. Aimoto and T. Oribe. |             |                 |                 |      |        |
| 886                                 | Susono. 0.25-m $f/6.3$ reflector + CCD. Observer M. Akiyama.                                                   |             |                 |                 |      |        |
| 900                                 | Moriyama. 0.25-m $f/6.3$ reflector + CCD. Observer Y. Ikari.                                                   |             |                 |                 |      |        |
| 903                                 | Fukuchiyama. 0.25-m $f/6.3$ Schmidt-Cassegrain + CCD. Observer M. Yoshimi.                                     |             |                 |                 |      |        |
| 908                                 | Toyama. 0.43-m reflector $f/6$ + CCD. Observer M. Aoki.                                                        |             |                 |                 |      |        |
| 919                                 | Desert Beaver Observatory. 0.45-m reflector + CCD. Observer W. K. Yeung.                                       |             |                 |                 |      |        |
| 941                                 | Observatorio Pla D'Arguines. 0.26-m $f/10$ Schmidt-Cassegrain + CCD. Observer R. Ferrando.                     |             |                 |                 |      |        |
| 970                                 | Chelmsford. 0.30-m $f/5.25$ reflector + CCD. Observer N. D. James.                                             |             |                 |                 |      |        |
| Object                              | Date                                                                                                           | UT          | $\alpha_{2000}$ | $\delta_{2000}$ | Mag. | N Obs. |
| C/1995 O1 (Hale-Bopp)               |                                                                                                                |             |                 |                 |      |        |
| C/1995 O1                           | 2000 10 22.43774                                                                                               | 06 50 05.47 | -77 41 48.3     | 17.4 T          | 467  |        |
| C/1995 O1                           | 2000 10 23.53829                                                                                               | 06 49 31.39 | -77 47 21.5     |                 | 467  |        |
| C/1995 O1                           | 2000 10 23.54214                                                                                               | 06 49 30.39 | -77 47 23.2     | 17.2 T          | 467  |        |
| C/1995 O1                           | 2000 11 02.57756                                                                                               | 06 42 11.61 | -78 35 15.6     | 14.8 N          | 467  |        |
| C/1997 BA <sub>6</sub> (Spacewatch) |                                                                                                                |             |                 |                 |      |        |
| C/1997 BA <sub>6</sub>              | 2000 10 09.55374                                                                                               | 20 24 29.07 | -36 45 34.6     |                 | 322  |        |
| C/1997 BA <sub>6</sub>              | 2000 10 09.56564                                                                                               | 20 24 28.96 | -36 45 26.2     |                 | 322  |        |
| C/1997 BA <sub>6</sub>              | 2000 10 15.40535                                                                                               | 20 23 53.58 | -35 37 31.1     |                 | 900  |        |
| C/1997 BA <sub>6</sub>              | 2000 10 15.41253                                                                                               | 20 23 53.51 | -35 37 26.4     | 14.0 T          | 900  |        |
| C/1997 BA <sub>6</sub>              | 2000 10 26.49215                                                                                               | 20 24 30.46 | -33 33 04.1     |                 | 322  |        |
| C/1997 BA <sub>6</sub>              | 2000 10 26.51280                                                                                               | 20 24 30.62 | -33 32 49.6     |                 | 322  |        |
| C/1997 BA <sub>6</sub>              | 2000 10 26.54134                                                                                               | 20 24 30.87 | -33 32 30.9     |                 | 322  |        |
| C/1997 BA <sub>6</sub>              | 2000 10 27.34131                                                                                               | 20 24 38.33 | -33 23 46.6     | 15.1 N          | 467  |        |
| C/1997 BA <sub>6</sub>              | 2000 10 27.35053                                                                                               | 20 24 38.43 | -33 23 41.0     | 15.3 N          | 467  |        |
| C/1997 BA <sub>6</sub>              | 2000 11 05.38271                                                                                               | 20 26 41.38 | -31 47 24.8     |                 | 349  |        |
| C/1997 BA <sub>6</sub>              | 2000 11 05.38593                                                                                               | 20 26 41.46 | -31 47 22.5     |                 | 349  |        |
| C/1997 T6 (SOHO)                    |                                                                                                                |             |                 |                 |      |        |
| C/1997 T6                           | 1997 10 01.99383                                                                                               | 12 23 12.2  | -03 58 02       |                 | 249  |        |
| Geocentric position (AU)            |                                                                                                                | -0.00814175 | -0.00493466     | -0.00187019     |      |        |
| C/1997 T6                           | 1997 10 02.01256                                                                                               | 12 23 45.3  | -03 56 54       |                 | 249  |        |
| Geocentric position (AU)            |                                                                                                                | -0.00814041 | -0.00493824     | -0.00187228     |      |        |
| C/1997 T6                           | 1997 10 02.03063                                                                                               | 12 24 17.0  | -03 55 39       |                 | 249  |        |
| Geocentric position (AU)            |                                                                                                                | -0.00813910 | -0.00494169     | -0.00187430     |      |        |
| C/1997 T6                           | 1997 10 02.06187                                                                                               | 12 25 14.7  | -03 53 30       |                 | 249  |        |
| Geocentric position (AU)            |                                                                                                                | -0.00813685 | -0.00494764     | -0.00187779     |      |        |
| C/1997 T7 (SOHO)                    |                                                                                                                |             |                 |                 |      |        |
| C/1997 T7                           | 1997 10 08.33479                                                                                               | 12 46 29.6  | -06 30 21       |                 | 249  |        |
| Geocentric position (AU)            |                                                                                                                | -0.00761842 | -0.00602190     | -0.00253342     |      |        |
| C/1997 T7                           | 1997 10 08.35285                                                                                               | 12 46 59.9  | -06 29 11       |                 | 249  |        |
| Geocentric position (AU)            |                                                                                                                | -0.00761680 | -0.00602462     | -0.00253516     |      |        |

2000 NOV. 11

M.P.C. 41431

|                          |                  |             |             |  |     |
|--------------------------|------------------|-------------|-------------|--|-----|
| C/1997 T7                | 1997 10 08.37577 | 12 47 39.7  | -06 27 29   |  | 249 |
| Geocentric position (AU) | -0.00761473      | -0.00602807 | -0.00253737 |  |     |
| C/1997 T7                | 1997 10 08.39451 | 12 48 13.3  | -06 25 55   |  | 249 |
| Geocentric position (AU) | -0.00761304      | -0.00603089 | -0.00253918 |  |     |
| C/1997 T7                | 1997 10 08.41188 | 12 48 43.4  | -06 24 40   |  | 249 |
| Geocentric position (AU) | -0.00761148      | -0.00603350 | -0.00254085 |  |     |

**C/1999 K5 (LINEAR)**

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/1999 K5 | 2000 10 22.39078 | 09 05 09.90 | -72 18 10.9 | 14.8 T | 467 |
| C/1999 K5 | 2000 10 22.43582 | 09 05 08.48 | -72 18 25.9 | 15.5 T | 467 |
| C/1999 K5 | 2000 10 23.41045 | 09 04 32.19 | -72 23 45.1 | 14.8 T | 467 |
| C/1999 K5 | 2000 10 23.41087 | 09 04 32.33 | -72 23 45.0 | 14.8 T | 467 |
| C/1999 K5 | 2000 10 23.41128 | 09 04 32.25 | -72 23 45.0 | 14.7 T | 467 |
| C/1999 K5 | 2000 10 23.41171 | 09 04 32.17 | -72 23 45.4 | 14.9 T | 467 |
| C/1999 K5 | 2000 11 02.57569 | 08 54 29.09 | -73 20 46.7 | 14.5 N | 467 |

**C/1999 K8 (LINEAR)**

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/1999 K8 | 2000 09 24.64021 | 01 49 37.21 | +01 53 03.4 | 15.3 T | 900 |
| C/1999 K8 | 2000 09 24.64970 | 01 49 37.03 | +01 52 56.3 |        | 900 |
| C/1999 K8 | 2000 10 02.34305 | 01 46 54.01 | +00 17 45.7 | 13.8 T | 699 |
| C/1999 K8 | 2000 10 02.36461 | 01 46 53.71 | +00 17 29.0 |        | 699 |
| C/1999 K8 | 2000 10 02.38621 | 01 46 53.12 | +00 17 13.7 |        | 699 |
| C/1999 K8 | 2000 10 02.40782 | 01 46 52.54 | +00 16 58.6 |        | 699 |
| C/1999 K8 | 2000 10 07.65256 | 01 44 48.14 | -00 47 41.1 | 15.0 T | 349 |
| C/1999 K8 | 2000 10 07.66061 | 01 44 47.97 | -00 47 47.3 |        | 349 |
| C/1999 K8 | 2000 10 07.66399 | 01 44 47.90 | -00 47 49.7 |        | 349 |
| C/1999 K8 | 2000 10 15.55568 | 01 41 29.45 | -02 22 48.6 |        | 900 |
| C/1999 K8 | 2000 10 15.56249 | 01 41 29.25 | -02 22 53.5 | 14.8 T | 900 |
| C/1999 K8 | 2000 10 18.70994 | 01 40 08.36 | -02 59 33.1 | 14.7 T | 349 |
| C/1999 K8 | 2000 10 18.71244 | 01 40 08.30 | -02 59 34.7 |        | 349 |
| C/1999 K8 | 2000 10 26.66428 | 01 36 47.26 | -04 27 40.7 | 15.2 T | 900 |
| C/1999 K8 | 2000 10 26.67013 | 01 36 47.13 | -04 27 43.4 |        | 900 |
| C/1999 K8 | 2000 10 27.60223 | 01 36 24.22 | -04 37 33.4 |        | 352 |
| C/1999 K8 | 2000 10 27.60799 | 01 36 24.05 | -04 37 38.1 | 15.5 T | 352 |
| C/1999 K8 | 2000 10 27.61353 | 01 36 23.92 | -04 37 41.2 |        | 352 |
| C/1999 K8 | 2000 10 27.64410 | 01 36 23.28 | -04 37 59.9 | 15.1 T | 903 |
| C/1999 K8 | 2000 10 27.72991 | 01 36 21.02 | -04 38 53.5 |        | 903 |
| C/1999 K8 | 2000 10 28.26549 | 01 36 08.08 | -04 44 29.7 |        | 750 |
| C/1999 K8 | 2000 10 28.27194 | 01 36 07.86 | -04 44 33.6 |        | 750 |
| C/1999 K8 | 2000 10 28.28354 | 01 36 07.53 | -04 44 40.9 |        | 750 |
| C/1999 K8 | 2000 10 29.23911 | 01 35 44.56 | -04 54 34.3 | 16.6 T | 704 |
| C/1999 K8 | 2000 10 29.25442 | 01 35 44.15 | -04 54 43.4 | 16.7 T | 704 |
| C/1999 K8 | 2000 10 29.28281 | 01 35 43.39 | -04 55 00.3 | 16.7 T | 704 |
| C/1999 K8 | 2000 10 30.51977 | 01 35 14.07 | -05 07 36.0 | 15.2 T | 900 |
| C/1999 K8 | 2000 10 30.52726 | 01 35 13.93 | -05 07 40.8 |        | 900 |
| C/1999 K8 | 2000 11 02.34052 | 01 34 08.86 | -05 35 27.2 | 14.9 N | 467 |
| C/1999 K8 | 2000 11 04.62824 | 01 33 17.96 | -05 57 15.0 | 15.4 T | 349 |
| C/1999 K8 | 2000 11 04.62979 | 01 33 17.87 | -05 57 18.2 |        | 349 |
| C/1999 K8 | 2000 11 04.63262 | 01 33 17.81 | -05 57 18.6 |        | 349 |

**C/1999 S2 (McNaught-Watson)**

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/1999 S2 | 2000 10 27.62165 | 03 35 56.07 | -46 57 14.9 | 18.8 N | 428 |
| C/1999 S2 | 2000 10 27.62780 | 03 35 55.81 | -46 57 14.6 | 18.8 N | 428 |

**C/1999 T1 (McNaught-Hartley)**

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/1999 T1 | 2000 11 02.61749 | 12 01 11.41 | -38 30 17.8 | 10.4 N | 467 |
| C/1999 T1 | 2000 11 02.61902 | 12 01 11.80 | -38 30 16.5 | 10.3 N | 467 |
| C/1999 T1 | 2000 11 02.62060 | 12 01 12.09 | -38 30 15.2 | 10.3 N | 467 |
| C/1999 T1 | 2000 11 02.62219 | 12 01 12.39 | -38 30 13.5 | 10.3 N | 467 |
| C/1999 T1 | 2000 11 02.62370 | 12 01 12.69 | -38 30 12.4 | 10.3 N | 467 |

**C/1999 T2 (LINEAR)**

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/1999 T2 | 2000 09 29.48549 | 16 49 03.23 | +42 47 59.7 | 13.7 T | 900 |
| C/1999 T2 | 2000 09 29.49480 | 16 49 02.91 | +42 47 47.0 |        | 900 |
| C/1999 T2 | 2000 10 07.41177 | 16 45 57.93 | +39 58 36.5 | 14.4 T | 349 |
| C/1999 T2 | 2000 10 07.41428 | 16 45 57.88 | +39 58 33.7 |        | 349 |
| C/1999 T2 | 2000 10 07.41596 | 16 45 57.80 | +39 58 31.5 |        | 349 |
| C/1999 T2 | 2000 10 15.03919 | 16 44 33.90 | +37 29 08.0 | 13.8 T | 750 |
| C/1999 T2 | 2000 10 15.05084 | 16 44 33.79 | +37 28 54.6 | 13.9 T | 750 |
| C/1999 T2 | 2000 10 15.07227 | 16 44 33.66 | +37 28 31.1 | 13.7 T | 750 |
| C/1999 T2 | 2000 10 20.02030 | 16 44 18.65 | +35 58 59.4 | 13.6 T | 750 |
| C/1999 T2 | 2000 10 20.02987 | 16 44 18.65 | +35 58 49.5 | 13.8 T | 750 |
| C/1999 T2 | 2000 10 20.04254 | 16 44 18.65 | +35 58 36.0 | 13.7 T | 750 |
| C/1999 T2 | 2000 10 20.04916 | 16 44 18.65 | +35 58 29.1 | 13.9 T | 750 |
| C/1999 T2 | 2000 11 05.36868 | 16 46 08.85 | +31 45 21.8 | 14.3 T | 349 |
| C/1999 T2 | 2000 11 05.37162 | 16 46 08.88 | +31 45 19.7 |        | 349 |
| C/1999 T2 | 2000 11 05.37302 | 16 46 08.93 | +31 45 18.8 |        | 349 |

**C/1999 U4 (Catalina-Skiff)**

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/1999 U4 | 2000 09 24.73527 | 03 33 17.38 | +47 06 43.6 | 16.3 T | 900 |
| C/1999 U4 | 2000 09 24.74918 | 03 33 17.21 | +47 06 47.8 |        | 900 |
| C/1999 U4 | 2000 10 06.76734 | 03 28 18.23 | +48 40 35.2 | 16.6 T | 349 |
| C/1999 U4 | 2000 10 06.77439 | 03 28 18.01 | +48 40 37.4 |        | 349 |
| C/1999 U4 | 2000 10 06.77579 | 03 28 17.94 | +48 40 38.3 |        | 349 |
| C/1999 U4 | 2000 10 11.79289 | 03 25 26.79 | +49 16 59.6 | 16.4 T | 349 |
| C/1999 U4 | 2000 10 11.79615 | 03 25 26.64 | +49 17 00.5 |        | 349 |
| C/1999 U4 | 2000 10 11.79868 | 03 25 26.63 | +49 17 01.1 |        | 349 |
| C/1999 U4 | 2000 10 18.73316 | 03 20 47.52 | +50 03 41.1 | 16.4 T | 349 |
| C/1999 U4 | 2000 10 18.73487 | 03 20 47.42 | +50 03 40.8 |        | 349 |
| C/1999 U4 | 2000 10 26.66913 | 03 14 32.33 | +50 50 47.8 | 16.5 T | 402 |
| C/1999 U4 | 2000 10 26.67039 | 03 14 32.20 | +50 50 48.9 |        | 402 |
| C/1999 U4 | 2000 10 26.67166 | 03 14 32.14 | +50 50 48.4 |        | 402 |
| C/1999 U4 | 2000 10 27.64626 | 03 13 42.58 | +50 56 05.8 |        | 900 |
| C/1999 U4 | 2000 10 27.65390 | 03 13 42.59 | +50 56 06.7 |        | 900 |
| C/1999 U4 | 2000 10 30.17612 | 03 11 30.33 | +51 09 13.4 |        | 642 |
| C/1999 U4 | 2000 10 30.17903 | 03 11 30.17 | +51 09 12.5 |        | 642 |
| C/1999 U4 | 2000 11 04.67087 | 03 06 28.65 | +51 34 43.0 | 16.4 T | 349 |
| C/1999 U4 | 2000 11 04.67484 | 03 06 28.48 | +51 34 44.1 |        | 349 |
| C/1999 U4 | 2000 11 04.67662 | 03 06 28.29 | +51 34 44.7 |        | 349 |
| C/1999 U4 | 2000 11 05.79265 | 03 05 25.35 | +51 39 23.4 | 15.8 T | 151 |
| C/1999 U4 | 2000 11 05.79573 | 03 05 25.17 | +51 39 24.2 | 15.9 T | 151 |
| C/1999 U4 | 2000 11 05.79943 | 03 05 25.00 | +51 39 24.6 | 15.9 T | 151 |
| C/1999 U4 | 2000 11 05.80392 | 03 05 24.65 | +51 39 26.4 | 15.2 T | 151 |
| C/1999 U4 | 2000 11 05.80810 | 03 05 24.52 | +51 39 27.9 | 16.0 T | 151 |

**C/1999 U6 (SOHO)**

|                          |                  |             |             |  |     |
|--------------------------|------------------|-------------|-------------|--|-----|
| C/1999 U6                | 1999 10 17.90979 | 13 20 46.4  | -10 08 36   |  | 249 |
| Geocentric position (AU) | -0.00814605      | -0.00648515 | -0.00351753 |  |     |

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| C/1999 U6                | 1999 10 17.92090 | 13 21 03.9  | -10 07 54   | 249 |
| Geocentric position (AU) | -0.00814549      | -0.00648573 | -0.00351803 |     |
| C/1999 U6                | 1999 10 17.93478 | 13 21 25.9  | -10 06 40   | 249 |
| Geocentric position (AU) | -0.00814480      | -0.00648645 | -0.00351864 |     |
| C/1999 U6                | 1999 10 17.96313 | 13 22 12.7  | -10 03 44   | 249 |
| Geocentric position (AU) | -0.00814338      | -0.00648791 | -0.00351990 |     |
| C/1999 U6                | 1999 10 17.97645 | 13 22 34.0  | -10 02 29   | 249 |
| Geocentric position (AU) | -0.00814272      | -0.00648860 | -0.00352048 |     |

**C/1999 U7 (SOHO)**

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| C/1999 U7                | 1999 10 27.12923 | 13 57 01.9  | -13 32 19   | 249 |
| Geocentric position (AU) | -0.00777434      | -0.00683932 | -0.00383781 |     |
| C/1999 U7                | 1999 10 27.14312 | 13 57 18.0  | -13 32 47   | 249 |
| Geocentric position (AU) | -0.00777392      | -0.00683975 | -0.00383819 |     |
| C/1999 U7                | 1999 10 27.15979 | 13 57 43.6  | -13 30 28   | 249 |
| Geocentric position (AU) | -0.00777342      | -0.00684028 | -0.00383864 |     |
| C/1999 U7                | 1999 10 27.17090 | 13 58 06.1  | -13 29 38   | 249 |
| Geocentric position (AU) | -0.00777308      | -0.00684063 | -0.00383895 |     |
| C/1999 U7                | 1999 10 27.18479 | 13 58 24.6  | -13 27 33   | 249 |
| Geocentric position (AU) | -0.00777266      | -0.00684107 | -0.00383933 |     |
| C/1999 U7                | 1999 10 27.20146 | 13 58 47.8  | -13 25 25   | 249 |
| Geocentric position (AU) | -0.00777216      | -0.00684160 | -0.00383978 |     |
| C/1999 U7                | 1999 10 27.21256 | 13 59 06.0  | -13 24 17   | 249 |
| Geocentric position (AU) | -0.00777183      | -0.00684195 | -0.00384009 |     |
| C/1999 U7                | 1999 10 27.22646 | 13 59 26.8  | -13 22 42   | 249 |
| Geocentric position (AU) | -0.00777141      | -0.00684239 | -0.00384047 |     |
| C/1999 U7                | 1999 10 27.24312 | 13 59 52.4  | -13 20 31   | 249 |
| Geocentric position (AU) | -0.00777091      | -0.00684291 | -0.00384092 |     |

**C/1999 U8 (SOHO)**

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| C/1999 U8                | 1999 10 29.32645 | 14 05 53.6  | -14 21 27   | 249 |
| Geocentric position (AU) | -0.00771089      | -0.00690901 | -0.00389575 |     |
| C/1999 U8                | 1999 10 29.33756 | 14 06 12.5  | -14 19 59   | 249 |
| Geocentric position (AU) | -0.00771058      | -0.00690936 | -0.00389603 |     |
| C/1999 U8                | 1999 10 29.35145 | 14 06 32.3  | -14 18 18   | 249 |
| Geocentric position (AU) | -0.00771019      | -0.00690980 | -0.00389638 |     |
| C/1999 U8                | 1999 10 29.36812 | 14 06 57.3  | -14 16 20   | 249 |
| Geocentric position (AU) | -0.00770972      | -0.00691034 | -0.00389681 |     |
| C/1999 U8                | 1999 10 29.37923 | 14 07 13.6  | -14 14 55   | 249 |
| Geocentric position (AU) | -0.00770941      | -0.00691069 | -0.00389709 |     |

**C/1999 U9 (SOHO)**

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| C/1999 U9                | 1999 10 30.27092 | 14 10 07.0  | -14 43 51   | 249 |
| Geocentric position (AU) | -0.00768459      | -0.00693933 | -0.00391937 |     |
| C/1999 U9                | 1999 10 30.28131 | 14 10 23.6  | -14 42 28   | 249 |
| Geocentric position (AU) | -0.00768430      | -0.00693966 | -0.00391962 |     |
| C/1999 U9                | 1999 10 30.30215 | 14 10 54.6  | -14 39 53   | 249 |
| Geocentric position (AU) | -0.00768372      | -0.00694033 | -0.00392013 |     |
| C/1999 U9                | 1999 10 30.31257 | 14 11 09.4  | -14 38 00   | 249 |
| Geocentric position (AU) | -0.00768343      | -0.00694067 | -0.00392039 |     |
| C/1999 U9                | 1999 10 30.32298 | 14 11 26.2  | -14 36 52   | 249 |
| Geocentric position (AU) | -0.00768315      | -0.00694101 | -0.00392065 |     |
| C/1999 U9                | 1999 10 30.33341 | 14 11 41.0  | -14 35 23   | 249 |
| Geocentric position (AU) | -0.00768286      | -0.00694134 | -0.00392090 |     |

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| C/1999 U9                | 1999 10 30.34381 | 14 11 55.4  | -14 33 45   | 249 |
| Geocentric position (AU) | -0.00768257      | -0.00694168 | -0.00392116 |     |

**C/1999 V2 (SOHO)**

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| C/1999 V2                | 1999 11 07.72090 | 14 37 47.7  | -18 29 09   | 249 |
| Geocentric position (AU) | -0.00742285      | -0.00720467 | -0.00409338 |     |
| C/1999 V2                | 1999 11 07.73757 | 14 38 07.4  | -18 26 40   | 249 |
| Geocentric position (AU) | -0.00742225      | -0.00720514 | -0.00409364 |     |
| C/1999 V2                | 1999 11 07.76256 | 14 38 37.4  | -18 24 48   | 249 |
| Geocentric position (AU) | -0.00742136      | -0.00720584 | -0.00409404 |     |
| C/1999 V2                | 1999 11 07.77924 | 14 38 56.1  | -18 23 15   | 249 |
| Geocentric position (AU) | -0.00742077      | -0.00720631 | -0.00409430 |     |
| C/1999 V2                | 1999 11 07.82160 | 14 39 48.1  | -18 18 25   | 249 |
| Geocentric position (AU) | -0.00741926      | -0.00720750 | -0.00409496 |     |
| C/1999 V2                | 1999 11 07.84659 | 14 40 18.7  | -18 15 34   | 249 |
| Geocentric position (AU) | -0.00741836      | -0.00720820 | -0.00409535 |     |
| C/1999 V2                | 1999 11 07.86326 | 14 40 38.4  | -18 13 47   | 249 |
| Geocentric position (AU) | -0.00741777      | -0.00720867 | -0.00409561 |     |
| C/1999 V2                | 1999 11 07.88826 | 14 41 09.9  | -18 10 55   | 249 |
| Geocentric position (AU) | -0.00741687      | -0.00720937 | -0.00409599 |     |
| C/1999 V2                | 1999 11 07.90492 | 14 41 28.4  | -18 08 27   | 249 |
| Geocentric position (AU) | -0.00741627      | -0.00720983 | -0.00409625 |     |
| C/1999 V2                | 1999 11 07.92992 | 14 42 00.9  | -18 06 25   | 249 |
| Geocentric position (AU) | -0.00741538      | -0.00721053 | -0.00409664 |     |
| C/1999 V2                | 1999 11 07.97169 | 14 42 52.7  | -18 01 36   | 249 |
| Geocentric position (AU) | -0.00741388      | -0.00721169 | -0.00409728 |     |
| C/1999 V2                | 1999 11 08.01326 | 14 43 43.7  | -17 56 08   | 249 |
| Geocentric position (AU) | -0.00741239      | -0.00721285 | -0.00409792 |     |
| C/1999 V2                | 1999 11 08.02992 | 14 44 05.4  | -17 53 43   | 249 |
| Geocentric position (AU) | -0.00741179      | -0.00721331 | -0.00409817 |     |
| C/1999 V2                | 1999 11 08.07298 | 14 45 00.4  | -17 48 10   | 249 |
| Geocentric position (AU) | -0.00741024      | -0.00721450 | -0.00409883 |     |
| C/1999 V2                | 1999 11 08.09928 | 14 45 32.7  | -17 44 21   | 249 |
| Geocentric position (AU) | -0.00740929      | -0.00721523 | -0.00409923 |     |
| C/1999 V2                | 1999 11 08.11326 | 14 45 49.3  | -17 42 08   | 249 |
| Geocentric position (AU) | -0.00740879      | -0.00721562 | -0.00409944 |     |
| C/1999 V2                | 1999 11 08.12993 | 14 46 14.2  | -17 40 32   | 249 |
| Geocentric position (AU) | -0.00740819      | -0.00721608 | -0.00409970 |     |
| C/1999 V2                | 1999 11 08.14312 | 14 46 31.2  | -17 38 27   | 249 |
| Geocentric position (AU) | -0.00740771      | -0.00721644 | -0.00409990 |     |
| C/1999 V2                | 1999 11 08.15979 | 14 46 52.6  | -17 36 06   | 249 |
| Geocentric position (AU) | -0.00740711      | -0.00721690 | -0.00410015 |     |
| C/1999 V2                | 1999 11 08.18480 | 14 47 25.8  | -17 32 30   | 249 |
| Geocentric position (AU) | -0.00740621      | -0.00721759 | -0.00410053 |     |
| C/1999 V2                | 1999 11 08.20145 | 14 47 48.6  | -17 30 00   | 249 |
| Geocentric position (AU) | -0.00740561      | -0.00721805 | -0.00410078 |     |
| C/1999 V2                | 1999 11 08.21256 | 14 48 03.2  | -17 28 13   | 249 |
| Geocentric position (AU) | -0.00740520      | -0.00721836 | -0.00410095 |     |
| C/1999 V2                | 1999 11 08.22645 | 14 48 21.9  | -17 26 02   | 249 |
| Geocentric position (AU) | -0.00740470      | -0.00721874 | -0.00410115 |     |
| C/1999 V2                | 1999 11 08.24312 | 14 48 44.1  | -17 23 20   | 249 |
| Geocentric position (AU) | -0.00740410      | -0.00721920 | -0.00410140 |     |

**C/1999 V3 (SOHO)**

|                          |         |             |             |             |     |
|--------------------------|---------|-------------|-------------|-------------|-----|
| C/1999 V3                | 1999 11 | 14.74590    | 15 15 19.2  | -19 44 12   | 249 |
| Geocentric position (AU) |         | -0.00715622 | -0.00736945 | -0.00416864 |     |
| C/1999 V3                | 1999 11 | 14.75424    | 15 15 29.2  | -19 42 39   | 249 |
| Geocentric position (AU) |         | -0.00715590 | -0.00736961 | -0.00416868 |     |
| C/1999 V3                | 1999 11 | 14.77090    | 15 15 47.4  | -19 40 11   | 249 |
| Geocentric position (AU) |         | -0.00715526 | -0.00736993 | -0.00416878 |     |
| C/1999 V3                | 1999 11 | 14.78756    | 15 16 05.3  | -19 37 38   | 249 |
| Geocentric position (AU) |         | -0.00715461 | -0.00737025 | -0.00416888 |     |
| C/1999 V3                | 1999 11 | 14.82923    | 15 16 51.6  | -19 30 30   | 249 |
| Geocentric position (AU) |         | -0.00715300 | -0.00737105 | -0.00416911 |     |
| C/1999 V3                | 1999 11 | 14.83758    | 15 17 01.8  | -19 28 44   | 249 |
| Geocentric position (AU) |         | -0.00715267 | -0.00737121 | -0.00416916 |     |
| C/1999 V3                | 1999 11 | 14.85423    | 15 17 20.5  | -19 25 54   | 249 |
| Geocentric position (AU) |         | -0.00715203 | -0.00737153 | -0.00416925 |     |

**C/1999 V4 (SOHO)**

|                          |         |             |             |             |     |
|--------------------------|---------|-------------|-------------|-------------|-----|
| C/1999 V4                | 1999 11 | 15.53756    | 15 18 35.2  | -19 54 23   | 249 |
| Geocentric position (AU) |         | -0.00712564 | -0.00738441 | -0.00417279 |     |
| C/1999 V4                | 1999 11 | 15.56349    | 15 19 07.7  | -19 49 42   | 249 |
| Geocentric position (AU) |         | -0.00712465 | -0.00738489 | -0.00417292 |     |
| C/1999 V4                | 1999 11 | 15.57924    | 15 19 18.5  | -19 47 06   | 249 |
| Geocentric position (AU) |         | -0.00712404 | -0.00738518 | -0.00417299 |     |
| C/1999 V4                | 1999 11 | 15.58757    | 15 19 31.6  | -19 45 29   | 249 |
| Geocentric position (AU) |         | -0.00712372 | -0.00738534 | -0.00417303 |     |
| C/1999 V4                | 1999 11 | 15.60423    | 15 19 49.0  | -19 42 29   | 249 |
| Geocentric position (AU) |         | -0.00712308 | -0.00738565 | -0.00417311 |     |

**C/1999 Y1 (LINEAR)**

|           |         |          |             |             |        |     |
|-----------|---------|----------|-------------|-------------|--------|-----|
| C/1999 Y1 | 2000 09 | 24.71278 | 02 26 48.97 | +48 45 20.0 | 13.4 T | 900 |
| C/1999 Y1 | 2000 09 | 24.72193 | 02 26 47.64 | +48 45 15.8 |        | 900 |
| C/1999 Y1 | 2000 10 | 04.55127 | 02 02 34.66 | +47 02 22.3 | 13.3 T | 900 |
| C/1999 Y1 | 2000 10 | 04.56045 | 02 02 33.20 | +47 02 15.7 |        | 900 |
| C/1999 Y1 | 2000 10 | 05.85155 | 01 59 11.71 | +46 44 39.2 |        | 970 |
| C/1999 Y1 | 2000 10 | 05.86216 | 01 59 09.98 | +46 44 30.3 |        | 970 |
| C/1999 Y1 | 2000 10 | 05.89166 | 01 59 05.45 | +46 44 05.9 |        | 970 |
| C/1999 Y1 | 2000 10 | 05.90230 | 01 59 03.77 | +46 43 57.5 |        | 970 |
| C/1999 Y1 | 2000 10 | 06.74140 | 01 56 51.63 | +46 31 58.7 | 13.3 T | 349 |
| C/1999 Y1 | 2000 10 | 06.74304 | 01 56 51.38 | +46 31 57.2 |        | 349 |
| C/1999 Y1 | 2000 10 | 06.74485 | 01 56 51.05 | +46 31 55.9 |        | 349 |
| C/1999 Y1 | 2000 10 | 07.53427 | 01 54 46.78 | +46 20 15.8 | 13.2 T | 349 |
| C/1999 Y1 | 2000 10 | 07.53590 | 01 54 46.55 | +46 20 13.9 |        | 349 |
| C/1999 Y1 | 2000 10 | 07.53731 | 01 54 46.34 | +46 20 12.6 |        | 349 |
| C/1999 Y1 | 2000 10 | 11.73138 | 01 43 38.32 | +45 11 48.4 | 13.3 T | 349 |
| C/1999 Y1 | 2000 10 | 11.73412 | 01 43 37.89 | +45 11 45.3 |        | 349 |
| C/1999 Y1 | 2000 10 | 11.73667 | 01 43 37.48 | +45 11 42.8 |        | 349 |
| C/1999 Y1 | 2000 10 | 12.12950 | 01 42 34.97 | +45 04 44.1 |        | 642 |
| C/1999 Y1 | 2000 10 | 12.13148 | 01 42 34.68 | +45 04 40.8 |        | 642 |
| C/1999 Y1 | 2000 10 | 12.13347 | 01 42 34.32 | +45 04 38.9 |        | 642 |
| C/1999 Y1 | 2000 10 | 15.57508 | 01 33 24.73 | +43 59 35.1 |        | 900 |
| C/1999 Y1 | 2000 10 | 15.58265 | 01 33 23.52 | +43 59 26.9 | 13.1 T | 900 |
| C/1999 Y1 | 2000 10 | 18.69895 | 01 25 10.13 | +42 54 16.7 | 12.9 T | 349 |
| C/1999 Y1 | 2000 10 | 18.69999 | 01 25 09.98 | +42 54 15.3 |        | 349 |
| C/1999 Y1 | 2000 10 | 18.70181 | 01 25 09.67 | +42 54 13.2 |        | 349 |

|           |         |          |             |             |        |     |
|-----------|---------|----------|-------------|-------------|--------|-----|
| C/1999 Y1 | 2000 10 | 20.19952 | 01 21 15.67 | +42 20 53.2 | 15.5 T | 750 |
| C/1999 Y1 | 2000 10 | 20.21411 | 01 21 13.37 | +42 20 33.3 | 15.5 T | 750 |
| C/1999 Y1 | 2000 10 | 20.22505 | 01 21 11.68 | +42 20 18.1 | 15.5 T | 750 |
| C/1999 Y1 | 2000 10 | 21.15354 | 01 18 47.90 | +41 58 58.2 |        | 642 |
| C/1999 Y1 | 2000 10 | 21.15552 | 01 18 47.59 | +41 58 55.3 |        | 642 |
| C/1999 Y1 | 2000 10 | 23.76403 | 01 12 08.61 | +40 56 31.5 | 13.2 T | 349 |
| C/1999 Y1 | 2000 10 | 23.76518 | 01 12 08.46 | +40 56 29.7 |        | 349 |
| C/1999 Y1 | 2000 10 | 23.76848 | 01 12 07.94 | +40 56 25.1 |        | 349 |
| C/1999 Y1 | 2000 10 | 26.57615 | 01 05 10.99 | +39 45 23.9 | 13.0 T | 402 |
| C/1999 Y1 | 2000 10 | 26.57742 | 01 05 10.81 | +39 45 21.9 |        | 402 |
| C/1999 Y1 | 2000 10 | 26.57868 | 01 05 10.61 | +39 45 20.0 |        | 402 |
| C/1999 Y1 | 2000 10 | 26.67875 | 01 04 56.03 | +39 42 44.4 |        | 900 |
| C/1999 Y1 | 2000 10 | 26.68167 | 01 04 55.60 | +39 42 40.0 |        | 900 |
| C/1999 Y1 | 2000 10 | 27.56482 | 01 02 47.50 | +39 19 31.2 | 13.3 T | 352 |
| C/1999 Y1 | 2000 10 | 27.57054 | 01 02 46.69 | +39 19 22.1 |        | 352 |
| C/1999 Y1 | 2000 10 | 27.68939 | 01 02 29.41 | +39 16 13.0 | 13.0 T | 903 |
| C/1999 Y1 | 2000 10 | 27.69112 | 01 02 29.04 | +39 16 09.5 | 13.1 T | 349 |
| C/1999 Y1 | 2000 10 | 27.69522 | 01 02 28.48 | +39 16 02.9 |        | 349 |
| C/1999 Y1 | 2000 10 | 27.69522 | 01 02 28.53 | +39 16 03.6 |        | 903 |
| C/1999 Y1 | 2000 10 | 27.69642 | 01 02 28.30 | +39 16 01.6 |        | 349 |
| C/1999 Y1 | 2000 10 | 28.16271 | 01 01 21.59 | +39 03 38.2 | 15.9 T | 750 |
| C/1999 Y1 | 2000 10 | 28.17401 | 01 01 19.97 | +39 03 20.1 | 15.9 T | 750 |
| C/1999 Y1 | 2000 10 | 28.18549 | 01 01 18.29 | +39 03 01.9 | 15.9 T | 750 |
| C/1999 Y1 | 2000 10 | 30.15343 | 00 56 41.02 | +38 09 44.0 |        | 642 |
| C/1999 Y1 | 2000 10 | 30.15564 | 00 56 40.73 | +38 09 40.8 |        | 642 |
| C/1999 Y1 | 2000 10 | 30.15762 | 00 56 40.51 | +38 09 37.1 |        | 642 |
| C/1999 Y1 | 2000 11 | 03.53130 | 00 46 54.89 | +36 06 22.0 |        | 900 |
| C/1999 Y1 | 2000 11 | 03.53894 | 00 46 53.88 | +36 06 08.7 | 12.7 T | 900 |
| C/1999 Y1 | 2000 11 | 04.24756 | 00 45 23.16 | +35 45 37.4 | 15.9 T | 750 |
| C/1999 Y1 | 2000 11 | 04.26642 | 00 45 20.79 | +35 45 04.3 | 16.0 T | 750 |
| C/1999 Y1 | 2000 11 | 04.66030 | 00 44 30.96 | +35 33 37.5 | 13.0 T | 349 |
| C/1999 Y1 | 2000 11 | 04.66125 | 00 44 30.83 | +35 33 35.8 |        | 349 |
| C/1999 Y1 | 2000 11 | 04.66316 | 00 44 30.58 | +35 33 32.5 |        | 349 |
| C/1999 Y1 | 2000 11 | 04.84699 | 00 44 07.54 | +35 28 08.6 | 13.6 T | 941 |

**C/2000 K2 (LINEAR)**

|           |         |          |             |             |        |     |
|-----------|---------|----------|-------------|-------------|--------|-----|
| C/2000 K2 | 2000 09 | 29.42596 | 18 07 50.09 | +03 16 09.5 |        | 900 |
| C/2000 K2 | 2000 09 | 29.44014 | 18 07 51.48 | +03 16 01.0 | 15.0 T | 900 |
| C/2000 K2 | 2000 10 | 07.43221 | 18 20 45.99 | +02 08 12.7 | 15.1 T | 349 |
| C/2000 K2 | 2000 10 | 07.43421 | 18 20 46.19 | +02 08 12.2 |        | 349 |
| C/2000 K2 | 2000 10 | 07.43959 | 18 20 46.75 | +02 08 10.0 |        | 349 |
| C/2000 K2 | 2000 10 | 14.42335 | 18 32 46.34 | +01 13 53.8 | 15.3 T | 900 |
| C/2000 K2 | 2000 10 | 14.43092 | 18 32 47.14 | +01 13 50.1 |        | 900 |
| C/2000 K2 | 2000 11 | 05.40683 | 19 13 55.25 | -00 59 30.5 | 15.4 T | 349 |
| C/2000 K2 | 2000 11 | 05.41732 | 19 13 56.40 | -00 59 32.4 |        | 349 |

**P/2000 S1 (Skiff)**

|           |         |          |             |             |        |     |
|-----------|---------|----------|-------------|-------------|--------|-----|
| P/2000 S1 | 2000 10 | 02.27249 | 00 24 18.30 | -13 50 54.0 | 14.6 T | 699 |
| P/2000 S1 | 2000 10 | 02.29175 | 00 24 17.46 | -13 50 46.1 |        | 699 |
| P/2000 S1 | 2000 10 | 02.31095 | 00 24 16.44 | -13 50 38.1 |        | 699 |
| P/2000 S1 | 2000 10 | 02.33027 | 00 24 15.47 | -13 50 32.2 |        | 699 |
| P/2000 S1 | 2000 10 | 07.63361 | 00 19 52.80 | -13 15 13.4 | 15.9 T | 349 |
| P/2000 S1 | 2000 10 | 07.63726 | 00 19 52.69 | -13 15 11.4 |        | 349 |
| P/2000 S1 | 2000 10 | 07.64095 | 00 19 52.50 | -13 15 10.3 |        | 349 |

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| P/2000 S1 | 2000 10 09.11571 | 00 18 42.58 | -13 04 30.9 | 16.4 T | 860 |
| P/2000 S1 | 2000 10 09.12458 | 00 18 42.26 | -13 04 25.4 | 16.7 T | 860 |
| P/2000 S1 | 2000 10 09.13483 | 00 18 41.67 | -13 04 20.6 | 16.1 T | 860 |
| P/2000 S1 | 2000 10 09.59553 | 00 18 20.13 | -13 01 05.6 | 15.5 T | 886 |
| P/2000 S1 | 2000 10 09.61947 | 00 18 19.20 | -13 00 54.2 |        | 886 |
| P/2000 S1 | 2000 10 15.50391 | 00 14 02.32 | -12 15 04.8 | 15.9 T | 900 |
| P/2000 S1 | 2000 10 15.51146 | 00 14 01.95 | -12 15 01.2 |        | 900 |
| P/2000 S1 | 2000 10 15.80200 | 00 13 50.24 | -12 12 38.2 |        | 118 |
| P/2000 S1 | 2000 10 15.80534 | 00 13 50.14 | -12 12 37.2 |        | 118 |
| P/2000 S1 | 2000 10 15.80972 | 00 13 49.97 | -12 12 34.2 |        | 118 |
| P/2000 S1 | 2000 10 17.49344 | 00 12 43.40 | -11 58 24.8 |        | 322 |
| P/2000 S1 | 2000 10 17.52443 | 00 12 42.22 | -11 58 09.6 |        | 322 |
| P/2000 S1 | 2000 10 17.56372 | 00 12 40.60 | -11 57 49.3 |        | 322 |
| P/2000 S1 | 2000 10 17.62709 | 00 12 38.04 | -11 57 16.2 |        | 322 |
| P/2000 S1 | 2000 10 17.68101 | 00 12 35.86 | -11 56 49.3 |        | 322 |
| P/2000 S1 | 2000 10 18.60729 | 00 12 00.73 | -11 49 01.6 | 16.6 T | 903 |
| P/2000 S1 | 2000 10 18.61189 | 00 12 00.61 | -11 48 58.9 |        | 903 |
| P/2000 S1 | 2000 10 18.61403 | 00 12 00.50 | -11 48 56.5 |        | 903 |
| P/2000 S1 | 2000 10 18.63198 | 00 11 59.88 | -11 48 43.3 |        | 322 |
| P/2000 S1 | 2000 10 18.64185 | 00 11 59.53 | -11 48 38.3 |        | 322 |
| P/2000 S1 | 2000 10 18.65061 | 00 11 59.17 | -11 48 33.2 |        | 322 |
| P/2000 S1 | 2000 10 25.59484 | 00 08 10.35 | -10 46 03.8 |        | 322 |
| P/2000 S1 | 2000 10 25.66032 | 00 08 08.37 | -10 45 27.6 |        | 322 |
| P/2000 S1 | 2000 10 27.50643 | 00 07 18.69 | -10 28 02.9 | 16.0 T | 900 |
| P/2000 S1 | 2000 10 27.51407 | 00 07 18.38 | -10 27 58.5 |        | 900 |
| P/2000 S1 | 2000 10 29.15491 | 00 06 37.96 | -10 12 08.2 | 17.3 T | 704 |
| P/2000 S1 | 2000 10 29.18477 | 00 06 37.23 | -10 11 50.9 | 17.0 T | 704 |
| P/2000 S1 | 2000 10 29.19878 | 00 06 36.93 | -10 11 42.7 | 17.5 T | 704 |
| P/2000 S1 | 2000 10 31.54637 | 00 05 46.00 | -09 48 32.7 |        | 322 |
| P/2000 S1 | 2000 10 31.59613 | 00 05 44.94 | -09 48 01.9 |        | 322 |
| P/2000 S1 | 2000 10 31.62289 | 00 05 44.30 | -09 47 44.9 |        | 322 |
| P/2000 S1 | 2000 11 03.15282 | 00 04 58.81 | -09 22 26.1 | 17.7 T | 704 |
| P/2000 S1 | 2000 11 03.16783 | 00 04 58.45 | -09 22 17.5 | 18.1 T | 704 |
| P/2000 S1 | 2000 11 03.18214 | 00 04 58.22 | -09 22 07.2 | 18.2 T | 704 |
| P/2000 S1 | 2000 11 03.19711 | 00 04 57.99 | -09 21 59.4 | 18.5 T | 704 |
| P/2000 S1 | 2000 11 03.21157 | 00 04 57.72 | -09 21 49.1 | 18.4 T | 704 |
| P/2000 S1 | 2000 11 03.51111 | 00 04 52.98 | -09 18 48.3 | 16.5 T | 360 |
| P/2000 S1 | 2000 11 03.51493 | 00 04 52.93 | -09 18 45.7 |        | 360 |
| P/2000 S1 | 2000 11 05.43162 | 00 04 25.79 | -08 59 06.4 |        | 349 |
| P/2000 S1 | 2000 11 05.43348 | 00 04 25.82 | -08 59 05.8 |        | 349 |
| P/2000 S1 | 2000 11 05.43564 | 00 04 25.67 | -08 59 04.0 |        | 349 |

**C/2000 S3**

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/2000 S3 | 2000 10 02.27558 | 00 49 15.39 | -20 42 53.4 | 17.7 T | 699 |
| C/2000 S3 | 2000 10 02.29483 | 00 49 14.38 | -20 42 46.6 |        | 699 |
| C/2000 S3 | 2000 10 02.31405 | 00 49 13.42 | -20 42 38.9 |        | 699 |
| C/2000 S3 | 2000 10 02.33337 | 00 49 12.45 | -20 42 32.3 |        | 699 |
| C/2000 S3 | 2000 11 03.54948 | 00 27 57.73 | -15 40 01.5 | 18.6 T | 360 |
| C/2000 S3 | 2000 11 03.55469 | 00 27 57.65 | -15 39 58.9 |        | 360 |
| C/2000 S3 | 2000 11 03.56215 | 00 27 57.49 | -15 39 53.3 |        | 360 |

**P/2000 S4**

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| P/2000 S4 | 2000 10 21.15723 | 21 45 12.20 | -08 41 49.6 | 21.0 T | 691 |
| P/2000 S4 | 2000 10 21.16306 | 21 45 12.65 | -08 41 53.4 | 21.1 T | 691 |

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| P/2000 S4 | 2000 10 21.16850 | 21 45 12.97 | -08 41 57.2 | 21.1 T | 691 |
| P/2000 S4 | 2000 10 29.19034 | 21 53 40.87 | -10 11 32.6 | 21.3 T | 691 |
| P/2000 S4 | 2000 10 29.20729 | 21 53 41.99 | -10 11 39.3 | 21.5 T | 691 |
| P/2000 S4 | 2000 10 29.21984 | 21 53 42.94 | -10 11 48.6 | 21.0 T | 691 |

**C/2000 SV<sub>74</sub> (LINEAR)**

|                         |                  |             |             |        |       |
|-------------------------|------------------|-------------|-------------|--------|-------|
| C/2000 SV <sub>74</sub> | 2000 09 05.39767 | 01 58 36.77 | +04 54 08.5 | 18.0 N | 1 704 |
| C/2000 SV <sub>74</sub> | 2000 09 05.41105 | 01 58 36.32 | +04 54 10.4 | 19.4 N | 1 704 |
| C/2000 SV <sub>74</sub> | 2000 09 05.42407 | 01 58 35.94 | +04 54 12.0 | 19.5 N | 1 704 |
| C/2000 SV <sub>74</sub> | 2000 09 05.43825 | 01 58 35.55 | +04 54 11.3 | 19.2 N | 1 704 |
| C/2000 SV <sub>74</sub> | 2000 09 05.45224 | 01 58 35.13 | +04 54 13.3 | 19.5 N | 1 704 |
| C/2000 SV <sub>74</sub> | 2000 09 24.34197 | 01 48 07.62 | +05 13 14.9 | 17.8 N | 704   |
| C/2000 SV <sub>74</sub> | 2000 09 24.35708 | 01 48 07.01 | +05 13 15.4 | 17.8 N | 704   |
| C/2000 SV <sub>74</sub> | 2000 09 24.37338 | 01 48 06.35 | +05 13 16.7 | 17.6 N | 704   |
| C/2000 SV <sub>74</sub> | 2000 09 24.38888 | 01 48 05.74 | +05 13 17.2 | 18.0 N | 704   |
| C/2000 SV <sub>74</sub> | 2000 09 24.40403 | 01 48 05.15 | +05 13 18.3 | 18.0 N | 704   |
| C/2000 SV <sub>74</sub> | 2000 09 26.33369 | 01 46 49.07 | +05 14 54.5 | 17.9 N | 704   |
| C/2000 SV <sub>74</sub> | 2000 09 26.34833 | 01 46 48.46 | +05 14 55.7 | 18.1 N | 704   |
| C/2000 SV <sub>74</sub> | 2000 09 26.36278 | 01 46 47.86 | +05 14 56.0 | 18.2 N | 704   |
| C/2000 SV <sub>74</sub> | 2000 09 26.37765 | 01 46 47.28 | +05 14 56.9 | 18.0 N | 704   |
| C/2000 SV <sub>74</sub> | 2000 09 26.39229 | 01 46 46.59 | +05 14 57.7 | 18.1 N | 704   |
| C/2000 SV <sub>74</sub> | 2000 10 02.34297 | 01 42 40.16 | +05 19 44.1 | 17.4 N | 704   |
| C/2000 SV <sub>74</sub> | 2000 10 02.35735 | 01 42 39.52 | +05 19 45.0 | 17.5 N | 704   |
| C/2000 SV <sub>74</sub> | 2000 10 02.37212 | 01 42 38.93 | +05 19 46.1 | 17.7 N | 704   |
| C/2000 SV <sub>74</sub> | 2000 10 02.38652 | 01 42 38.20 | +05 19 47.5 | 18.2 N | 704   |
| C/2000 SV <sub>74</sub> | 2000 10 02.40101 | 01 42 37.61 | +05 19 47.1 | 17.7 N | 704   |
| C/2000 SV <sub>74</sub> | 2000 10 06.30624 | 01 39 47.64 | +05 22 47.8 | 16.2 T | 699   |
| C/2000 SV <sub>74</sub> | 2000 10 06.34815 | 01 39 45.74 | +05 22 49.9 |        | 699   |
| C/2000 SV <sub>74</sub> | 2000 10 06.39008 | 01 39 43.88 | +05 22 51.4 |        | 699   |
| C/2000 SV <sub>74</sub> | 2000 10 06.43202 | 01 39 42.00 | +05 22 53.7 |        | 699   |
| C/2000 SV <sub>74</sub> | 2000 10 09.17250 | 01 37 39.56 | +05 25 03.8 | 17.1 T | 860   |
| C/2000 SV <sub>74</sub> | 2000 10 09.18679 | 01 37 38.70 | +05 25 05.7 | 17.1 T | 860   |
| C/2000 SV <sub>74</sub> | 2000 10 09.20113 | 01 37 38.06 | +05 25 04.6 | 16.8 T | 860   |
| C/2000 SV <sub>74</sub> | 2000 10 18.17209 | 01 30 43.84 | +05 32 16.6 | 16.0 T | 678   |
| C/2000 SV <sub>74</sub> | 2000 10 18.22374 | 01 30 41.61 | +05 32 19.8 |        | 719   |
| C/2000 SV <sub>74</sub> | 2000 10 18.22615 | 01 30 41.45 | +05 32 19.8 |        | 719   |
| C/2000 SV <sub>74</sub> | 2000 10 18.22758 | 01 30 41.25 | +05 32 19.0 | 16.6 T | 678   |
| C/2000 SV <sub>74</sub> | 2000 10 18.23206 | 01 30 41.20 | +05 32 20.3 |        | 719   |
| C/2000 SV <sub>74</sub> | 2000 10 18.24161 | 01 30 40.57 | +05 32 20.7 | 16.5 T | 678   |
| C/2000 SV <sub>74</sub> | 2000 10 18.25182 | 01 30 40.26 | +05 32 21.6 |        | 719   |
| C/2000 SV <sub>74</sub> | 2000 10 18.58456 | 01 30 24.61 | +05 32 37.6 | 16.6 T | 903   |
| C/2000 SV <sub>74</sub> | 2000 10 18.59530 | 01 30 24.06 | +05 32 38.8 |        | 903   |
| C/2000 SV <sub>74</sub> | 2000 10 18.59786 | 01 30 23.95 | +05 32 39.0 |        | 903   |
| C/2000 SV <sub>74</sub> | 2000 10 19.10792 | 01 30 00.08 | +05 33 04.7 |        | 739   |
| C/2000 SV <sub>74</sub> | 2000 10 19.11064 | 01 29 59.90 | +05 33 05.2 |        | 739   |
| C/2000 SV <sub>74</sub> | 2000 10 19.11406 | 01 29 59.73 | +05 33 05.0 | 17.6 T | 739   |
| C/2000 SV <sub>74</sub> | 2000 10 19.11638 | 01 29 59.69 | +05 33 06.3 |        | 739   |
| C/2000 SV <sub>74</sub> | 2000 10 19.12214 | 01 29 59.41 | +05 33 06.1 | 17.9 T | 739   |
| C/2000 SV <sub>74</sub> | 2000 10 19.19568 | 01 29 55.88 | +05 33 09.7 | 17.0 T | 649   |
| C/2000 SV <sub>74</sub> | 2000 10 19.19903 | 01 29 55.71 | +05 33 09.8 | 17.0 T | 649   |
| C/2000 SV <sub>74</sub> | 2000 10 19.20265 | 01 29 55.56 | +05 33 09.9 | 17.0 T | 649   |
| C/2000 SV <sub>74</sub> | 2000 10 19.20992 | 01 29 55.18 | +05 33 10.8 | 17.1 T | 649   |
| C/2000 SV <sub>74</sub> | 2000 10 19.21295 | 01 29 55.02 | +05 33 11.1 | 17.1 T | 704   |

|                         |                  |             |             |        |     |
|-------------------------|------------------|-------------|-------------|--------|-----|
| C/2000 SV <sub>74</sub> | 2000 10 19.21701 | 01 29 54.88 | +05 33 10.8 | 17.0 T | 649 |
| C/2000 SV <sub>74</sub> | 2000 10 19.22480 | 01 29 54.51 | +05 33 11.2 | 17.0 T | 649 |
| C/2000 SV <sub>74</sub> | 2000 10 19.22653 | 01 29 54.41 | +05 33 11.6 | 16.3 T | 704 |
| C/2000 SV <sub>74</sub> | 2000 10 19.24017 | 01 29 53.76 | +05 33 12.3 | 16.3 T | 704 |
| C/2000 SV <sub>74</sub> | 2000 10 19.25377 | 01 29 53.11 | +05 33 12.7 | 16.6 T | 704 |
| C/2000 SV <sub>74</sub> | 2000 10 19.76278 | 01 29 29.27 | +05 33 39.0 | 16.8 T | 046 |
| C/2000 SV <sub>74</sub> | 2000 10 19.76388 | 01 29 29.25 | +05 33 39.8 |        | 046 |
| C/2000 SV <sub>74</sub> | 2000 10 19.76693 | 01 29 29.06 | +05 33 39.4 |        | 046 |
| C/2000 SV <sub>74</sub> | 2000 10 19.76898 | 01 29 28.92 | +05 33 39.5 | 16.6 T | 046 |
| C/2000 SV <sub>74</sub> | 2000 10 19.76997 | 01 29 28.90 | +05 33 39.8 |        | 046 |
| C/2000 SV <sub>74</sub> | 2000 10 19.77106 | 01 29 28.82 | +05 33 39.6 |        | 046 |
| C/2000 SV <sub>74</sub> | 2000 10 19.83579 | 01 29 25.80 | +05 33 42.8 |        | 557 |
| C/2000 SV <sub>74</sub> | 2000 10 19.84039 | 01 29 25.59 | +05 33 43.0 |        | 557 |
| C/2000 SV <sub>74</sub> | 2000 10 21.61134 | 01 28 02.04 | +05 35 17.7 |        | 349 |
| C/2000 SV <sub>74</sub> | 2000 10 21.67574 | 01 27 59.04 | +05 35 20.9 |        | 349 |
| C/2000 SV <sub>74</sub> | 2000 10 21.67758 | 01 27 58.91 | +05 35 20.3 | 16.4 T | 349 |
| C/2000 SV <sub>74</sub> | 2000 10 22.52865 | 01 27 18.89 | +05 36 07.5 | 16.4 T | 392 |
| C/2000 SV <sub>74</sub> | 2000 10 22.53981 | 01 27 18.41 | +05 36 08.1 |        | 392 |
| C/2000 SV <sub>74</sub> | 2000 10 23.00614 | 01 26 56.32 | +05 36 32.9 | 16.8 T | 106 |
| C/2000 SV <sub>74</sub> | 2000 10 23.02545 | 01 26 55.40 | +05 36 34.2 | 16.5 T | 106 |
| C/2000 SV <sub>74</sub> | 2000 10 23.04477 | 01 26 54.47 | +05 36 34.5 | 16.6 T | 106 |
| C/2000 SV <sub>74</sub> | 2000 10 23.84541 | 01 26 16.83 | +05 37 19.8 | 17.4 T | 106 |
| C/2000 SV <sub>74</sub> | 2000 10 23.86269 | 01 26 15.96 | +05 37 21.0 | 17.7 T | 106 |
| C/2000 SV <sub>74</sub> | 2000 10 23.88056 | 01 26 15.16 | +05 37 21.6 | 17.2 T | 106 |
| C/2000 SV <sub>74</sub> | 2000 10 24.22221 | 01 25 59.06 | +05 37 40.7 |        | 670 |
| C/2000 SV <sub>74</sub> | 2000 10 24.27218 | 01 25 56.69 | +05 37 44.2 | 17.3 T | 704 |
| C/2000 SV <sub>74</sub> | 2000 10 24.28586 | 01 25 56.00 | +05 37 45.6 | 17.9 T | 704 |
| C/2000 SV <sub>74</sub> | 2000 10 24.31324 | 01 25 54.69 | +05 37 46.9 | 17.6 T | 704 |
| C/2000 SV <sub>74</sub> | 2000 10 24.32695 | 01 25 53.83 | +05 37 48.3 | 19.8 T | 704 |
| C/2000 SV <sub>74</sub> | 2000 10 24.39630 | 01 25 50.78 | +05 37 51.7 |        | 670 |
| C/2000 SV <sub>74</sub> | 2000 10 25.56973 | 01 24 55.61 | +05 39 00.8 |        | 322 |
| C/2000 SV <sub>74</sub> | 2000 10 25.60808 | 01 24 53.78 | +05 39 03.3 |        | 322 |
| C/2000 SV <sub>74</sub> | 2000 10 25.64427 | 01 24 52.05 | +05 39 05.1 |        | 322 |
| C/2000 SV <sub>74</sub> | 2000 10 27.55857 | 01 23 22.15 | +05 40 57.0 |        | 903 |
| C/2000 SV <sub>74</sub> | 2000 10 27.56874 | 01 23 21.64 | +05 40 57.8 | 16.4 T | 903 |
| C/2000 SV <sub>74</sub> | 2000 10 27.57376 | 01 23 21.36 | +05 40 57.9 |        | 903 |
| C/2000 SV <sub>74</sub> | 2000 10 27.58068 | 01 23 21.12 | +05 40 57.6 | 17.0 T | 365 |
| C/2000 SV <sub>74</sub> | 2000 10 27.60438 | 01 23 20.03 | +05 40 59.2 |        | 365 |
| C/2000 SV <sub>74</sub> | 2000 10 29.15760 | 01 22 07.27 | +05 42 37.6 | 16.9 T | 860 |
| C/2000 SV <sub>74</sub> | 2000 10 29.16766 | 01 22 06.74 | +05 42 38.8 | 17.3 T | 860 |
| C/2000 SV <sub>74</sub> | 2000 10 29.17985 | 01 22 06.23 | +05 42 38.1 | 17.4 T | 860 |
| C/2000 SV <sub>74</sub> | 2000 10 30.24319 | 01 21 16.79 | +05 43 46.9 | 18.1 T | 704 |
| C/2000 SV <sub>74</sub> | 2000 10 30.25846 | 01 21 16.08 | +05 43 48.2 | 18.2 T | 704 |
| C/2000 SV <sub>74</sub> | 2000 10 30.27332 | 01 21 15.36 | +05 43 48.8 | 18.5 T | 704 |
| C/2000 SV <sub>74</sub> | 2000 10 30.28833 | 01 21 14.66 | +05 43 50.0 | 18.6 T | 704 |
| C/2000 SV <sub>74</sub> | 2000 10 30.30471 | 01 21 13.86 | +05 43 51.0 | 18.6 T | 704 |
| C/2000 SV <sub>74</sub> | 2000 10 30.61661 | 01 20 59.43 | +05 44 11.5 |        | 365 |
| C/2000 SV <sub>74</sub> | 2000 10 30.63760 | 01 20 58.46 | +05 44 12.6 |        | 365 |
| C/2000 SV <sub>74</sub> | 2000 11 03.62118 | 01 17 55.17 | +05 48 48.1 | 16.7 N | 360 |
| C/2000 SV <sub>74</sub> | 2000 11 03.62500 | 01 17 54.99 | +05 48 48.3 |        | 360 |
| C/2000 SV <sub>74</sub> | 2000 11 04.63757 | 01 17 09.08 | +05 50 01.8 | 16.3 T | 349 |
| C/2000 SV <sub>74</sub> | 2000 11 04.64249 | 01 17 08.78 | +05 50 02.3 |        | 349 |
| C/2000 SV <sub>74</sub> | 2000 11 04.64424 | 01 17 08.77 | +05 50 03.1 |        | 349 |

|                         |                  |             |             |        |     |
|-------------------------|------------------|-------------|-------------|--------|-----|
| C/2000 SV <sub>74</sub> | 2000 11 06.63363 | 01 15 39.35 | +05 52 37.0 | 16.4 T | 402 |
| C/2000 SV <sub>74</sub> | 2000 11 06.63490 | 01 15 39.35 | +05 52 36.6 |        | 402 |
| C/2000 SV <sub>74</sub> | 2000 11 06.63743 | 01 15 39.26 | +05 52 37.4 |        | 402 |

## C/2000 T1 (SOHO)

|                          |                  |             |             |  |     |
|--------------------------|------------------|-------------|-------------|--|-----|
| C/2000 T1                | 2000 10 10.34590 | 12 39 28.2  | -08 27 44   |  | 249 |
| Geocentric position (AU) | -0.00915750      | -0.00531841 | -0.00307049 |  |     |
| C/2000 T1                | 2000 10 10.36256 | 12 39 49.3  | -08 27 04   |  | 249 |
| Geocentric position (AU) | -0.00915694      | -0.00531919 | -0.00307116 |  |     |
| C/2000 T1                | 2000 10 10.38756 | 12 40 20.9  | -08 26 07   |  | 249 |
| Geocentric position (AU) | -0.00915611      | -0.00532037 | -0.00307216 |  |     |
| C/2000 T1                | 2000 10 10.40424 | 12 40 41.6  | -08 25 37   |  | 249 |
| Geocentric position (AU) | -0.00915555      | -0.00532115 | -0.00307283 |  |     |
| C/2000 T1                | 2000 10 10.44594 | 12 41 35.3  | -08 23 46   |  | 249 |
| Geocentric position (AU) | -0.00915416      | -0.00532311 | -0.00307449 |  |     |
| C/2000 T1                | 2000 10 10.47090 | 12 42 06.3  | -08 22 51   |  | 249 |
| Geocentric position (AU) | -0.00915333      | -0.00532428 | -0.00307549 |  |     |
| C/2000 T1                | 2000 10 10.48756 | 12 42 28.4  | -08 22 05   |  | 249 |
| Geocentric position (AU) | -0.00915278      | -0.00532506 | -0.00307615 |  |     |
| C/2000 T1                | 2000 10 10.51256 | 12 43 01.1  | -08 20 55   |  | 249 |
| Geocentric position (AU) | -0.00915195      | -0.00532623 | -0.00307715 |  |     |
| C/2000 T1                | 2000 10 10.52924 | 12 43 22.7  | -08 20 15   |  | 249 |
| Geocentric position (AU) | -0.00915139      | -0.00532700 | -0.00307781 |  |     |
| C/2000 T1                | 2000 10 10.57090 | 12 44 17.3  | -08 18 22   |  | 249 |
| Geocentric position (AU) | -0.00915001      | -0.00532894 | -0.00307947 |  |     |
| C/2000 T1                | 2000 10 10.59590 | 12 44 50.3  | -08 17 15   |  | 249 |
| Geocentric position (AU) | -0.00914919      | -0.00533011 | -0.00308046 |  |     |
| C/2000 T1                | 2000 10 10.61256 | 12 45 12.6  | -08 16 30   |  | 249 |
| Geocentric position (AU) | -0.00914864      | -0.00533088 | -0.00308112 |  |     |
| C/2000 T1                | 2000 10 10.63757 | 12 45 45.8  | -08 15 22   |  | 249 |
| Geocentric position (AU) | -0.00914781      | -0.00533204 | -0.00308211 |  |     |
| C/2000 T1                | 2000 10 10.65423 | 12 46 08.8  | -08 14 36   |  | 249 |
| Geocentric position (AU) | -0.00914726      | -0.00533281 | -0.00308276 |  |     |
| C/2000 T1                | 2000 10 10.67923 | 12 46 42.3  | -08 13 20   |  | 249 |
| Geocentric position (AU) | -0.00914644      | -0.00533396 | -0.00308375 |  |     |
| C/2000 T1                | 2000 10 10.69590 | 12 47 04.9  | -08 12 21   |  | 249 |
| Geocentric position (AU) | -0.00914589      | -0.00533473 | -0.00308441 |  |     |
| C/2000 T1                | 2000 10 10.72090 | 12 47 39.1  | -08 11 14   |  | 249 |
| Geocentric position (AU) | -0.00914507      | -0.00533588 | -0.00308539 |  |     |
| C/2000 T1                | 2000 10 10.73758 | 12 48 02.3  | -08 10 24   |  | 249 |
| Geocentric position (AU) | -0.00914452      | -0.00533666 | -0.00308605 |  |     |
| C/2000 T1                | 2000 10 10.76257 | 12 48 37.2  | -08 08 59   |  | 249 |
| Geocentric position (AU) | -0.00914371      | -0.00533780 | -0.00308703 |  |     |
| C/2000 T1                | 2000 10 10.77923 | 12 49 01.1  | -08 08 18   |  | 249 |
| Geocentric position (AU) | -0.00914316      | -0.00533857 | -0.00308768 |  |     |
| C/2000 T1                | 2000 10 10.82090 | 12 50 00.0  | -08 05 55   |  | 249 |
| Geocentric position (AU) | -0.00914180      | -0.00534048 | -0.00308932 |  |     |
| C/2000 T1                | 2000 10 10.84741 | 12 50 38.5  | -08 04 32   |  | 249 |
| Geocentric position (AU) | -0.00914093      | -0.00534169 | -0.00309035 |  |     |
| C/2000 T1                | 2000 10 10.86257 | 12 50 59.4  | -08 03 35   |  | 249 |
| Geocentric position (AU) | -0.00914044      | -0.00534239 | -0.00309094 |  |     |
| C/2000 T1                | 2000 10 10.88757 | 12 51 36.9  | -08 02 05   |  | 249 |
| Geocentric position (AU) | -0.00913963      | -0.00534352 | -0.00309192 |  |     |

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| C/2000 T1                | 2000 10 10.90423 | 12 52 01.4  | -08 01 16   | 249 |
| Geocentric position (AU) | -0.00913908      | -0.00534429 | -0.00309257 |     |
| C/2000 T1                | 2000 10 10.92923 | 12 52 38.6  | -07 59 54   | 249 |
| Geocentric position (AU) | -0.00913828      | -0.00534542 | -0.00309354 |     |
| C/2000 T1                | 2000 10 10.97098 | 12 53 41.7  | -07 57 04   | 249 |
| Geocentric position (AU) | -0.00913692      | -0.00534732 | -0.00309516 |     |
| C/2000 T1                | 2000 10 10.98756 | 12 54 06.1  | -07 55 40   | 249 |
| Geocentric position (AU) | -0.00913638      | -0.00534808 | -0.00309581 |     |
| C/2000 T1                | 2000 10 11.01256 | 12 54 44.3  | -07 54 25   | 249 |
| Geocentric position (AU) | -0.00913558      | -0.00534920 | -0.00309678 |     |
| C/2000 T1                | 2000 10 11.02923 | 12 55 11.2  | -07 53 03   | 249 |
| Geocentric position (AU) | -0.00913504      | -0.00534996 | -0.00309742 |     |
| C/2000 T1                | 2000 10 11.07090 | 12 56 17.4  | -07 50 05   | 249 |
| Geocentric position (AU) | -0.00913369      | -0.00535184 | -0.00309903 |     |
| C/2000 T1                | 2000 10 11.09590 | 12 56 57.3  | -07 48 19   | 249 |
| Geocentric position (AU) | -0.00913289      | -0.00535297 | -0.00310000 |     |
| C/2000 T1                | 2000 10 11.11257 | 12 57 25.1  | -07 47 00   | 249 |
| Geocentric position (AU) | -0.00913235      | -0.00535372 | -0.00310064 |     |
| C/2000 T1                | 2000 10 11.13757 | 12 58 08.7  | -07 44 51   | 249 |
| Geocentric position (AU) | -0.00913156      | -0.00535484 | -0.00310160 |     |
| C/2000 T1                | 2000 10 11.15423 | 12 58 36.2  | -07 43 47   | 249 |
| Geocentric position (AU) | -0.00913102      | -0.00535560 | -0.00310225 |     |
| C/2000 T1                | 2000 10 11.17924 | 12 59 17.4  | -07 41 37   | 249 |
| Geocentric position (AU) | -0.00913022      | -0.00535671 | -0.00310320 |     |
| C/2000 T1                | 2000 10 11.19592 | 12 59 48.0  | -07 40 01   | 249 |
| Geocentric position (AU) | -0.00912968      | -0.00535746 | -0.00310385 |     |
| C/2000 T1                | 2000 10 11.21257 | 13 00 17.0  | -07 38 19   | 249 |
| Geocentric position (AU) | -0.00912915      | -0.00535821 | -0.00310449 |     |
| C/2000 T1                | 2000 10 11.22090 | 13 00 30.9  | -07 37 43   | 249 |
| Geocentric position (AU) | -0.00912889      | -0.00535858 | -0.00310480 |     |
| C/2000 T1                | 2000 10 11.23756 | 13 01 02.8  | -07 36 18   | 249 |
| Geocentric position (AU) | -0.00912836      | -0.00535933 | -0.00310544 |     |
| C/2000 T1                | 2000 10 11.24313 | 13 01 11.9  | -07 35 19   | 249 |
| Geocentric position (AU) | -0.00912818      | -0.00535958 | -0.00310566 |     |
| C/2000 T1                | 2000 10 11.31066 | 13 03 19.2  | -07 27 45   | 249 |
| Geocentric position (AU) | -0.00912603      | -0.00536259 | -0.00310824 |     |

**C/2000 T3 (SOHO)**

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| C/2000 T3                | 2000 10 11.25423 | 12 58 30.0  | -07 45 15   | 249 |
| Geocentric position (AU) | -0.00912782      | -0.00536007 | -0.00310608 |     |
| C/2000 T3                | 2000 10 11.26812 | 12 58 51.4  | -07 44 14   | 249 |
| Geocentric position (AU) | -0.00912738      | -0.00536069 | -0.00310661 |     |
| C/2000 T3                | 2000 10 11.31066 | 12 59 58.9  | -07 41 09   | 249 |
| Geocentric position (AU) | -0.00912603      | -0.00536259 | -0.00310824 |     |
| C/2000 T3                | 2000 10 11.32645 | 13 00 27.9  | -07 39 49   | 249 |
| Geocentric position (AU) | -0.00912553      | -0.00536329 | -0.00310884 |     |
| C/2000 T3                | 2000 10 11.33757 | 13 00 45.5  | -07 39 12   | 249 |
| Geocentric position (AU) | -0.00912517      | -0.00536378 | -0.00310926 |     |
| C/2000 T3                | 2000 10 11.35145 | 13 01 09.7  | -07 38 00   | 249 |
| Geocentric position (AU) | -0.00912473      | -0.00536440 | -0.00310979 |     |
| C/2000 T3                | 2000 10 11.36812 | 13 01 38.2  | -07 36 34   | 249 |
| Geocentric position (AU) | -0.00912421      | -0.00536514 | -0.00311043 |     |

**C/2000 T4 (SOHO)**

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| C/2000 T4                | 2000 10 12.07090 | 12 58 21.7  | -08 14 40   | 249 |
| Geocentric position (AU) | -0.00910243      | -0.00539570 | -0.00313666 |     |
| C/2000 T4                | 2000 10 12.09590 | 12 59 00.1  | -08 13 23   | 249 |
| Geocentric position (AU) | -0.00910168      | -0.00539677 | -0.00313757 |     |
| C/2000 T4                | 2000 10 12.11256 | 12 59 25.9  | -08 12 18   | 249 |
| Geocentric position (AU) | -0.00910117      | -0.00539748 | -0.00313818 |     |
| C/2000 T4                | 2000 10 12.13758 | 13 00 06.3  | -08 10 34   | 249 |
| Geocentric position (AU) | -0.00910042      | -0.00539854 | -0.00313910 |     |
| C/2000 T4                | 2000 10 12.15423 | 13 00 30.0  | -08 09 24   | 249 |
| Geocentric position (AU) | -0.00909991      | -0.00539925 | -0.00313970 |     |
| C/2000 T4                | 2000 10 12.17925 | 13 01 11.8  | -08 07 36   | 249 |
| Geocentric position (AU) | -0.00909916      | -0.00540031 | -0.00314062 |     |
| C/2000 T4                | 2000 10 12.19590 | 13 01 38.8  | -08 07 09   | 249 |
| Geocentric position (AU) | -0.00909866      | -0.00540102 | -0.00314122 |     |
| C/2000 T4                | 2000 10 12.20145 | 13 01 50.2  | -08 05 59   | 249 |
| Geocentric position (AU) | -0.00909849      | -0.00540126 | -0.00314143 |     |
| C/2000 T4                | 2000 10 12.21258 | 13 02 08.4  | -08 05 09   | 249 |
| Geocentric position (AU) | -0.00909816      | -0.00540173 | -0.00314183 |     |
| C/2000 T4                | 2000 10 12.22091 | 13 02 19.4  | -08 04 37   | 249 |
| Geocentric position (AU) | -0.00909791      | -0.00540208 | -0.00314213 |     |
| C/2000 T4                | 2000 10 12.22645 | 13 02 30.6  | -08 04 14   | 249 |
| Geocentric position (AU) | -0.00909774      | -0.00540232 | -0.00314234 |     |
| C/2000 T4                | 2000 10 12.23756 | 13 02 47.5  | -08 03 24   | 249 |
| Geocentric position (AU) | -0.00909741      | -0.00540278 | -0.00314274 |     |
| C/2000 T4                | 2000 10 12.24312 | 13 02 57.9  | -08 03 00   | 249 |
| Geocentric position (AU) | -0.00909724      | -0.00540302 | -0.00314294 |     |
| C/2000 T4                | 2000 10 12.25424 | 13 03 16.2  | -08 02 06   | 249 |
| Geocentric position (AU) | -0.00909691      | -0.00540349 | -0.00314335 |     |
| C/2000 T4                | 2000 10 12.26813 | 13 03 39.5  | -08 01 01   | 249 |
| Geocentric position (AU) | -0.00909649      | -0.00540408 | -0.00314385 |     |
| C/2000 T4                | 2000 10 12.27923 | 13 03 57.8  | -08 00 30   | 249 |
| Geocentric position (AU) | -0.00909616      | -0.00540455 | -0.00314425 |     |
| C/2000 T4                | 2000 10 12.28478 | 13 04 08.4  | -07 59 45   | 249 |
| Geocentric position (AU) | -0.00909599      | -0.00540478 | -0.00314445 |     |
| C/2000 T4                | 2000 10 12.31070 | 13 04 53.5  | -07 57 38   | 249 |
| Geocentric position (AU) | -0.00909522      | -0.00540588 | -0.00314539 |     |
| C/2000 T4                | 2000 10 12.32645 | 13 05 22.5  | -07 56 14   | 249 |
| Geocentric position (AU) | -0.00909475      | -0.00540654 | -0.00314596 |     |
| C/2000 T4                | 2000 10 12.33757 | 13 05 41.7  | -07 55 15   | 249 |
| Geocentric position (AU) | -0.00909442      | -0.00540701 | -0.00314637 |     |
| C/2000 T4                | 2000 10 12.35145 | 13 06 06.8  | -07 54 08   | 249 |
| Geocentric position (AU) | -0.00909400      | -0.00540759 | -0.00314687 |     |

**C/2000 U1 (SOHO)**

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| C/2000 U1                | 2000 10 21.39314 | 13 37 00.4  | -11 40 10   | 249 |
| Geocentric position (AU) | -0.00887978      | -0.00575215 | -0.00341923 |     |
| C/2000 U1                | 2000 10 21.43483 | 13 38 04.1  | -11 36 33   | 249 |
| Geocentric position (AU) | -0.00887885      | -0.00575372 | -0.00342030 |     |
| C/2000 U1                | 2000 10 21.45145 | 13 38 30.5  | -11 34 53   | 249 |
| Geocentric position (AU) | -0.00887848      | -0.00575434 | -0.00342073 |     |
| C/2000 U1                | 2000 10 21.46256 | 13 38 48.2  | -11 34 07   | 249 |
| Geocentric position (AU) | -0.00887823      | -0.00575476 | -0.00342101 |     |

C/2000 U1      2000 10 21.47645    13 39 12.1    -11 32 06      249  
 Geocentric position (AU)    -0.00887793    -0.00575528    -0.00342137

**C/2000 U2 (SOHO)**

C/2000 U2      2000 10 22.27923    13 28 33.6    -13 12 56      249  
 Geocentric position (AU)    -0.00885972    -0.00578540    -0.00344173  
 C/2000 U2      2000 10 22.32090    13 29 24.4    -13 10 37      249  
 Geocentric position (AU)    -0.00885876    -0.00578696    -0.00344278  
 C/2000 U2      2000 10 22.34590    13 29 55.2    -13 09 17      249  
 Geocentric position (AU)    -0.00885818    -0.00578790    -0.00344340  
 C/2000 U2      2000 10 22.36256    13 30 16.5    -13 08 13      249  
 Geocentric position (AU)    -0.00885779    -0.00578852    -0.00344382  
 C/2000 U2      2000 10 22.38757    13 30 47.2    -13 06 40      249  
 Geocentric position (AU)    -0.00885721    -0.00578946    -0.00344444  
 C/2000 U2      2000 10 22.40425    13 31 07.1    -13 05 38      249  
 Geocentric position (AU)    -0.00885682    -0.00579008    -0.00344486  
 C/2000 U2      2000 10 22.44595    13 32 00.3    -13 03 08      249  
 Geocentric position (AU)    -0.00885585    -0.00579165    -0.00344589  
 C/2000 U2      2000 10 22.47090    13 32 31.7    -13 01 33      249  
 Geocentric position (AU)    -0.00885527    -0.00579258    -0.00344651  
 C/2000 U2      2000 10 22.48756    13 32 53.0    -13 00 33      249  
 Geocentric position (AU)    -0.00885488    -0.00579320    -0.00344693  
 C/2000 U2      2000 10 22.51257    13 33 24.4    -12 59 00      249  
 Geocentric position (AU)    -0.00885430    -0.00579414    -0.00344755  
 C/2000 U2      2000 10 22.52923    13 33 46.0    -12 58 01      249  
 Geocentric position (AU)    -0.00885391    -0.00579476    -0.00344796  
 C/2000 U2      2000 10 22.57091    13 34 38.7    -12 55 09      249  
 Geocentric position (AU)    -0.00885293    -0.00579632    -0.00344900  
 C/2000 U2      2000 10 22.59590    13 35 11.1    -12 53 26      249  
 Geocentric position (AU)    -0.00885234    -0.00579726    -0.00344961  
 C/2000 U2      2000 10 22.63756    13 36 05.9    -12 50 39      249  
 Geocentric position (AU)    -0.00885136    -0.00579882    -0.00345065  
 C/2000 U2      2000 10 22.65423    13 36 27.1    -12 49 35      249  
 Geocentric position (AU)    -0.00885097    -0.00579944    -0.00345106  
 C/2000 U2      2000 10 22.67923    13 36 59.4    -12 47 45      249  
 Geocentric position (AU)    -0.00885038    -0.00580038    -0.00345167  
 C/2000 U2      2000 10 22.69590    13 37 22.7    -12 46 26      249  
 Geocentric position (AU)    -0.00884999    -0.00580100    -0.00345208  
 C/2000 U2      2000 10 22.72090    13 37 55.6    -12 44 43      249  
 Geocentric position (AU)    -0.00884940    -0.00580193    -0.00345270  
 C/2000 U2      2000 10 22.73756    13 38 17.8    -12 43 16      249  
 Geocentric position (AU)    -0.00884901    -0.00580256    -0.00345311  
 C/2000 U2      2000 10 22.76257    13 38 50.1    -12 41 34      249  
 Geocentric position (AU)    -0.00884841    -0.00580349    -0.00345373  
 C/2000 U2      2000 10 22.77923    13 39 13.0    -12 40 12      249  
 Geocentric position (AU)    -0.00884802    -0.00580411    -0.00345414  
 C/2000 U2      2000 10 22.82090    13 40 10.9    -12 36 51      249  
 Geocentric position (AU)    -0.00884703    -0.00580567    -0.00345516  
 C/2000 U2      2000 10 22.84590    13 40 44.2    -12 34 40      249  
 Geocentric position (AU)    -0.00884644    -0.00580660    -0.00345577  
 C/2000 U2      2000 10 22.86256    13 41 07.3    -12 33 42      249  
 Geocentric position (AU)    -0.00884604    -0.00580723    -0.00345618

C/2000 U2      2000 10 22.88757    13 41 42.1    -12 31 36      249  
 Geocentric position (AU)    -0.00884544    -0.00580816    -0.00345679  
 C/2000 U2      2000 10 22.90424    13 42 04.8    -12 30 02      249  
 Geocentric position (AU)    -0.00884505    -0.00580878    -0.00345720  
 C/2000 U2      2000 10 22.92923    13 42 39.8    -12 27 54      249  
 Geocentric position (AU)    -0.00884445    -0.00580972    -0.00345781  
 C/2000 U2      2000 10 22.97099    13 43 38.6    -12 24 01      249  
 Geocentric position (AU)    -0.00884345    -0.00581127    -0.00345883  
 C/2000 U2      2000 10 22.98757    13 44 02.9    -12 22 56      249  
 Geocentric position (AU)    -0.00884305    -0.00581189    -0.00345924  
 C/2000 U2      2000 10 22.99313    13 44 10.8    -12 22 04      249  
 Geocentric position (AU)    -0.00884292    -0.00581210    -0.00345937  
 C/2000 U2      2000 10 23.00423    13 44 27.1    -12 21 03      249  
 Geocentric position (AU)    -0.00884265    -0.00581251    -0.00345964  
 C/2000 U2      2000 10 23.01257    13 44 37.4    -12 19 57      249  
 Geocentric position (AU)    -0.00884245    -0.00581282    -0.00345985  
 C/2000 U2      2000 10 23.01812    13 44 47.3    -12 19 42      249  
 Geocentric position (AU)    -0.00884232    -0.00581303    -0.00345998  
 C/2000 U2      2000 10 23.02923    13 45 03.9    -12 18 28      249  
 Geocentric position (AU)    -0.00884205    -0.00581345    -0.00346025  
 C/2000 U2      2000 10 23.03479    13 45 11.7    -12 18 02      249  
 Geocentric position (AU)    -0.00884192    -0.00581365    -0.00346039  
 C/2000 U2      2000 10 23.06069    13 45 49.8    -12 15 25      249  
 Geocentric position (AU)    -0.00884130    -0.00581462    -0.00346102  
 C/2000 U2      2000 10 23.07647    13 46 13.5    -12 13 50      249  
 Geocentric position (AU)    -0.00884092    -0.00581521    -0.00346140  
 C/2000 U2      2000 10 23.08756    13 46 30.1    -12 12 38      249  
 Geocentric position (AU)    -0.00884065    -0.00581562    -0.00346167  
 C/2000 U2      2000 10 23.10145    13 46 50.9    -12 11 09      249  
 Geocentric position (AU)    -0.00884031    -0.00581614    -0.00346201  
 C/2000 U2      2000 10 23.11812    13 47 16.2    -12 09 21      249  
 Geocentric position (AU)    -0.00883991    -0.00581676    -0.00346241  
 C/2000 U2      2000 10 23.12925    13 47 33.2    -12 08 08      249  
 Geocentric position (AU)    -0.00883964    -0.00581717    -0.00346268  
 C/2000 U2      2000 10 23.14312    13 47 53.7    -12 06 31      249  
 Geocentric position (AU)    -0.00883931    -0.00581769    -0.00346302  
 C/2000 U2      2000 10 23.15979    13 48 19.9    -12 04 31      249  
 Geocentric position (AU)    -0.00883890    -0.00581831    -0.00346342  
 C/2000 U2      2000 10 23.17090    13 48 36.8    -12 03 12      249  
 Geocentric position (AU)    -0.00883863    -0.00581873    -0.00346369  
 C/2000 U2      2000 10 23.18479    13 48 57.8    -12 01 39      249  
 Geocentric position (AU)    -0.00883830    -0.00581924    -0.00346403

**C/2000 U3 (SOHO)**

C/2000 U3      2000 10 24.02923    13 41 24.4    -14 06 00      249  
 Geocentric position (AU)    -0.00881734    -0.00585052    -0.00348411  
 C/2000 U3      2000 10 24.07090    13 42 16.4    -14 02 07      249  
 Geocentric position (AU)    -0.00881628    -0.00585205    -0.00348509  
 C/2000 U3      2000 10 24.09590    13 42 47.8    -13 59 46      249  
 Geocentric position (AU)    -0.00881564    -0.00585297    -0.00348567  
 C/2000 U3      2000 10 24.11256    13 43 09.2    -13 58 27      249  
 Geocentric position (AU)    -0.00881522    -0.00585358    -0.00348606

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| C/2000 U3                | 2000 10 24.13756 | 13 43 41.3  | -13 56 05   | 249 |
| Geocentric position (AU) | -0.00881458      | -0.00585450 | -0.00348664 |     |
| C/2000 U3                | 2000 10 24.15423 | 13 44 04.2  | -13 54 25   | 249 |
| Geocentric position (AU) | -0.00881415      | -0.00585512 | -0.00348703 |     |
| C/2000 U3                | 2000 10 24.17923 | 13 44 36.4  | -13 52 05   | 249 |
| Geocentric position (AU) | -0.00881351      | -0.00585603 | -0.00348761 |     |
| C/2000 U3                | 2000 10 24.19592 | 13 44 58.8  | -13 50 12   | 249 |
| Geocentric position (AU) | -0.00881308      | -0.00585665 | -0.00348799 |     |
| C/2000 U3                | 2000 10 24.22090 | 13 45 32.8  | -13 47 37   | 249 |
| Geocentric position (AU) | -0.00881244      | -0.00585756 | -0.00348857 |     |
| C/2000 U3                | 2000 10 24.23756 | 13 45 56.9  | -13 45 45   | 249 |
| Geocentric position (AU) | -0.00881201      | -0.00585817 | -0.00348896 |     |
| C/2000 U3                | 2000 10 24.26256 | 13 46 27.1  | -13 43 17   | 249 |
| Geocentric position (AU) | -0.00881137      | -0.00585909 | -0.00348954 |     |
| C/2000 U3                | 2000 10 24.27925 | 13 46 51.8  | -13 41 35   | 249 |
| Geocentric position (AU) | -0.00881094      | -0.00585970 | -0.00348992 |     |
| C/2000 U3                | 2000 10 24.32090 | 13 47 46.1  | -13 36 33   | 249 |
| Geocentric position (AU) | -0.00880986      | -0.00586123 | -0.00349088 |     |
| C/2000 U3                | 2000 10 24.34591 | 13 48 20.9  | -13 33 46   | 249 |
| Geocentric position (AU) | -0.00880921      | -0.00586214 | -0.00349146 |     |
| C/2000 U3                | 2000 10 24.36256 | 13 48 43.6  | -13 31 56   | 249 |
| Geocentric position (AU) | -0.00880878      | -0.00586275 | -0.00349184 |     |
| C/2000 U3                | 2000 10 24.38756 | 13 49 18.8  | -13 29 04   | 249 |
| Geocentric position (AU) | -0.00880813      | -0.00586367 | -0.00349242 |     |
| C/2000 U3                | 2000 10 24.40423 | 13 49 42.3  | -13 26 33   | 249 |
| Geocentric position (AU) | -0.00880770      | -0.00586428 | -0.00349280 |     |
| C/2000 U3                | 2000 10 24.44593 | 13 50 41.9  | -13 21 14   | 249 |
| Geocentric position (AU) | -0.00880662      | -0.00586580 | -0.00349376 |     |
| C/2000 U3                | 2000 10 24.47091 | 13 51 16.2  | -13 18 11   | 249 |
| Geocentric position (AU) | -0.00880597      | -0.00586672 | -0.00349433 |     |
| C/2000 U3                | 2000 10 24.48756 | 13 51 42.0  | -13 15 50   | 249 |
| Geocentric position (AU) | -0.00880553      | -0.00586732 | -0.00349471 |     |
| C/2000 U3                | 2000 10 24.51812 | 13 52 27.5  | -13 11 00   | 249 |
| Geocentric position (AU) | -0.00880473      | -0.00586844 | -0.00349541 |     |
| C/2000 U3                | 2000 10 24.53479 | 13 52 50.4  | -13 09 02   | 249 |
| Geocentric position (AU) | -0.00880430      | -0.00586905 | -0.00349579 |     |
| C/2000 U3                | 2000 10 24.56070 | 13 53 29.7  | -13 04 42   | 249 |
| Geocentric position (AU) | -0.00880362      | -0.00586999 | -0.00349638 |     |
| C/2000 U3                | 2000 10 24.57645 | 13 53 51.3  | -13 02 40   | 249 |
| Geocentric position (AU) | -0.00880320      | -0.00587057 | -0.00349674 |     |
| C/2000 U3                | 2000 10 24.58757 | 13 54 09.9  | -13 00 51   | 249 |
| Geocentric position (AU) | -0.00880291      | -0.00587097 | -0.00349699 |     |
| C/2000 U3                | 2000 10 24.60145 | 13 54 30.1  | -12 58 38   | 249 |
| Geocentric position (AU) | -0.00880255      | -0.00587148 | -0.00349731 |     |
| C/2000 U3                | 2000 10 24.61812 | 13 54 55.2  | -12 55 25   | 249 |
| Geocentric position (AU) | -0.00880211      | -0.00587208 | -0.00349769 |     |

**C/2000 U4 (SOHO)**

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| C/2000 U4                | 2000 10 25.07645 | 13 52 34.2  | -13 08 43   | 249 |
| Geocentric position (AU) | -0.00878989      | -0.00588868 | -0.00350799 |     |
| C/2000 U4                | 2000 10 25.08756 | 13 52 51.4  | -13 07 28   | 249 |
| Geocentric position (AU) | -0.00878959      | -0.00588909 | -0.00350824 |     |

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| C/2000 U4                | 2000 10 25.10145 | 13 53 10.9  | -13 06 05   | 249 |
| Geocentric position (AU) | -0.00878922      | -0.00588959 | -0.00350854 |     |
| C/2000 U4                | 2000 10 25.11812 | 13 53 36.0  | -13 04 23   | 249 |
| Geocentric position (AU) | -0.00878877      | -0.00589019 | -0.00350891 |     |
| C/2000 U4                | 2000 10 25.12923 | 13 53 52.0  | -13 03 10   | 249 |
| Geocentric position (AU) | -0.00878847      | -0.00589058 | -0.00350916 |     |
| C/2000 U4                | 2000 10 25.14312 | 13 54 11.3  | -13 01 42   | 249 |
| Geocentric position (AU) | -0.00878809      | -0.00589108 | -0.00350947 |     |
| C/2000 U4                | 2000 10 25.15979 | 13 54 36.6  | -12 59 51   | 249 |
| Geocentric position (AU) | -0.00878764      | -0.00589168 | -0.00350984 |     |
| C/2000 U4                | 2000 10 25.17090 | 13 54 53.0  | -12 58 41   | 249 |
| Geocentric position (AU) | -0.00878734      | -0.00589208 | -0.00351008 |     |
| C/2000 U4                | 2000 10 25.18479 | 13 55 13.8  | -12 57 00   | 249 |
| Geocentric position (AU) | -0.00878696      | -0.00589258 | -0.00351039 |     |
| C/2000 U4                | 2000 10 25.20145 | 13 55 37.3  | -12 55 08   | 249 |
| Geocentric position (AU) | -0.00878651      | -0.00589318 | -0.00351076 |     |
| C/2000 U4                | 2000 10 25.21258 | 13 55 53.9  | -12 53 49   | 249 |
| Geocentric position (AU) | -0.00878620      | -0.00589358 | -0.00351100 |     |
| C/2000 U4                | 2000 10 25.22647 | 13 56 12.6  | -12 51 55   | 249 |
| Geocentric position (AU) | -0.00878583      | -0.00589408 | -0.00351131 |     |

**C/2000 U5 (LINEAR)**

|           |                  |             |             |        |       |
|-----------|------------------|-------------|-------------|--------|-------|
| C/2000 U5 | 2000 10 29.38178 | 05 06 33.49 | +02 04 56.6 | 17.1 N | 704   |
| C/2000 U5 | 2000 10 29.39662 | 05 06 32.46 | +02 05 02.1 | 16.9 N | 704   |
| C/2000 U5 | 2000 10 29.41135 | 05 06 31.44 | +02 05 07.8 | 17.0 N | 704   |
| C/2000 U5 | 2000 10 29.42609 | 05 06 30.47 | +02 05 13.5 | 17.1 N | 704   |
| C/2000 U5 | 2000 10 29.44081 | 05 06 29.44 | +02 05 19.9 | 17.0 N | 704   |
| C/2000 U5 | 2000 10 30.01934 | 05 05 50.16 | +02 08 58.1 | 16.6 T | 046   |
| C/2000 U5 | 2000 10 30.02079 | 05 05 50.03 | +02 08 57.8 |        | 046   |
| C/2000 U5 | 2000 10 30.02182 | 05 05 49.99 | +02 08 58.8 |        | 046   |
| C/2000 U5 | 2000 10 30.02289 | 05 05 49.94 | +02 08 59.3 |        | 046   |
| C/2000 U5 | 2000 10 30.02398 | 05 05 49.83 | +02 08 59.7 | 16.5 T | 046   |
| C/2000 U5 | 2000 10 30.22119 | 05 05 36.44 | +02 10 14.9 | 17.3 N | 719   |
| C/2000 U5 | 2000 10 30.23944 | 05 05 35.17 | +02 10 21.7 |        | 719   |
| C/2000 U5 | 2000 10 30.25988 | 05 05 33.76 | +02 10 29.6 | 17.1 N | 719   |
| C/2000 U5 | 2000 10 30.26738 | 05 05 33.24 | +02 10 32.5 |        | 719   |
| C/2000 U5 | 2000 10 30.37006 | 05 05 26.09 | +02 11 12.3 |        | 2 711 |
| C/2000 U5 | 2000 10 30.37347 | 05 05 25.89 | +02 11 13.8 |        | 2 711 |
| C/2000 U5 | 2000 10 30.37693 | 05 05 25.73 | +02 11 14.1 |        | 2 711 |
| C/2000 U5 | 2000 10 30.37935 | 05 05 25.45 | +02 11 15.4 | 17.3 N | 704   |
| C/2000 U5 | 2000 10 30.39341 | 05 05 24.48 | +02 11 19.9 | 17.5 N | 704   |
| C/2000 U5 | 2000 10 30.40735 | 05 05 23.49 | +02 11 24.6 | 17.0 N | 704   |
| C/2000 U5 | 2000 10 30.42181 | 05 05 22.49 | +02 11 27.5 | 18.4 N | 704   |
| C/2000 U5 | 2000 10 30.64981 | 05 05 06.92 | +02 12 58.0 | 16.3 T | 900   |
| C/2000 U5 | 2000 10 30.66096 | 05 05 06.16 | +02 13 02.6 |        | 900   |
| C/2000 U5 | 2000 10 30.87075 | 05 04 51.46 | +02 14 22.4 | 15.6 T | 344   |
| C/2000 U5 | 2000 10 30.87223 | 05 04 51.36 | +02 14 23.0 |        | 344   |
| C/2000 U5 | 2000 10 30.87371 | 05 04 51.25 | +02 14 23.7 |        | 344   |
| C/2000 U5 | 2000 10 31.19777 | 05 04 29.07 | +02 16 28.7 | 17.3 N | 719   |
| C/2000 U5 | 2000 10 31.24469 | 05 04 25.73 | +02 16 46.4 | 17.0 N | 719   |
| C/2000 U5 | 2000 10 31.34693 | 05 04 18.50 | +02 17 25.6 | 17.4 N | 704   |
| C/2000 U5 | 2000 10 31.36108 | 05 04 17.52 | +02 17 30.7 | 16.9 N | 704   |
| C/2000 U5 | 2000 10 31.37557 | 05 04 16.47 | +02 17 36.3 | 16.8 N | 704   |

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M.P.C. 41439

|           |                  |             |             |        |       |
|-----------|------------------|-------------|-------------|--------|-------|
| C/2000 U5 | 2000 10 31.38991 | 05 04 15.47 | +02 17 41.3 | 17.1 N | 704   |
| C/2000 U5 | 2000 10 31.40437 | 05 04 14.45 | +02 17 47.4 | 16.9 N | 704   |
| C/2000 U5 | 2000 10 31.44314 | 05 04 11.74 | +02 18 02.9 |        | 670   |
| C/2000 U5 | 2000 10 31.62894 | 05 03 58.88 | +02 19 18.1 |        | 322   |
| C/2000 U5 | 2000 10 31.64028 | 05 03 58.07 | +02 19 22.1 |        | 322   |
| C/2000 U5 | 2000 10 31.64525 | 05 03 57.75 | +02 19 23.9 |        | 322   |
| C/2000 U5 | 2000 11 01.21719 | 05 03 17.56 | +02 23 03.3 | 17.1 N | 719   |
| C/2000 U5 | 2000 11 01.24531 | 05 03 15.52 | +02 23 15.2 | 17.0 N | 719   |
| C/2000 U5 | 2000 11 01.32882 | 05 03 09.52 | +02 23 47.5 | 15.3 T | 850   |
| C/2000 U5 | 2000 11 01.35483 | 05 03 07.71 | +02 23 56.6 | 17.2 T | 704   |
| C/2000 U5 | 2000 11 01.35521 | 05 03 07.61 | +02 23 56.9 | 15.3 T | 850   |
| C/2000 U5 | 2000 11 01.36222 | 05 03 07.18 | +02 24 00.5 | 16.9 T | 704   |
| C/2000 U5 | 2000 11 01.36897 | 05 03 06.67 | +02 24 02.9 | 17.1 T | 704   |
| C/2000 U5 | 2000 11 01.37628 | 05 03 06.16 | +02 24 05.6 | 16.8 T | 704   |
| C/2000 U5 | 2000 11 01.38056 | 05 03 05.84 | +02 24 07.8 | 14.8 T | 850   |
| C/2000 U5 | 2000 11 01.38261 | 05 03 05.72 | +02 24 08.2 | 17.1 T | 704   |
| C/2000 U5 | 2000 11 01.39323 | 05 03 05.00 | +02 24 12.9 |        | 670   |
| C/2000 U5 | 2000 11 01.39626 | 05 03 04.72 | +02 24 11.3 | 17.3 T | 704   |
| C/2000 U5 | 2000 11 01.40432 | 05 03 04.12 | +02 24 15.8 | 17.0 T | 704   |
| C/2000 U5 | 2000 11 01.40899 | 05 03 03.84 | +02 24 18.5 | 16.8 N | 919   |
| C/2000 U5 | 2000 11 01.41826 | 05 03 03.12 | +02 24 22.2 | 16.9 T | 704   |
| C/2000 U5 | 2000 11 01.42245 | 05 03 02.84 | +02 24 24.1 | 16.7 N | 919   |
| C/2000 U5 | 2000 11 01.46950 | 05 02 59.49 | +02 24 42.3 |        | 670   |
| C/2000 U5 | 2000 11 02.22697 | 05 02 05.65 | +02 29 44.7 |        | 808   |
| C/2000 U5 | 2000 11 02.26927 | 05 02 02.54 | +02 30 00.5 |        | 3 808 |
| C/2000 U5 | 2000 11 02.37975 | 05 01 54.63 | +02 30 40.4 | 17.0 T | 704   |
| C/2000 U5 | 2000 11 02.39552 | 05 01 53.50 | +02 30 47.2 | 17.2 T | 704   |
| C/2000 U5 | 2000 11 02.40977 | 05 01 52.45 | +02 30 53.4 | 17.1 T | 704   |
| C/2000 U5 | 2000 11 02.42587 | 05 01 50.94 | +02 30 57.7 | 17.1 T | 704   |
| C/2000 U5 | 2000 11 03.66493 | 05 00 21.63 | +02 39 16.3 | 16.1 T | 360   |
| C/2000 U5 | 2000 11 03.66708 | 05 00 21.52 | +02 39 17.4 | 16.1 T | 900   |
| C/2000 U5 | 2000 11 03.66736 | 05 00 21.47 | +02 39 17.3 |        | 360   |
| C/2000 U5 | 2000 11 03.67655 | 05 00 20.84 | +02 39 21.3 |        | 900   |
| C/2000 U5 | 2000 11 03.75494 | 05 00 14.98 | +02 39 51.9 | 16.0 T | 349   |
| C/2000 U5 | 2000 11 03.75657 | 05 00 14.83 | +02 39 52.8 |        | 349   |
| C/2000 U5 | 2000 11 03.76025 | 05 00 14.56 | +02 39 55.2 |        | 349   |
| C/2000 U5 | 2000 11 03.76194 | 05 00 14.39 | +02 39 55.4 |        | 349   |
| C/2000 U5 | 2000 11 04.63556 | 04 59 10.33 | +02 45 50.4 |        | 300   |
| C/2000 U5 | 2000 11 04.64363 | 04 59 09.73 | +02 45 54.1 |        | 300   |
| C/2000 U5 | 2000 11 04.64633 | 04 59 09.50 | +02 45 54.2 |        | 300   |
| C/2000 U5 | 2000 11 04.64899 | 04 59 09.36 | +02 45 55.9 |        | 300   |
| C/2000 U5 | 2000 11 04.65170 | 04 59 09.13 | +02 45 57.0 |        | 300   |
| C/2000 U5 | 2000 11 04.65436 | 04 59 08.89 | +02 45 58.3 |        | 300   |
| C/2000 U5 | 2000 11 04.65707 | 04 59 08.72 | +02 45 58.8 |        | 300   |
| C/2000 U5 | 2000 11 04.65972 | 04 59 08.51 | +02 46 00.1 |        | 300   |
| C/2000 U5 | 2000 11 04.71025 | 04 59 04.69 | +02 46 20.1 | 16.2 T | 349   |
| C/2000 U5 | 2000 11 04.71366 | 04 59 04.42 | +02 46 21.8 |        | 349   |
| C/2000 U5 | 2000 11 04.71520 | 04 59 04.33 | +02 46 22.9 |        | 349   |
| C/2000 U5 | 2000 11 05.71252 | 04 57 50.09 | +02 53 12.5 | 16.2 T | 908   |
| C/2000 U5 | 2000 11 05.72301 | 04 57 49.30 | +02 53 17.1 |        | 908   |
| C/2000 U5 | 2000 11 05.73414 | 04 57 48.46 | +02 53 21.5 |        | 908   |
| C/2000 U5 | 2000 11 06.39278 | 04 56 59.05 | +02 57 54.9 | 17.2 T | 704   |
| C/2000 U5 | 2000 11 06.40667 | 04 56 57.91 | +02 58 00.2 | 17.2 T | 704   |

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/2000 U5 | 2000 11 06.40695 | 04 56 57.93 | +02 58 00.2 | 16.9 T | 704 |
| C/2000 U5 | 2000 11 06.42079 | 04 56 56.86 | +02 58 06.6 | 16.9 T | 704 |
| C/2000 U5 | 2000 11 06.42205 | 04 56 56.77 | +02 58 06.9 | 17.1 T | 704 |
| C/2000 U5 | 2000 11 06.43464 | 04 56 55.74 | +02 58 16.5 | 17.6 T | 704 |
| C/2000 U5 | 2000 11 06.43608 | 04 56 55.66 | +02 58 12.8 | 17.2 T | 704 |
| C/2000 U5 | 2000 11 06.44851 | 04 56 54.79 | +02 58 18.2 | 17.4 T | 704 |
| C/2000 U5 | 2000 11 06.45036 | 04 56 54.79 | +02 58 20.3 | 18.4 T | 704 |
| C/2000 U5 | 2000 11 06.70488 | 04 56 35.45 | +03 00 06.7 | 15.4 T | 402 |
| C/2000 U5 | 2000 11 06.70615 | 04 56 35.34 | +03 00 07.1 |        | 402 |
| C/2000 U5 | 2000 11 06.70741 | 04 56 35.25 | +03 00 07.4 |        | 402 |

## P/2000 U6 (Tichý)

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| P/2000 U6 | 2000 10 23.07698 | 03 06 57.01 | +28 51 38.9 | 17.8 N | 046 |
| P/2000 U6 | 2000 10 23.07869 | 03 06 56.93 | +28 51 40.5 |        | 046 |
| P/2000 U6 | 2000 10 23.07968 | 03 06 56.83 | +28 51 40.6 |        | 046 |
| P/2000 U6 | 2000 10 23.08103 | 03 06 56.77 | +28 51 41.9 |        | 046 |
| P/2000 U6 | 2000 10 23.96422 | 03 06 07.00 | +29 01 48.4 | 17.8 N | 046 |
| P/2000 U6 | 2000 10 23.96623 | 03 06 06.86 | +29 01 49.4 |        | 046 |
| P/2000 U6 | 2000 10 23.96756 | 03 06 06.74 | +29 01 50.9 |        | 046 |
| P/2000 U6 | 2000 10 23.96892 | 03 06 06.69 | +29 01 51.5 | 17.9 N | 046 |
| P/2000 U6 | 2000 10 23.97049 | 03 06 06.54 | +29 01 52.0 |        | 046 |
| P/2000 U6 | 2000 10 28.93617 | 03 01 04.16 | +29 55 52.4 | 17.6 N | 046 |
| P/2000 U6 | 2000 10 28.93818 | 03 01 04.07 | +29 55 53.1 |        | 046 |
| P/2000 U6 | 2000 10 28.93926 | 03 01 03.93 | +29 55 53.1 |        | 046 |
| P/2000 U6 | 2000 10 28.94242 | 03 01 03.80 | +29 55 55.2 |        | 046 |
| P/2000 U6 | 2000 10 28.94346 | 03 01 03.72 | +29 55 56.0 |        | 046 |
| P/2000 U6 | 2000 10 28.94991 | 03 01 03.26 | +29 56 00.1 | 17.9 T | 046 |
| P/2000 U6 | 2000 10 28.95328 | 03 01 03.04 | +29 56 02.6 | 17.7 T | 046 |
| P/2000 U6 | 2000 10 29.14976 | 03 00 50.05 | +29 58 02.4 | 17.1 T | 046 |
| P/2000 U6 | 2000 10 29.15506 | 03 00 49.65 | +29 58 05.3 |        | 046 |
| P/2000 U6 | 2000 10 29.15961 | 03 00 49.39 | +29 58 08.5 | 17.2 T | 046 |
| P/2000 U6 | 2000 10 29.33160 | 03 00 38.51 | +29 59 57.9 |        | 711 |
| P/2000 U6 | 2000 10 29.33987 | 03 00 37.99 | +30 00 03.0 |        | 711 |
| P/2000 U6 | 2000 10 29.34799 | 03 00 37.42 | +30 00 08.6 |        | 711 |
| P/2000 U6 | 2000 10 29.97206 | 02 59 57.10 | +30 06 28.2 |        | 046 |
| P/2000 U6 | 2000 10 29.97465 | 02 59 57.01 | +30 06 30.3 |        | 046 |
| P/2000 U6 | 2000 10 29.97821 | 02 59 56.72 | +30 06 31.4 |        | 046 |
| P/2000 U6 | 2000 10 29.97965 | 02 59 56.67 | +30 06 32.3 |        | 046 |
| P/2000 U6 | 2000 10 29.98271 | 02 59 56.41 | +30 06 35.0 |        | 046 |
| P/2000 U6 | 2000 10 29.98406 | 02 59 56.28 | +30 06 35.7 | 17.6 T | 046 |
| P/2000 U6 | 2000 10 29.98623 | 02 59 56.16 | +30 06 36.2 |        | 046 |
| P/2000 U6 | 2000 10 30.17096 | 02 59 44.36 | +30 08 28.1 |        | 719 |
| P/2000 U6 | 2000 10 30.20128 | 02 59 42.41 | +30 08 47.9 | 19.2 N | 719 |
| P/2000 U6 | 2000 10 30.27348 | 02 59 37.53 | +30 09 32.6 |        | 711 |
| P/2000 U6 | 2000 10 30.28138 | 02 59 36.98 | +30 09 37.3 |        | 711 |
| P/2000 U6 | 2000 10 30.28843 | 02 59 36.50 | +30 09 41.5 |        | 711 |
| P/2000 U6 | 2000 10 30.30691 | 02 59 35.25 | +30 09 50.7 | 18.8 N | 704 |
| P/2000 U6 | 2000 10 30.32141 | 02 59 34.25 | +30 10 00.7 | 19.1 N | 704 |
| P/2000 U6 | 2000 10 30.33571 | 02 59 33.21 | +30 10 09.9 | 19.3 N | 704 |
| P/2000 U6 | 2000 10 30.34968 | 02 59 32.31 | +30 10 18.8 | 18.9 N | 704 |
| P/2000 U6 | 2000 10 30.36483 | 02 59 31.29 | +30 10 28.4 | 19.1 N | 704 |
| P/2000 U6 | 2000 10 30.62732 | 02 59 14.25 | +30 13 04.3 |        | 900 |
| P/2000 U6 | 2000 10 30.63568 | 02 59 13.69 | +30 13 08.6 | 17.5 N | 900 |

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| P/2000 U6 | 2000 10 31.11619 | 02 58 42.45 | +30 17 54.2 | 18.8 N | 919 |
| P/2000 U6 | 2000 10 31.14887 | 02 58 40.30 | +30 18 13.9 | 19.3 N | 919 |
| P/2000 U6 | 2000 10 31.18428 | 02 58 37.80 | +30 18 35.3 | 18.2 N | 858 |
| P/2000 U6 | 2000 10 31.18762 | 02 58 37.54 | +30 18 37.8 | 18.2 N | 858 |
| P/2000 U6 | 2000 10 31.19095 | 02 58 37.34 | +30 18 39.8 | 18.2 N | 858 |
| P/2000 U6 | 2000 10 31.27671 | 02 58 31.42 | +30 19 32.5 | 18.3 N | 704 |
| P/2000 U6 | 2000 10 31.29064 | 02 58 30.55 | +30 19 39.0 | 18.9 N | 704 |
| P/2000 U6 | 2000 10 31.30551 | 02 58 29.41 | +30 19 47.9 | 18.9 N | 704 |
| P/2000 U6 | 2000 10 31.31940 | 02 58 28.55 | +30 19 56.5 | 18.8 N | 704 |
| P/2000 U6 | 2000 10 31.88961 | 02 57 50.58 | +30 25 27.2 |        | 620 |
| P/2000 U6 | 2000 10 31.91779 | 02 57 48.83 | +30 25 44.6 |        | 620 |
| P/2000 U6 | 2000 10 31.94102 | 02 57 47.26 | +30 25 57.7 |        | 620 |
| P/2000 U6 | 2000 10 31.97743 | 02 57 44.59 | +30 26 20.8 |        | 620 |
| P/2000 U6 | 2000 10 31.99938 | 02 57 43.17 | +30 26 33.5 |        | 620 |
| P/2000 U6 | 2000 11 01.00872 | 02 57 42.54 | +30 26 38.9 |        | 620 |
| P/2000 U6 | 2000 11 01.01566 | 02 57 42.08 | +30 26 42.0 |        | 620 |
| P/2000 U6 | 2000 11 01.02589 | 02 57 41.40 | +30 26 47.7 |        | 620 |
| P/2000 U6 | 2000 11 01.06358 | 02 57 38.73 | +30 27 08.7 |        | 620 |
| P/2000 U6 | 2000 11 01.07253 | 02 57 38.12 | +30 27 14.4 |        | 620 |
| P/2000 U6 | 2000 11 01.09787 | 02 57 36.37 | +30 27 30.1 |        | 620 |
| P/2000 U6 | 2000 11 01.10425 | 02 57 35.91 | +30 27 32.5 |        | 620 |
| P/2000 U6 | 2000 11 01.18668 | 02 57 30.98 | +30 28 20.9 | 19.0 N | 853 |
| P/2000 U6 | 2000 11 01.18993 | 02 57 30.50 | +30 28 24.1 | 18.3 N | 850 |
| P/2000 U6 | 2000 11 01.19035 | 02 57 30.73 | +30 28 23.3 | 19.0 N | 853 |
| P/2000 U6 | 2000 11 01.19111 | 02 57 30.66 | +30 28 23.6 | 18.8 N | 853 |
| P/2000 U6 | 2000 11 01.19303 | 02 57 30.54 | +30 28 24.8 | 19.1 N | 853 |
| P/2000 U6 | 2000 11 01.20676 | 02 57 29.65 | +30 28 31.8 | 18.8 N | 719 |
| P/2000 U6 | 2000 11 01.20764 | 02 57 29.35 | +30 28 32.7 | 18.1 N | 850 |
| P/2000 U6 | 2000 11 01.22596 | 02 57 28.46 | +30 28 44.6 | 18.7 N | 719 |
| P/2000 U6 | 2000 11 01.22674 | 02 57 28.00 | +30 28 45.3 |        | 850 |
| P/2000 U6 | 2000 11 01.27127 | 02 57 25.07 | +30 29 11.0 | 18.7 T | 704 |
| P/2000 U6 | 2000 11 01.28524 | 02 57 24.02 | +30 29 19.5 | 19.0 T | 704 |
| P/2000 U6 | 2000 11 01.28905 | 02 57 23.80 | +30 29 21.3 | 18.6 T | 704 |
| P/2000 U6 | 2000 11 01.29913 | 02 57 22.98 | +30 29 28.2 | 19.1 T | 704 |
| P/2000 U6 | 2000 11 01.30395 | 02 57 22.81 | +30 29 30.1 | 19.1 T | 704 |
| P/2000 U6 | 2000 11 01.31301 | 02 57 22.11 | +30 29 35.0 | 18.8 T | 704 |
| P/2000 U6 | 2000 11 01.31825 | 02 57 21.76 | +30 29 39.2 | 18.6 T | 704 |
| P/2000 U6 | 2000 11 01.32688 | 02 57 21.21 | +30 29 43.6 | 19.0 T | 704 |
| P/2000 U6 | 2000 11 01.33254 | 02 57 20.79 | +30 29 46.1 | 18.4 T | 704 |
| P/2000 U6 | 2000 11 01.34715 | 02 57 19.78 | +30 29 54.5 | 18.8 T | 704 |
| P/2000 U6 | 2000 11 01.73894 | 02 56 53.26 | +30 33 38.1 | 17.7 T | 327 |
| P/2000 U6 | 2000 11 01.75258 | 02 56 52.92 | +30 33 43.2 |        | 557 |
| P/2000 U6 | 2000 11 01.75351 | 02 56 52.26 | +30 33 47.7 | 18.1 T | 327 |
| P/2000 U6 | 2000 11 01.75535 | 02 56 52.77 | +30 33 45.3 |        | 557 |
| P/2000 U6 | 2000 11 01.75788 | 02 56 52.57 | +30 33 46.1 |        | 557 |
| P/2000 U6 | 2000 11 01.76647 | 02 56 51.99 | +30 33 50.9 |        | 557 |
| P/2000 U6 | 2000 11 01.77525 | 02 56 51.39 | +30 33 55.5 | 18.7 N | 557 |
| P/2000 U6 | 2000 11 01.78654 | 02 56 50.60 | +30 34 02.8 |        | 557 |
| P/2000 U6 | 2000 11 02.84595 | 02 55 38.60 | +30 43 59.0 |        | 557 |
| P/2000 U6 | 2000 11 02.85422 | 02 55 38.05 | +30 44 02.9 |        | 557 |
| P/2000 U6 | 2000 11 02.86289 | 02 55 37.50 | +30 44 08.0 |        | 557 |
| P/2000 U6 | 2000 11 02.91472 | 02 55 33.85 | +30 44 36.9 | 17.5 T | 046 |
| P/2000 U6 | 2000 11 02.91616 | 02 55 33.75 | +30 44 38.1 |        | 046 |

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| P/2000 U6 | 2000 11 02.91757 | 02 55 33.62 | +30 44 38.9 |        | 046 |
| P/2000 U6 | 2000 11 02.91900 | 02 55 33.54 | +30 44 38.9 |        | 046 |
| P/2000 U6 | 2000 11 02.92049 | 02 55 33.42 | +30 44 40.6 |        | 046 |
| P/2000 U6 | 2000 11 02.92190 | 02 55 33.31 | +30 44 40.8 | 17.4 T | 046 |
| P/2000 U6 | 2000 11 02.93794 | 02 55 32.20 | +30 44 49.7 |        | 557 |
| P/2000 U6 | 2000 11 03.63194 | 02 54 44.63 | +30 51 11.4 | 18.4 T | 360 |
| P/2000 U6 | 2000 11 03.63594 | 02 54 44.35 | +30 51 13.6 |        | 360 |
| P/2000 U6 | 2000 11 03.64063 | 02 54 44.00 | +30 51 16.1 |        | 360 |
| P/2000 U6 | 2000 11 05.14594 | 02 52 59.89 | +31 04 33.7 | 17.8 T | 046 |
| P/2000 U6 | 2000 11 05.14747 | 02 52 59.78 | +31 04 33.4 |        | 046 |
| P/2000 U6 | 2000 11 05.14855 | 02 52 59.68 | +31 04 34.0 |        | 046 |
| P/2000 U6 | 2000 11 05.15216 | 02 52 59.48 | +31 04 35.7 |        | 046 |
| P/2000 U6 | 2000 11 05.15345 | 02 52 59.36 | +31 04 36.5 |        | 046 |
| P/2000 U6 | 2000 11 05.15669 | 02 52 59.14 | +31 04 38.2 |        | 046 |
| P/2000 U6 | 2000 11 05.52214 | 02 52 34.39 | +31 07 49.9 | 18.1 T | 908 |
| P/2000 U6 | 2000 11 05.53711 | 02 52 33.36 | +31 07 56.6 |        | 908 |
| P/2000 U6 | 2000 11 05.55012 | 02 52 32.36 | +31 08 02.9 |        | 908 |
| P/2000 U6 | 2000 11 05.94684 | 02 52 04.70 | +31 11 25.6 | 17.9 T | 046 |
| P/2000 U6 | 2000 11 05.94876 | 02 52 04.53 | +31 11 26.2 |        | 046 |
| P/2000 U6 | 2000 11 05.95045 | 02 52 04.45 | +31 11 27.3 |        | 046 |
| P/2000 U6 | 2000 11 05.95209 | 02 52 04.33 | +31 11 28.6 |        | 046 |
| P/2000 U6 | 2000 11 06.64287 | 02 51 16.18 | +31 17 16.2 | 18.0 T | 402 |
| P/2000 U6 | 2000 11 06.64517 | 02 51 16.02 | +31 17 17.9 |        | 402 |
| P/2000 U6 | 2000 11 06.64748 | 02 51 15.89 | +31 17 18.5 |        | 402 |

## 2P/Encke

|                          |                  |             |             |  |     |
|--------------------------|------------------|-------------|-------------|--|-----|
| 2P                       | 2000 09 05.34590 | 10 29 42.5  | +10 42 13   |  | 249 |
| Geocentric position (AU) | −0.00976815      | −0.00131025 | −0.00036049 |  |     |
| 2P                       | 2000 09 05.36258 | 10 29 47.7  | +10 41 05   |  | 249 |
| Geocentric position (AU) | −0.00976851      | −0.00131336 | −0.00036235 |  |     |
| 2P                       | 2000 09 05.38757 | 10 30 03.6  | +10 39 45   |  | 249 |
| Geocentric position (AU) | −0.00976904      | −0.00131803 | −0.00036514 |  |     |
| 2P                       | 2000 09 05.40424 | 10 30 11.6  | +10 37 44   |  | 249 |
| Geocentric position (AU) | −0.00976939      | −0.00132114 | −0.00036700 |  |     |
| 2P                       | 2000 09 05.43063 | 10 30 22.1  | +10 36 23   |  | 249 |
| Geocentric position (AU) | −0.00976995      | −0.00132606 | −0.00036995 |  |     |
| 2P                       | 2000 09 05.44613 | 10 30 30.8  | +10 34 56   |  | 249 |
| Geocentric position (AU) | −0.00977027      | −0.00132895 | −0.00037168 |  |     |
| 2P                       | 2000 09 05.47090 | 10 30 43.0  | +10 33 23   |  | 249 |
| Geocentric position (AU) | −0.00977079      | −0.00133356 | −0.00037444 |  |     |
| 2P                       | 2000 09 05.48757 | 10 30 53.4  | +10 32 23   |  | 249 |
| Geocentric position (AU) | −0.00977113      | −0.00133667 | −0.00037629 |  |     |
| 2P                       | 2000 09 05.51256 | 10 31 04.4  | +10 30 20   |  | 249 |
| Geocentric position (AU) | −0.00977165      | −0.00134132 | −0.00037908 |  |     |
| 2P                       | 2000 09 05.57090 | 10 31 36.9  | +10 26 33   |  | 249 |
| Geocentric position (AU) | −0.00977284      | −0.00135216 | −0.00038557 |  |     |
| 2P                       | 2000 09 05.59590 | 10 31 45.9  | +10 24 30   |  | 249 |
| Geocentric position (AU) | −0.00977334      | −0.00135680 | −0.00038835 |  |     |
| 2P                       | 2000 09 05.90423 | 10 34 25.0  | +10 02 13   |  | 249 |
| Geocentric position (AU) | −0.00977932      | −0.00141377 | −0.00042255 |  |     |
| 2P                       | 2000 09 05.92923 | 10 34 36.1  | +10 00 31   |  | 249 |
| Geocentric position (AU) | −0.00977979      | −0.00141836 | −0.00042532 |  |     |

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| 2P                       | 2000 09 05.97099 | 10 34 57.2  | +09 57 34   | 249 |
| Geocentric position (AU) | -0.00978056      | -0.00142604 | -0.00042993 |     |
| 2P                       | 2000 09 05.98757 | 10 35 06.7  | +09 56 21   | 249 |
| Geocentric position (AU) | -0.00978086      | -0.00142908 | -0.00043176 |     |
| 2P                       | 2000 09 06.01256 | 10 35 17.1  | +09 54 36   | 249 |
| Geocentric position (AU) | -0.00978132      | -0.00143367 | -0.00043452 |     |
| 2P                       | 2000 09 06.02923 | 10 35 25.5  | +09 53 25   | 249 |
| Geocentric position (AU) | -0.00978162      | -0.00143672 | -0.00043636 |     |
| 2P                       | 2000 09 06.23756 | 10 37 12.5  | +09 38 18   | 249 |
| Geocentric position (AU) | -0.00978527      | -0.00147481 | -0.00045932 |     |
| 2P                       | 2000 09 06.26257 | 10 37 24.7  | +09 36 43   | 249 |
| Geocentric position (AU) | -0.00978570      | -0.00147936 | -0.00046207 |     |
| 2P                       | 2000 09 06.27924 | 10 37 32.7  | +09 35 11   | 249 |
| Geocentric position (AU) | -0.00978598      | -0.00148240 | -0.00046390 |     |
| 2P                       | 2000 09 06.34590 | 10 38 05.5  | +09 31 05   | 249 |
| Geocentric position (AU) | -0.00978710      | -0.00149452 | -0.00047122 |     |
| 2P                       | 2000 09 06.36256 | 10 38 11.9  | +09 29 19   | 249 |
| Geocentric position (AU) | -0.00978737      | -0.00149755 | -0.00047305 |     |
| 2P                       | 2000 09 06.38756 | 10 38 26.8  | +09 27 32   | 249 |
| Geocentric position (AU) | -0.00978778      | -0.00150209 | -0.00047579 |     |
| 2P                       | 2000 09 06.40423 | 10 38 35.4  | +09 26 38   | 249 |
| Geocentric position (AU) | -0.00978806      | -0.00150511 | -0.00047762 |     |
| 2P                       | 2000 09 06.43061 | 10 38 48.2  | +09 24 25   | 249 |
| Geocentric position (AU) | -0.00978848      | -0.00150989 | -0.00048051 |     |
| 2P                       | 2000 09 06.44590 | 10 38 56.0  | +09 23 19   | 249 |
| Geocentric position (AU) | -0.00978873      | -0.00151266 | -0.00048219 |     |
| 2P                       | 2000 09 06.47091 | 10 39 06.2  | +09 21 33   | 249 |
| Geocentric position (AU) | -0.00978913      | -0.00151719 | -0.00048493 |     |
| 2P                       | 2000 09 06.48788 | 10 39 16.2  | +09 20 31   | 249 |
| Geocentric position (AU) | -0.00978940      | -0.00152027 | -0.00048679 |     |
| 2P                       | 2000 09 06.51256 | 10 39 30.4  | +09 18 11   | 249 |
| Geocentric position (AU) | -0.00978980      | -0.00152473 | -0.00048949 |     |
| 2P                       | 2000 09 06.52923 | 10 39 36.3  | +09 17 28   | 249 |
| Geocentric position (AU) | -0.00979006      | -0.00152775 | -0.00049131 |     |
| 2P                       | 2000 09 06.57090 | 10 39 57.3  | +09 14 22   | 249 |
| Geocentric position (AU) | -0.00979071      | -0.00153527 | -0.00049587 |     |
| 2P                       | 2000 09 06.59590 | 10 40 10.9  | +09 12 27   | 249 |
| Geocentric position (AU) | -0.00979110      | -0.00153978 | -0.00049860 |     |
| 2P                       | 2000 09 06.63756 | 10 40 32.0  | +09 09 48   | 249 |
| Geocentric position (AU) | -0.00979174      | -0.00154729 | -0.00050315 |     |
| 2P                       | 2000 09 06.65423 | 10 40 39.1  | +09 07 50   | 249 |
| Geocentric position (AU) | -0.00979199      | -0.00155030 | -0.00050497 |     |
| 2P                       | 2000 09 06.67923 | 10 40 53.5  | +09 06 20   | 249 |
| Geocentric position (AU) | -0.00979237      | -0.00155480 | -0.00050770 |     |
| 2P                       | 2000 09 06.69591 | 10 41 01.0  | +09 05 21   | 249 |
| Geocentric position (AU) | -0.00979262      | -0.00155780 | -0.00050952 |     |
| 2P                       | 2000 09 06.72090 | 10 41 15.6  | +09 03 41   | 249 |
| Geocentric position (AU) | -0.00979299      | -0.00156229 | -0.00051225 |     |
| 2P                       | 2000 09 06.73757 | 10 41 20.3  | +09 02 50   | 249 |
| Geocentric position (AU) | -0.00979324      | -0.00156529 | -0.00051406 |     |
| 2P                       | 2000 09 06.76256 | 10 41 32.6  | +09 00 20   | 249 |
| Geocentric position (AU) | -0.00979361      | -0.00156978 | -0.00051679 |     |

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| 2P                       | 2000 09 06.86256 | 10 42 25.8  | +08 53 21   | 249 |
| Geocentric position (AU) | -0.00979506      | -0.00158770 | -0.00052767 |     |
| 2P                       | 2000 09 06.88756 | 10 42 37.1  | +08 51 15   | 249 |
| Geocentric position (AU) | -0.00979542      | -0.00159218 | -0.00053039 |     |
| 2P                       | 2000 09 06.92925 | 10 42 59.1  | +08 48 06   | 249 |
| Geocentric position (AU) | -0.00979600      | -0.00159963 | -0.00053492 |     |
| 2P                       | 2000 09 06.97131 | 10 43 20.4  | +08 45 34   | 249 |
| Geocentric position (AU) | -0.00979659      | -0.00160714 | -0.00053949 |     |
| 2P                       | 2000 09 06.98756 | 10 43 32.2  | +08 43 09   | 249 |
| Geocentric position (AU) | -0.00979681      | -0.00161004 | -0.00054125 |     |
| 2P                       | 2000 09 07.01257 | 10 43 40.7  | +08 42 24   | 249 |
| Geocentric position (AU) | -0.00979715      | -0.00161449 | -0.00054396 |     |
| 2P                       | 2000 09 07.02923 | 10 43 53.0  | +08 41 06   | 249 |
| Geocentric position (AU) | -0.00979738      | -0.00161746 | -0.00054577 |     |
| 2P                       | 2000 09 07.07090 | 10 44 09.8  | +08 38 01   | 249 |
| Geocentric position (AU) | -0.00979794      | -0.00162488 | -0.00055029 |     |
| 2P                       | 2000 09 07.13756 | 10 44 42.8  | +08 33 33   | 249 |
| Geocentric position (AU) | -0.00979882      | -0.00163673 | -0.00055750 |     |
| 2P                       | 2000 09 07.15423 | 10 44 53.8  | +08 31 43   | 249 |
| Geocentric position (AU) | -0.00979904      | -0.00163969 | -0.00055930 |     |
| 2P                       | 2000 09 07.19590 | 10 45 14.4  | +08 28 19   | 249 |
| Geocentric position (AU) | -0.00979958      | -0.00164708 | -0.00056381 |     |
| 2P                       | 2000 09 07.22090 | 10 45 26.1  | +08 26 54   | 249 |
| Geocentric position (AU) | -0.00979990      | -0.00165151 | -0.00056651 |     |
| 2P                       | 2000 09 07.34590 | 10 46 29.0  | +08 18 08   | 249 |
| Geocentric position (AU) | -0.00980147      | -0.00167361 | -0.00058000 |     |
| 2P                       | 2000 09 07.36258 | 10 46 39.8  | +08 16 33   | 249 |
| Geocentric position (AU) | -0.00980167      | -0.00167655 | -0.00058179 |     |
| 2P                       | 2000 09 07.38758 | 10 46 51.5  | +08 14 15   | 249 |
| Geocentric position (AU) | -0.00980197      | -0.00168096 | -0.00058449 |     |
| 2P                       | 2000 09 07.40423 | 10 46 58.4  | +08 13 26   | 249 |
| Geocentric position (AU) | -0.00980217      | -0.00168389 | -0.00058628 |     |
| 2P                       | 2000 09 07.43062 | 10 47 09.3  | +08 11 23   | 249 |
| Geocentric position (AU) | -0.00980249      | -0.00168854 | -0.00058912 |     |
| 2P                       | 2000 09 07.47090 | 10 47 32.1  | +08 09 10   | 249 |
| Geocentric position (AU) | -0.00980296      | -0.00169562 | -0.00059345 |     |
| 2P                       | 2000 09 07.48756 | 10 47 40.9  | +08 07 29   | 249 |
| Geocentric position (AU) | -0.00980316      | -0.00169855 | -0.00059524 |     |
| 2P                       | 2000 09 07.51257 | 10 47 53.1  | +08 06 06   | 249 |
| Geocentric position (AU) | -0.00980345      | -0.00170294 | -0.00059793 |     |
| 2P                       | 2000 09 07.57100 | 10 48 22.7  | +08 01 17   | 249 |
| Geocentric position (AU) | -0.00980412      | -0.00171319 | -0.00060420 |     |
| 2P                       | 2000 09 07.59590 | 10 48 36.4  | +07 59 18   | 249 |
| Geocentric position (AU) | -0.00980440      | -0.00171756 | -0.00060687 |     |
| 2P                       | 2000 09 07.61256 | 10 48 41.2  | +07 58 02   | 249 |
| Geocentric position (AU) | -0.00980459      | -0.00172047 | -0.00060866 |     |
| 2P                       | 2000 09 07.69590 | 10 49 24.2  | +07 52 06   | 249 |
| Geocentric position (AU) | -0.00980551      | -0.00173505 | -0.00061759 |     |
| 2P                       | 2000 09 07.73757 | 10 49 46.1  | +07 49 06   | 249 |
| Geocentric position (AU) | -0.00980595      | -0.00174232 | -0.00062204 |     |
| 2P                       | 2000 09 07.76258 | 10 49 59.4  | +07 47 03   | 249 |
| Geocentric position (AU) | -0.00980622      | -0.00174668 | -0.00062472 |     |

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| 2P                       | 2000 09 07.82091 | 10 50 30.8  | +07 42 45   | 249 |
| Geocentric position (AU) | -0.00980683      | -0.00175683 | -0.00063095 |     |
| 2P                       | 2000 09 07.84590 | 10 50 41.2  | +07 40 55   | 249 |
| Geocentric position (AU) | -0.00980709      | -0.00176118 | -0.00063362 |     |
| 2P                       | 2000 09 07.86256 | 10 50 48.3  | +07 39 39   | 249 |
| Geocentric position (AU) | -0.00980726      | -0.00176407 | -0.00063540 |     |
| 2P                       | 2000 09 07.88756 | 10 51 01.9  | +07 38 02   | 249 |
| Geocentric position (AU) | -0.00980751      | -0.00176841 | -0.00063806 |     |
| 2P                       | 2000 09 07.90423 | 10 51 08.9  | +07 36 45   | 249 |
| Geocentric position (AU) | -0.00980768      | -0.00177131 | -0.00063984 |     |
| 2P                       | 2000 09 07.92923 | 10 51 22.4  | +07 34 49   | 249 |
| Geocentric position (AU) | -0.00980793      | -0.00177564 | -0.00064250 |     |
| 2P                       | 2000 09 07.97100 | 10 51 42.9  | +07 32 10   | 249 |
| Geocentric position (AU) | -0.00980835      | -0.00178288 | -0.00064695 |     |
| 2P                       | 2000 09 07.98756 | 10 51 52.3  | +07 30 36   | 249 |
| Geocentric position (AU) | -0.00980851      | -0.00178575 | -0.00064871 |     |
| 2P                       | 2000 09 09.61983 | 11 05 34.3  | +05 29 03   | 249 |
| Geocentric position (AU) | -0.00981974      | -0.00206122 | -0.00081957 |     |
| 2P                       | 2000 09 09.62976 | 11 05 38.5  | +05 27 48   | 249 |
| Geocentric position (AU) | -0.00981978      | -0.00206285 | -0.00082059 |     |
| 2P                       | 2000 09 09.63494 | 11 05 40.6  | +05 27 33   | 249 |
| Geocentric position (AU) | -0.00981981      | -0.00206370 | -0.00082112 |     |
| 2P                       | 2000 09 09.64014 | 11 05 43.4  | +05 27 16   | 249 |
| Geocentric position (AU) | -0.00981983      | -0.00206456 | -0.00082166 |     |
| 2P                       | 2000 09 09.65004 | 11 05 48.3  | +05 26 36   | 249 |
| Geocentric position (AU) | -0.00981987      | -0.00206619 | -0.00082268 |     |
| 2P                       | 2000 09 09.65996 | 11 05 53.6  | +05 25 56   | 249 |
| Geocentric position (AU) | -0.00981991      | -0.00206781 | -0.00082370 |     |
| 2P                       | 2000 09 09.66986 | 11 05 59.5  | +05 25 05   | 249 |
| Geocentric position (AU) | -0.00981995      | -0.00206944 | -0.00082471 |     |
| 2P                       | 2000 09 09.67975 | 11 06 03.7  | +05 24 16   | 249 |
| Geocentric position (AU) | -0.00981999      | -0.00207106 | -0.00082573 |     |
| 2P                       | 2000 09 09.68495 | 11 06 06.1  | +05 23 52   | 249 |
| Geocentric position (AU) | -0.00982001      | -0.00207192 | -0.00082627 |     |
| 2P                       | 2000 09 09.69021 | 11 06 09.0  | +05 23 33   | 249 |
| Geocentric position (AU) | -0.00982003      | -0.00207278 | -0.00082681 |     |
| 2P                       | 2000 09 09.70009 | 11 06 14.1  | +05 22 42   | 249 |
| Geocentric position (AU) | -0.00982007      | -0.00207440 | -0.00082782 |     |
| 2P                       | 2000 09 09.71000 | 11 06 18.6  | +05 22 11   | 249 |
| Geocentric position (AU) | -0.00982011      | -0.00207603 | -0.00082884 |     |
| 2P                       | 2000 09 09.71988 | 11 06 24.0  | +05 21 17   | 249 |
| Geocentric position (AU) | -0.00982015      | -0.00207765 | -0.00082985 |     |
| 2P                       | 2000 09 09.72977 | 11 06 28.5  | +05 20 34   | 249 |
| Geocentric position (AU) | -0.00982019      | -0.00207927 | -0.00083087 |     |
| 2P                       | 2000 09 09.73496 | 11 06 31.3  | +05 20 12   | 249 |
| Geocentric position (AU) | -0.00982021      | -0.00208012 | -0.00083140 |     |
| 2P                       | 2000 09 09.75010 | 11 06 39.0  | +05 19 02   | 249 |
| Geocentric position (AU) | -0.00982027      | -0.00208260 | -0.00083296 |     |
| 2P                       | 2000 09 09.75996 | 11 06 43.5  | +05 18 15   | 249 |
| Geocentric position (AU) | -0.00982031      | -0.00208422 | -0.00083397 |     |
| 2P                       | 2000 09 09.76986 | 11 06 48.6  | +05 17 32   | 249 |
| Geocentric position (AU) | -0.00982034      | -0.00208584 | -0.00083498 |     |

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| 2P                       | 2000 09 09.77979 | 11 06 55.0  | +05 17 09   | 249 |
| Geocentric position (AU) | -0.00982038      | -0.00208746 | -0.00083600 |     |
| 2P                       | 2000 09 09.78498 | 11 06 56.6  | +05 16 24   | 249 |
| Geocentric position (AU) | -0.00982040      | -0.00208831 | -0.00083653 |     |
| 2P                       | 2000 09 09.79018 | 11 06 58.7  | +05 16 01   | 249 |
| Geocentric position (AU) | -0.00982042      | -0.00208916 | -0.00083707 |     |
| 2P                       | 2000 09 09.80008 | 11 07 03.9  | +05 15 15   | 249 |
| Geocentric position (AU) | -0.00982046      | -0.00209078 | -0.00083808 |     |
| 2P                       | 2000 09 09.80998 | 11 07 08.6  | +05 14 28   | 249 |
| Geocentric position (AU) | -0.00982049      | -0.00209240 | -0.00083910 |     |
| 2P                       | 2000 09 09.81987 | 11 07 13.4  | +05 13 50   | 249 |
| Geocentric position (AU) | -0.00982053      | -0.00209402 | -0.00084011 |     |
| 2P                       | 2000 09 09.82981 | 11 07 19.2  | +05 13 03   | 249 |
| Geocentric position (AU) | -0.00982057      | -0.00209564 | -0.00084113 |     |
| 2P                       | 2000 09 09.84022 | 11 07 23.9  | +05 12 18   | 249 |
| Geocentric position (AU) | -0.00982060      | -0.00209734 | -0.00084219 |     |
| 2P                       | 2000 09 09.85012 | 11 07 28.6  | +05 11 18   | 249 |
| Geocentric position (AU) | -0.00982064      | -0.00209896 | -0.00084321 |     |
| 2P                       | 2000 09 09.86002 | 11 07 33.9  | +05 10 48   | 249 |
| Geocentric position (AU) | -0.00982068      | -0.00210057 | -0.00084422 |     |
| 2P                       | 2000 09 09.88502 | 11 07 46.8  | +05 08 49   | 249 |
| Geocentric position (AU) | -0.00982076      | -0.00210465 | -0.00084678 |     |
| 2P                       | 2000 09 09.90012 | 11 07 53.6  | +05 08 00   | 249 |
| Geocentric position (AU) | -0.00982081      | -0.00210711 | -0.00084832 |     |
| 2P                       | 2000 09 11.29620 | 11 19 32.5  | +03 23 10   | 249 |
| Geocentric position (AU) | -0.00982301      | -0.00232969 | -0.00098897 |     |
| 2P                       | 2000 09 11.31600 | 11 19 41.9  | +03 21 38   | 249 |
| Geocentric position (AU) | -0.00982301      | -0.00233277 | -0.00099093 |     |
| 2P                       | 2000 09 11.32587 | 11 19 46.8  | +03 20 53   | 249 |
| Geocentric position (AU) | -0.00982300      | -0.00233431 | -0.00099191 |     |
| 2P                       | 2000 09 11.33575 | 11 19 51.8  | +03 20 03   | 249 |
| Geocentric position (AU) | -0.00982300      | -0.00233585 | -0.00099289 |     |
| 2P                       | 2000 09 11.34094 | 11 19 54.8  | +03 19 43   | 249 |
| Geocentric position (AU) | -0.00982300      | -0.00233666 | -0.00099341 |     |
| 2P                       | 2000 09 11.34614 | 11 19 57.1  | +03 19 23   | 249 |
| Geocentric position (AU) | -0.00982300      | -0.00233746 | -0.00099392 |     |
| 2P                       | 2000 09 11.35607 | 11 20 02.1  | +03 18 32   | 249 |
| Geocentric position (AU) | -0.00982300      | -0.00233901 | -0.00099491 |     |
| 2P                       | 2000 09 11.36596 | 11 20 07.6  | +03 17 48   | 249 |
| Geocentric position (AU) | -0.00982299      | -0.00234055 | -0.00099589 |     |
| 2P                       | 2000 09 11.38578 | 11 20 16.9  | +03 16 17   | 249 |
| Geocentric position (AU) | -0.00982299      | -0.00234363 | -0.00099785 |     |
| 2P                       | 2000 09 11.39097 | 11 20 19.2  | +03 15 55   | 249 |
| Geocentric position (AU) | -0.00982299      | -0.00234444 | -0.00099836 |     |
| 2P                       | 2000 09 11.39615 | 11 20 23.5  | +03 15 35   | 249 |
| Geocentric position (AU) | -0.00982298      | -0.00234524 | -0.00099888 |     |
| 2P                       | 2000 09 11.40608 | 11 20 26.4  | +03 14 50   | 249 |
| Geocentric position (AU) | -0.00982298      | -0.00234678 | -0.00099986 |     |
| 2P                       | 2000 09 11.41602 | 11 20 32.1  | +03 14 00   | 249 |
| Geocentric position (AU) | -0.00982298      | -0.00234833 | -0.00100084 |     |
| 2P                       | 2000 09 11.42590 | 11 20 36.7  | +03 13 15   | 249 |
| Geocentric position (AU) | -0.00982297      | -0.00234986 | -0.00100182 |     |

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| 2P                       | 2000 09 11.43582 | 11 20 41.9  | +03 12 32   | 249 |
| Geocentric position (AU) | -0.00982297      | -0.00235140 | -0.00100280 |     |
| 2P                       | 2000 09 11.44100 | 11 20 45.1  | +03 12 09   | 249 |
| Geocentric position (AU) | -0.00982297      | -0.00235221 | -0.00100331 |     |
| 2P                       | 2000 09 11.45608 | 11 20 52.5  | +03 10 55   | 249 |
| Geocentric position (AU) | -0.00982296      | -0.00235455 | -0.00100480 |     |
| 2P                       | 2000 09 11.46598 | 11 20 57.1  | +03 10 15   | 249 |
| Geocentric position (AU) | -0.00982295      | -0.00235608 | -0.00100578 |     |
| 2P                       | 2000 09 11.47590 | 11 21 02.2  | +03 09 34   | 249 |
| Geocentric position (AU) | -0.00982295      | -0.00235762 | -0.00100676 |     |
| 2P                       | 2000 09 11.48579 | 11 21 08.1  | +03 08 51   | 249 |
| Geocentric position (AU) | -0.00982294      | -0.00235915 | -0.00100774 |     |
| 2P                       | 2000 09 11.49098 | 11 21 09.2  | +03 08 31   | 249 |
| Geocentric position (AU) | -0.00982294      | -0.00235996 | -0.00100825 |     |
| 2P                       | 2000 09 11.49617 | 11 21 12.1  | +03 08 02   | 249 |
| Geocentric position (AU) | -0.00982294      | -0.00236076 | -0.00100876 |     |
| 2P                       | 2000 09 11.50608 | 11 21 17.1  | +03 07 23   | 249 |
| Geocentric position (AU) | -0.00982293      | -0.00236229 | -0.00100974 |     |
| 2P                       | 2000 09 11.51596 | 11 21 21.9  | +03 06 37   | 249 |
| Geocentric position (AU) | -0.00982293      | -0.00236382 | -0.00101072 |     |
| 2P                       | 2000 09 11.52590 | 11 21 26.9  | +03 05 51   | 249 |
| Geocentric position (AU) | -0.00982292      | -0.00236536 | -0.00101170 |     |
| 2P                       | 2000 09 11.53585 | 11 21 31.5  | +03 05 07   | 249 |
| Geocentric position (AU) | -0.00982291      | -0.00236690 | -0.00101268 |     |
| 2P                       | 2000 09 11.54103 | 11 21 34.8  | +03 04 39   | 249 |
| Geocentric position (AU) | -0.00982291      | -0.00236770 | -0.00101319 |     |
| 2P                       | 2000 09 11.54622 | 11 21 36.9  | +03 04 34   | 249 |
| Geocentric position (AU) | -0.00982291      | -0.00236851 | -0.00101370 |     |
| 2P                       | 2000 09 11.55612 | 11 21 42.6  | +03 03 36   | 249 |
| Geocentric position (AU) | -0.00982290      | -0.00237004 | -0.00101468 |     |
| 2P                       | 2000 09 11.56601 | 11 21 46.5  | +03 02 36   | 249 |
| Geocentric position (AU) | -0.00982289      | -0.00237157 | -0.00101566 |     |
| 2P                       | 2000 09 11.57592 | 11 21 52.5  | +03 02 08   | 249 |
| Geocentric position (AU) | -0.00982288      | -0.00237310 | -0.00101663 |     |
| 2P                       | 2000 09 11.58582 | 11 21 56.7  | +03 01 19   | 249 |
| Geocentric position (AU) | -0.00982288      | -0.00237463 | -0.00101761 |     |
| 2P                       | 2000 09 11.59101 | 11 21 59.7  | +03 01 02   | 249 |
| Geocentric position (AU) | -0.00982287      | -0.00237543 | -0.00101812 |     |
| 2P                       | 2000 09 11.59620 | 11 22 02.2  | +03 00 38   | 249 |
| Geocentric position (AU) | -0.00982287      | -0.00237623 | -0.00101863 |     |
| 2P                       | 2000 09 11.61659 | 11 22 12.9  | +02 59 00   | 249 |
| Geocentric position (AU) | -0.00982285      | -0.00237938 | -0.00102064 |     |
| 2P                       | 2000 09 11.65006 | 11 22 29.4  | +02 56 16   | 249 |
| Geocentric position (AU) | -0.00982282      | -0.00238454 | -0.00102394 |     |
| 2P                       | 2000 09 11.68062 | 11 22 44.7  | +02 54 11   | 249 |
| Geocentric position (AU) | -0.00982279      | -0.00238925 | -0.00102694 |     |
| 2P                       | 2000 09 11.69173 | 11 22 50.8  | +02 53 24   | 249 |
| Geocentric position (AU) | -0.00982278      | -0.00239096 | -0.00102804 |     |
| 2P                       | 2000 09 11.70007 | 11 22 53.2  | +02 52 42   | 249 |
| Geocentric position (AU) | -0.00982277      | -0.00239224 | -0.00102886 |     |
| 2P                       | 2000 09 11.70451 | 11 22 56.5  | +02 52 29   | 249 |
| Geocentric position (AU) | -0.00982277      | -0.00239292 | -0.00102929 |     |

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| 2P                       | 2000 09 11.71673 | 11 23 02.3  | +02 51 50   | 249 |
| Geocentric position (AU) | -0.00982276      | -0.00239480 | -0.00103049 |     |
| 2P                       | 2000 09 11.72507 | 11 23 05.9  | +02 50 50   | 249 |
| Geocentric position (AU) | -0.00982275      | -0.00239609 | -0.00103131 |     |
| 2P                       | 2000 09 11.73340 | 11 23 10.4  | +02 50 12   | 249 |
| Geocentric position (AU) | -0.00982274      | -0.00239737 | -0.00103213 |     |
| 2P                       | 2000 09 11.74173 | 11 23 14.2  | +02 49 36   | 249 |
| Geocentric position (AU) | -0.00982273      | -0.00239865 | -0.00103295 |     |
| 2P                       | 2000 09 11.74590 | 11 23 16.0  | +02 49 18   | 249 |
| Geocentric position (AU) | -0.00982272      | -0.00239929 | -0.00103336 |     |
| 2P                       | 2000 09 11.75840 | 11 23 22.1  | +02 48 14   | 249 |
| Geocentric position (AU) | -0.00982271      | -0.00240121 | -0.00103459 |     |
| 2P                       | 2000 09 11.76673 | 11 23 26.8  | +02 47 33   | 249 |
| Geocentric position (AU) | -0.00982270      | -0.00240249 | -0.00103540 |     |
| 2P                       | 2000 09 11.77506 | 11 23 31.5  | +02 47 05   | 249 |
| Geocentric position (AU) | -0.00982269      | -0.00240377 | -0.00103622 |     |
| 2P                       | 2000 09 12.73756 | 11 31 26.4  | +01 35 50   | 249 |
| Geocentric position (AU) | -0.00982065      | -0.00254929 | -0.00112968 |     |
| 2P                       | 2000 09 12.82106 | 11 32 06.9  | +01 28 42   | 249 |
| Geocentric position (AU) | -0.00982040      | -0.00256171 | -0.00113769 |     |
| 2P                       | 2000 09 12.84590 | 11 32 20.1  | +01 26 57   | 249 |
| Geocentric position (AU) | -0.00982032      | -0.00256540 | -0.00114007 |     |
| 2P                       | 2000 09 12.86256 | 11 32 27.3  | +01 26 08   | 249 |
| Geocentric position (AU) | -0.00982027      | -0.00256787 | -0.00114166 |     |
| 2P                       | 2000 09 12.88758 | 11 32 40.5  | +01 24 30   | 249 |
| Geocentric position (AU) | -0.00982018      | -0.00257158 | -0.00114406 |     |
| 2P                       | 2000 09 12.90424 | 11 32 50.0  | +01 23 15   | 249 |
| Geocentric position (AU) | -0.00982013      | -0.00257405 | -0.00114565 |     |
| 2P                       | 2000 09 12.92923 | 11 33 01.3  | +01 21 07   | 249 |
| Geocentric position (AU) | -0.00982005      | -0.00257775 | -0.00114805 |     |
| 2P                       | 2000 09 12.98756 | 11 33 31.9  | +01 16 37   | 249 |
| Geocentric position (AU) | -0.00981985      | -0.00258638 | -0.00115362 |     |
| 2P                       | 2000 09 13.01256 | 11 33 44.0  | +01 15 10   | 249 |
| Geocentric position (AU) | -0.00981983      | -0.00259005 | -0.00115600 |     |
| 2P                       | 2000 09 13.07117 | 11 34 12.0  | +01 10 27   | 249 |
| Geocentric position (AU) | -0.00981962      | -0.00259869 | -0.00116159 |     |
| 2P                       | 2000 09 13.09590 | 11 34 22.0  | +01 08 59   | 249 |
| Geocentric position (AU) | -0.00981953      | -0.00260233 | -0.00116395 |     |
| 2P                       | 2000 09 13.11256 | 11 34 33.5  | +01 07 20   | 249 |
| Geocentric position (AU) | -0.00981947      | -0.00260479 | -0.00116553 |     |
| 2P                       | 2000 09 13.13756 | 11 34 43.8  | +01 06 05   | 249 |
| Geocentric position (AU) | -0.00981938      | -0.00260847 | -0.00116792 |     |
| 2P                       | 2000 09 13.15423 | 11 34 54.1  | +01 04 27   | 249 |
| Geocentric position (AU) | -0.00981932      | -0.00261092 | -0.00116950 |     |
| 2P                       | 2000 09 13.17923 | 11 35 04.5  | +01 02 36   | 249 |
| Geocentric position (AU) | -0.00981923      | -0.00261459 | -0.00117188 |     |
| 2P                       | 2000 09 13.22091 | 11 35 24.5  | +00 59 46   | 249 |
| Geocentric position (AU) | -0.00981907      | -0.00262071 | -0.00117584 |     |
| 2P                       | 2000 09 13.23758 | 11 35 33.1  | +00 58 41   | 249 |
| Geocentric position (AU) | -0.00981901      | -0.00262315 | -0.00117742 |     |
| 2P                       | 2000 09 13.26256 | 11 35 45.6  | +00 56 49   | 249 |
| Geocentric position (AU) | -0.00981891      | -0.00262681 | -0.00117980 |     |

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| 2P                       | 2000 09 13.27923 | 11 35 55.6  | +00 55 14   | 249 |
| Geocentric position (AU) | -0.00981885      | -0.00262925 | -0.00118138 |     |
| 2P                       | 2000 09 13.32105 | 11 36 13.8  | +00 52 33   | 249 |
| Geocentric position (AU) | -0.00981868      | -0.00263537 | -0.00118535 |     |
| 2P                       | 2000 09 13.34590 | 11 36 27.1  | +00 50 12   | 249 |
| Geocentric position (AU) | -0.00981859      | -0.00263901 | -0.00118770 |     |
| 2P                       | 2000 09 13.36256 | 11 36 34.5  | +00 49 10   | 249 |
| Geocentric position (AU) | -0.00981852      | -0.00264144 | -0.00118928 |     |
| 2P                       | 2000 09 13.40423 | 11 36 53.7  | +00 45 27   | 249 |
| Geocentric position (AU) | -0.00981835      | -0.00264752 | -0.00119322 |     |
| 2P                       | 2000 09 13.43076 | 11 37 09.6  | +00 43 51   | 249 |
| Geocentric position (AU) | -0.00981824      | -0.00265139 | -0.00119573 |     |
| 2P                       | 2000 09 13.44605 | 11 37 15.2  | +00 43 04   | 249 |
| Geocentric position (AU) | -0.00981818      | -0.00265362 | -0.00119718 |     |
| 2P                       | 2000 09 13.47090 | 11 37 28.0  | +00 41 17   | 249 |
| Geocentric position (AU) | -0.00981807      | -0.00265724 | -0.00119953 |     |
| 2P                       | 2000 09 13.48756 | 11 37 37.3  | +00 40 13   | 249 |
| Geocentric position (AU) | -0.00981800      | -0.00265966 | -0.00120110 |     |
| 2P                       | 2000 09 13.51256 | 11 37 49.6  | +00 37 55   | 249 |
| Geocentric position (AU) | -0.00981790      | -0.00266330 | -0.00120346 |     |
| 2P                       | 2000 09 13.52923 | 11 37 56.1  | +00 37 03   | 249 |
| Geocentric position (AU) | -0.00981783      | -0.00266572 | -0.00120504 |     |
| 2P                       | 2000 09 13.57106 | 11 38 16.2  | +00 33 26   | 249 |
| Geocentric position (AU) | -0.00981765      | -0.00267180 | -0.00120898 |     |
| 2P                       | 2000 09 13.59590 | 11 38 29.5  | +00 31 59   | 249 |
| Geocentric position (AU) | -0.00981754      | -0.00267540 | -0.00121132 |     |
| 2P                       | 2000 09 13.61258 | 11 38 37.5  | +00 30 32   | 249 |
| Geocentric position (AU) | -0.00981747      | -0.00267782 | -0.00121289 |     |
| 2P                       | 2000 09 13.63757 | 11 38 50.6  | +00 28 55   | 249 |
| Geocentric position (AU) | -0.00981736      | -0.00268144 | -0.00121525 |     |
| 2P                       | 2000 09 13.65423 | 11 38 56.7  | +00 27 47   | 249 |
| Geocentric position (AU) | -0.00981728      | -0.00268385 | -0.00121682 |     |
| 2P                       | 2000 09 13.67923 | 11 39 09.4  | +00 25 59   | 249 |
| Geocentric position (AU) | -0.00981717      | -0.00268747 | -0.00121917 |     |
| 2P                       | 2000 09 13.69591 | 11 39 18.0  | +00 24 40   | 249 |
| Geocentric position (AU) | -0.00981710      | -0.00268988 | -0.00122074 |     |
| 2P                       | 2000 09 13.72090 | 11 39 30.5  | +00 22 43   | 249 |
| Geocentric position (AU) | -0.00981698      | -0.00269349 | -0.00122308 |     |
| 2P                       | 2000 09 13.73756 | 11 39 38.2  | +00 21 24   | 249 |
| Geocentric position (AU) | -0.00981691      | -0.00269590 | -0.00122465 |     |
| 2P                       | 2000 09 13.76257 | 11 39 51.1  | +00 19 45   | 249 |
| Geocentric position (AU) | -0.00981679      | -0.00269951 | -0.00122700 |     |
| 2P                       | 2000 09 13.77923 | 11 39 58.6  | +00 18 28   | 249 |
| Geocentric position (AU) | -0.00981672      | -0.00270191 | -0.00122856 |     |
| 2P                       | 2000 09 13.82105 | 11 40 19.3  | +00 15 17   | 249 |
| Geocentric position (AU) | -0.00981652      | -0.00270794 | -0.00123248 |     |
| 2P                       | 2000 09 13.84590 | 11 40 31.7  | +00 13 28   | 249 |
| Geocentric position (AU) | -0.00981640      | -0.00271151 | -0.00123481 |     |
| 2P                       | 2000 09 13.86256 | 11 40 40.4  | +00 12 19   | 249 |
| Geocentric position (AU) | -0.00981632      | -0.00271391 | -0.00123637 |     |
| 2P                       | 2000 09 13.88757 | 11 40 53.2  | +00 10 04   | 249 |
| Geocentric position (AU) | -0.00981621      | -0.00271751 | -0.00123872 |     |

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| 2P                       | 2000 09 13.90423 | 11 40 59.2  | +00 09 20   | 249 |
| Geocentric position (AU) | -0.00981613      | -0.00271990 | -0.00124027 |     |
| 2P                       | 2000 09 13.92923 | 11 41 11.6  | +00 07 21   | 249 |
| Geocentric position (AU) | -0.00981600      | -0.00272349 | -0.00124261 |     |
| 2P                       | 2000 09 13.97100 | 11 41 33.3  | +00 04 09   | 249 |
| Geocentric position (AU) | -0.00981580      | -0.00272948 | -0.00124652 |     |
| 2P                       | 2000 09 13.98756 | 11 41 42.3  | +00 03 00   | 249 |
| Geocentric position (AU) | -0.00981572      | -0.00273186 | -0.00124807 |     |
| 2P                       | 2000 09 14.01256 | 11 41 53.1  | +00 01 31   | 249 |
| Geocentric position (AU) | -0.00981560      | -0.00273544 | -0.00125040 |     |
| 2P                       | 2000 09 14.02923 | 11 42 01.2  | +00 00 18   | 249 |
| Geocentric position (AU) | -0.00981551      | -0.00273783 | -0.00125196 |     |
| 2P                       | 2000 09 14.07090 | 11 42 22.5  | -00 02 58   | 249 |
| Geocentric position (AU) | -0.00981530      | -0.00274378 | -0.00125584 |     |
| 2P                       | 2000 09 14.09590 | 11 42 34.3  | -00 04 32   | 249 |
| Geocentric position (AU) | -0.00981518      | -0.00274736 | -0.00125817 |     |
| 2P                       | 2000 09 14.11257 | 11 42 40.8  | -00 06 03   | 249 |
| Geocentric position (AU) | -0.00981509      | -0.00274974 | -0.00125973 |     |
| 2P                       | 2000 09 14.13757 | 11 42 54.8  | -00 07 48   | 249 |
| Geocentric position (AU) | -0.00981497      | -0.00275330 | -0.00126205 |     |
| 2P                       | 2000 09 14.15423 | 11 43 02.7  | -00 09 01   | 249 |
| Geocentric position (AU) | -0.00981488      | -0.00275568 | -0.00126360 |     |
| 2P                       | 2000 09 14.17925 | 11 43 14.6  | -00 11 03   | 249 |
| Geocentric position (AU) | -0.00981475      | -0.00275925 | -0.00126593 |     |
| 2P                       | 2000 09 14.19591 | 11 43 22.8  | -00 12 00   | 249 |
| Geocentric position (AU) | -0.00981466      | -0.00276162 | -0.00126748 |     |
| 2P                       | 2000 09 14.22090 | 11 43 36.2  | -00 14 06   | 249 |
| Geocentric position (AU) | -0.00981453      | -0.00276518 | -0.00126980 |     |
| 2P                       | 2000 09 14.23756 | 11 43 42.1  | -00 15 06   | 249 |
| Geocentric position (AU) | -0.00981445      | -0.00276755 | -0.00127135 |     |
| 2P                       | 2000 09 14.26256 | 11 43 55.9  | -00 16 56   | 249 |
| Geocentric position (AU) | -0.00981432      | -0.00277110 | -0.00127367 |     |
| 2P                       | 2000 09 14.27923 | 11 44 04.5  | -00 18 09   | 249 |
| Geocentric position (AU) | -0.00981423      | -0.00277347 | -0.00127522 |     |
| 2P                       | 2000 09 14.34590 | 11 44 35.0  | -00 22 58   | 249 |
| Geocentric position (AU) | -0.00981387      | -0.00278293 | -0.00128140 |     |
| 2P                       | 2000 09 14.38758 | 11 44 56.1  | -00 25 48   | 249 |
| Geocentric position (AU) | -0.00981364      | -0.00278884 | -0.00128526 |     |
| 2P                       | 2000 09 14.40423 | 11 45 04.2  | -00 27 15   | 249 |
| Geocentric position (AU) | -0.00981355      | -0.00279120 | -0.00128681 |     |
| 2P                       | 2000 09 14.42927 | 11 45 15.1  | -00 28 47   | 249 |
| Geocentric position (AU) | -0.00981342      | -0.00279474 | -0.00128912 |     |
| 2P                       | 2000 09 14.44591 | 11 45 25.1  | -00 30 05   | 249 |
| Geocentric position (AU) | -0.00981332      | -0.00279709 | -0.00129066 |     |
| 2P                       | 2000 09 14.47090 | 11 45 36.3  | -00 31 57   | 249 |
| Geocentric position (AU) | -0.00981319      | -0.00280062 | -0.00129297 |     |
| 2P                       | 2000 09 14.48756 | 11 45 45.1  | -00 33 16   | 249 |
| Geocentric position (AU) | -0.00981309      | -0.00280298 | -0.00129451 |     |
| 2P                       | 2000 09 14.51256 | 11 45 56.4  | -00 35 00   | 249 |
| Geocentric position (AU) | -0.00981295      | -0.00280650 | -0.00129682 |     |
| 2P                       | 2000 09 14.52923 | 11 46 04.6  | -00 36 28   | 249 |
| Geocentric position (AU) | -0.00981286      | -0.00280885 | -0.00129836 |     |

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| 2P                       | 2000 09 14.57090 | 11 46 25.5  | -00 39 12   | 249 |
| Geocentric position (AU) | -0.00981262      | -0.00281473 | -0.00130220 |     |
| 2P                       | 2000 09 14.59590 | 11 46 37.0  | -00 41 03   | 249 |
| Geocentric position (AU) | -0.00981248      | -0.00281825 | -0.00130451 |     |
| 2P                       | 2000 09 14.61257 | 11 46 45.2  | -00 42 17   | 249 |
| Geocentric position (AU) | -0.00981239      | -0.00282059 | -0.00130604 |     |
| 2P                       | 2000 09 14.63756 | 11 46 57.3  | -00 44 05   | 249 |
| Geocentric position (AU) | -0.00981224      | -0.00282411 | -0.00130835 |     |
| 2P                       | 2000 09 14.65423 | 11 47 05.9  | -00 45 21   | 249 |
| Geocentric position (AU) | -0.00981215      | -0.00282645 | -0.00130988 |     |
| 2P                       | 2000 09 14.67923 | 11 47 18.1  | -00 47 04   | 249 |
| Geocentric position (AU) | -0.00981200      | -0.00282996 | -0.00131218 |     |
| 2P                       | 2000 09 14.76256 | 11 47 58.5  | -00 53 05   | 249 |
| Geocentric position (AU) | -0.00981151      | -0.00284164 | -0.00131984 |     |
| 2P                       | 2000 09 14.77923 | 11 48 06.5  | -00 54 24   | 249 |
| Geocentric position (AU) | -0.00981141      | -0.00284398 | -0.00132137 |     |
| 2P                       | 2000 09 14.82091 | 11 48 26.6  | -00 57 19   | 249 |
| Geocentric position (AU) | -0.00981116      | -0.00284981 | -0.00132519 |     |
| 2P                       | 2000 09 14.84590 | 11 48 38.5  | -00 59 17   | 249 |
| Geocentric position (AU) | -0.00981101      | -0.00285330 | -0.00132748 |     |
| 2P                       | 2000 09 14.86256 | 11 48 47.1  | -01 00 32   | 249 |
| Geocentric position (AU) | -0.00981091      | -0.00285563 | -0.00132901 |     |
| 2P                       | 2000 09 14.88758 | 11 48 58.9  | -01 02 06   | 249 |
| Geocentric position (AU) | -0.00981076      | -0.00285912 | -0.00133130 |     |
| 2P                       | 2000 09 14.90425 | 11 49 07.2  | -01 03 33   | 249 |
| Geocentric position (AU) | -0.00981066      | -0.00286145 | -0.00133283 |     |
| 2P                       | 2000 09 14.92925 | 11 49 18.8  | -01 05 07   | 249 |
| Geocentric position (AU) | -0.00981051      | -0.00286493 | -0.00133512 |     |
| 2P                       | 2000 09 14.97098 | 11 49 38.8  | -01 08 19   | 249 |
| Geocentric position (AU) | -0.00981025      | -0.00287075 | -0.00133893 |     |
| 2P                       | 2000 09 14.98756 | 11 49 48.4  | -01 09 29   | 249 |
| Geocentric position (AU) | -0.00981015      | -0.00287305 | -0.00134045 |     |
| 2P                       | 2000 09 15.01256 | 11 49 59.2  | -01 11 23   | 249 |
| Geocentric position (AU) | -0.00981000      | -0.00287653 | -0.00134273 |     |
| 2P                       | 2000 09 15.02924 | 11 50 07.2  | -01 12 35   | 249 |
| Geocentric position (AU) | -0.00980989      | -0.00287885 | -0.00134426 |     |
| 2P                       | 2000 09 15.07090 | 11 50 27.2  | -01 15 34   | 249 |
| Geocentric position (AU) | -0.00980963      | -0.00288464 | -0.00134806 |     |
| 2P                       | 2000 09 15.09591 | 11 50 39.9  | -01 17 26   | 249 |
| Geocentric position (AU) | -0.00980947      | -0.00288811 | -0.00135034 |     |
| 2P                       | 2000 09 15.11258 | 11 50 47.7  | -01 19 02   | 249 |
| Geocentric position (AU) | -0.00980937      | -0.00289042 | -0.00135186 |     |
| 2P                       | 2000 09 15.13756 | 11 51 00.2  | -01 20 22   | 249 |
| Geocentric position (AU) | -0.00980921      | -0.00289388 | -0.00135413 |     |
| 2P                       | 2000 09 15.17923 | 11 51 20.0  | -01 23 24   | 249 |
| Geocentric position (AU) | -0.00980894      | -0.00289965 | -0.00135793 |     |
| 2P                       | 2000 09 15.19590 | 11 51 27.7  | -01 24 33   | 249 |
| Geocentric position (AU) | -0.00980884      | -0.00290196 | -0.00135944 |     |
| 2P                       | 2000 09 15.22090 | 11 51 40.2  | -01 26 24   | 249 |
| Geocentric position (AU) | -0.00980868      | -0.00290541 | -0.00136172 |     |
| 2P                       | 2000 09 15.23756 | 11 51 48.6  | -01 27 38   | 249 |
| Geocentric position (AU) | -0.00980857      | -0.00290772 | -0.00136323 |     |

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| 2P                       | 2000 09 15.26256 | 11 52 00.3  | -01 29 22   | 249 |
| Geocentric position (AU) | -0.00980841      | -0.00291117 | -0.00136550 |     |
| 2P                       | 2000 09 15.27923 | 11 52 08.1  | -01 30 37   | 249 |
| Geocentric position (AU) | -0.00980830      | -0.00291347 | -0.00136702 |     |
| 2P                       | 2000 09 15.32090 | 11 52 28.7  | -01 33 29   | 249 |
| Geocentric position (AU) | -0.00980803      | -0.00291922 | -0.00137080 |     |
| 2P                       | 2000 09 15.34590 | 11 52 41.1  | -01 35 23   | 249 |
| Geocentric position (AU) | -0.00980786      | -0.00292266 | -0.00137307 |     |
| 2P                       | 2000 09 15.36258 | 11 52 49.1  | -01 36 32   | 249 |
| Geocentric position (AU) | -0.00980775      | -0.00292496 | -0.00137458 |     |
| 2P                       | 2000 09 15.38756 | 11 53 00.8  | -01 38 21   | 249 |
| Geocentric position (AU) | -0.00980759      | -0.00292840 | -0.00137684 |     |
| 2P                       | 2000 09 15.40423 | 11 53 09.1  | -01 39 37   | 249 |
| Geocentric position (AU) | -0.00980748      | -0.00293069 | -0.00137835 |     |
| 2P                       | 2000 09 15.42927 | 11 53 21.2  | -01 41 25   | 249 |
| Geocentric position (AU) | -0.00980731      | -0.00293413 | -0.00138062 |     |
| 2P                       | 2000 09 15.44590 | 11 53 29.2  | -01 42 38   | 249 |
| Geocentric position (AU) | -0.00980720      | -0.00293642 | -0.00138212 |     |
| 2P                       | 2000 09 15.47090 | 11 53 41.2  | -01 44 20   | 249 |
| Geocentric position (AU) | -0.00980703      | -0.00293985 | -0.00138439 |     |
| 2P                       | 2000 09 15.48756 | 11 53 49.3  | -01 45 42   | 249 |
| Geocentric position (AU) | -0.00980692      | -0.00294214 | -0.00138589 |     |
| 2P                       | 2000 09 15.51256 | 11 54 01.8  | -01 47 28   | 249 |
| Geocentric position (AU) | -0.00980675      | -0.00294557 | -0.00138815 |     |
| 2P                       | 2000 09 15.52923 | 11 54 08.9  | -01 48 32   | 249 |
| Geocentric position (AU) | -0.00980663      | -0.00294785 | -0.00138966 |     |
| 2P                       | 2000 09 15.57090 | 11 54 29.6  | -01 51 45   | 249 |
| Geocentric position (AU) | -0.00980635      | -0.00295356 | -0.00139342 |     |
| 2P                       | 2000 09 15.59591 | 11 54 41.2  | -01 53 20   | 249 |
| Geocentric position (AU) | -0.00980618      | -0.00295698 | -0.00139568 |     |
| 2P                       | 2000 09 15.61256 | 11 54 49.5  | -01 54 29   | 249 |
| Geocentric position (AU) | -0.00980607      | -0.00295926 | -0.00139718 |     |
| 2P                       | 2000 09 15.63757 | 11 55 02.3  | -01 56 24   | 249 |
| Geocentric position (AU) | -0.00980589      | -0.00296267 | -0.00139943 |     |
| 2P                       | 2000 09 15.65423 | 11 55 10.7  | -01 57 21   | 249 |
| Geocentric position (AU) | -0.00980578      | -0.00296495 | -0.00140093 |     |
| 2P                       | 2000 09 15.67925 | 11 55 21.1  | -01 59 04   | 249 |
| Geocentric position (AU) | -0.00980560      | -0.00296837 | -0.00140318 |     |
| 2P                       | 2000 09 15.69590 | 11 55 30.3  | -02 00 19   | 249 |
| Geocentric position (AU) | -0.00980549      | -0.00297064 | -0.00140468 |     |
| 2P                       | 2000 09 15.72090 | 11 55 41.7  | -02 02 11   | 249 |
| Geocentric position (AU) | -0.00980531      | -0.00297405 | -0.00140693 |     |
| 2P                       | 2000 09 15.73756 | 11 55 49.4  | -02 03 20   | 249 |
| Geocentric position (AU) | -0.00980520      | -0.00297632 | -0.00140843 |     |
| 2P                       | 2000 09 15.76257 | 11 56 01.8  | -02 05 25   | 249 |
| Geocentric position (AU) | -0.00980502      | -0.00297972 | -0.00141068 |     |
| 2P                       | 2000 09 15.77923 | 11 56 08.9  | -02 06 15   | 249 |
| Geocentric position (AU) | -0.00980490      | -0.00298199 | -0.00141218 |     |
| 2P                       | 2000 09 15.82090 | 11 56 29.4  | -02 08 30   | 249 |
| Geocentric position (AU) | -0.00980461      | -0.00298766 | -0.00141592 |     |
| 2P                       | 2000 09 15.86257 | 11 56 51.5  | -02 12 05   | 249 |
| Geocentric position (AU) | -0.00980431      | -0.00299332 | -0.00141966 |     |

|                          |                  |             |             |     |
|--------------------------|------------------|-------------|-------------|-----|
| 2P                       | 2000 09 15.88756 | 11 57 03.3  | -02 13 29   | 249 |
| Geocentric position (AU) | -0.00980413      | -0.00299671 | -0.00142190 |     |
| 2P                       | 2000 09 15.90423 | 11 57 11.1  | -02 15 41   | 249 |
| Geocentric position (AU) | -0.00980401      | -0.00299897 | -0.00142339 |     |
| 2P                       | 2000 09 15.92923 | 11 57 24.2  | -02 17 03   | 249 |
| Geocentric position (AU) | -0.00980383      | -0.00300236 | -0.00142563 |     |
| 2P                       | 2000 09 15.97099 | 11 57 42.6  | -02 19 43   | 249 |
| Geocentric position (AU) | -0.00980353      | -0.00300802 | -0.00142937 |     |
| 2P                       | 2000 09 15.98757 | 11 57 52.0  | -02 20 34   | 249 |
| Geocentric position (AU) | -0.00980341      | -0.00301026 | -0.00143085 |     |
| 2P                       | 2000 09 16.01256 | 11 58 02.8  | -02 22 47   | 249 |
| Geocentric position (AU) | -0.00980323      | -0.00301365 | -0.00143309 |     |
| 2P                       | 2000 09 16.02923 | 11 58 12.6  | -02 24 22   | 249 |
| Geocentric position (AU) | -0.00980311      | -0.00301590 | -0.00143458 |     |
| 2P                       | 2000 09 16.07090 | 11 58 31.8  | -02 27 27   | 249 |
| Geocentric position (AU) | -0.00980280      | -0.00302153 | -0.00143830 |     |
| 2P                       | 2000 09 16.09591 | 11 58 43.4  | -02 29 14   | 249 |
| Geocentric position (AU) | -0.00980262      | -0.00302491 | -0.00144053 |     |
| 2P                       | 2000 09 16.11258 | 11 58 51.9  | -02 30 28   | 249 |
| Geocentric position (AU) | -0.00980249      | -0.00302715 | -0.00144202 |     |
| 2P                       | 2000 09 16.13923 | 11 59 05.9  | -02 32 28   | 249 |
| Geocentric position (AU) | -0.00980229      | -0.00303075 | -0.00144440 |     |
| 2P                       | 2000 09 16.17927 | 11 59 24.5  | -02 35 19   | 249 |
| Geocentric position (AU) | -0.00980200      | -0.00303614 | -0.00144796 |     |
| 2P                       | 2000 09 16.22100 | 11 59 43.1  | -02 38 13   | 249 |
| Geocentric position (AU) | -0.00980168      | -0.00304176 | -0.00145168 |     |
| 2P                       | 2000 09 16.23759 | 11 59 51.6  | -02 39 16   | 249 |
| Geocentric position (AU) | -0.00980156      | -0.00304399 | -0.00145316 |     |
| 2P                       | 2000 09 16.26256 | 12 00 03.6  | -02 41 05   | 249 |
| Geocentric position (AU) | -0.00980137      | -0.00304734 | -0.00145538 |     |
| 2P                       | 2000 09 16.27923 | 12 00 12.8  | -02 42 25   | 249 |
| Geocentric position (AU) | -0.00980124      | -0.00304958 | -0.00145686 |     |
| 2P                       | 2000 09 16.32090 | 12 00 29.9  | -02 44 56   | 249 |
| Geocentric position (AU) | -0.00980093      | -0.00305517 | -0.00146056 |     |
| 2P                       | 2000 09 16.36257 | 12 00 51.3  | -02 48 05   | 249 |
| Geocentric position (AU) | -0.00980061      | -0.00306076 | -0.00146426 |     |
| 2P                       | 2000 09 16.40424 | 12 01 12.3  | -02 51 26   | 249 |
| Geocentric position (AU) | -0.00980029      | -0.00306634 | -0.00146796 |     |

**9P/Tempel 1**

|    |                  |             |             |        |     |
|----|------------------|-------------|-------------|--------|-----|
| 9P | 2000 10 17.19801 | 23 46 25.05 | -16 47 23.2 | 17.9 N | 697 |
| 9P | 2000 10 17.20829 | 23 46 24.66 | -16 47 22.3 | 17.7 N | 697 |
| 9P | 2000 10 17.21063 | 23 46 24.57 | -16 47 21.9 | 17.8 N | 697 |
| 9P | 2000 10 17.22652 | 23 46 23.96 | -16 47 20.3 | 17.7 N | 697 |
| 9P | 2000 10 22.85591 | 23 43 21.79 | -16 34 51.5 | 16.7 T | 046 |
| 9P | 2000 10 22.85784 | 23 43 21.76 | -16 34 51.5 |        | 046 |
| 9P | 2000 10 22.85884 | 23 43 21.70 | -16 34 50.9 |        | 046 |
| 9P | 2000 10 22.86115 | 23 43 21.67 | -16 34 50.7 |        | 046 |
| 9P | 2000 10 27.15618 | 23 41 32.94 | -16 21 40.2 | 18.5 T | 704 |
| 9P | 2000 10 27.17115 | 23 41 32.57 | -16 21 36.2 | 18.9 T | 704 |
| 9P | 2000 10 27.18520 | 23 41 32.23 | -16 21 33.8 | 19.0 T | 704 |
| 9P | 2000 10 27.19909 | 23 41 31.86 | -16 21 31.2 | 19.1 T | 704 |
| 9P | 2000 10 27.21392 | 23 41 31.50 | -16 21 28.5 | 18.9 T | 704 |

**17P/Holmes**

|     |                  |             |             |        |     |
|-----|------------------|-------------|-------------|--------|-----|
| 17P | 2000 10 06.78964 | 03 12 09.61 | +46 18 13.2 | 16.7 T | 349 |
| 17P | 2000 10 06.79950 | 03 12 09.22 | +46 18 18.1 |        | 349 |
| 17P | 2000 10 26.65538 | 02 55 14.18 | +47 55 35.8 | 16.6 T | 402 |
| 17P | 2000 10 26.65770 | 02 55 13.97 | +47 55 36.1 |        | 402 |
| 17P | 2000 10 26.66000 | 02 55 13.86 | +47 55 36.6 |        | 402 |
| 17P | 2000 10 26.69832 | 02 55 11.13 | +47 55 39.4 | 16.4 T | 900 |
| 17P | 2000 10 26.70716 | 02 55 10.81 | +47 55 39.8 |        | 900 |

**24P/Schaumasse**

|     |                  |             |             |        |     |
|-----|------------------|-------------|-------------|--------|-----|
| 24P | 2000 10 07.15716 | 02 47 15.44 | +01 32 11.6 | 20.5 T | 809 |
| 24P | 2000 10 07.16532 | 02 47 15.52 | +01 32 06.4 |        | 809 |
| 24P | 2000 10 07.18164 | 02 47 14.51 | +01 32 04.7 |        | 809 |
| 24P | 2000 10 08.14074 | 02 46 37.56 | +01 27 33.4 | 20.5 T | 809 |
| 24P | 2000 10 08.14890 | 02 46 37.22 | +01 27 31.7 |        | 809 |
| 24P | 2000 10 08.16419 | 02 46 36.60 | +01 27 27.0 |        | 809 |

**47P/Ashbrook-Jackson**

|     |                  |             |             |        |     |
|-----|------------------|-------------|-------------|--------|-----|
| 47P | 2000 10 09.55914 | 20 13 27.16 | -29 52 27.0 |        | 322 |
| 47P | 2000 10 09.57266 | 20 13 27.86 | -29 52 18.8 |        | 322 |
| 47P | 2000 10 15.42388 | 20 18 55.92 | -28 53 43.2 |        | 900 |
| 47P | 2000 10 15.43145 | 20 18 56.40 | -28 53 38.2 |        | 900 |
| 47P | 2000 10 18.10610 | 20 21 40.88 | -28 26 18.6 | 17.0 T | 704 |
| 47P | 2000 10 18.12005 | 20 21 41.77 | -28 26 10.0 | 17.1 T | 704 |
| 47P | 2000 10 18.13380 | 20 21 42.60 | -28 26 01.3 | 16.9 T | 704 |
| 47P | 2000 10 18.14798 | 20 21 43.43 | -28 25 53.0 | 17.3 T | 704 |
| 47P | 2000 10 18.16189 | 20 21 44.32 | -28 25 43.9 | 17.3 T | 704 |
| 47P | 2000 10 20.40516 | 20 24 08.94 | -28 02 30.2 | 15.5 T | 467 |
| 47P | 2000 10 20.40726 | 20 24 09.17 | -28 02 28.9 | 16.0 T | 467 |
| 47P | 2000 10 22.37145 | 20 26 20.57 | -27 42 01.9 | 15.0 T | 467 |
| 47P | 2000 10 26.50068 | 20 31 10.72 | -26 58 26.6 |        | 322 |
| 47P | 2000 10 26.51895 | 20 31 12.05 | -26 58 14.4 |        | 322 |
| 47P | 2000 10 26.54662 | 20 31 14.01 | -26 57 56.6 |        | 322 |
| 47P | 2000 10 30.45293 | 20 36 04.79 | -26 16 02.3 | 14.0 T | 900 |
| 47P | 2000 10 30.45882 | 20 36 05.20 | -26 15 58.4 |        | 900 |
| 47P | 2000 10 31.51823 | 20 37 26.50 | -26 04 24.7 |        | 322 |
| 47P | 2000 10 31.53600 | 20 37 27.85 | -26 04 13.2 |        | 322 |
| 47P | 2000 10 31.55345 | 20 37 29.18 | -26 04 01.4 |        | 322 |
| 47P | 2000 11 02.32796 | 20 39 47.99 | -25 44 36.3 | 13.6 N | 467 |
| 47P | 2000 11 02.42819 | 20 39 55.80 | -25 43 28.7 | 13.4 N | 467 |
| 47P | 2000 11 02.47608 | 20 39 59.45 | -25 42 58.2 | 13.9 N | 467 |
| 47P | 2000 11 05.38978 | 20 43 53.42 | -25 10 53.0 | 13.8 T | 349 |
| 47P | 2000 11 05.39304 | 20 43 53.75 | -25 10 51.2 |        | 349 |
| 47P | 2000 11 05.39461 | 20 43 53.77 | -25 10 50.7 |        | 349 |

**65P/Gunn**

|     |                  |             |             |        |     |
|-----|------------------|-------------|-------------|--------|-----|
| 65P | 1998 10 18.37579 | 03 40 06.41 | +15 09 47.7 | 18.5 T | 699 |
| 65P | 1998 10 18.39992 | 03 40 05.61 | +15 09 44.4 |        | 699 |
| 65P | 1998 10 18.42869 | 03 40 04.55 | +15 09 42.0 |        | 699 |
| 65P | 1998 11 11.27955 | 03 24 19.83 | +14 35 54.9 | 17.9 T | 699 |
| 65P | 1998 11 11.30920 | 03 24 18.71 | +14 35 51.8 |        | 699 |
| 65P | 1998 11 11.33333 | 03 24 17.54 | +14 35 51.8 |        | 699 |

|                            |                  |             |             |        |     |                       |                  |             |             |        |     |
|----------------------------|------------------|-------------|-------------|--------|-----|-----------------------|------------------|-------------|-------------|--------|-----|
| 73P/Schwassmann-Wachmann 3 |                  |             |             |        |     | 113P                  | 2000 10 30.25433 | 00 39 05.37 | +05 35 18.7 | 19.6 T | 704 |
| 73P                        | 2000 11 04.83421 | 13 23 52.94 | -01 45 20.4 |        | 349 | 113P                  | 2000 10 30.28420 | 00 39 04.23 | +05 35 18.7 | 19.4 T | 704 |
| 73P                        | 2000 11 04.83544 | 13 23 53.15 | -01 45 21.2 |        | 349 | 113P                  | 2000 10 30.29949 | 00 39 03.70 | +05 35 18.1 | 19.6 T | 704 |
| 73P                        | 2000 11 04.83796 | 13 23 53.61 | -01 45 24.5 | 13.2 T | 349 | 113P                  | 2000 11 02.20867 | 00 37 26.36 | +05 34 20.2 | 18.5 T | 704 |
| 73P                        | 2000 11 04.84038 | 13 23 54.04 | -01 45 27.4 |        | 349 | 113P                  | 2000 11 02.22232 | 00 37 25.94 | +05 34 19.4 | 19.3 T | 704 |
| 74P/Smirnova-Chernykh      |                  |             |             |        |     | 113P                  | 2000 11 02.23618 | 00 37 25.46 | +05 34 18.7 | 19.0 T | 704 |
| 74P                        | 1998 11 19.39814 | 03 35 35.54 | +16 02 49.7 | 16.9 T | 691 | 113P                  | 2000 11 02.24976 | 00 37 25.01 | +05 34 18.9 | 19.3 T | 704 |
| 74P                        | 1998 11 19.41995 | 03 35 34.85 | +16 02 49.0 | 17.7 T | 691 | 113P                  | 2000 11 02.26384 | 00 37 24.49 | +05 34 17.9 | 19.0 T | 704 |
| 74P                        | 1998 11 19.44905 | 03 35 33.80 | +16 02 45.1 | 18.6 T | 691 | 113P                  | 2000 11 03.53299 | 00 36 45.92 | +05 34 11.7 | 18.0 T | 360 |
| 81P/Wild 2                 |                  |             |             |        |     | 113P                  | 2000 11 03.53611 | 00 36 45.82 | +05 34 11.6 |        | 360 |
| 81P                        | 1998 08 17.15080 | 20 32 01.94 | -18 25 10.7 | 19.1 T | 704 | 116P/Wild 4           |                  |             |             |        |     |
| 81P                        | 1998 08 17.17170 | 20 32 01.03 | -18 25 16.4 | 19.2 T | 704 | 116P                  | 1998 08 31.33499 | 23 03 03.49 | -09 27 37.2 | 20.4 T | 691 |
| 81P                        | 1998 08 17.19260 | 20 32 00.24 | -18 25 19.8 | 19.2 T | 704 | 116P                  | 1998 08 31.34491 | 23 03 03.10 | -09 27 38.1 | 21.6 T | 691 |
| 81P                        | 1998 08 17.21345 | 20 31 59.30 | -18 25 24.8 | 19.3 T | 704 | 116P                  | 1998 08 31.35493 | 23 03 02.66 | -09 27 41.4 | 20.4 T | 691 |
| 97P/Metcalf-Brewington     |                  |             |             |        |     | 136P/Mueller 3        |                  |             |             |        |     |
| 97P                        | 2000 10 29.16397 | 00 02 27.88 | -02 17 32.8 | 18.8 T | 704 | 136P                  | 1998 08 17.24696 | 21 18 32.63 | -16 01 12.2 | 18.8 T | 704 |
| 97P                        | 2000 10 29.19336 | 00 02 27.42 | -02 17 48.4 | 19.5 T | 704 | 136P                  | 1998 08 17.26784 | 21 18 31.98 | -16 01 21.0 | 19.0 T | 704 |
| 97P                        | 2000 10 29.20806 | 00 02 27.14 | -02 17 55.8 | 18.9 T | 704 | 136P                  | 1998 08 17.28890 | 21 18 31.11 | -16 01 27.2 | 17.6 T | 704 |
| 97P                        | 2000 10 29.22276 | 00 02 26.98 | -02 18 03.0 | 18.5 T | 704 | 136P                  | 1998 08 17.30983 | 21 18 30.41 | -16 01 34.3 |        | 704 |
| 97P                        | 2000 11 03.49514 | 00 01 35.01 | -02 55 20.9 | 18.0 T | 360 | 136P                  | 1998 08 17.33081 | 21 18 29.46 | -16 01 40.2 |        | 704 |
| 97P                        | 2000 11 03.50000 | 00 01 34.98 | -02 55 21.8 |        | 360 | 145P/Shoemaker-Levy 5 |                  |             |             |        |     |
| 110P/Hartley 3             |                  |             |             |        |     | 145P                  | 2000 10 07.71553 | 05 37 13.52 | +31 01 03.9 | 16.3 T | 349 |
| 110P                       | 2000 10 25.37123 | 04 16 18.33 | +35 21 06.8 | 18.2 T | 704 | 145P                  | 2000 10 07.72206 | 05 37 13.86 | +31 01 06.5 |        | 349 |
| 110P                       | 2000 10 25.38540 | 04 16 17.84 | +35 21 07.6 | 19.8 T | 704 | 145P                  | 2000 10 07.72471 | 05 37 14.00 | +31 01 07.9 |        | 349 |
| 110P                       | 2000 10 25.39993 | 04 16 17.48 | +35 21 07.9 | 19.6 T | 704 | 145P                  | 2000 10 22.15669 | 05 48 59.14 | +33 20 20.6 |        | 118 |
| 110P                       | 2000 10 25.41445 | 04 16 17.07 | +35 21 07.2 | 19.1 T | 704 | 145P                  | 2000 10 22.16522 | 05 48 59.40 | +33 20 25.6 |        | 118 |
| 110P                       | 2000 10 25.42979 | 04 16 16.68 | +35 21 07.3 | 17.7 T | 704 | 145P                  | 2000 10 25.43636 | 05 50 36.75 | +33 52 21.5 | 18.0 T | 704 |
| 110P                       | 2000 10 27.74377 | 04 15 19.88 | +35 20 44.8 | 16.6 T | 903 | 145P                  | 2000 10 25.45000 | 05 50 36.97 | +33 52 29.4 | 18.1 T | 704 |
| 110P                       | 2000 10 27.75970 | 04 15 19.35 | +35 20 44.2 |        | 903 | 145P                  | 2000 10 25.46354 | 05 50 37.17 | +33 52 37.3 | 18.0 T | 704 |
| 110P                       | 2000 11 03.65451 | 04 11 39.55 | +35 13 57.6 | 16.2 T | 360 | 145P                  | 2000 10 25.47707 | 05 50 37.54 | +33 52 45.5 | 17.8 T | 704 |
| 110P                       | 2000 11 03.65781 | 04 11 39.42 | +35 13 57.3 |        | 360 | 145P                  | 2000 10 26.72256 | 05 51 07.82 | +34 04 55.2 | 16.9 T | 402 |
| 110P                       | 2000 11 04.35430 | 04 11 13.17 | +35 12 46.4 |        | 750 | 145P                  | 2000 10 26.72717 | 05 51 07.90 | +34 04 57.5 |        | 402 |
| 110P                       | 2000 11 04.37410 | 04 11 12.38 | +35 12 43.3 | 17.4 T | 750 | 145P                  | 2000 10 26.73177 | 05 51 08.03 | +34 05 00.2 |        | 402 |
| 110P                       | 2000 11 04.38209 | 04 11 12.11 | +35 12 42.5 | 17.8 T | 750 | 145P                  | 2000 10 27.69820 | 05 51 29.03 | +34 14 26.3 | 16.0 T | 900 |
| 110P                       | 2000 11 04.38685 | 04 11 11.83 | +35 12 41.8 | 17.7 T | 750 | 145P                  | 2000 10 27.71046 | 05 51 29.27 | +34 14 32.7 |        | 900 |
| 110P                       | 2000 11 04.69832 | 04 11 00.06 | +35 12 08.7 | 15.9 T | 349 | 145P                  | 2000 11 03.69288 | 05 52 51.35 | +35 22 12.4 | 17.0 T | 360 |
| 110P                       | 2000 11 04.70049 | 04 10 59.95 | +35 12 07.6 |        | 349 | 145P                  | 2000 11 03.69566 | 05 52 51.34 | +35 22 14.1 |        | 360 |
| 110P                       | 2000 11 04.70326 | 04 10 59.82 | +35 12 08.2 |        | 349 | 145P                  | 2000 11 06.32939 | 05 52 51.01 | +35 47 19.1 | 18.1 T | 704 |
| 110P                       | 2000 11 06.26320 | 04 09 58.68 | +35 09 01.4 | 16.8 T | 704 | 145P                  | 2000 11 06.34322 | 05 52 50.97 | +35 47 27.9 | 18.1 T | 704 |
| 110P                       | 2000 11 06.27751 | 04 09 57.99 | +35 08 59.5 | 17.7 T | 704 | 145P                  | 2000 11 06.35695 | 05 52 50.92 | +35 47 35.2 | 18.0 T | 704 |
| 110P                       | 2000 11 06.29225 | 04 09 57.26 | +35 08 57.4 | 17.6 T | 704 | 145P                  | 2000 11 06.37077 | 05 52 50.84 | +35 47 44.2 | 18.9 T | 704 |
| 110P                       | 2000 11 06.66398 | 04 09 42.18 | +35 08 08.6 | 15.7 T | 402 | 145P                  | 2000 11 06.38454 | 05 52 50.59 | +35 47 52.5 | 17.9 T | 704 |
| 110P                       | 2000 11 06.66630 | 04 09 42.08 | +35 08 08.6 |        | 402 | 145P                  | 2000 11 06.72295 | 05 52 49.33 | +35 51 02.7 | 16.6 T | 402 |
| 110P                       | 2000 11 06.66860 | 04 09 42.00 | +35 08 08.1 |        | 402 | 145P                  | 2000 11 06.72421 | 05 52 49.28 | +35 51 03.9 |        | 402 |
| 113P/Spitaler              |                  |             |             |        |     | 145P                  | 2000 11 06.72547 | 05 52 49.25 | +35 51 04.7 |        | 402 |
| 113P                       | 2000 10 26.25079 | 00 41 37.30 | +05 38 09.9 | 17.9 T | 704 | 146P/Shoemaker-LINEAR |                  |             |             |        |     |
| 113P                       | 2000 10 26.26479 | 00 41 36.77 | +05 38 07.4 | 18.2 T | 704 | 146P                  | 2000 11 06.39801 | 08 12 45.36 | +36 33 40.9 | 19.2 T | 704 |
| 113P                       | 2000 10 26.27874 | 00 41 36.09 | +05 38 07.8 | 17.9 T | 704 | 146P                  | 2000 11 06.41217 | 08 12 45.86 | +36 33 54.3 | 19.7 T | 704 |
| 113P                       | 2000 10 26.29298 | 00 41 35.41 | +05 38 06.8 | 18.2 T | 704 | 146P                  | 2000 11 06.43989 | 08 12 47.24 | +36 34 20.4 | 19.6 T | 704 |
| 113P                       | 2000 10 30.23905 | 00 39 05.93 | +05 35 20.3 | 19.0 T | 704 | 146P                  | 2000 11 06.76587 | 08 13 03.19 | +36 39 19.8 | 18.0 T | 402 |

|                               |                  |             |             |        |       |            |                  |             |             |        |     |
|-------------------------------|------------------|-------------|-------------|--------|-------|------------|------------------|-------------|-------------|--------|-----|
| 146P                          | 2000 11 06.76817 | 08 13 03.23 | +36 39 22.6 |        | 402   | S/2000 S 1 | 2000 09 23.42883 | 03 54 53.75 | +17 53 13.0 | 21.7 R | 568 |
| 146P                          | 2000 11 06.77279 | 08 13 02.70 | +36 39 29.2 |        | 402   | S/2000 S 1 | 2000 09 23.55431 | 03 54 53.24 | +17 53 10.5 | 21.7 R | 568 |
| <b>147P/Kushida-Muramatsu</b> |                  |             |             |        |       |            |                  |             |             |        |     |
| 147P                          | 1999 09 13.23530 | 21 50 17.32 | -15 51 38.8 |        | 695   | S/2000 S 1 | 2000 09 23.62225 | 03 54 52.96 | +17 53 09.0 |        | 568 |
| 147P                          | 1999 09 13.23966 | 21 50 17.19 | -15 51 39.5 |        | 695   | S/2000 S 1 | 2000 09 24.43323 | 03 54 49.78 | +17 52 51.3 | 21.7 R | 568 |
| 147P                          | 1999 09 13.24365 | 21 50 17.01 | -15 51 40.3 | 21.7 N | 695   | S/2000 S 1 | 2000 09 24.49743 | 03 54 49.49 | +17 52 49.9 | 21.9 R | 568 |
| 147P                          | 1999 11 13.18060 | 21 45 12.89 | -15 54 36.7 |        | 695   | S/2000 S 1 | 2000 09 24.56052 | 03 54 49.20 | +17 52 48.5 | 21.6 R | 568 |
| 147P                          | 1999 11 13.18456 | 21 45 12.98 | -15 54 35.2 |        | 695   | S/2000 S 1 | 2000 09 27.45545 | 03 54 35.14 | +17 51 38.6 |        | 693 |
| 147P                          | 1999 11 13.19155 | 21 45 13.12 | -15 54 35.3 | 21.7 N | 695   | S/2000 S 1 | 2000 09 27.47328 | 03 54 35.06 | +17 51 38.2 |        | 693 |
| 147P                          | 2000 09 26.67049 | 02 50 44.45 | +13 20 24.3 |        | 4 867 | S/2000 S 1 | 2000 09 27.47788 | 03 54 35.03 | +17 51 38.2 |        | 693 |
| 147P                          | 2000 09 26.67743 | 02 50 44.29 | +13 20 23.1 |        | 4 867 | S/2000 S 1 | 2000 09 29.35903 | 03 54 23.95 | +17 50 48.8 |        | 809 |
| 147P                          | 2000 09 26.68646 | 02 50 44.20 | +13 20 22.1 |        | 4 867 | S/2000 S 1 | 2000 09 29.37142 | 03 54 23.86 | +17 50 48.5 |        | 809 |
| 147P                          | 2000 10 03.71875 | 02 48 34.54 | +13 08 08.7 | 20.2 T | 4 867 | S/2000 S 1 | 2000 09 29.38377 | 03 54 23.78 | +17 50 48.2 |        | 809 |
| 147P                          | 2000 10 03.72778 | 02 48 34.40 | +13 08 08.3 |        | 4 867 | S/2000 S 1 | 2000 11 02.24244 | 03 47 23.32 | +17 26 15.1 |        | 695 |
| 147P                          | 2000 10 03.75347 | 02 48 33.71 | +13 08 03.9 |        | 4 867 | S/2000 S 1 | 2000 11 02.24652 | 03 47 23.24 | +17 26 14.9 |        | 695 |
| 147P                          | 2000 10 03.76181 | 02 48 33.40 | +13 08 05.2 |        | 4 867 | S/2000 S 1 | 2000 11 03.29015 | 03 47 05.13 | +17 25 17.4 |        | 695 |
| 147P                          | 2000 10 04.75243 | 02 48 10.29 | +13 05 59.8 | 21.4 T | 4 867 | S/2000 S 1 | 2000 11 03.29424 | 03 47 05.06 | +17 25 17.2 |        | 695 |
| 147P                          | 2000 10 04.76458 | 02 48 09.84 | +13 05 59.0 |        | 4 867 | S/2000 S 2 | 2000 08 07.40252 | 03 50 12.75 | +17 53 24.7 | 21.5 R | 809 |
| 147P                          | 2000 10 04.77118 | 02 48 09.79 | +13 05 59.9 |        | 4 867 | S/2000 S 2 | 2000 08 07.41462 | 03 50 12.91 | +17 53 25.3 | 21.4 R | 809 |
| 147P                          | 2000 10 04.78542 | 02 48 09.33 | +13 05 56.0 |        | 4 867 | S/2000 S 2 | 2000 08 07.42623 | 03 50 13.06 | +17 53 25.7 | 21.6 R | 809 |
| 147P                          | 2000 10 08.17703 | 02 46 41.23 | +12 58 29.6 | 21.0 T | 809   | S/2000 S 2 | 2000 09 23.42883 | 03 54 00.75 | +18 07 27.1 | 21.4 R | 568 |
| 147P                          | 2000 10 08.18517 | 02 46 41.00 | +12 58 28.4 |        | 809   | S/2000 S 2 | 2000 09 23.48554 | 03 54 00.44 | +18 07 26.5 | 21.3 R | 568 |
| 147P                          | 2000 10 08.19333 | 02 46 40.75 | +12 58 27.1 |        | 809   | S/2000 S 2 | 2000 09 23.55431 | 03 54 00.06 | +18 07 25.8 | 21.3 R | 568 |
|                               |                  |             |             |        |       | S/2000 S 2 | 2000 09 24.43323 | 03 53 55.38 | +18 07 15.5 | 21.3 R | 568 |
|                               |                  |             |             |        |       | S/2000 S 2 | 2000 09 24.49743 | 03 53 55.00 | +18 07 14.8 | 21.2 R | 568 |
|                               |                  |             |             |        |       | S/2000 S 2 | 2000 09 24.56052 | 03 53 54.62 | +18 07 14.1 | 21.2 R | 568 |
|                               |                  |             |             |        |       | S/2000 S 2 | 2000 10 23.43509 | 03 48 32.52 | +17 54 01.2 |        | 675 |
|                               |                  |             |             |        |       | S/2000 S 2 | 2000 10 23.44048 | 03 48 32.46 | +17 54 01.0 |        | 675 |
|                               |                  |             |             |        |       | S/2000 S 2 | 2000 10 23.45110 | 03 48 32.27 | +17 54 00.5 | 21 R   | 675 |
|                               |                  |             |             |        |       | S/2000 S 2 | 2000 11 02.22572 | 03 45 45.07 | +17 46 55.4 |        | 695 |
|                               |                  |             |             |        |       | S/2000 S 2 | 2000 11 02.22806 | 03 45 45.02 | +17 46 55.7 |        | 695 |
|                               |                  |             |             |        |       | S/2000 S 2 | 2000 11 02.23020 | 03 45 44.96 | +17 46 55.1 |        | 695 |
|                               |                  |             |             |        |       | S/2000 S 2 | 2000 11 02.23719 | 03 45 44.84 | +17 46 55.0 |        | 695 |
|                               |                  |             |             |        |       | S/2000 S 2 | 2000 11 03.28076 | 03 45 25.84 | +17 46 07.1 |        | 695 |
|                               |                  |             |             |        |       | S/2000 S 2 | 2000 11 03.28486 | 03 45 25.77 | +17 46 06.7 |        | 695 |
|                               |                  |             |             |        |       | S/2000 S 3 | 2000 09 23.42332 | 03 56 03.73 | +17 47 58.3 | 20.1 R | 568 |
|                               |                  |             |             |        |       | S/2000 S 3 | 2000 09 23.54753 | 03 56 03.17 | +17 47 57.5 | 20.1 R | 568 |
|                               |                  |             |             |        |       | S/2000 S 3 | 2000 09 23.61663 | 03 56 02.86 | +17 47 56.9 | 20.1 R | 568 |
|                               |                  |             |             |        |       | S/2000 S 3 | 2000 09 24.42582 | 03 55 59.51 | +17 47 50.2 | 20.2 R | 568 |
|                               |                  |             |             |        |       | S/2000 S 3 | 2000 09 24.49186 | 03 55 59.19 | +17 47 49.7 | 20.0 R | 568 |
|                               |                  |             |             |        |       | S/2000 S 3 | 2000 09 24.55453 | 03 55 58.88 | +17 47 49.2 | 20.0 R | 568 |
|                               |                  |             |             |        |       | S/2000 S 3 | 2000 09 25.40208 | 03 55 55.00 | +17 47 40.8 |        | 697 |
|                               |                  |             |             |        |       | S/2000 S 3 | 2000 09 25.47222 | 03 55 54.57 | +17 47 40.1 |        | 697 |
|                               |                  |             |             |        |       | S/2000 S 3 | 2000 09 27.43747 | 03 55 44.17 | +17 47 18.2 |        | 693 |
|                               |                  |             |             |        |       | S/2000 S 3 | 2000 09 27.46437 | 03 55 44.01 | +17 47 17.9 |        | 693 |
|                               |                  |             |             |        |       | S/2000 S 3 | 2000 09 27.46891 | 03 55 43.98 | +17 47 17.8 |        | 693 |
|                               |                  |             |             |        |       | S/2000 S 3 | 2000 09 29.30844 | 03 55 32.77 | +17 46 55.5 |        | 809 |
|                               |                  |             |             |        |       | S/2000 S 3 | 2000 09 29.31460 | 03 55 32.72 | +17 46 55.4 |        | 809 |
|                               |                  |             |             |        |       | S/2000 S 3 | 2000 09 29.32052 | 03 55 32.69 | +17 46 55.3 |        | 809 |
|                               |                  |             |             |        |       | S/2000 S 4 | 2000 09 23.42883 | 03 56 00.48 | +17 55 14.5 | 22.4 R | 568 |
|                               |                  |             |             |        |       | S/2000 S 4 | 2000 09 23.55431 | 03 56 00.04 | +17 55 12.1 | 22.3 R | 568 |
|                               |                  |             |             |        |       | S/2000 S 4 | 2000 09 23.62225 | 03 55 59.79 | +17 55 10.8 | 22.3 R | 568 |
|                               |                  |             |             |        |       | S/2000 S 4 | 2000 09 24.43323 | 03 55 57.04 | +17 54 54.6 | 22.4 R | 568 |
|                               |                  |             |             |        |       | S/2000 S 4 | 2000 09 24.49743 | 03 55 56.79 | +17 54 53.4 | 22.3 R | 568 |

Note 1: predisccovery observation. 2: involved with star. 3: poor image. 4: very faint image.

## OBSERVATIONS OF NATURAL SATELLITES

Observations are published here for the following observatory codes:

- 511 Haute Provence. 1.20-m  $f/6.0$  reflector + CCD. Observers J. E. Arlot, T. Irmambetova. Measurer N. Baron.
- 568 Mauna Kea. 3.6 CFHT + CCD. Observers B. Gladman, J. Kavelaars.
- 691 Spacewatch. 0.9-m Spacewatch telescope. Observer J. A. Larsen.
- 693 Catalina. 1.54-m reflector + CCD. Observers C. W. Hergenrother, S. M. Larson. Measurer B. Gladman.
- 697 McGraw-Hill. 2.4-m MDM + CCD. Observer R. L. Allen, T. Rigg.
- 704 Lincoln Laboratory Experimental Test System, New Mexico. 1.0-m  $f/2.15$  reflector + CCD. Observers M. Blythe, F. Shelly, M. Bezpalko, M. Elowitz, R. Huber. Measurers J. Stuart, R. Sayer, J. B. Evans, H. Viggh.
- 739 Sunflower Observatory, Olathe. 0.30-m Schmidt-Cassegrain + CCD. Observer L. Robinson.
- 809 European Southern Observatory, La Silla. 3.5-m NTT + CCD. Observer A. Doressoundiram, J. Romon. Measurer B. Gladman.
- 919 Desert Beaver Observatory. 0.45-m reflector + CCD. Observer W. K. Yeung.

| Object     | Date             | UT | $\alpha_{2000}$ | $\delta_{2000}$ | Mag.   | N Obs. |  |  |  |  |  |
|------------|------------------|----|-----------------|-----------------|--------|--------|--|--|--|--|--|
| S/1999 J 1 | 2000 11 03.37937 |    | 04 25 29.59     | +19 15 52.7     | 20.7 V | 691    |  |  |  |  |  |
| S/1999 J 1 | 2000 11 03.41151 |    | 04 25 28.68     | +19 15 50.3     | 21.2 V | 691    |  |  |  |  |  |
| S/1999 J 1 | 2000 11 03.43350 |    | 04 25 28.05     | +19 15 49.2     | 21.9 V | 691    |  |  |  |  |  |
| S/2000 S 1 | 2000 08 07.40252 |    | 03 49 49.35     | +17 46 16.0     | 22.0 R | 809    |  |  |  |  |  |
| S/2000 S 1 | 2000 08 07.41462 |    | 03 49 49.53     | +17 46 16.3     | 21.8 R | 809    |  |  |  |  |  |
| S/2000 S 1 | 2000 08 07.42623 |    | 03 49 49.73     | +17 46 17.0     | 22.2 R | 809    |  |  |  |  |  |

|              |                  |             |             |        |       |
|--------------|------------------|-------------|-------------|--------|-------|
| S/2000 S 4   | 2000 09 24.56052 | 03 55 56.54 | +17 54 52.2 | 22.3 R | 568   |
| S/2000 S 4   | 2000 09 27.48204 | 03 55 44.21 | +17 53 50.9 |        | 693   |
| S/2000 S 4   | 2000 09 27.49033 | 03 55 44.18 | +17 53 50.8 |        | 693   |
| S/2000 S 4   | 2000 09 27.49870 | 03 55 44.12 | +17 53 50.9 |        | 693   |
| Jupiter VI   | 2000 10 26.39191 | 04 37 54.96 | +21 40 06.5 | 15.3   | 704   |
| Jupiter VI   | 2000 10 26.40603 | 04 37 54.56 | +21 40 05.7 | 15.5   | 704   |
| Jupiter VI   | 2000 10 26.42050 | 04 37 54.20 | +21 40 04.3 | 15.9   | 704   |
| Jupiter VI   | 2000 11 02.28723 | 04 34 57.24 | +21 32 12.9 | 14.9   | 704   |
| Jupiter VI   | 2000 11 02.30086 | 04 34 56.82 | +21 32 11.9 | 15.8   | 704   |
| Jupiter VI   | 2000 11 02.31441 | 04 34 56.44 | +21 32 10.9 | 15.4   | 704   |
| Jupiter VI   | 2000 11 02.32797 | 04 34 56.02 | +21 32 09.9 | 15.4   | 704   |
| Jupiter VI   | 2000 11 02.34155 | 04 34 55.62 | +21 32 08.9 | 15.6   | 704   |
| Jupiter VII  | 2000 10 19.40407 | 04 34 08.87 | +21 01 09.2 | 17.0   | S 919 |
| Jupiter VII  | 2000 10 19.48419 | 04 34 07.01 | +21 01 01.2 | 16.8   | S 919 |
| Jupiter VII  | 2000 10 20.16425 | 04 33 51.81 | +20 59 53.7 | 16.3 V | 739   |
| Jupiter VII  | 2000 10 20.17123 | 04 33 51.62 | +20 59 53.1 | 16.3 V | 739   |
| Jupiter VII  | 2000 10 20.17493 | 04 33 51.54 | +20 59 52.6 |        | 739   |
| Jupiter VII  | 2000 10 20.18094 | 04 33 51.47 | +20 59 52.5 |        | 739   |
| Jupiter VII  | 2000 11 02.28642 | 04 28 00.53 | +20 35 26.8 | 17.2   | 704   |
| Jupiter VII  | 2000 11 02.30005 | 04 28 00.15 | +20 35 25.0 | 17.5   | 704   |
| Jupiter VII  | 2000 11 02.31360 | 04 27 59.72 | +20 35 24.6 | 17.8   | 704   |
| Jupiter VII  | 2000 11 02.32716 | 04 27 59.28 | +20 35 22.3 | 17.6   | 704   |
| Jupiter VII  | 2000 11 02.34074 | 04 27 58.83 | +20 35 21.0 | 17.7   | 704   |
| Jupiter VIII | 2000 11 02.28642 | 04 27 53.52 | +19 29 57.6 | 16.8   | 704   |
| Jupiter VIII | 2000 11 02.30005 | 04 27 53.05 | +19 29 56.7 | 17.3   | 704   |
| Jupiter VIII | 2000 11 02.31360 | 04 27 52.60 | +19 29 55.4 | 17.3   | 704   |
| Jupiter VIII | 2000 11 02.32716 | 04 27 52.20 | +19 29 54.4 | 17.0   | 704   |
| Jupiter VIII | 2000 11 02.34074 | 04 27 51.78 | +19 29 53.2 | 17.5   | 704   |
| Jupiter IX   | 2000 10 24.40312 | 04 31 11.72 | +20 08 43.7 | 19.0   | 704   |
| Jupiter IX   | 2000 10 24.42995 | 04 31 11.05 | +20 08 42.1 | 19.3   | 704   |
| Jupiter IX   | 2000 10 24.44339 | 04 31 10.73 | +20 08 40.9 | 19.5   | 704   |
| Jupiter IX   | 2000 10 24.45683 | 04 31 10.35 | +20 08 39.8 | 19.2   | 704   |
| Jupiter XII  | 2000 10 24.40523 | 04 42 57.56 | +21 00 49.0 | 18.7   | 704   |
| Jupiter XII  | 2000 10 24.41864 | 04 42 57.40 | +21 00 48.5 | 19.2   | 704   |
| Jupiter XII  | 2000 10 24.43207 | 04 42 57.08 | +21 00 46.8 | 19.1   | 704   |
| Jupiter XII  | 2000 10 24.44551 | 04 42 56.92 | +21 00 46.7 | 19.1   | 704   |
| Jupiter XII  | 2000 10 24.45895 | 04 42 56.71 | +21 00 46.2 | 19.5   | 704   |
| Saturn IX    | 2000 10 24.39867 | 03 50 01.35 | +17 40 58.2 | 16.6   | 704   |
| Saturn IX    | 2000 10 24.41208 | 03 50 01.08 | +17 40 57.4 | 17.1   | 704   |
| Saturn IX    | 2000 10 24.42550 | 03 50 00.88 | +17 40 57.0 | 17.3   | 704   |
| Saturn IX    | 2000 10 24.43894 | 03 50 00.61 | +17 40 55.5 | 17.2   | 704   |
| Saturn IX    | 2000 10 24.45237 | 03 50 00.36 | +17 40 55.1 | 17.1   | 704   |
| Saturn IX    | 2000 11 02.28274 | 03 47 17.05 | +17 31 34.0 | 18.3   | 704   |
| Saturn IX    | 2000 11 02.29636 | 03 47 16.75 | +17 31 33.1 | 18.6   | 704   |
| Saturn IX    | 2000 11 02.30991 | 03 47 16.48 | +17 31 32.0 | 18.8   | 704   |
| Saturn IX    | 2000 11 02.32346 | 03 47 16.21 | +17 31 31.2 | 18.8   | 704   |
| Saturn IX    | 2000 11 02.33704 | 03 47 15.90 | +17 31 29.7 | 18.6   | 704   |

## OBSERVATIONS OF MINOR PLANETS

The summary lists, for each observatory code, the designation of each object observed (an asterisk signifying a new discovery), with three numbers indicating the number of observations, the number of different nights on which the object was

observed and the arc (in days) covered by the observations; at the end of each observatory listing there is a count of the total number of observations, of the number of objects and of the number of discoveries followed by an asterisk, together with the total range of dates covered by the observations.

**010 Caussols**

E. W. Elst, Observatoire Royal de Belgique, Avenue Circulaire 3, B-1180 Brussels, Belgium [ericelst@ksb-orb.oma.be] (1)

M. Scardia, Osservatorio Astronomico di Brera, Succursale di S. Rocco, via E. Bianchi 46, I-22055 Merate, Italy [scardia@merate.mi.astro.it] (3)

Observers C. Pollas, D. Albanese, M. Scardia

Measurers E. W. Elst, M. Scardia

0.9-m Schmidt telescope

{1} 1993 BE<sub>1</sub>, 3, 1, 0; 1993 PR<sub>3</sub>, 3, 1, 0; 1993 QK<sub>1</sub>, 3, 1, 0; 1995 SD<sub>19</sub>, 3, 1, 0; 1999 RV<sub>38</sub>, 2, 1, 0; 1999 RR<sub>42</sub>, 3, 1, 0; 1999 RY<sub>116</sub>, 3, 1, 0; 1999 TG<sub>214</sub>, 3, 1, 0; 1999 VE<sub>114</sub>, 3, 1, 0; 1999 XJ<sub>33</sub>, 3, 1, 0; 2000 DE<sub>2</sub>, 3, 1, 0; 2000 EX<sub>24</sub>, 3, 1, 0; 2000 ER<sub>41</sub>, 3, 1, 0; 2000 ER<sub>137</sub>, 3, 1, 0; 2000 GQ<sub>161</sub>, 3, 1, 0; 2000 HH<sub>32</sub>, 3, 1, 0; 2000 OU<sub>54</sub>, 3, 1, 0; 2000 QS<sub>29</sub>, 2, 1, 0; 2000 QN<sub>173</sub>, 3, 1, 0; 2000 RO<sub>46</sub>, 2, 1, 0; 2000 SD<sub>95</sub>, 3, 1, 0; 2000 SV<sub>229</sub>, 5, 2, 1; 2140 T-2, 3, 1, 0; [68, 23, 0\*, 1992/10/23-1996/02/17]

{3} 2000 TP<sub>58</sub>, 3, 1, 0; [3, 1, 0\*, 1994/01/17]

**012 Uccle**

E. W. Elst, Koninklijke Sterrenwacht van België, Ringlaan 3, B-1180 Brussels, Belgium [Eric.Elst@oma.be] (1)

T. Pauwels, Koninklijke Sterrenwacht van België, Ringlaan 3, B-1180 Brussels, Belgium [Thierry.Pauwels@oma.be] (2)

Observers E. W. Elst, T. Pauwels, H. Debehogne

Measurers E. W. Elst, T. Pauwels

0.85-m  $f/2.5$  Schmidt + CCD

GSC-1.2

{1} 1999 VJ<sub>161</sub>, 2, 1, 0; [2, 1, 0\*, 1999/11/14]

{2} 2000 CS<sub>56</sub>, 3, 1, 0; 2000 DC<sub>102</sub>, 3, 1, 0; 2000 FK<sub>27</sub>, 3, 1, 0; [9, 3, 0\*, 1997/10/22-2000/02/03]

**033 Tautenburg**

F. Börngen, Thüringer Landessternwarte, Sternwarte 5, D-07778 Tautenburg, Germany [boerg@tls-tautenburg.de]

Observer F. Börngen

Measurers F. Börngen, A. Gnädig

1.3-m Schmidt telescope

PPM

1997 VL<sub>8</sub>, 2, 1, 0; 1998 DC<sub>13</sub>, 2, 1, 0; 2000 LQ<sub>27</sub>, 2, 1, 0; 2000 NM<sub>13</sub>, 2, 1, 0; 2000 OQ<sub>37</sub>, 2, 1, 0; 2000 RS<sub>2</sub>, 2, 1, 0; 2000 RP<sub>51</sub>, 2, 1, 0; 2000 SE<sub>271</sub>, 2, 1, 0; 2000 ST<sub>339</sub>, 2, 1, 0; 2000 TX<sub>36</sub>, 2, 1, 0; 7637 P-L, 2, 1, 0; [22, 11, 0\*, 1993/11/12-1995/10/25]

**046 Kleť**

J. Tichá, Hvězdárna Kleť, Zátково nábreží 4, CZ-37001 České Budějovice, Czech Republic [klet@klet.cz]

Observers J. Tichá, M. Tichý, Z. Moravec, P. Jelínek, M. Kočer

Measurers M. Tichý, Z. Moravec

0.57-m  $f/5.2$  reflector + CCD

USNO-A2.0

GA CR 205/98/0266

1979 PA, 6, 2, 1; 1979 UR, 6, 2, 1; 1980 PU, 4, 1, 0; 1984 SB<sub>2</sub>, 6, 2, 1; 1985 UR, 7, 2, 1; 1985 UU, 10, 3, 14; 1986 TH<sub>3</sub>, 6, 2, 5; 1988 AL<sub>1</sub>, 6, 2, 1; 1989 UP<sub>4</sub>, 3, 1, 0; 1992 ET<sub>15</sub>, 5, 1, 0; 1995 ES, 6, 2, 1; 1996 AH<sub>1</sub>, 7, 2, 1; 1996 LK<sub>1</sub>, 4, 1, 0; 1996 TR<sub>6</sub>, 4, 1, 0; 1996 VU<sub>6</sub>, 6, 2, 1; 1996 XN<sub>2</sub>, 4, 1,

0; 1996 XQ<sub>13</sub>, 6, 2, 1; 1997 AY<sub>14</sub>, 4, 1, 0; 1997 AN<sub>16</sub>, 7, 2, 1; 1997 CW<sub>5</sub>, 8, 2, 1; 1997 GH<sub>3</sub>, 5, 1, 0; 1997 JZ<sub>15</sub>, 5, 1, 0; 1998 AA<sub>10</sub>, 6, 2, 1; 1998 BP<sub>10</sub>, 7, 2, 1; 1998 BL<sub>30</sub>, 8, 2, 1; 1998 CY<sub>7</sub>, 7, 2, 1; 1998 DR<sub>5</sub>, 2, 1; 1998 DZ<sub>9</sub>, 3, 14; 1998 FF<sub>12</sub>, 6, 2, 1; 1998 FT<sub>102</sub>, 4, 1, 0; 1998 FK<sub>105</sub>, 3, 1, 0; 1998 UN<sub>1</sub>, 11, 2, 1; 1999 AD<sub>32</sub>, 3, 1, 0; 1999 OX<sub>6</sub>, 6, 2, 1; 1999 PV<sub>6</sub>, 6, 2, 1; 1999 RB<sub>28</sub>, 6, 2, 1; 1999 TC<sub>36</sub>, 2, 1, 0; 1999 UG<sub>5</sub>, 4, 1, 0; 2000 DM<sub>1</sub>, 11, 2, 8; 2000 DP<sub>107</sub>, 4, 1, 0; 2000 EA<sub>107</sub>, 13, 2, 4; 2000 EZ<sub>148</sub>, 4, 1, 0; 2000 GK<sub>137</sub>, 4, 1, 0; 2000 GJ<sub>147</sub>, 9, 2, 1; 2000 LM<sub>9</sub>, 2, 11; 2000 NF<sub>5</sub>, 4, 1, 0; 2000 OG<sub>8</sub>, 7, 2, 12; 2000 OJ<sub>8</sub>, 13, 3, 14; 2000 QS<sub>26</sub>, 3, 1, 0; 2000 QG<sub>66</sub>, 3, 1, 0; 2000 QZ<sub>120</sub>, 4, 1, 0; 2000 QN<sub>130</sub>, 4, 1, 0; 2000 RB<sub>4</sub>, 3, 1, 0; 2000 RT<sub>71</sub>, 7, 2, 1; 2000 RT<sub>78</sub>, 4, 1, 0; 2000 SL<sub>5</sub>, 1, 0; 2000 SB<sub>1</sub>, 11, 2, 4; 2000 SB<sub>8</sub>, 4, 1, 0; 2000 SA<sub>10</sub>, 8, 2, 13; 2000 ST<sub>20</sub>, 4, 1, 0; 2000 SV<sub>20</sub>, 10, 3, 10; 2000 SB<sub>25</sub>, 5, 1, 0; 2000 SP<sub>43</sub>, 18, 4, 11; 2000 SQ<sub>43</sub>, 3, 1, 0; 2000 SZ<sub>44</sub>, 8, 2, 14; 2000 SE<sub>45</sub>, 4, 1, 0; 2000 SS<sub>72</sub>, 3, 1, 0; 2000 SR<sub>87</sub>, 3, 1, 0; 2000 SC<sub>141</sub>, 3, 1, 0; 2000 SY<sub>162</sub>, 5, 1, 0; 2000 SN<sub>170</sub>, 6, 2, 1; 2000 SU<sub>180</sub>, 10, 2, 6; 2000 SO<sub>187</sub>, 4, 1, 0; 2000 SG<sub>192</sub>, 4, 1, 0; 2000 SP<sub>213</sub>, 16, 2, 1; 2000 SF<sub>291</sub>, 14, 2, 6; 2000 SZ<sub>298</sub>, 7, 2, 1; 2000 SM<sub>309</sub>, 4, 1, 0; 2000 TH<sub>1</sub>, 3, 1, 0; 2000 TK<sub>1</sub>, 4, 1, 0; 2000 TG<sub>2</sub>, 4, 1, 0; 2000 TU<sub>28</sub>, 5, 1, 0; 2000 TV<sub>33</sub>, 4, 1, 0; 2000 TO<sub>64</sub>, 19, 3, 19; 2000 UH<sub>1</sub>, 13, 3, 16; 2000 UJ<sub>1</sub>, 16, 3, 16; 2000 UU<sub>1</sub> \*, 10, 2, 1; 2000 UV<sub>1</sub> \*, 13, 3, 6; 2000 UG<sub>11</sub>, 9, 2, 8; 2000 UH<sub>11</sub>, 6, 1, 0; 2000 UJ<sub>11</sub>, 5, 1, 0; 2000 UL<sub>11</sub>, 9, 2, 8; 2000 UO<sub>13</sub> \*, 9, 2, 5; 2000 UV<sub>13</sub>, 10, 2, 5; 2000 UW<sub>13</sub>, 7, 2, 8; 2000 UR<sub>16</sub>, 5, 2, 1; 2000 US<sub>16</sub>, 5, 1, 0; 2000 UT<sub>16</sub>, 9, 2, 7; 2000 UO<sub>16</sub>, 6, 1, 0; 2000 UF<sub>29</sub>, 4, 1, 0; 2000 UL<sub>30</sub>, 4, 1, 0; 2000 UN<sub>30</sub>, 11, 3, 7; 2000 UO<sub>30</sub>, 5, 1, 0; 2000 UP<sub>30</sub>, 8, 2, 4; 2000 UQ<sub>30</sub>, 9, 2, 4; 2000 UY<sub>33</sub>, 7, 1, 0; 2000 UB<sub>52</sub>, 6, 1, 0; 2000 UE<sub>110</sub>, 15, 3, 7; 2000 VM<sub>2</sub>, 5, 1, 0; 2000 VN<sub>2</sub>, 5, 1, 0; 2000 VL<sub>38</sub>, 5, 1, 0; 2000 VF<sub>39</sub>, 6, 1, 0; 2000 VG<sub>39</sub>, 4, 1, 0; 2000 VH<sub>39</sub>, 10, 2, 1; 2000 VA<sub>45</sub>, 5, 1, 0; 2000 VO<sub>47</sub>, 4, 1, 0; (433), 6, 2, 13; (11244), 3, 1, 0; (17404), 4, 1, 0; (17921), 4, 1, 0; (18225), 3, 1, 0; [787, 121, 3\*, 1994/11/24–2000/11/06]

#### 049 Kvistaberg

C.-I. Lagerkvist, Uppsala Astronomical Observatory, Box 515, S-751 20 Uppsala, Sweden [classe@astro.uu.se]

G. Hahn, DLR - Institute Space Sensor Technology and of Planetary Exploration, Rutherfordstrasse 2, D-12489 Berlin, Germany [Gerhard.Hahn@DLR.de]

Observers T. Oja, O. Karlsson, C.-I. Lagerkvist, J. Warell, B. Davidsson

Measurers J. Warell, C.-I. Lagerkvist, A. Erikson, G. Hahn, S. Mottola

1.0m Schmidt + CCD

USNO-SA2.0

1988 RC<sub>5</sub>, 5, 1, 0; 1990 RK<sub>5</sub>, 3, 1, 0; 1994 PK<sub>39</sub>, 3, 1, 0; 1995 KJ<sub>3</sub>, 3, 1, 0; 1995 XB<sub>1</sub>, 3, 1, 0; 1996 YD<sub>3</sub>, 3, 1, 0; 1998 BT<sub>6</sub>, 3, 1, 0; 1998 DB<sub>7</sub>, 3, 1, 0; 1998 FL<sub>18</sub>, 3, 1, 0; 1998 FP<sub>42</sub>, 3, 1, 0; 1998 UC<sub>20</sub>, 3, 1, 0; 1999 FT<sub>29</sub>, 3, 1, 0; 1999 GZ<sub>45</sub>, 3, 1, 0; 1999 JD<sub>22</sub>, 3, 1, 0; 1999 JN<sub>37</sub>, 3, 1, 0; 1999 JL<sub>45</sub>, 3, 1, 0; 2000 MV<sub>5</sub>, 5, 1, 0; 2000 OO<sub>47</sub>, 3, 1, 0; 2000 OW<sub>53</sub>, 3, 1, 0; 2000 QQ<sub>224</sub>, 3, 1, 0; 2000 RS<sub>6</sub>, 3, 1, 0; 2000 RX<sub>7</sub>, 3, 1, 0; 2000 RZ<sub>7</sub>, 3, 1, 0; 2000 RQ<sub>19</sub>, 3, 1, 0; 2000 RU<sub>23</sub>, 3, 1, 0; 2000 RM<sub>27</sub>, 3, 1, 0; 2000 RE<sub>32</sub>, 3, 1, 0; 2000 RK<sub>45</sub>, 3, 1, 0; 2000 RS<sub>68</sub>, 3, 1, 0; 2000 RE<sub>78</sub>, 3, 1, 0; 2000 RS<sub>92</sub>, 3, 1, 0; 2000 RY<sub>102</sub>, 3, 1, 0; 2000 SH<sub>15</sub>, 3, 1, 0; 2000 SK<sub>43</sub>, 3, 1, 0; 2000 SO<sub>45</sub>, 3, 1, 0; 2000 SE<sub>48</sub>, 3, 1, 0; 2000 SF<sub>48</sub>, 3, 1, 0; 2000 SN<sub>67</sub>, 3, 1, 0; 2000 SD<sub>68</sub>, 3, 1, 0; 2000 SL<sub>85</sub>, 3, 1, 0; 2000 SC<sub>86</sub>, 3, 1, 0; 2000 SO<sub>86</sub>, 3, 1, 0; 2000 SQ<sub>86</sub>, 3, 1, 0; 2000 SF<sub>88</sub>, 3, 1, 0; 2000 SW<sub>94</sub>, 3, 1, 0; 2000 SC<sub>98</sub>, 3, 1, 0; 2000 SF<sub>99</sub>, 3, 1, 0; 2000 SK<sub>99</sub>, 3, 1, 0; 2000 SP<sub>99</sub>, 3, 1, 0; 2000 SL<sub>102</sub>, 3, 1, 0; 2000 SN<sub>102</sub>, 3, 1, 0; 2000 SW<sub>121</sub>, 3, 1, 0; 2000 SM<sub>122</sub>, 3, 1, 0; 2000 SV<sub>128</sub>, 3, 1, 0; 2000 SP<sub>129</sub>, 3, 1, 0; 2000 SR<sub>129</sub>, 5, 1, 0; 2000 SX<sub>129</sub>, 3, 1, 0; 2000 SO<sub>154</sub>, 3, 1, 0; 2000 SR<sub>178</sub>, 3, 1, 0; 2000 SU<sub>199</sub>, 3, 1, 0; 2000 SD<sub>231</sub>, 3, 1, 0; 2000 SX<sub>235</sub>, 3, 1, 0; 2000 SG<sub>252</sub>, 3, 1, 0; 2000 SB<sub>253</sub>, 3, 1, 0; 2000 SS<sub>258</sub>, 3, 1, 0; 2000 SZ<sub>260</sub>, 3, 1, 0; 2000 SJ<sub>261</sub>, 3, 1, 0; 2000 SR<sub>268</sub>, 3, 1, 0; 2000 SB<sub>277</sub>, 3, 1, 0; 2000 SQ<sub>288</sub>, 3, 1, 0; 2000 SP<sub>299</sub>, 3, 1, 0; 2000 SR<sub>299</sub>, 3, 1, 0; 2000 SB<sub>300</sub>, 3, 1, 0; 2000 SC<sub>300</sub>, 3, 1, 0; 2000 SX<sub>327</sub>, 3, 1, 0; 2000 SS<sub>328</sub>, 3, 1, 0; 2000 SA<sub>329</sub>, 3, 1, 0; 2000 SB<sub>337</sub> \*, 3, 1, 0; 2000 SW<sub>343</sub>, 3, 1, 0; 2000 UN<sub>3</sub>, 3, 1, 0; 2000 UG<sub>3</sub>, 3, 1, 0; 2000 UP<sub>6</sub>, 3, 1, 0; 2000 UF<sub>12</sub>, 3, 1, 0; 2000 UD<sub>36</sub>, 3, 1, 0; 2000 UR<sub>36</sub>, 3, 1, 0; 2000 UR<sub>38</sub>, 3, 1, 0; 2000 UR<sub>39</sub>, 3, 1, 0; 2000 UW<sub>39</sub>, 3, 1, 0; 2000 UE<sub>77</sub>, 3, 1, 0; 2000 VJ<sub>7</sub>, 3, 1, 0; 2000 VF<sub>8</sub>, 3, 1, 0; 2000 VN<sub>8</sub>, 3, 1, 0; 2000 VO<sub>8</sub>, 3, 1, 0; 2000 VA<sub>10</sub>, 3, 1, 0; 2000 VS<sub>10</sub>, 3, 1, 0; 2000 VS<sub>19</sub>, 3, 1, 0; (99), 3, 1, 0; (1239), 3, 1, 0; (1587), 3, 1, 0; (1912), 3, 1, 0; (2234), 3, 1, 0; (2830), 3, 1, 0; (2852), 3, 1, 0; (2875), 3, 1, 0; (3024), 3, 1, 0; (3287), 3, 1, 0; (3397), 3, 1, 0; (3635), 3, 1, 0; (4280), 3, 1, 0; (5067), 3, 1, 0; (5227), 3, 1, 0; (5544), 3, 1, 0; (5690), 3, 1, 0; (7529), 3, 1, 0; (8358), 3, 1, 0; (8406), 3, 1, 0; (11135), 3, 1, 0; (11277), 3, 1, 0; (16851), 3, 1, 0; (17274), 3, 1, 0; (17716), 3, 1, 0; (18153), 3, 1, 0; (18172), 3, 1, 0; [378, 124, 1\*, 2000/02/09–2000/11/03]

#### 052 Stockholm-Saltsjöbaden

A. Brandeker, Stockholm Observatory, SE-13336 Saltsjöbaden, Sweden [alexis@astro.su.se]

1.0-m  $f/4.0$  reflector + CCD

USNO-A2.0

2000 SB<sub>186</sub>, 2, 1, 0; [2, 1, 0\*, 2000/09/05–2000/09/06]

#### 071 Bulgarian National Observatory

E. W. Elst, Koninklijke Sterrenwacht van België, Ringlaan 3, B-1180 Brussels, Belgium [Eric.Elst@oma.be]

0.50-m  $f/1.4$  Schmidt + CCD

USNO-A2.0

1993 QK<sub>1</sub>, 2, 1, 0; [2, 1, 0\*, 1988/01/18]

#### 095 Crimean Astrophysical Observatory

N. S. Chernykh, Crimean Astrophysical Observatory, Nauchnyj, Crimea UA-98409, Ukraine [nik@crao.crimea.ua]

V. A. Shor, Institute of Applied Astronomy, Naberezhnaya Kutuzova 10, St. Petersburg 191187, Russia [shor@quasar.ipa.nw.ru]

Observer V. V. Rumyantsev

0.64-m  $f/1.4$  Richter-Slefogt telescope + CCD

PPM

1992 UH<sub>2</sub>, 2, 1, 0; 1996 VJ<sub>25</sub>, 2, 1, 0; 1996 WB<sub>2</sub>, 1, 1, 0; 2000 DZ<sub>93</sub>, 1, 1, 0; 2000 NM<sub>157</sub>, 7, 16; 2000 QM<sub>222</sub>, 1, 1, 0; 2000 SD<sub>182</sub>, 2, 1, 0; [166, 7, 0\*, 1991/11/05–2000/07/30]

#### 097 Wise Observatory, Mitzpeh Ramon

E. Ofek, Wise Observatory, Tel-Aviv University, Tel-Aviv, IL-69978 Israel [Eran@wise.tau.ac.il]

Observers Y. J. Choi, N. Brosch

1.0-m  $f/7$  reflector + CCD

USNO-A2.0

1998 DC<sub>32</sub>, 2, 1, 0; 2000 SU<sub>124</sub>, 2, 1, 0; [4, 2, 0\*, 1998/01/09]

#### 098 Asiago Observatory, Cima Ekar

U. Munari, Osservatorio Astronomico di Padova, Sede di Asiago, I-36012 Asiago (VI), Italy [munari@astras.pd.astro.it]

Observers U. Munari, F. Castellani, M. Tombelli, P. Antolini

Measurers F. Castellani, M. Tombelli, G. Forti

0.67-m  $f/3.2$  Schmidt

1998 VT<sub>54</sub>, 2, 1, 0; 1999 CN<sub>121</sub>, 2, 1, 0; 1999 RU<sub>44</sub>, 2, 1, 0; 2000 AA<sub>171</sub>, 2, 1, 0; 2000 JU<sub>51</sub>, 1, 1, 0; 2000 NP<sub>19</sub>, 2, 1, 0; 2000 NJ<sub>23</sub>, 2, 1, 0; [13, 7, 0\*, 1994/12/04–1998/10/26]

#### 104 San Marcello Pistoiese

L. Tesi, Osservatorio di Pian dei Termini, Viale Panoramico 45, I-51028 San Marcello Pistoiese (PT), Italy [iau@arcetri.astro.it]

Observers L. Tesi, A. Boattini, M. Tombelli

Measurers G. Forti, L. Tesi, A. Boattini, M. Tombelli

0.40-m  $f/5$  reflector + CCD

USNO-A1.0, USNO-A2.0

2000 SP<sub>125</sub>, 3, 1, 0; [3, 1, 0\*, 1998/03/19]

#### 106 Črni vrh

H. Mikuž, Kersnikova 11, SI-61000 Ljubljana, Slovenia [herman.mikuz@uni-lj.si]

Observers H. Mikuž, J. Skvarč, S. Maticič, B. Dintinjana

0.36-m  $f/6.7$  Schmidt-Cassegrain + CCD, 0.19-m  $f/4$  Schmidt-Cassegrain + CCD USNO-A2.0

1981 EB<sub>6</sub>, 3, 1, 0; 1981 EH<sub>38</sub>, 3, 1, 0; 1986 QG<sub>3</sub>, 3, 1, 0; 1991 FK<sub>2</sub>, 2, 1, 0; 1991 GY<sub>3</sub>, 3, 1, 0; 1992 ER<sub>28</sub>, 3, 1, 0; 1992 YE<sub>4</sub>, 2, 1, 0; 1993 QY<sub>9</sub>, 3, 1, 0; 1993 WF<sub>2</sub>, 2, 1, 0; 1994 AY<sub>3</sub>, 3, 1, 0; 1994 PT<sub>19</sub>, 3, 1, 0; 1995 FD<sub>1</sub>, 3, 1, 0; 1995 SC<sub>28</sub>, 3, 1, 0; 1995 WT<sub>15</sub>, 3, 1, 0; 1995 XA<sub>1</sub>, 3, 1, 0; 1996 TY<sub>64</sub>, 3, 1, 0; 1996 VE<sub>8</sub>, 3, 1, 0; 1996 VJ<sub>8</sub>, 3, 1, 0; 1996 WZ<sub>2</sub>, 3, 1, 0; 1997 BO<sub>1</sub>, 3, 1, 0; 1997 EJ<sub>6</sub>, 3, 1, 0; 1997 WJ<sub>36</sub>, 6, 2, 2; 1997 YN<sub>8</sub>, 3, 1, 0; 1998 AM<sub>10</sub>, 3, 1, 0; 1998 BL<sub>13</sub>, 3, 1, 0; 1998 BT<sub>33</sub>, 3, 1, 0; 1998 BN<sub>48</sub>, 3, 1, 0; 1998 DX<sub>32</sub>, 3, 1, 0; 1998 EC<sub>11</sub>, 9, 3, 5; 1998 FF<sub>12</sub>, 3, 1, 0; 1998 FN<sub>17</sub>, 3, 1, 0; 1998 FA<sub>28</sub>, 3, 1, 0; 1998 FX<sub>31</sub>, 3, 1, 0; 1998 FA<sub>58</sub>, 2, 1, 0; 1998 FZ<sub>59</sub>, 3, 1, 0; 1998 FE<sub>112</sub>, 3, 1, 0; 1998 FT<sub>126</sub>, 3, 1, 0; 1998 HK<sub>17</sub>, 3, 1, 0; 1998 HG<sub>21</sub>, 6, 2, 1; 1998 HP<sub>94</sub>,

3, 1, 0; 1998 JL<sub>3</sub>, 3, 1, 0; 1998 KW<sub>7</sub>, 3, 1, 0; 1998 QN<sub>85</sub>, 3, 1, 0; 1998 SN<sub>59</sub>, 2, 1, 0; 1998 TN<sub>34</sub>, 3, 1, 0; 1999 CV<sub>9</sub>, 3, 1, 0; 1999 FS<sub>8</sub>, 3, 1, 0; 1999 FB<sub>31</sub>, 3, 1, 0; 1999 FN<sub>34</sub>, 3, 1, 0; 1999 GC<sub>5</sub>, 3, 1, 0; 1999 GE<sub>21</sub>, 3, 1, 0; 1999 JM<sub>1</sub>, 3, 1, 0; 1999 JM<sub>4</sub>, 3, 1, 0; 1999 JK<sub>11</sub>, 3, 1, 0; 1999 JJ<sub>23</sub>, 3, 1, 0; 1999 JP<sub>39</sub>, 3, 1, 0; 1999 JL<sub>47</sub>, 3, 1, 0; 1999 JX<sub>47</sub>, 3, 1, 0; 1999 JS<sub>51</sub>, 3, 1, 0; 1999 JO<sub>54</sub>, 2, 1, 0; 1999 JF<sub>58</sub>, 3, 1, 0; 1999 JO<sub>119</sub>, 3, 1, 0; 1999 KE<sub>14</sub>, 6, 2, 1; 1999 LH<sub>6</sub>, 3, 1, 0; 1999 LM<sub>14</sub>, 3, 1, 0; 1999 NF<sub>2</sub>, 3, 1, 0; 1999 NR<sub>52</sub>, 2, 1, 0; 2000 NE<sub>5</sub>, 3, 1, 0; 2000 NP<sub>5</sub>, 3, 1, 0; 2000 OB<sub>8</sub>, 3, 1, 0; 2000 ON<sub>22</sub>, 3, 1, 0; 2000 OT<sub>22</sub>, 3, 1, 0; 2000 OG<sub>44</sub>, 3, 1, 0; 2000 OA<sub>46</sub>, 3, 1, 0; 2000 OA<sub>47</sub>, 2, 1, 0; 2000 OX<sub>49</sub>, 3, 1, 0; 2000 OM<sub>50</sub>, 2, 1, 0; 2000 OS<sub>51</sub>, 3, 1, 0; 2000 OZ<sub>51</sub>, 3, 1, 0; 2000 OR<sub>52</sub>, 3, 1, 0; 2000 OX<sub>52</sub>, 3, 1, 0; 2000 QD<sub>9</sub>, 3, 1, 0; 2000 QP<sub>9</sub>, 6, 2, 1; 2000 QP<sub>26</sub>, 3, 1, 0; 2000 QL<sub>101</sub>, 3, 1, 0; 2000 QU<sub>109</sub>, 3, 1, 0; 2000 QR<sub>118</sub>, 3, 1, 0; 2000 QM<sub>122</sub>, 3, 1, 0; 2000 QY<sub>122</sub>, 3, 1, 0; 2000 QE<sub>128</sub>, 3, 1, 0; 2000 QG<sub>128</sub>, 3, 1, 0; 2000 QZ<sub>128</sub>, 3, 1, 0; 2000 QQ<sub>131</sub>, 3, 1, 0; 2000 QO<sub>149</sub>, 9, 2, 4; 2000 QL<sub>167</sub>, 3, 1, 0; 2000 QW<sub>182</sub>, 3, 1, 0; 2000 QQ<sub>224</sub>, 3, 1, 0; 2000 RX<sub>2</sub>, 3, 1, 0; 2000 RL<sub>3</sub>, 3, 1, 0; 2000 RS<sub>4</sub>, 3, 1, 0; 2000 RB<sub>5</sub>, 3, 1, 0; 2000 RF<sub>5</sub>, 6, 2, 4; 2000 RY<sub>5</sub>, 3, 1, 0; 2000 RA<sub>6</sub>, 6, 2, 6; 2000 RC<sub>6</sub>, 3, 1, 0; 2000 RB<sub>7</sub>, 3, 1, 0; 2000 RD<sub>7</sub>, 3, 1, 0; 2000 RF<sub>7</sub>, 3, 1, 0; 2000 RN<sub>7</sub>, 3, 1, 0; 2000 RP<sub>12</sub>, 6, 2, 1; 2000 RH<sub>16</sub>, 3, 1, 0; 2000 RX<sub>16</sub>, 3, 1, 0; 2000 RU<sub>17</sub>, 2, 1, 0; 2000 RX<sub>17</sub>, 2, 1, 0; 2000 RN<sub>18</sub>, 3, 1, 0; 2000 RW<sub>19</sub>, 3, 1, 0; 2000 RW<sub>25</sub>, 3, 1, 0; 2000 RD<sub>29</sub>, 2, 1, 0; 2000 RC<sub>30</sub>, 3, 1, 0; 2000 RT<sub>32</sub>, 3, 1, 0; 2000 RL<sub>33</sub>, 3, 1, 0; 2000 RN<sub>33</sub>, 3, 1, 0; 2000 RO<sub>33</sub>, 3, 1, 0; 2000 RA<sub>34</sub>, 3, 1, 0; 2000 RR<sub>35</sub>, 3, 1, 0; 2000 RU<sub>35</sub>, 3, 1, 0; 2000 RP<sub>36</sub>, 6, 2, 1; 2000 RU<sub>39</sub>, 3, 1, 0; 2000 RH<sub>41</sub>, 3, 1, 0; 2000 RS<sub>41</sub>, 3, 1, 0; 2000 RY<sub>41</sub>, 3, 1, 0; 2000 RX<sub>42</sub>, 3, 1, 0; 2000 RF<sub>43</sub>, 3, 1, 0; 2000 RS<sub>44</sub>, 3, 1, 0; 2000 RT<sub>44</sub>, 6, 2, 1; 2000 RK<sub>45</sub>, 3, 1, 0; 2000 RR<sub>45</sub>, 3, 1, 0; 2000 RT<sub>45</sub>, 3, 1, 0; 2000 RB<sub>46</sub>, 6, 2, 5; 2000 RL<sub>46</sub>, 3, 1, 0; 2000 RE<sub>47</sub>, 3, 1, 0; 2000 RM<sub>50</sub>, 3, 1, 0; 2000 RG<sub>52</sub>, 2, 1, 0; 2000 RQ<sub>53</sub>, 3, 1, 0; 2000 RG<sub>56</sub>, 6, 1, 0; 2000 RZ<sub>65</sub>, 3, 1, 0; 2000 RH<sub>66</sub>, 3, 1, 0; 2000 RY<sub>66</sub>, 6, 2, 1; 2000 RQ<sub>70</sub>, 3, 1, 0; 2000 RJ<sub>71</sub>, 6, 1, 0; 2000 RS<sub>71</sub>, 9, 2, 5; 2000 RX<sub>71</sub>, 9, 3, 5; 2000 RZ<sub>71</sub>, 6, 2, 1; 2000 RH<sub>72</sub>, 12, 3, 5; 2000 RL<sub>72</sub>, 12, 3, 5; 2000 RU<sub>73</sub>, 3, 1, 0; 2000 RC<sub>74</sub>, 3, 1, 0; 2000 RF<sub>74</sub>, 6, 2, 1; 2000 RJ<sub>78</sub>, 2, 1, 0; 2000 RW<sub>80</sub>, 3, 1, 0; 2000 RS<sub>82</sub>, 6, 2, 1; 2000 RB<sub>86</sub>, 3, 1, 0; 2000 SM<sub>2</sub>, 3, 1, 0; 2000 SU<sub>2</sub>, 3, 1, 0; 2000 SC<sub>7</sub>, 6, 2, 1; 2000 SB<sub>8</sub>, 3, 1, 0; 2000 SH<sub>10</sub>, 3, 1, 0; 2000 SR<sub>11</sub>, 3, 1, 0; 2000 SQ<sub>20</sub>, 3, 1, 0; 2000 SY<sub>22</sub>, 3, 1, 0; 2000 SZ<sub>22</sub>, 3, 1, 0; 2000 SC<sub>23</sub>, 3, 1, 0; 2000 SB<sub>29</sub>, 6, 2, 1; 2000 SJ<sub>42</sub>, 3, 1, 0; 2000 SG<sub>43</sub>, 3, 1, 0; 2000 SC<sub>44</sub>, 3, 1, 0; 2000 SR<sub>44</sub>, 2, 1, 0; 2000 SK<sub>69</sub>, 3, 1, 0; 2000 SB<sub>73</sub>, 3, 1, 0; 2000 SC<sub>73</sub>, 3, 1, 0; 2000 SV<sub>87</sub>, 6, 2, 1; 2000 SW<sub>87</sub>, 3, 1, 0; 2000 SV<sub>88</sub>, 3, 1, 0; 2000 SE<sub>111</sub>, 3, 1, 0; 2000 SO<sub>111</sub>, 3, 1, 0; 2000 SS<sub>112</sub>, 3, 1, 0; 2000 SQ<sub>113</sub>, 3, 1, 0; 2000 ST<sub>114</sub>, 3, 1, 0; 2000 SU<sub>114</sub>, 3, 1, 0; 2000 SW<sub>114</sub>, 3, 1, 0; 2000 SY<sub>114</sub>, 6, 2, 4; 2000 SL<sub>115</sub>, 3, 1, 0; 2000 SO<sub>115</sub>, 3, 1, 0; 2000 SQ<sub>115</sub>, 3, 1, 0; 2000 SS<sub>115</sub>, 3, 1, 0; 2000 SF<sub>116</sub>, 3, 1, 0; 2000 SN<sub>116</sub>, 3, 1, 0; 2000 SY<sub>116</sub>, 3, 1, 0; 2000 SR<sub>117</sub>, 3, 1, 0; 2000 SD<sub>118</sub>, 3, 1, 0; 2000 SV<sub>118</sub>, 2, 1, 0; 2000 SX<sub>118</sub>, 6, 2, 6; 2000 SB<sub>121</sub>, 3, 1, 0; 2000 SQ<sub>121</sub>, 3, 1, 0; 2000 SA<sub>123</sub>, 6, 2, 5; 2000 SB<sub>123</sub>, 3, 1, 0; 2000 SS<sub>124</sub>, 3, 1, 0; 2000 SD<sub>137</sub>, 3, 1, 0; 2000 SB<sub>140</sub>, 3, 1, 0; 2000 SD<sub>140</sub>, 3, 1, 0; 2000 SJ<sub>142</sub>, 3, 1, 0; 2000 SB<sub>143</sub>, 3, 1, 0; 2000 SX<sub>144</sub>, 3, 1, 0; 2000 SE<sub>146</sub>, 3, 1, 0; 2000 SJ<sub>146</sub>, 6, 2, 1; 2000 SK<sub>146</sub>, 6, 1, 0; 2000 SL<sub>146</sub>, 3, 1, 0; 2000 SB<sub>149</sub>, 3, 1, 0; 2000 SG<sub>150</sub>, 3, 1, 0; 2000 SU<sub>150</sub>, 3, 1, 0; 2000 SX<sub>150</sub>, 2, 1, 0; 2000 SY<sub>150</sub>, 3, 1, 0; 2000 SF<sub>151</sub>, 3, 1, 0; 2000 SJ<sub>151</sub>, 3, 1, 0; 2000 SK<sub>151</sub>, 3, 1, 0; 2000 SS<sub>151</sub>, 3, 1, 0; 2000 SC<sub>152</sub>, 3, 1, 0; 2000 SE<sub>152</sub>, 3, 1, 0; 2000 SS<sub>152</sub>, 3, 1, 0; 2000 ST<sub>153</sub>, 3, 1, 0; 2000 SX<sub>153</sub>, 3, 1, 0; 2000 SG<sub>154</sub>, 3, 1, 0; 2000 SA<sub>155</sub>, 3, 1, 0; 2000 SB<sub>156</sub>, 3, 1, 0; 2000 SF<sub>166</sub>, 3, 1, 0; 2000 SV<sub>169</sub>, 3, 1, 0; 2000 SV<sub>170</sub>, 6, 2, 1; 2000 SL<sub>171</sub>, 9, 3, 5; 2000 SH<sub>189</sub>, 3, 1, 0; 2000 SY<sub>195</sub>, 3, 1, 0; 2000 SQ<sub>205</sub>, 3, 1, 0; 2000 SR<sub>205</sub>, 3, 1, 0; 2000 SF<sub>206</sub>, 3, 1, 0; 2000 SW<sub>207</sub>, 3, 1, 0; 2000 SO<sub>229</sub>, 3, 1, 0; 2000 SD<sub>230</sub>, 3, 1, 0; 2000 SW<sub>230</sub>, 3, 1, 0; 2000 SJ<sub>232</sub>, 6, 2, 5; 2000 SF<sub>260</sub>, 6, 2, 1; 2000 SW<sub>268</sub>, 3, 1, 0; 2000 SE<sub>269</sub>, 6, 2, 1; 2000 SZ<sub>276</sub>, 3, 1, 0; 2000 SX<sub>277</sub>, 3, 1, 0; 2000 SG<sub>286</sub>, 3, 1, 0; 2000 SN<sub>300</sub>, 3, 1, 0; 2000 SU<sub>301</sub>, 3, 1, 0; 2000 SE<sub>304</sub>, 3, 1, 0; 2000 SK<sub>305</sub>, 3, 1, 0; 2000 SH<sub>321</sub> \*, 3, 1, 0; 2000 SS<sub>339</sub>, 6, 2, 6; 2000 TN<sub>2</sub>, 3, 1, 0; 2000 TQ<sub>18</sub>, 3, 1, 0; 2000 TV<sub>24</sub>, 3, 1, 0; 2000 TR<sub>36</sub>, 3, 1, 0; 2000 TP<sub>58</sub>, 6, 2, 4; 2000 UG<sub>3</sub>, 3, 1, 0; 2000 UJ<sub>1</sub>, 3, 1, 0; 2000 UA<sub>3</sub> \*, 6, 2, 1; 2000 UB<sub>3</sub> \*, 6, 2, 1; 2000 UC<sub>3</sub> \*, 12, 3, 5; 2000 UD<sub>3</sub> \*, 6, 2, 1; 2000 UE<sub>3</sub> \*, 6, 2, 1; 2000 UF<sub>3</sub> \*, 6, 2, 1; 2000 UK<sub>6</sub>, 9, 2, 5; 2000 UC<sub>9</sub>, 6, 2, 5; 2000 UD<sub>9</sub>, 3, 1, 0; 2000 UH<sub>11</sub>, 3, 1, 0; 2000 UQ<sub>13</sub> \*, 6, 2, 5; 2000 UG<sub>13</sub> \*, 9, 2, 5; 2000 UY<sub>20</sub>, 3, 1, 0; 2000 UA<sub>21</sub>, 3, 1, 0; 2000 UK<sub>21</sub>, 3, 1, 0; 2612 P-L, 3, 1, 0; 2791 P-L, 3, 1, 0; 6127 P-L, 3, 1, 0; 1030 T-1, 3, 1, 0; 1105 T-1, 3, 1, 0; 1194 T-1, 3, 1, 0; 3249 T-1, 3, 1, 0; 4125 T-1, 3, 1, 0; 1352 T-2, 3, 1, 0; 3143 T-2, 3, 1, 0; (122), 3, 1, 0; (151), 6, 2, 6; (361), 3, 1, 0; (495), 6, 2, 1; (637), 3, 1, 0; (715), 3, 1, 0; (2051), 9, 3, 2; (2072), 3, 1, 0; (2280), 3, 1, 0; (2450), 3, 1, 0; (3312), 3, 1, 0; (3650), 3, 1, 0; (3653), 3, 1, 0; (3814), 6, 2, 1; (3843), 3, 1, 0; (4439), 3, 1, 0; (4707), 3, 1, 0; (4743), 3, 1, 0; (5187), 3, 1, 0; (5476), 3, 1, 0; (6106), 2, 1, 0; (6137), 3, 1, 0; (6403), 3, 1, 0; (6747), 3, 1, 0; (6797), 3, 1, 0; (6832), 3, 1, 0; (7040), 3, 1, 0; (7454), 3, 1, 0; (8118), 2, 1, 0; (8254), 6, 2, 1; (8259), 3, 1, 0; (8341), 3, 1, 0; (8445), 3, 1, 0; (10458), 3, 1, 0; (10499), 3, 1, 0; (10743), 3, 1, 0; (11081), 3, 1, 0; (11154), 3, 1, 0; (11443), 3, 1, 0; (11505), 3, 1, 0; (11633), 6, 1, 0; (13726), 2, 1, 0; (13758), 2, 1, 0; (13790), 3, 1, 0; (14150), 3, 1, 0; (14603), 3, 1, 0; (14610), 3, 1, 0; (14612), 3, 1, 0; (14788), 3, 1, 0; (15463), 3, 1, 0; (16067), 1, 1, 0; (16400), 3, 1, 0; (16581), 3, 1, 0; (16746), 3, 1, 0; (17013), 3, 1, 0; (17048), 3, 1, 0; (17167), 3, 1, 0; (17168), 6, 2, 1; (17327), 3, 1, 0; (17362), 3, 1, 0; (17363), 3, 1, 0; (17365), 3, 1, 0; (17401), 2, 1, 0; (17408), 3, 1, 0; (17515), 6, 1, 0; (17519), 3, 1, 0; (17531), 3, 1, 0; (17618), 3, 1, 0; (17650), 3, 1, 0; (17676), 6, 2, 1; (17783), 3, 1, 0; (17795), 3, 1, 0; (17820), 2, 1, 0; (17881), 3, 1, 0; (17930), 3, 1, 0; (17977), 2, 1, 0; (17988), 3, 1, 0; (18108), 3, 1, 0; (18217), 6, 2, 1; (18247), 3, 1, 0; (18273), 3, 1, 0; [1306, 373, 9\*, 1999/07/17–2000/10/28]

## 108 Montelupo

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Observers M. Tombelli, A. Boattini, L. Tesi, D. Guidetti, E. Masotti

Measurers M. Tombelli, A. Boattini, L. Tesi, S. Bartolini, G. Forti

0.30-m  $f/5.7$  Schmidt-Cassegrain + CCD

GSC-1.1, USNO-A2.0, USNO-SA2.0

1998 DF<sub>33</sub>, 4, 1, 0; 1998 DH<sub>33</sub>, 2, 1, 0; 1998 DQ<sub>35</sub>, 5, 1, 0; 1999 XC<sub>235</sub>, 2, 1, 0; [13, 4, 0\*, 1997/03/02–2000/10/28]

## 113 Volkssternwarte Drebach, Schönbrunn

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Observers G. Lehmann, J. Kandler, F. Boettcher, T. Lehmann

Observers G. Lehmann, J. Kandler, T. Lehmann, K. Lehmann, F. Boettcher

0.50-m  $f/4.0$  reflector + CCD

USNO-A2.0

1981 EX<sub>7</sub>, 2, 1, 0; 1981 EV<sub>13</sub>, 2, 1, 0; 1987 QW, 2, 1, 0; 1989 AZ<sub>6</sub>, 4, 2, 15; 1990 TL<sub>7</sub>, 2, 1, 0; 1991 AW<sub>2</sub>, 2, 1, 0; 1991 RV<sub>2</sub>, 2, 1, 0; 1991 TX<sub>2</sub>, 4, 2, 15; 1991 TB<sub>5</sub>, 2, 1, 0; 1992 SF<sub>2</sub>, 2, 1, 0; 1994 AK<sub>16</sub>, 2, 1, 0; 1995 EY<sub>8</sub>, 11, 3, 2; 1995 OH<sub>10</sub>, 4, 2, 14; 1996 WC, 2, 1, 0; 1997 AO<sub>2</sub>, 3, 1, 0; 1997 UA<sub>4</sub>, 2, 1, 0; 1998 BE<sub>5</sub>, 2, 1, 0; 1998 BQ<sub>24</sub>, 3, 1, 0; 1998 DA<sub>6</sub>, 2, 1, 0; 1998 EZ<sub>5</sub>, 2, 1, 0; 1998 UO<sub>1</sub>, 5, 1, 0; 1999 FS<sub>8</sub>, 2, 1, 0; 1999 FZ<sub>10</sub>, 2, 1, 0; 1999 JX<sub>47</sub>, 3, 1, 0; 1999 NS<sub>9</sub>, 3, 1, 0; 2000 LZ<sub>31</sub>, 4, 1, 0; 2000 OG<sub>8</sub>, 10, 2, 7; 2000 OF<sub>44</sub>, 3, 1, 0; 2000 OO<sub>50</sub>, 5, 1, 0; 2000 PT<sub>7</sub>, 2, 1, 0; 2000 QM<sub>88</sub>, 2, 1, 0; 2000 QU<sub>109</sub>, 3, 1, 0; 2000 RN<sub>4</sub>, 2, 1, 0; 2000 RK<sub>29</sub>, 2, 1, 0; 2000 RJ<sub>34</sub>, 5, 1, 0; 2000 RJ<sub>78</sub>, 3, 1, 0; 2000 SC<sub>10</sub>, 4, 2, 5; 2000 SX<sub>22</sub>, 2, 1, 0; 2000 SP<sub>42</sub>, 2, 1, 0; 2000 SG<sub>43</sub>, 3, 1, 0; 2000 SR<sub>44</sub>, 3, 1, 0; 2000 SS<sub>44</sub>, 5, 2, 5; 2000 SF<sub>45</sub>, 12, 3, 5; 2000 SU<sub>113</sub>, 8, 2, 2; 2000 SH<sub>116</sub>, 2, 1, 0; 2000 SN<sub>116</sub>, 3, 1, 0; 2000 SB<sub>118</sub>, 2, 1, 0; 2000 SO<sub>150</sub>, 2, 1, 0; 2000 SF<sub>151</sub>, 3, 1, 0; 2000 SQ<sub>151</sub>, 2, 1, 0; 2000 SH<sub>188</sub>, 3, 1, 0; 2000 SN<sub>230</sub>, 2, 1, 0; 2000 SL<sub>277</sub>, 2, 1, 0; 2000 UR \*, 12, 4, 15; 2033 P-L, 3, 1, 0; 2612 P-L, 2, 1, 0; (76), 2, 1, 0; (2967), 2, 1, 0; (3102), 5, 1, 0; (3377), 2, 1, 0; (4183), 5, 1, 0; (4486), 4, 1, 0; (4708), 2, 1, 0; (5751), 5, 1, 0; (6710), 5, 1, 0; (8449), 2, 1, 0; (16437), 2, 1, 0; (17274), 9, 2, 6; (17311), 2, 1, 0; (18016), 2, 1, 0; (18032), 2, 1, 0; (18172), 10, 2, 7; [251, 72, 1\*, 1996/11/22–2000/11/06]

## 118 Modra

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Observers A. Galád, J. Tóth, P. Kolény, L. Kornoš, Š. Gajdoš, D. Kalmančok

0.6-m  $f/5.5$  reflector + CCD

USNO-A2.0, USNO-A1.0

1997 UH<sub>9</sub>, 2, 1, 0; 2000 DM<sub>8</sub>, 4, 2, 11; 2000 DP<sub>107</sub>, 2, 1, 0; 2000 OG<sub>8</sub>, 2, 1, 0; 2000 OS<sub>53</sub>, 2, 1, 0; 2000 PQ<sub>9</sub>, 3, 1, 0; 2000 QW<sub>7</sub>, 4, 2, 1; 2000 QN<sub>130</sub>, 2, 1, 0; 2000 RM<sub>12</sub>, 4, 2, 1; 2000 RJ<sub>34</sub>, 4, 2, 10; 2000 SL<sub>4</sub>, 2, 8; 2000 SB<sub>1</sub>, 5, 2, 1; 2000 SB<sub>8</sub>, 4, 2, 1; 2000 SA<sub>10</sub>, 7, 3, 9; 2000 SV<sub>20</sub>, 2, 1, 0; 2000 SP<sub>43</sub>, 6, 3, 7; 2000 SE<sub>45</sub>, 7, 3, 7; 2000 SY<sub>162</sub>, 2, 1, 0; 2000 SU<sub>180</sub>, 2, 1, 0; 2000 ST<sub>317</sub>, 5, 2, 7; 2000 TU<sub>28</sub>, 5, 2, 2; 2000 UJ<sub>1</sub>, 8, 3, 6; 2000 UG<sub>11</sub>, 2, 1, 0; 2000 UH<sub>11</sub>, 7, 3, 4; 2000 UK<sub>11</sub>, 3, 1, 0; 2000 UL<sub>11</sub>, 2, 1, 0; 2000 UV<sub>13</sub>, 3, 1, 0; 2000 UW<sub>13</sub>, 2, 1, 0; 2000 UR<sub>16</sub>, 3, 1, 0; 2000 UF<sub>29</sub>, 4, 1, 0; 2000 UL<sub>30</sub>, 3, 1, 0; 2000 UM<sub>30</sub>, 3, 1, 0; 2000 UN<sub>30</sub>, 3, 1, 0; 2000 UO<sub>30</sub>, 3, 1, 0; 2000 VP<sub>30</sub>, 3, 1, 0; 2000 UQ<sub>30</sub>, 3, 1, 0; 2000 UY<sub>33</sub>, 5, 1, 0; 2000 UE<sub>110</sub>, 3, 1, 0; 2000 VM<sub>2</sub>, 3, 1, 0; 2000 VN<sub>2</sub>, 3, 1, 0; 2000 VO<sub>47</sub>, 2, 1, 0; (16636), 2, 1, 0; (16834), 2, 1, 0; (16851), 4, 2, 1; (18109), 2, 1, 0; (18172), 2, 1, 0; [158, 46, 0\*, 2000/10/15–2000/11/02]

## 120 Višnjan

K. Korlević, Istarska 5, HR-51463 Višnjan, Croatia [korado@visnjan.hr]

Observers B. Lukić, S. Pintarić, K. Korlević, M. Jurić, P. Korlević, J. Perić

Measurers B. Lukić, D. Dermadi, G. Malić, M. Jurić, M. Rejkuba, K. Korlević,

P. Korlević

0.41-m  $f/4.3$  reflector + CCD

USNO-SA1.0

1989 TZ<sub>11</sub>, 2, 1, 0; 1995 YB<sub>3</sub>, 3, 1, 0; 1996 BA<sub>4</sub>, 3, 1, 0; 1996 YT<sub>2</sub>, 2, 1, 0; 1998 DD, 5, 2, 3; 1998 DX<sub>32</sub>, 5, 1, 0; 1998 DH<sub>33</sub>, 6, 2, 1; 1998 FZ<sub>30</sub>, 3, 1, 0; 1998 FV<sub>62</sub>, 3, 1, 0; 1998 HG<sub>68</sub>, 5, 2, 5; 1998 HF<sub>100</sub>, 3, 1, 0; 1998 HL<sub>100</sub>, 3, 1, 0; 1998 HK<sub>133</sub>, 9, 3, 10; 1998 SK<sub>10</sub>, 2, 1, 0; 1998 UL<sub>1</sub>, 6, 2,

1; 1999 GZ<sub>19</sub>, 2, 1, 0; 1999 HZ<sub>6</sub>, 2, 1, 0; 1999 HY<sub>7</sub>, 8, 3, 2; 1999 JH<sub>45</sub>, 3, 1, 0; 1999 JC<sub>76</sub>, 2, 1, 0; 1999 KP<sub>12</sub>, 5, 2, 1; 1999 KY<sub>15</sub>, 2, 1, 0; 1999 LJ<sub>8</sub>, 3, 2; 1999 NR<sub>38</sub>, 3, 1, 0; 1999 RE<sub>135</sub>, 2, 1, 0; 2000 QJ<sub>127</sub>, 3, 1, 0; 2000 QO<sub>127</sub>, 5, 1, 0; 2000 RF<sub>4</sub>, 3, 1, 0; 2000 RU<sub>7</sub>, 6, 3, 2; 2000 RV<sub>39</sub>, 3, 1, 0; 2000 RA<sub>49</sub>, 2, 1, 0; 2000 RK<sub>50</sub>, 3, 1, 0; 2000 RX<sub>50</sub>, 8, 3, 2; 2000 RY<sub>50</sub>, 8, 3, 2; 2000 RQ<sub>51</sub>, 6, 2, 1; 2000 RY<sub>51</sub>, 2, 1, 0; 2000 RL<sub>61</sub>, 2, 1, 0; 2000 RA<sub>67</sub>, 6, 2, 5; 2000 RM<sub>67</sub>, 3, 1, 0; 2000 RT<sub>72</sub>, 3, 1, 0; 2000 RT<sub>75</sub>, 2, 1, 0; 2000 RU<sub>77</sub>, 9, 3, 2; 2000 SZ<sub>22</sub>, 3, 1, 0; 2000 SA<sub>23</sub>, 2, 1, 0; 2000 SB<sub>23</sub>, 3, 1, 0; 2000 SF<sub>23</sub>, 3, 1, 0; 2000 SG<sub>23</sub>, 10, 4, 11; 2000 SL<sub>42</sub>, 3, 1, 0; 2000 SM<sub>42</sub>, 8, 3, 2; 2000 SS<sub>44</sub>, 3, 1, 0; 2000 SC<sub>115</sub>, 2, 1, 0; 2000 SD<sub>115</sub>, 3, 1, 0; 2000 SB<sub>118</sub>, 3, 1, 0; 2000 SC<sub>118</sub>, 3, 1, 0; 2000 SA<sub>119</sub>, 3, 1, 0; 2000 SC<sub>119</sub>, 3, 1, 0; 2000 SF<sub>119</sub>, 3, 1, 0; 2000 SW<sub>146</sub>, 3, 1, 0; 2000 SF<sub>147</sub>, 3, 1, 0; 2000 SQ<sub>147</sub>, 2, 1, 0; 2000 SP<sub>149</sub>, 3, 1, 0; 2000 SP<sub>151</sub>, 3, 1, 0; 2000 SS<sub>151</sub>, 3, 1, 0; 2000 SU<sub>151</sub>, 3, 1, 0; 2000 SO<sub>152</sub>, 2, 1, 0; 2000 SU<sub>155</sub>, 6, 2, 1; 2000 SV<sub>155</sub>, 6, 2, 1; 2000 SD<sub>156</sub>, 3, 1, 0; 2000 SL<sub>175</sub>, 3, 1, 0; 2000 SM<sub>175</sub>, 3, 1, 0; 2000 SA<sub>261</sub>, 2, 1, 0; 2000 SM<sub>275</sub>, 5, 2, 1; 2000 SS<sub>275</sub>, 3, 1, 0; 2000 ST<sub>275</sub>, 2, 1, 0; 2000 SG<sub>277</sub>, 3, 1, 0; 2000 SN<sub>280</sub>, 3, 1, 0; 2000 SR<sub>339</sub>, 3, 1, 0; 2000 TC<sub>34</sub>, 6, 2, 1; 2000 US<sub>\*</sub>, 8, 3, 2; 2000 UT<sub>\*</sub>, 11, 4, 11; 2000 UU<sub>\*</sub>, 8, 3, 2; 2000 UV<sub>\*</sub>, 8, 3, 2; 2000 UW<sub>\*</sub>, 8, 3, 2; 2000 UX<sub>\*</sub>, 8, 3, 2; 2000 UY<sub>\*</sub>, 8, 3, 2; 2000 UZ<sub>\*</sub>, 6, 2, 1; 2000 UA<sub>1</sub><sub>\*</sub>, 8, 3, 2; 2000 UB<sub>1</sub><sub>\*</sub>, 8, 3, 2; 2000 UC<sub>1</sub><sub>\*</sub>, 8, 3, 2; 2000 UD<sub>1</sub><sub>\*</sub>, 11, 4, 11; 2000 UY<sub>1</sub><sub>\*</sub>, 9, 3, 2; 2000 UZ<sub>1</sub><sub>\*</sub>, 4, 2, 2; 2000 UA<sub>2</sub><sub>\*</sub>, 9, 3, 10; 2000 UB<sub>2</sub><sub>\*</sub>, 7, 3, 10; 2000 UC<sub>2</sub><sub>\*</sub>, 6, 2, 1; 2000 UD<sub>2</sub><sub>\*</sub>, 5, 2, 1; 2000 UE<sub>2</sub><sub>\*</sub>, 6, 2, 1; 2000 UF<sub>2</sub><sub>\*</sub>, 5, 2, 1; 2000 UG<sub>2</sub><sub>\*</sub>, 6, 3, 10; 2000 UH<sub>2</sub><sub>\*</sub>, 9, 4, 11; 2000 UL<sub>4</sub><sub>\*</sub>, 3, 1, 0; 2000 UL<sub>7</sub><sub>\*</sub>, 2, 1, 0; 2000 UL<sub>13</sub><sub>\*</sub>, 6, 2, 5; 2000 UM<sub>13</sub><sub>\*</sub>, 5, 2, 5; 2000 UN<sub>13</sub><sub>\*</sub>, 6, 2, 5; 2000 UD<sub>21</sub><sub>\*</sub>, 2, 1, 0; 2000 UZ<sub>22</sub><sub>\*</sub>, 3, 1, 0; 2000 UB<sub>23</sub><sub>\*</sub>, 3, 1, 0; 2000 UO<sub>23</sub><sub>\*</sub>, 12, 3, 10; 2000 UC<sub>59</sub><sub>\*</sub>, 3, 1, 0; 2000 UF<sub>59</sub><sub>\*</sub>, 3, 1, 0; 2000 UT<sub>65</sub><sub>\*</sub>, 3, 1, 0; 2000 UV<sub>65</sub><sub>\*</sub>, 3, 1, 0; 2000 UV<sub>77</sub><sub>\*</sub>, 3, 2, 1; 2000 VG<sub>20</sub><sub>\*</sub>, 5, 2, 3; 1364 T-2, 8, 3, 12; 5149 T-2, 3, 1, 0; 2203 T-3, 2, 1, 0; 3157 T-3, 5, 2, 1; (2453), 3, 1, 0; (2572), 3, 1, 0; (2591), 2, 1, 0; (2773), 3, 1, 0; (2925), 3, 1, 0; (3114), 8, 3, 2; (3117), 5, 2, 3; (3261), 3, 1, 0; (3467), 10, 3, 10; (3495), 3, 1, 0; (3796), 2, 1, 0; (3819), 3, 1, 0; (4242), 2, 1, 0; (4379), 3, 1, 0; (4458), 11, 3, 10; (4964), 2, 1, 0; (5112), 3, 1, 0; (5265), 3, 1, 0; (5408), 2, 1, 0; (7073), 9, 3, 2; (8193), 3, 1, 0; (8395), 2, 1, 0; (8591), 3, 1, 0; (8594), 8, 3, 2; (8861), 3, 1, 0; (9026), 2, 1, 0; (9094), 3, 1, 0; (9460), 3, 1, 0; (10374), 8, 3, 2; (10458), 3, 1, 0; (10479), 5, 2, 3; (11012), 3, 1, 0; (11604), 3, 1, 0; (11692), 3, 1, 0; (11710), 3, 1, 0; (11747), 2, 1, 0; (16688), 3, 1, 0; (17167), 5, 1, 0; (17170), 3, 1, 0; (17389), 8, 3, 2; (17818), 2, 1, 0; (17865), 2, 1, 0; (18027), 3, 1, 0; [708, 162, 26\*, 1998/10/28–2000/11/04]

### 121 Kharkov University, Chuguevskaya Station

Yu. N. Krugly, Astronomical Observatory, Kharkov State University, Sumska Street 35, Kharkov 310022, Ukraine [krugly@astron.kharkov.ua] (1)  
V. G. Shevchenko, Astronomical Observatory, Kharkov State University, Sumska Street 35, Kharkov 310022 [shevchenko@astron.kharkov.ua] (2)

Observers Yu. N. Krugly (1), V. G. Shevchenko (2)

0.70-m  $f/4$  reflector + CCD

GSC

{1} 2000 SQ<sub>42</sub>, 4, 1, 0; [4, 1, 0\*, 2000/10/03]

{2} (76), 30, 7, 23; (214), 7, 2, 1; [37, 2, 0\*, 2000/09/27–2000/10/20]

### 127 Bornheim

N. Ehring, Stationenweg 54, D-53332 Bornheim, Germany [norbert.ehring@t-online.de]

0.30-m  $f/3.2$  FFC + CCD

USNO-A2.0

1988 XQ, 5, 2, 2; 1992 WQ<sub>1</sub>, 5, 2, 1; 1992 YJ, 5, 2, 1; 1992 YU<sub>2</sub>, 5, 2, 2; 1994 AC<sub>1</sub>, 4, 2, 2; 1998 FC<sub>30</sub>, 4, 2, 5; 1998 FR<sub>73</sub>, 6, 2, 2; 1999 JK<sub>37</sub>, 5, 2, 2; 2000 DP<sub>107</sub>, 6, 2, 5; 2000 NU<sub>5</sub>, 4, 2, 5; 2000 PF, 4, 2, 5; 2000 PL<sub>6</sub>, 4, 2, 5; 2000 SC<sub>91</sub>, 4, 2, 5; [61, 13, 0\*, 2000/10/17–2000/11/03]

### 143 Gnosca

S. Sposetti, CH-6525 Gnosca, Switzerland [spo@bluewin.ch]

0.40-m  $f/4$  reflector + CCD

Observer S. Sposetti

Measurers R. Behrend, S. Sposetti

GSC, Tycho-2

2000 RH<sub>77</sub>, 3, 1, 0; 2000 RJ<sub>77</sub>, 3, 1, 0; 2000 RK<sub>77</sub>, 4, 1, 0; 2000 SB<sub>74</sub>, 3, 1, 0; (965), 14, 1, 0; (7505), 10, 1, 0; [37, 6, 0\*, 2000/10/17–2000/11/01]

### 151 Eschenberg Observatory, Winterthur

M. Griesser, Breitenstrasse 2, CH-8542 Wiesendangen, Switzerland

[griesser@spectraweb.ch]

0.25-m  $f/8.0$  reflector + CCD, 0.40-m  $f/5.8$  Cassegrain + CCD

GSC, USNO-SA2.0

1995 OH<sub>10</sub>, 4, 1, 0; 1998 UO<sub>1</sub>, 8, 2, 5; 1999 FZ<sub>10</sub>, 5, 1, 0; 2000 DP<sub>107</sub>, 29, 5, 16; 2000 OG<sub>8</sub>, 12, 2, 9; 2000 QS<sub>104</sub>, 8, 1, 0; 2000 RL<sub>100</sub>, 4, 1, 0; 2000 SB<sub>1</sub>, 5, 1, 0; 2000 SD<sub>234</sub>, 3, 1, 0; 2000 ST<sub>317</sub>, 8, 2, 5; 2000 UG<sub>11</sub>, 23, 3, 9; 2000 UH<sub>11</sub>, 6, 1, 0; 2000 UK<sub>11</sub>, 15, 2, 1; 2000 UL<sub>11</sub>, 17, 3, 9; 2000 UG<sub>14</sub>, 7, 1, 0; (251), 4, 1, 0; (4183), 4, 1, 0; (6106), 4, 1, 0; (17274), 3, 1, 0; (18172), 6, 1, 0; [175, 20, 0\*, 2000/10/20–2000/11/05]

### 153 Stuttgart–Hoffeld

R. Stuber, Hoffeldstrasse 121, D-70597 Stuttgart, Germany [mail@rolfstuber.de]

0.25-m  $f/7.2$  reflector + CCD

GSC

2000 UG<sub>11</sub>, 9, 2, 4; [9, 1, 0\*, 2000/11/01–2000/11/06]

### 158 Promiod

G. A. Sala, CCD Astronomy Research Centre, Via Cottalorda 27, I-21022 Azzate

(VA), Italy [g.sala@skylink.it]

0.30-m  $f/6.9$  Schmidt-Cassegrain + CCD

USNO-SA1.0

2000 GL<sub>104</sub>, 2, 1, 0; [2, 1, 0\*, 1998/09/28–1998/09/29]

### 159 Monte Agliale

M. M. Santangelo, Monte Agliale Astronomical Observatory, Borgo a Mozzano, Lucca, Italy [ilra@comune.lucca.it]

Observers S. Donati, M. M. M. Santangelo

Measurers S. Donati, M. M. M. Santangelo

0.51-m  $f/4.5$  Newtonian reflector + CCD

USNO-A2.0, USNO-A1.0

2000 QC<sub>128</sub>, 11, 2, 1; 2000 ST<sub>72</sub>, 5, 1, 0; 2000 UX<sub>1</sub><sub>\*</sub>, 26, 5, 9; [42, 3, 1\*, 2000/10/20–2000/10/28]

### 169 Rosignano

S. Puccini, Airali Observatory, Via Montegrappa 16, I-15030 Rosignano, Italy

[starfield@tin.it]

0.25-m  $f/5.1$  Schmidt-Cassegrain + CCD

GSC

2000 LX<sub>25</sub>, 2, 1, 0; (2198), 3, 1, 0; (3423), 2, 1, 0; (3843), 1, 1, 0; [8, 4, 0\*, 2000/10/17–2000/11/04]

### 178 Collonges

J. G. Bosch, 90 residences du Salève, F-74160 Collonges, France

[Bosch@sc2a.unige.ch]

0.20-m  $f/5$  reflector + CCD

USNO-SA1.0

2000 RW<sub>54</sub>, 2, 1, 0; [2, 1, 0\*, 2000/11/05]

### 184 Valmecca Observatory, Puimichel

C. Demeautis, 9 rue de Huningue, F-68300 Saint-Louis, France

[sky.walker@wanadoo.fr]

Observers C. Demeautis, C. Cavadore, S. Deconihou, L. Bernasconi

Measurers C. Demeautis

0.60-m  $f/6$  reflector + CCD

GSC

2000 SU<sub>24</sub>, 3, 1, 0; [3, 1, 0\*, 2000/08/08]

**185 Observatoire astronomique jurassien-Vicques**

M. Ory, 30 Rue Beridier, CH-2800 Delemont, Switzerland [pivate@bluewin.ch]

Observers M. Ory, C. Lovis

Measurer M. Ory

0.61-m  $f/3.39$  reflector + CCD

GSC

2000 RK<sub>77</sub>, 4, 1, 0; [4, 1, 0\*, 2000/11/05]

**195 Untermenging Observatory, Munich**

H. Maier, Theodor-Fischerstr. 82, D-80999 Munich, Germany

[Harald.Maier@muc.de]

0.20-m  $f/6.3$  Schmidt-Cassegrain + CCD

USNO-A2.0

(17274), 2, 1, 0; (17493), 2, 1, 0; [4, 2, 0\*, 2000/11/01]

**196 Homburg-Erbach**

W. Wiedemann, Hasenaekerstr. 29, D-66424 Homburg, Germany

[Wolfgang.Wiedemann@t-online.de]

0.20-m  $f/6.2$  Schmidt-Cassegrain + CCD

GSC-1.2

(6403), 4, 2, 3; (10932), 6, 2, 1; [10, 2, 0\*, 2000/09/23–2000/09/26]

**197 Bastia**

F. Cavicchio, via Romea Vecchia 67, Classe, I-48100 Ravenna, Italy

[msbsoftware@tin.it]

Observers S. Moretti, F. Cavicchio, M. Garoni, F. Ballardini, C. Zellermayer

Measurers F. Cavicchio, S. Moretti, M. Garoni

0.42-m  $f/5.4$  reflector + CCD

GSC, USNO-SA1.0

2000 SZ<sub>306</sub>, 4, 2, 2; [4, 1, 0\*, 2000/10/20–2000/10/22]

**247 Roving Observer**

M. L. Clark, Physics and Energy Studies, Murdoch University, 90 South Street,

Perth, WA 6150, Australia [clark@fizzy.murdoch.edu.au]

C. W. Juels, P. O. Box 19960, Fountain Hills, AZ 85269, U.S.A.

[cwjuels@futureone.com]

Observers M. L. Clark, C. W. Juels, M. Schwartz, P. Holvorcem

Measurers M. L. Clark, C. W. Juels

0.2-m  $f/6$  Newtonian + CCD, 0.50-m  $f/10$  reflector + CCD

2000 UM<sub>11</sub>, 6, 1, 0; 2000 UN<sub>11</sub>, 6, 1, 0; [12, 2, 0\*, 2000/10/27]

**250 Hubble Space Telescope**

M. McMaster, Space Telescope Science Institute, 3700 San Martin Drive,

Baltimore, MD 21218, U.S.A. [mcmaster@stsci.edu]

Observer K. Noll

Measurers R. W. Evans, K. R. Stapelfeldt

2.4-m reflector +  $f/28.3$  CCD, 2.4-m reflector +  $f/12.9$  CCD

2000 QR<sub>1</sub>, 4, 1, 0; [4, 1, 0\*, 1995/06/07]

**260 Siding Spring-DSS**

A. Gnädig, c/o Archenhold-Sternwarte, Alt-Treptow 1, D-12435 Berlin, Germany

[gnadig@mind.de] (1)

A. Boattini, Istituto di Astrofisica Spaziale, Via Fosso del Cavaliere, I-00133 Rome,

Italy [boattini@ias.rm.cnr.it] (2)

A. Lowe, 1412 70 Avenue SW, Calgary, AB T2V 0R3, Canada

[andrew.lowe@pancanadian.ca] (4)

R. Di Luca, Via San Vittore 44, I-40136 Bologna, Italy

[diluca@astbo4.bo.astro.it] (5)

Measurers A. Gnädig (1), A. Boattini (2), G. Forti (2), M. Tombelli (2),

L. Tesi (2), A. Lowe (4), R. Di Luca (5), A. Pelloni (5)

1.2-m U.K. Schmidt

{1} 1973 UK<sub>5</sub>, 1, 1, 0; 1973 UN<sub>5</sub>, 2, 1, 0; 1987 QW, 2, 1, 0; 1989 AZ<sub>6</sub>, 2, 1, 0; 1990 TF<sub>9</sub>, 2, 1, 0; 1991 RV<sub>2</sub>, 4, 2, 1411; 1991 TX<sub>2</sub>, 2, 1, 0; 1991 TB<sub>5</sub>, 4, 2, 1892; 1991 TL<sub>13</sub>, 2, 1, 0; 1991 TU<sub>13</sub>, 3, 2, 2387; 1992 RC<sub>1</sub>, 2, 1, 0; 1992 SH<sub>17</sub>, 2, 1, 0; 1997 TM<sub>1</sub>, 2, 1, 0; 1997 TL<sub>2</sub>, 12, 6, 2636; 1997 TY<sub>5</sub>, 4, 2, 108; 1997 WM<sub>23</sub>, 2, 1, 0; 1997 XH, 4, 2, 4687; 1997 XW<sub>3</sub>, 2, 1, 0; 1997 XX<sub>4</sub>, 2, 1, 0; 1997 XZ<sub>4</sub>, 2, 1, 0; 1997 XY<sub>6</sub>, 6, 3, 4891; 1998 BK<sub>26</sub>, 2, 1, 0; 1998 DK<sub>2</sub>, 2, 1, 0; 1998 DN<sub>2</sub>, 2, 1, 0; 1998 DV<sub>13</sub>, 4, 2, 437; 1998 DD<sub>14</sub>, 4, 2, 18; 1998 DO<sub>23</sub>, 2, 1, 0; 1998 DV<sub>23</sub>, 2, 1, 0; 1998 EU, 4, 2, 2653; 1998 EP<sub>1</sub>, 3, 2, 1986; 1998 EQ<sub>1</sub>, 2, 1, 0; 1998 EF<sub>2</sub>, 2, 1, 0; 1998 EJ<sub>2</sub>, 2, 1, 0; 1998 EQ<sub>2</sub>, 2, 1, 0; 1998 ER<sub>2</sub>, 4, 2, 1930; 1998 EW<sub>2</sub>, 2, 1, 0; 1998 ER<sub>3</sub>, 5, 3, 4542; 1998 EQ<sub>6</sub>, 2, 1, 0; 1998 EW<sub>6</sub>, 2, 1, 0; 1998 FW<sub>9</sub>, 8, 4, 3514; 1998 FW<sub>15</sub>, 2, 1, 0; 1998 QM<sub>99</sub>, 2, 1, 0; 1998 WK<sub>19</sub>, 4, 2, 1; 1999 CS<sub>64</sub>, 2, 1, 0; 1999 CY<sub>120</sub>, 2, 1, 0; 1999 DS<sub>2</sub>, 2, 1, 0; 1999 EV<sub>2</sub>, 2, 1, 0; 1999 MW<sub>1</sub>, 2, 2, 3263; 1999 OS<sub>2</sub>, 2, 1, 0; 1999 PN<sub>3</sub>, 2, 1, 0; 1999 RE<sub>2</sub>, 5, 3, 2510; 1999 RE<sub>27</sub>, 2, 1, 0; 1999 RW<sub>33</sub>, 2, 1, 0; 1999 RB<sub>35</sub>, 2, 1, 0; 1999 RD<sub>119</sub>, 2, 1, 0; 1999 RR<sub>204</sub>, 2, 1, 0; 1999 RK<sub>205</sub>, 1, 1, 0; 1999 RV<sub>207</sub>, 4, 2, 6821; 1999 RB<sub>209</sub>, 2, 1, 0; 1999 RL<sub>210</sub>, 2, 1, 0; 1999 RQ<sub>211</sub>, 4, 2, 1802; 1999 TN, 2, 1, 0; 1999 TP<sub>7</sub>, 4, 2, 62; 1999 TG<sub>21</sub>, 2, 1, 0; 1999 TM<sub>32</sub>, 6, 3, 1978; 1999 TU<sub>36</sub>, 6, 3, 3583; 1999 TV<sub>95</sub>, 2, 1, 0; 1999 TX<sub>105</sub>, 2, 1, 0; 1999 TO<sub>116</sub>, 2, 1, 0; 1999 TG<sub>219</sub>, 2, 1, 0; 1999 TL<sub>261</sub>, 2, 1, 0; 1999 UE<sub>3</sub>, 2, 1, 0; 1999 UT<sub>3</sub>, 6, 3, 451; 1999 UA<sub>4</sub>, 10, 5, 3630; 1999 UM<sub>38</sub>, 4, 2, 23; 1999 UG<sub>53</sub>, 4, 2, 4394; 1999 VM<sub>2</sub>, 2, 1, 0; 1999 VC<sub>7</sub>, 2, 1, 0; 1999 VF<sub>8</sub>, 7, 4, 5018; 1999 VD<sub>12</sub>, 3, 2, 2575; 1999 VL<sub>20</sub>, 4, 2, 2812; 1999 VR<sub>20</sub>, 4, 2, 2812; 1999 VD<sub>36</sub>, 4, 2, 3288; 1999 VM<sub>63</sub>, 2, 1, 0; 1999 VL<sub>179</sub>, 2, 1, 0; 1999 WY<sub>5</sub>, 2, 1, 0; 1999 WH<sub>9</sub>, 2, 1, 0; 1999 WV<sub>17</sub>, 2, 1, 0; 1999 WF<sub>18</sub>, 2, 1, 0; 1999 XQ<sub>14</sub>, 8, 4, 5550; 1999 XZ<sub>15</sub>, 3, 2, 1112; 1999 XD<sub>17</sub>, 2, 1, 0; 1999 XV<sub>18</sub>, 2, 1, 0; 1999 XG<sub>31</sub>, 4, 2, 2974; 1999 XR<sub>31</sub>, 4, 2, 102; 1999 XW<sub>32</sub>, 1, 1, 0; 1999 XJ<sub>33</sub>, 2, 1, 0; 1999 XF<sub>34</sub>, 2, 1, 0; 1999 XT<sub>34</sub>, 2, 1, 0; 1999 XP<sub>35</sub>, 2, 1, 0; 1999 XW<sub>35</sub>, 4, 2, 1475; 1999 XY<sub>35</sub>, 2, 1, 0; 1999 XO<sub>36</sub>, 2, 1, 0; 1999 XG<sub>83</sub>, 4, 2, 2215; 1999 XG<sub>85</sub>, 2, 1, 0; 1999 XC<sub>87</sub>, 4, 2, 544; 1999 XS<sub>90</sub>, 4, 2, 75; 1999 XJ<sub>93</sub>, 1, 1, 0; 1999 XZ<sub>94</sub>, 2, 1, 0; 1999 XD<sub>95</sub>, 2, 1, 0; 1999 XB<sub>96</sub>, 3, 3, 1533; 1999 XT<sub>96</sub>, 2, 1, 0; 1999 XY<sub>103</sub>, 2, 1, 0; 1999 XS<sub>104</sub>, 2, 1, 0; 1999 XT<sub>104</sub>, 2, 1, 0; 1999 XQ<sub>105</sub>, 6, 3, 2690; 1999 XM<sub>111</sub>, 3, 2, 1585; 1999 XL<sub>114</sub>, 2, 1, 0; 1999 XG<sub>133</sub>, 4, 2, 4820; 1999 XO<sub>136</sub>, 4, 2, 25; 1999 XA<sub>160</sub>, 2, 1, 0; 1999 XT<sub>164</sub>, 2, 1, 0; 1999 XF<sub>165</sub>, 7, 4, 5545; 1999 XT<sub>165</sub>, 2, 1, 0; 1999 XX<sub>165</sub>, 2, 1, 0; 1999 XW<sub>171</sub>, 2, 1, 0; 1999 XD<sub>173</sub>, 4, 2, 2610; 1999 XJ<sub>174</sub>, 2, 1, 0; 1999 XE<sub>175</sub>, 4, 2, 4334; 1999 XK<sub>176</sub>, 2, 1, 0; 1999 XP<sub>242</sub>, 6, 3, 3365; 1999 XX<sub>257</sub>, 6, 3, 950; 1999 YQ, 2, 1, 0; 1999 YE<sub>5</sub>, 2, 1, 0; 1999 YT<sub>8</sub>, 8, 4, 5850; 2000 AA, 3, 2, 35; 2000 AH<sub>42</sub>, 2, 1, 0; 2000 CG<sub>19</sub>, 8, 4, 2250; 2000 DQ<sub>2</sub>, 4, 2, 5159; 2000 GH<sub>1</sub>, 4, 2, 50; 2000 JH<sub>7</sub>, 2, 1, 0; 2000 LD<sub>12</sub>, 2, 1, 0; 2000 OH<sub>4</sub>, 4, 2, 28; 2000 ON<sub>5</sub>, 2, 1, 0; 2000 OW<sub>9</sub>, 2, 1, 0; 2000 OZ<sub>9</sub>, 6, 3, 3782; 2000 OX<sub>14</sub>, 4, 2, 3444; 2000 OX<sub>16</sub>, 5, 3, 1936; 2000 OK<sub>39</sub>, 6, 3, 6094; 2000 OF<sub>44</sub>, 2, 1, 0; 2000 OV<sub>44</sub>, 2, 1, 0; 2000 OG<sub>45</sub>, 4, 2, 406; 2000 SQ<sub>43</sub>, 2, 1, 0; 2000 ST<sub>317</sub>, 12, 6, 4783; (15944), 4, 2, 1698; (16804), 6, 3, 2909; (16842), 4, 2, 53; [496, 157, 0\*, 1974/06/17–1996/11/02]

{2} 1995 EM<sub>1</sub>, 2, 1, 0; 2000 CU<sub>1</sub>, 2, 1, 0; [4, 2, 0\*, 1976/05/30–1984/03/07]

{4} 1972 GJ, 2, 1, 0; 1975 TU<sub>3</sub>, 2, 1, 0; 1978 SQ<sub>4</sub>, 8, 4, 6562; 1978 SF<sub>5</sub>, 2, 1, 0; 1981 EB<sub>23</sub>, 2, 1, 0; 1984 SB<sub>2</sub>, 2, 1, 0; 1988 LG, 2, 1, 0; 1989 WC<sub>2</sub>, 4, 2, 4364; 1990 BM<sub>1</sub>, 2, 1, 0; 1990 RK<sub>5</sub>, 2, 1, 0; 1990 RR<sub>17</sub>, 2, 1, 0; 1990 VW<sub>8</sub>, 2, 1, 0; 1990 WN<sub>5</sub>, 2, 1, 0; 1991 RF<sub>11</sub>, 2, 1, 0; 1991 RC<sub>27</sub>, 4, 2, 437; 1991 UQ<sub>1</sub>, 4, 2, 1087; 1992 SF<sub>14</sub>, 2, 1, 0; 1992 WK<sub>1</sub>, 2, 1, 0; 1993 TU, 2, 1, 0; 1993 VR<sub>1</sub>, 4, 2, 2098; 1993 YG, 8, 4, 3031; 1994 EW<sub>7</sub>, 3, 2, 1929; 1994 TT, 4, 2, 24; 1994 WC, 2, 1, 0; 1995 CM, 2, 1, 0; 1995 EX<sub>7</sub>, 4, 2, 3661; 1995 YB, 2, 1, 0; 1996 BV<sub>2</sub>, 2, 1, 0; 1996 GS<sub>2</sub>, 6, 3, 56; 1996 RB<sub>4</sub>, 2, 1, 0; 1996 TS<sub>5</sub>, 1, 1, 0; 1996 XM<sub>2</sub>, 2, 1, 0; 1997 AD<sub>13</sub>, 8, 4, 4795; 1997 UC<sub>11</sub>, 4, 2, 6527; 1997 WO<sub>58</sub>, 2, 1, 0; 1997 YK, 4, 2, 4021; 1997 YO<sub>10</sub>, 4, 2, 5156; 1998 BR<sub>1</sub>, 2, 1, 0; 1998 DT<sub>34</sub>, 4, 2, 1056; 1998 EM<sub>8</sub>, 6, 3, 1004; 1998 EF<sub>9</sub>, 2, 1, 0; 1998 EG<sub>10</sub>, 4, 2, 394; 1998 EK<sub>12</sub>, 6, 3, 4719; 1998 QP<sub>79</sub>, 2, 1, 0; 1998 SN<sub>22</sub>, 2, 1, 0; 1998 SH<sub>79</sub>, 4, 2, 3585; 1998 VH<sub>31</sub>, 4, 2, 4535; 1998 WB<sub>6</sub>, 2, 1, 0; 1998 XX<sub>30</sub>, 2, 1, 0; 1999 AU, 2, 1, 0; 1999 BQ<sub>12</sub>, 2, 1, 0; 1999 JY<sub>33</sub>, 2, 1, 0; 1999 JN<sub>77</sub>, 8, 4, 2659; 1999 JY<sub>80</sub>, 2, 1, 0; 1999 JR<sub>134</sub>, 2, 1, 0; 1999 KM<sub>15</sub>, 2, 1, 0; 1999 RH<sub>41</sub>, 2, 1, 0; 1999 RE<sub>123</sub>, 2, 1, 0; 1999 XM, 4, 2, 1515; 1999 XP<sub>7</sub>, 2, 1, 0; 1999 XL<sub>195</sub>, 2, 1, 0; 1999 YE<sub>9</sub>, 2, 1, 0; 2000 AN<sub>164</sub>, 2, 1, 0; 2000 CC<sub>28</sub>, 1, 1, 0; 2000 GZ<sub>59</sub>, 2, 1, 0; 2000 GJ<sub>108</sub>, 6, 3, 3095; 2000 GN<sub>113</sub>, 6, 3, 1566; 2000 GY<sub>169</sub>, 2, 1, 0; 2000 JX, 2, 1, 0; 2000 OG<sub>48</sub>, 6, 3, 1989; 2000 QD<sub>190</sub>, 14, 7, 6611; 2000 QK<sub>217</sub>, 2, 1, 0; 2000 RV<sub>26</sub>, 2, 1, 0; 2000 RZ<sub>75</sub>, 2, 1, 0; 2076 P-L, 4, 2, 2538; (1922), 4, 2, 1825; (17503), 1, 1, 0; (17782), 2, 1, 0; (17964), 2, 1, 0; [248, 79, 0\*, 1974/06/18–1997/08/30]

{5} 2000 QE<sub>9</sub>, 2, 1, 0; [2, 1, 0\*, 1986/04/02]

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{1} 1973 UN<sub>5</sub>, 6, 5, 15490; 1987 QW, 2, 1, 0; 1988 PE<sub>4</sub>, 4, 2, 15030; 1989 AZ<sub>6</sub>, 2, 1, 0; 1989 GJ<sub>8</sub>, 5, 3, 978; 1990 TG<sub>1</sub>, 4, 2, 2256; 1990 TZ<sub>1</sub>, 4, 2, 417; 1990 TF<sub>9</sub>, 3, 2, 3; 1990 TS<sub>9</sub>, 4, 2, 1866; 1991 GH<sub>11</sub>, 3, 2, 33; 1991 RH<sub>3</sub>, 2, 1, 0; 1991 RJ<sub>3</sub>, 2, 1, 0; 1991 RV<sub>4</sub>, 4, 2, 1967; 1991 TX<sub>2</sub>, 2, 1, 0; 1991 TT<sub>6</sub>, 7, 4, 2894; 1991 YE<sub>1</sub>, 2, 1, 0; 1992 RC<sub>1</sub>, 4, 3, 100; 1992 SH<sub>2</sub>, 4, 2, 391; 1992 SQ<sub>23</sub>, 2, 1, 0; 1994 AF<sub>16</sub>, 2, 1, 0; 1995 OH<sub>10</sub>, 2, 1, 0; 1997 NU<sub>4</sub>, 2, 1, 0; 1997 OG<sub>2</sub>, 2, 1, 0; 1997 OL<sub>2</sub>, 8, 4, 16093; 1997 PS, 4, 2, 1413; 1997 RS<sub>3</sub>, 5, 2, 13442; 1997 SS<sub>4</sub>, 5, 3, 1355; 1997 SX<sub>9</sub>, 2, 1, 0; 1997 TM<sub>1</sub>, 2, 1, 0; 1997 TL<sub>2</sub>, 7, 3, 12465; 1997 TY<sub>5</sub>, 9, 4, 14600; 1997 WO<sub>23</sub>, 7, 4, 14966; 1997 XW<sub>3</sub>, 10, 5, 14377; 1997 XZ<sub>4</sub>, 6, 2, 1010; 1997 XY<sub>6</sub>, 2, 1, 0; 1997 XN<sub>8</sub>, 6, 2, 566; 1997 XV<sub>8</sub>, 5, 2, 14620; 1997 XD<sub>9</sub>, 2, 1, 0; 1998 BK<sub>26</sub>, 8, 3, 15706; 1998 BL<sub>26</sub>, 5, 3, 2417; 1998 BZ<sub>32</sub>, 9, 4, 14292; 1998 CC<sub>2</sub>, 2, 1, 0; 1998 DK<sub>2</sub>, 1, 1, 0; 1998 DN<sub>2</sub>, 6, 3, 1481; 1998 DV<sub>13</sub>, 6, 3, 2661; 1998 DZ<sub>13</sub>, 3, 2, 2072; 1998 DD<sub>14</sub>, 4, 2, 2599; 1998 DF<sub>14</sub>, 4, 2, 1649; 1998 DB<sub>20</sub>, 4, 2, 1480; 1998 DO<sub>23</sub>, 2, 1, 0; 1998 DV<sub>23</sub>, 3, 2, 1511; 1998 EU, 3, 2, 13403; 1998 EP<sub>1</sub>, 6, 2, 53; 1998 EQ<sub>1</sub>, 2, 1, 0; 1998 EV<sub>1</sub>, 5, 3, 15030; 1998 EX<sub>1</sub>, 2, 1, 0; 1998 EA<sub>2</sub>, 2, 1, 0; 1998 EJ<sub>2</sub>, 2, 1, 0; 1998 EL<sub>2</sub>, 2, 1, 0; 1998 ER<sub>2</sub>, 1, 1, 0; 1998 EP<sub>3</sub>, 2, 1, 0; 1998 ER<sub>3</sub>, 3, 2, 14963; 1998 EQ<sub>6</sub>, 2, 1, 0; 1998 ER<sub>6</sub>, 9, 4, 14771; 1998 FW<sub>9</sub>, 1, 1, 0; 1998 QM<sub>99</sub>, 2, 1, 0; 1999 CY<sub>120</sub>, 4, 2, 14615; 1999 DS<sub>2</sub>, 2, 1, 0; 1999 EV<sub>2</sub>, 3, 1, 0; 1999 MW<sub>1</sub>, 3, 2, 13141; 1999 OS<sub>2</sub>, 2, 1, 0; 1999 PM<sub>1</sub>, 3, 2, 3354; 1999 QQ<sub>1</sub>, 4, 2, 1373; 1999 RM, 3, 1, 0; 1999 RE<sub>2</sub>, 6, 3, 13550; 1999 RL<sub>3</sub>, 6, 3, 1982; 1999 RE<sub>27</sub>, 2, 1, 0; 1999 RB<sub>35</sub>, 2, 1, 0; 1999 RJ<sub>35</sub>, 4, 2, 15528; 1999 RL<sub>41</sub>, 2, 1, 0; 1999 RB<sub>116</sub>, 2, 1, 0; 1999 RD<sub>119</sub>, 8, 4, 1930; 1999 RV<sub>142</sub>, 5, 3, 2043; 1999 RO<sub>197</sub>, 2, 1, 0; 1999 RR<sub>204</sub>, 3, 2, 33; 1999 RK<sub>205</sub>, 2, 1, 0; 1999 RA<sub>210</sub>, 4, 2, 1555; 1999 RB<sub>210</sub>, 10, 5, 15863; 1999 RL<sub>210</sub>, 2, 1, 0; 1999 RQ<sub>211</sub>, 2, 1, 0; 1999 SJ<sub>2</sub>, 4, 2, 14472; 1999 TN, 2, 1, 0; 1999 TS<sub>11</sub>, 2, 1, 0; 1999 TB<sub>12</sub>, 2, 1, 0; 1999 TG<sub>21</sub>, 2, 1, 0; 1999 TM<sub>32</sub>, 3, 2, 55; 1999 TU<sub>36</sub>, 4, 2, 1771; 1999 TV<sub>95</sub>, 2, 1, 0; 1999 TL<sub>102</sub>, 2, 1, 0; 1999 TX<sub>105</sub>, 2, 1, 0; 1999 TO<sub>116</sub>, 3, 2, 13499; 1999 TG<sub>219</sub>, 6, 3, 30; 1999 TL<sub>261</sub>, 3, 2, 2272; 1999 UE<sub>3</sub>, 4, 2, 1364; 1999 UT<sub>3</sub>, 2, 1, 0; 1999 UA<sub>4</sub>, 5, 2, 12951; 1999 UM<sub>38</sub>, 4, 2, 10; 1999 UG<sub>53</sub>, 4, 2, 27; 1999 VM<sub>2</sub>, 2, 1, 0; 1999 VQ<sub>4</sub>, 8, 4, 2450; 1999 VA<sub>7</sub>, 6, 3, 2218; 1999 VC<sub>7</sub>, 4, 2, 1; 1999 VD<sub>12</sub>, 6, 3, 13781; 1999 VR<sub>20</sub>, 7, 3, 15293; 1999 VJ<sub>22</sub>, 2, 1, 0; 1999 VZ<sub>22</sub>, 11, 5, 13954; 1999 VD<sub>36</sub>, 4, 2, 1868; 1999 VM<sub>63</sub>, 4, 2, 14118; 1999 VL<sub>86</sub>, 4, 2, 62; 1999 VL<sub>179</sub>, 4, 2, 14259; 1999 WY<sub>5</sub>, 2, 1, 0; 1999 WX<sub>7</sub>, 2, 1, 0; 1999 WH<sub>9</sub>, 2, 1, 0; 1999 WV<sub>17</sub>, 4, 2, 1421; 1999 WF<sub>18</sub>, 6, 3, 13549; 1999 XS<sub>1</sub>, 3, 2, 13524; 1999 XQ<sub>8</sub>, 6, 3, 1963; 1999 XQ<sub>14</sub>, 4, 2, 32; 1999 XZ<sub>15</sub>, 4, 2, 13326; 1999 XD<sub>17</sub>, 1, 1, 0; 1999 XV<sub>18</sub>, 2, 1, 0; 1999 XW<sub>32</sub>, 2, 1, 0; 1999 XJ<sub>33</sub>, 2, 1, 0; 1999 XP<sub>35</sub>, 1, 1, 0; 1999 XQ<sub>35</sub>, 4, 2, 13736; 1999 XW<sub>35</sub>, 2, 1, 0; 1999 XY<sub>35</sub>, 2, 1, 0; 1999 XO<sub>36</sub>, 2, 1, 0; 1999 XQ<sub>38</sub>, 2, 1, 0; 1999 XG<sub>83</sub>, 2, 1, 0; 1999 XG<sub>85</sub>, 5, 3, 138; 1999 XC<sub>87</sub>, 3, 2, 2226; 1999 XS<sub>90</sub>, 2, 1, 0; 1999 XJ<sub>93</sub>, 4, 2, 65; 1999 XZ<sub>93</sub>, 8, 4, 552; 1999 XZ<sub>94</sub>, 2, 1, 0; 1999 XD<sub>95</sub>, 2, 1, 0; 1999 XB<sub>96</sub>, 2, 1, 0; 1999 XF<sub>96</sub>, 4, 2, 3060; 1999 XT<sub>96</sub>, 2, 1, 0; 1999 XY<sub>103</sub>, 8, 4, 2000; 1999 XS<sub>104</sub>, 6, 3, 1097; 1999 XT<sub>104</sub>, 2, 1, 0; 1999 XQ<sub>105</sub>, 4, 2, 1851; 1999 XM<sub>111</sub>, 4, 2, 56; 1999 XL<sub>127</sub>, 2, 1, 0; 1999 XG<sub>133</sub>, 2, 1, 0; 1999 XO<sub>136</sub>, 2, 1, 0; 1999 XG<sub>164</sub>, 4, 2, 1977; 1999 XT<sub>164</sub>, 2, 1, 0; 1999 XF<sub>165</sub>, 1, 1, 0; 1999 XT<sub>165</sub>, 3, 2, 1940; 1999 XX<sub>165</sub>, 2, 1, 0; 1999 XW<sub>171</sub>, 2, 1, 0; 1999 XD<sub>173</sub>, 4, 2, 2457; 1999 XE<sub>175</sub>, 8, 4, 16371; 1999 XL<sub>176</sub>, 6, 3, 1472; 1999 XA<sub>183</sub>, 4, 2, 15529; 1999 XZ<sub>191</sub>, 4, 2, 2327; 1999 XP<sub>242</sub>, 2, 1, 0; 1999 XX<sub>257</sub>, 2, 1, 0; 1999 YB<sub>7</sub>, 6, 3, 14282; 2000 AH<sub>5</sub>, 4, 2, 117; 2000 AH<sub>42</sub>, 2, 1, 0; 2000 CG<sub>19</sub>, 3, 1, 0; 2000 EB<sub>173</sub>, 2, 1, 0; 2000 JH<sub>7</sub>, 2, 1, 0; 2000 KR<sub>17</sub>, 2, 1, 0; 2000 LD<sub>12</sub>, 11, 4, 16926; 2000 LJ<sub>12</sub>, 4, 2, 0Z<sub>9</sub>, 2, 1, 0; 2000 OH<sub>4</sub>, 4, 3, 12704; 2000 ON<sub>5</sub>, 6, 2, 13613; 2000 OW<sub>9</sub>, 2, 1, 0; 2000 OX<sub>14</sub>, 8, 2, 32; 2000 OX<sub>16</sub>, 3, 1, 0; 2000 OM<sub>23</sub>, 4, 2, 576; 2000 OK<sub>39</sub>, 4, 2, 12814; 2000 OF<sub>44</sub>, 6, 3, 12836; 2000 OV<sub>44</sub>, 4, 2, 14701; 2000 OG<sub>45</sub>, 3, 1, 0; 2000 SQ<sub>43</sub>, 2, 1, 0; 2000 SR<sub>44</sub>, 2, 2, 504; 2000 ST<sub>317</sub>, 4, 2, 883; (15944), 4, 2, 14293; (16110), 4, 2, 2594; (16845), 9, 5, 4199; (16969), 4, 3, 15494; [737, 199, 0\*, 1949/11/30–1998/05/20]

{2} 1998 NU, 4, 1, 0; 1999 AV<sub>22</sub>, 2, 1, 0; 2000 CS<sub>1</sub>, 2, 1, 0; 2000 CX<sub>1</sub>, 2, 1, 0; (2212), 2, 1, 0; [12, 5, 0\*, 1952/04/19–1996/04/09]

{4} 1972 GJ, 2, 1, 0; 1975 TU<sub>3</sub>, 2, 1, 0; 1978 SQ<sub>4</sub>, 2, 1, 0; 1981 EB<sub>23</sub>, 2, 1, 0; 1981 SN, 2, 1, 0; 1984 SB<sub>2</sub>, 4, 2, 13609; 1988 LG, 2, 1, 0; 1989 WC<sub>2</sub>, 2, 1, 0; 1990 DW, 2, 1, 0; 1990 RM<sub>9</sub>, 4, 2, 5; 1990 RN<sub>9</sub>, 2, 1, 0; 1990 SD<sub>2</sub>, 2, 1, 0; 1990 VW<sub>8</sub>, 2, 1, 0; 1990 WN<sub>5</sub>, 2, 1, 0; 1991 AU<sub>1</sub>, 2, 1, 0; 1991 RF<sub>11</sub>, 2, 1, 0; 1991 RC<sub>27</sub>, 4, 2, 13818; 1992 JU<sub>2</sub>, 4, 2, 2600; 1992 ME, 2, 1, 0; 1992 SF<sub>14</sub>, 4, 2, 12071; 1993 MB<sub>1</sub>, 2, 1, 0; 1993 TU, 2, 1, 0; 1993 VR<sub>1</sub>, 2, 1, 0; 1993 YG, 4, 2, 14372; 1994 ES<sub>6</sub>,

2, 1, 0; 1994 EW<sub>7</sub>, 2, 1, 0; 1994 TT, 4, 2, 12988; 1995 BF<sub>1</sub>, 2, 1, 0; 1995 CM, 2, 1, 0; 1995 EX<sub>7</sub>, 6, 3, 16413; 1995 YY<sub>2</sub>, 8, 4, 2136; 1996 AU<sub>3</sub>, 4, 2, 45; 1996 DP<sub>2</sub>, 4, 2, 2624; 1996 GS<sub>2</sub>, 4, 2, 11980; 1996 HV<sub>9</sub>, 2, 1, 0; 1996 RB<sub>4</sub>, 2, 1, 0; 1996 TS<sub>5</sub>, 4, 2, 15444; 1996 VJ<sub>30</sub>, 4, 2, 2; 1996 XM<sub>2</sub>, 4, 2, 475; 1997 AP<sub>4</sub>, 6, 3, 17007; 1997 AD<sub>13</sub>, 2, 1, 0; 1997 GQ<sub>14</sub>, 2, 1, 0; 1997 UF<sub>2</sub>, 2, 1, 0; 1997 UC<sub>11</sub>, 2, 1, 0; 1997 XK<sub>9</sub>, 2, 1, 0; 1997 YO<sub>10</sub>, 2, 1, 0; 1998 BE<sub>8</sub>, 2, 1, 0; 1998 DT<sub>34</sub>, 4, 2, 11526; 1998 EG<sub>10</sub>, 2, 1, 0; 1998 FT<sub>53</sub>, 2, 1, 0; 1998 FG<sub>69</sub>, 2, 1, 0; 1998 QP<sub>79</sub>, 2, 1, 0; 1998 SN<sub>22</sub>, 2, 1, 0; 1998 VH<sub>31</sub>, 4, 2, 11657; 1998 WG<sub>20</sub>, 2, 1, 0; 1998 XX<sub>30</sub>, 2, 1, 0; 1999 AU, 4, 2, 12025; 1999 BJ<sub>14</sub>, 2, 1, 0; 1999 CE<sub>67</sub>, 2, 1, 0; 1999 DK<sub>2</sub>, 4, 2, 14878; 1999 DP<sub>2</sub>, 4, 2, 15289; 1999 GJ<sub>4</sub>, 2, 1, 0; 1999 JY<sub>33</sub>, 4, 2, 14079; 1999 JW<sub>43</sub>, 4, 2, 91; 1999 JN<sub>77</sub>, 2, 1, 0; 1999 KM<sub>15</sub>, 2, 1, 0; 1999 MX<sub>1</sub>, 2, 1, 0; 1999 OQ<sub>2</sub>, 2, 1, 0; 1999 RH<sub>41</sub>, 2, 1, 0; 1999 TU<sub>11</sub>, 4, 2, 12311; 1999 VQ<sub>12</sub>, 2, 1, 0; 1999 VF<sub>24</sub>, 2, 1, 0; 1999 XP<sub>7</sub>, 4, 2, 1; 1999 XM<sub>71</sub>, 2, 1, 0; 1999 XD<sub>118</sub>, 2, 1, 0; 1999 XJ<sub>143</sub>, 2, 1, 0; 1999 XS<sub>143</sub>, 2, 1, 0; 1999 XP<sub>194</sub>, 2, 1, 0; 1999 YE<sub>9</sub>, 2, 1, 0; 2000 AQ<sub>14</sub>, 2, 1, 0; 2000 AH<sub>80</sub>, 6, 3, 1030; 2000 AN<sub>164</sub>, 2, 1, 0; 2000 CL<sub>94</sub>, 4, 2, 541; 2000 EV<sub>26</sub>, 2, 1, 0; 2000 GJ<sub>108</sub>, 2, 1, 0; 2000 GN<sub>113</sub>, 2, 1, 0; 2000 GY<sub>169</sub>, 2, 1, 0; 2000 HG<sub>30</sub>, 4, 2, 1382; 2000 HV<sub>75</sub>, 4, 2, 3121; 2000 JX, 2, 1, 0; 2000 JS<sub>47</sub>, 2, 1, 0; 2000 OG<sub>48</sub>, 2, 1, 0; 2000 QT<sub>119</sub>, 4, 2, 1090; 2000 QK<sub>217</sub>, 6, 3, 12447; 2000 RV<sub>26</sub>, 6, 3, 13116; 2000 RZ<sub>75</sub>, 4, 2, 12321; 2076 P-L, 2, 1, 0; (1627), 2, 1, 0; (1862), 2, 1, 0; (2212), 4, 2, 387; (3200), 4, 2, 1; (3288), 2, 1, 0; (3553), 2, 1, 0; (3691), 2, 1, 0; (4179), 2, 1, 0; (4544), 2, 1, 0; (5587), 2, 1, 0; (5646), 2, 1, 0; (5836), 2, 1, 0; (5869), 2, 1, 0; (6455), 2, 1, 0; (7025), 4, 2, 1; (7604), 2, 1, 0; (11284), 4, 2, 30; (16834), 2, 1, 0; (17495), 2, 1, 0; (17839), 2, 1, 0; (17948), 2, 1, 0; (17964), 4, 2, 2628; (18137), 2, 1, 0; [330, 120, 0\*, 1950/02/17–1998/04/30]

**292 Burlington**

T. Handley, 13 Linden Road, Burlington, NJ 08016, U.S.A.

0.30-m Schmidt-Cassegrain + focal reducer + CCD

GSC

2000 JK<sub>1</sub>, 2, 1, 0; [2, 1, 0\*, 1996/09/20]

**294 Astrophysical Observatory, College of Staten Island**

I. Robbins, The College of Staten Island, 2800 Victory Boulevard, Staten Island, NY 10314, U.S.A. [robbins@postbox.csi.cuny.edu]

0.41-m *f*/6.0 Schmidt-Cassegrain + CCD

GSC

1985 CX<sub>1</sub>, 4, 2, 1; 1992 JD<sub>3</sub>, 4, 2, 1; (2100), 5, 1, 0; (2793), 6, 3, 17; (3024), 7, 3, 2; (3635), 4, 2, 1; (3639), 2, 1, 0; (3732), 2, 1, 0; (8253), 4, 2, 9; (8585), 3, 2, 1; (8718), 3, 2, 1; (8798), 3, 1, 0; (10686), 2, 1, 0; (11091), 3, 2, 1; (11112), 2, 1, 0; (11227), 4, 2, 1; (15505), 2, 2, 1; (17274), 4, 2, 2; (17377), 5, 2, 1; (17383), 4, 2, 1; (17401), 4, 2, 1; (17803), 4, 2, 9; (17862), 5, 2, 1; (17970), 3, 2, 1; (18109), 4, 2, 4; (18172), 4, 2, 1; [97, 26, 0\*, 2000/08/22–2000/11/03]

**300 Bisei Spaceguard Center–BATTeRS**

S. Isobe, National Astronomical Observatory, Mitaka, Tokyo 181, Japan

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Observers A. Asami, D. J. Asher, S. Hashimoto, S. Isobe, S. Nakano, Y. Oshima,  
J. Terazono, T. Urata, M. Yoshikawa

0.50-m *f*/2.0 reflector + CCD

GSC, USNO-A2.0

1979 TY<sub>1</sub>, 2, 1, 0; 1989 UE<sub>1</sub>, 7, 3, 2; 1991 PY<sub>3</sub>, 6, 4, 3; 1992 YU<sub>2</sub>, 2, 1, 0; 1993 UF<sub>7</sub>, 2, 1, 0; 1995 WT<sub>15</sub>, 6, 2, 1; 1996 VA<sub>31</sub>, 1, 1, 0; 1997 BO<sub>1</sub>, 4, 1, 0; 1997 CQ<sub>11</sub>, 2, 1, 0; 1997 WA<sub>42</sub>, 2, 1, 0; 1997 XK<sub>1</sub>, 8, 3, 2; 1997 YF<sub>10</sub>, 3, 1, 0; 1998 BJ<sub>15</sub>, 2, 1, 0; 1998 CM<sub>3</sub>, 2, 1, 0; 1998 EG<sub>10</sub>, 3, 1, 0; 1998 FJ<sub>24</sub>, 3, 1, 0; 1998 FL<sub>53</sub>, 2, 1, 0; 1998 HV<sub>18</sub>, 2, 1, 0; 1998 HS<sub>19</sub>, 2, 1, 0; 1998 KP<sub>19</sub>, 2, 1, 0; 1999 HF<sub>3</sub>, 5, 2, 1; 1999 JO<sub>24</sub>, 2, 1, 0; 1999 JH<sub>25</sub>, 5, 3, 2; 1999 JK<sub>37</sub>, 3, 1, 0; 1999 JH<sub>58</sub>, 5, 2, 1; 1999 JZ<sub>61</sub>, 3, 1, 0; 1999 JS<sub>64</sub>, 2, 1, 0; 1999 LE<sub>14</sub>, 3, 1, 0; 2000 OA<sub>9</sub>, 23, 9, 34; 2000 OV<sub>21</sub>, 4, 1, 0; 2000 QR<sub>7</sub>, 3, 1, 0; 2000 QG<sub>118</sub>, 2, 1, 0; 2000 QD<sub>128</sub>, 2, 1, 0; 2000 QN<sub>128</sub>, 3, 1, 0; 2000 QZ<sub>128</sub>, 2, 1, 0; 2000 QS<sub>129</sub>, 2, 1, 0; 2000 QX<sub>136</sub>, 3, 1, 0; 2000 RP<sub>5</sub>, 4, 1, 0; 2000 RB<sub>7</sub>, 2, 1, 0; 2000 RN<sub>7</sub>, 2, 1, 0; 2000 RL<sub>46</sub>, 7, 3, 6; 2000 RD<sub>51</sub>, 4, 2, 6; 2000 RE<sub>66</sub>, 4, 2, 10; 2000 RJ<sub>72</sub>, 8, 3, 2; 2000 RW<sub>73</sub>, 2, 1, 0; 2000 SR<sub>4</sub>, 11, 5, 27; 2000 SY<sub>24</sub>, 2, 1, 0; 2000 SW<sub>44</sub>, 2, 1, 0; 2000 SR<sub>87</sub>, 4, 2, 1; 2000 SV<sub>87</sub>, 2, 1, 0; 2000 SW<sub>87</sub>, 5, 2, 2; 2000 SV<sub>88</sub>, 5, 2, 3; 2000 SO<sub>121</sub>, 4, 2, 1; 2000 SK<sub>142</sub>, 2, 1, 0; 2000 SY<sub>156</sub>, 3, 1, 0; 2000 SF<sub>178</sub>, 7, 3, 4; 2000 SN<sub>179</sub>, 8, 4, 2; 2000 SJ<sub>179</sub>, 6, 3, 9; 2000 SU<sub>179</sub>, 7, 3, 2; 2000 SL<sub>188</sub>, 2, 1, 0; 2000 SZ<sub>276</sub>, 7, 3, 7; 2000 SD<sub>278</sub>, 7, 3, 2; 2000 TA<sub>2</sub>, 4, 2, 10; 2000 TB<sub>2</sub>, 12, 5, 16; 2000 TZ<sub>12</sub>, 2, 1, 0; 2000 TR<sub>32</sub>, 6, 3, 17; 2000 TO<sub>51</sub>, 7, 3, 3; 2000 UB \*, 13, 5, 16; 2000 UC \*, 8, 4, 12; 2000 UG \*, 6, 3, 6; 2000 UD<sub>3</sub>, 6, 2, 1; 2000 UE<sub>3</sub>, 1, 1, 0; 2000 UQ<sub>6</sub>, 15, 6, 11; 2000 UR<sub>6</sub>, 8, 3, 2; 2000 UQ<sub>11</sub> \*, 16, 6, 11; 2000 UV<sub>13</sub> \*, 47, 9, 16; 2000 UT<sub>35</sub>, 11, 5, 10; 2000 UU<sub>35</sub>, 12, 4, 3; 2000 UX<sub>35</sub>, 12, 4, 3; 2000 UG<sub>71</sub>, 5, 2, 1; 2000 UK<sub>71</sub>, 1, 1, 0; 2000 UQ<sub>73</sub>, 4, 2, 1; 2000 UW<sub>95</sub>, 7, 3, 10; 2000 VF<sub>38</sub> \*, 7, 3, 3; (224), 3, 1, 0; (440), 5, 2, 9; (893), 3, 1, 0; (897), 2, 1, 0; (1622), 2, 1, 0; (1813), 12, 4, 3; (2007), 2, 1, 0; (2126), 3, 1, 0; (2188), 4, 1, 0; (2384), 2,

1, 0; (2412), 3, 1, 0; (2436), 4, 2, 4; (2740), 3, 1, 0; (2835), 3, 1, 0; (3024), 3, 1, 0; (3091), 3, 1, 0; (3208), 2, 1, 0; (3863), 2, 1, 0; (3876), 3, 1, 0; (3902), 2, 1, 0; (4106), 2, 1, 0; (4280), 2, 1, 0; (4709), 3, 1, 0; (4729), 8, 4, 3; (4760), 4, 2, 6; (5578), 2, 1, 0; (5624), 3, 1, 0; (6076), 2, 1, 0; (6303), 7, 3, 3; (6317), 9, 3, 6; (6486), 2, 1, 0; (7090), 5, 2, 10; (7223), 6, 3, 17; (7588), 2, 1, 0; (8393), 2, 1, 0; (8445), 2, 1, 0; (8562), 4, 2, 17; (8563), 3, 1, 0; (8838), 3, 1, 0; (9456), 2, 1, 0; (10723), 2, 1, 0; (10825), 2, 1, 0; (11152), 8, 3, 3; (11165), 4, 2, 7; (11423), 16, 6, 11; (11517), 2, 1, 0; (12352), 2, 1, 0; (16393), 2, 1, 0; (16886), 3, 1, 0; (16927), 2, 1, 0; (17048), 2, 1, 0; (17164), 2, 1, 0; (17433), 2, 1, 0; (17531), 8, 3, 3; (17537), 2, 1, 0; (17620), 11, 4, 8; (17638), 2, 1, 0; (17696), 2, 1, 0; (17769), 9, 4, 9; (17842), 9, 3, 2; (17862), 2, 1, 0; (18161), 2, 1, 0; [699, 147, 6\*, 2000/10/03-2000/11/06]

### 303 Mérida

O. Naranjo, Dept. de Física, Universidad de los Andes, Mérida 5101, Venezuela  
[naranjo@ciens.ula.ve]

1.0-m Schmidt

2000 EG<sub>67</sub>, 3, 1, 0; [3, 1, 0\*, 1994/02/08]

### 322 Perth Observatory, Bickley-MCT

J. Biggs, Perth Observatory, Bickley, WA 6076, Australia

[jamieb@calm.wa.gov.au]

Observers J. Biggs, G. Lowe

0.25-m  $f/4.5$  reflector + CCD

GSC

1997 UH<sub>9</sub>, 3, 1, 0; 1999 JN<sub>55</sub>, 3, 1, 0; 2000 EZ<sub>148</sub>, 4, 2, 6; 2000 PH<sub>6</sub>, 6, 2, 14; 2000 QV<sub>224</sub>, 8, 2, 1; 2000 RS<sub>11</sub>, 3, 1, 0; 2000 RP<sub>36</sub>, 3, 1, 0; 2000 RF<sub>74</sub>, 3, 1, 0; 2000 SY<sub>2</sub>, 6, 2, 16; 2000 SB<sub>8</sub>, 3, 1, 0; 2000 SC<sub>8</sub>, 3, 1, 0; 2000 SA<sub>10</sub>, 6, 2, 14; 2000 TH<sub>61</sub>, 6, 2, 1; (16004), 3, 1, 0; (18106), 7, 2, 8; [67, 15, 0\*, 2000/10/09-2000/10/31]

### 327 Peking Observatory, Xinglong Station

J. Zhu, National Astronomical Observatories, Chinese Academy of Sciences, 20A  
Datun Road, Chaoyang District, Beijing 100012, People's Republic of China  
[zj@bac.pku.edu.cn]

Observers J. Zhu, X. Zhou, S. J. Xue, H. Wu, J. Ma, X. M. Teng, C. H. Liu,  
S. L. Kong

Measurers X. M. Teng, C. H. Liu, S. L. Kong, J. Zhu

0.60-m Schmidt + CCD

1981 EK<sub>1</sub>, 3, 1, 0; 1981 ED<sub>18</sub>, 3, 1, 0; 1981 EU<sub>25</sub>, 3, 1, 0; 1983 RZ<sub>2</sub>, 3, 1, 0; 1988 RX<sub>10</sub>, 3, 1, 0; 1989 GY<sub>1</sub>, 9, 3, 6; 1989 TG<sub>16</sub>, 3, 1, 0; 1989 WU, 3, 1, 0; 1990 QK<sub>9</sub>, 9, 3, 7; 1990 WR<sub>2</sub>, 6, 2, 5; 1991 LF<sub>2</sub>, 3, 1, 0; 1991 RY<sub>3</sub>, 3, 1, 0; 1992 EG<sub>27</sub>, 4, 1, 0; 1992 GV<sub>3</sub>, 6, 2, 2; 1992 HN, 6, 2, 2; 1993 FD<sub>20</sub>, 3, 1, 0; 1993 OE<sub>2</sub>, 3, 1, 0; 1993 OS<sub>9</sub>, 3, 1, 0; 1993 TS<sub>16</sub>, 12, 3, 3; 1994 PB<sub>3</sub>, 13, 2, 4; 1994 PF<sub>11</sub>, 9, 3, 6; 1994 PN<sub>19</sub>, 6, 2, 1; 1994 PL<sub>21</sub>, 3, 1, 0; 1994 VF, 3, 1, 0; 1995 FU<sub>4</sub>, 6, 1, 0; 1995 QC<sub>1</sub>, 3, 1, 0; 1995 SV<sub>16</sub>, 3, 1, 0; 1995 UK<sub>8</sub>, 3, 1, 0; 1995 UJ<sub>31</sub>, 6, 2, 6; 1996 BY<sub>2</sub>, 3, 1, 0; 1996 EC<sub>1</sub>, 4, 1, 0; 1996 EL<sub>1</sub>, 3, 1, 0; 1996 EP<sub>10</sub>, 3, 1, 0; 1996 FJ<sub>2</sub>, 3, 1, 0; 1996 GS<sub>9</sub>, 6, 2, 1; 1996 HC<sub>25</sub>, 7, 1, 0; 1996 TJ<sub>2</sub>, 6, 1, 0; 1996 VH<sub>3</sub>, 3, 1, 0; 1996 VA<sub>4</sub>, 3, 1, 0; 1996 VQ<sub>17</sub>, 4, 1, 0; 1996 VD<sub>39</sub>, 3, 1, 0; 1996 XY<sub>13</sub>, 3, 1, 0; 1996 YL<sub>1</sub>, 3, 1, 0; 1997 GC<sub>4</sub>, 3, 1, 0; 1997 JV<sub>7</sub>, 3, 1, 0; 1997 NG<sub>1</sub>, 6, 2, 1; 1997 TA<sub>25</sub>, 6, 2, 1; 1997 VB<sub>6</sub>, 3, 1, 0; 1997 WB<sub>37</sub>, 4, 1, 0; 1997 WW<sub>51</sub>, 3, 1, 0; 1997 WT<sub>52</sub>, 3, 1, 0; 1997 XP<sub>8</sub>, 3, 1, 0; 1997 YL<sub>10</sub>, 3, 1, 0; 1998 AN<sub>11</sub>, 3, 1, 0; 1998 BU<sub>33</sub>, 3, 1, 0; 1998 BH<sub>35</sub>, 3, 1, 0; 1998 BC<sub>47</sub>, 6, 2, 96; 1998 DO<sub>10</sub>, 3, 1, 0; 1998 DH<sub>15</sub>, 3, 1, 0; 1998 DD<sub>32</sub>, 6, 2, 20; 1998 FO<sub>8</sub>, 3, 1, 0; 1998 FU<sub>28</sub>, 3, 1, 0; 1998 FW<sub>44</sub>, 3, 1, 0; 1998 FP<sub>49</sub>, 3, 1, 0; 1998 FZ<sub>59</sub>, 3, 1, 0; 1998 FW<sub>61</sub>, 9, 2, 2; 1998 FK<sub>64</sub>, 3, 1, 0; 1998 FH<sub>66</sub>, 3, 1, 0; 1998 FX<sub>67</sub>, 3, 1, 0; 1998 FS<sub>84</sub>, 3, 1, 0; 1998 FB<sub>91</sub>, 3, 1, 0; 1998 FT<sub>102</sub>, 6, 2, 1; 1998 FB<sub>107</sub>, 3, 1, 0; 1998 FL<sub>117</sub>, 3, 1, 0; 1998 HW<sub>102</sub>, 3, 1, 0; 1998 HZ<sub>119</sub>, 4, 1, 0; 1998 MV<sub>27</sub>, 3, 1, 0; 1998 QC<sub>17</sub>, 3, 1, 0; 1998 QW<sub>23</sub>, 3, 1, 0; 1998 QA<sub>41</sub>, 3, 1, 0; 1998 QD<sub>41</sub>, 3, 1, 0; 1998 QY<sub>47</sub>, 9, 3, 6; 1998 QS<sub>98</sub>, 3, 1, 0; 1998 QT<sub>108</sub>, 3, 1, 0; 1998 RH<sub>3</sub>, 3, 1, 0; 1998 RD<sub>16</sub>, 3, 1, 0; 1998 RN<sub>22</sub>, 6, 1, 0; 1998 RU<sub>61</sub>, 3, 1, 0; 1998 RR<sub>77</sub>, 6, 2, 5; 1998 SF<sub>6</sub>, 3, 1, 0; 1998 SC<sub>61</sub>, 6, 2, 2; 1998 SY<sub>72</sub>, 3, 1, 0; 1998 SY<sub>106</sub>, 3, 1, 0; 1998 SB<sub>146</sub>, 3, 1, 0; 1998 SD<sub>159</sub>, 3, 1, 0; 1998 TE<sub>19</sub>, 3, 1, 0; 1998 UK<sub>22</sub>, 3, 1, 0; 1998 VD<sub>14</sub>, 6, 2, 6; 1998 WQ<sub>3</sub>, 3, 1, 0; 1998 WX<sub>12</sub>, 6, 2, 2; 1998 XQ<sub>28</sub>, 3, 1, 0; 1998 XP<sub>95</sub>, 10, 3, 7; 1998 YD<sub>5</sub>, 3, 1, 0; 1998 YS<sub>6</sub>, 6, 2, 1; 1999 AJ<sub>2</sub>, 6, 2, 5; 1999 AP<sub>4</sub>, 7, 2, 8; 1999 BE<sub>10</sub>, 4, 1, 0; 1999 BP<sub>24</sub>, 3, 1, 0; 1999 CB<sub>3</sub>, 3, 1, 0; 1999 CS<sub>14</sub>, 3, 1, 0; 1999 CJ<sub>18</sub>, 6, 2, 5; 1999 CK<sub>32</sub>, 9, 3, 9; 1999 CF<sub>64</sub>, 15, 4, 9; 1999 CG<sub>78</sub>, 3, 1, 0; 1999 CT<sub>81</sub>, 4, 1, 0; 1999 DJ<sub>1</sub>, 3, 1, 0; 1999 FW<sub>27</sub>, 3, 1, 0; 1999 FB<sub>56</sub>, 3, 1, 0; 1999 GW<sub>4</sub>, 3, 1, 0; 1999 GP<sub>29</sub>, 3, 1, 0; 1999 GB<sub>31</sub>, 3, 1, 0; 1999 JM<sub>4</sub>, 6, 2, 2; 1999 JT<sub>8</sub>, 3, 1, 0; 1999 JY<sub>13</sub>, 6, 2, 14; 1999 JF<sub>21</sub>, 6, 2, 3; 1999 JO<sub>31</sub>, 3, 1, 0; 1999 JS<sub>36</sub>, 3, 1, 0; 1999 JV<sub>54</sub>, 3, 1, 0; 1999 JF<sub>58</sub>, 3, 1, 0; 1999 JH<sub>58</sub>, 3, 1, 0; 1999 JR<sub>59</sub>, 6, 2, 1; 1999 JB<sub>60</sub>, 3, 1, 0; 1999 JV<sub>69</sub>, 3, 1, 0; 1999 JB<sub>71</sub>, 3, 1, 0; 1999 JJ<sub>76</sub>, 3, 1, 0; 1999 JK<sub>83</sub>, 3, 1, 0; 1999 JZ<sub>93</sub>, 3, 1, 0; 1999 JD<sub>99</sub>, 3, 1, 0; 1999 JD<sub>117</sub>, 3, 1, 0; 1999 JP<sub>122</sub>, 3, 1, 0;

1999 JA<sub>136</sub>, 3, 1, 0; 1999 NE<sub>9</sub>, 4, 1, 0; 1999 NF<sub>23</sub>, 3, 1, 0; 1999 ND<sub>56</sub>, 3, 1, 0; 1999 RT<sub>145</sub>, 4, 1, 0; 1999 RQ<sub>184</sub>, 3, 1, 0; 1999 RL<sub>210</sub>, 3, 1, 0; 1999 TH, 3, 1, 0; 1999 TD<sub>10</sub>, 3, 1, 0; 1999 TC<sub>108</sub>, 3, 1, 0; 1999 TC<sub>189</sub>, 3, 1, 0; 1999 TJ<sub>189</sub>, 2, 1, 0; 1999 VS<sub>26</sub>, 3, 1, 0; 1999 VZ<sub>92</sub>, 3, 1, 0; 1999 XA<sub>34</sub>, 3, 1, 0; 1999 XC<sub>160</sub>, 3, 1, 0; 2000 AF<sub>69</sub>, 3, 1, 0; 2000 AO<sub>96</sub>, 3, 1, 0; 2000 AS<sub>96</sub>, 6, 1, 0; 2000 AJ<sub>120</sub>, 3, 1, 0; 2000 AG<sub>137</sub>, 3, 1, 0; 2000 AC<sub>170</sub>, 3, 1, 0; 2000 AG<sub>198</sub>, 3, 1, 0; 2000 AB<sub>216</sub>, 8, 1, 0; 2000 AF<sub>222</sub>, 3, 1, 0; 2000 AF<sub>227</sub>, 9, 2, 2; 2000 AG<sub>246</sub>, 3, 1, 0; 2000 BC<sub>2</sub>, 6, 2, 2; 2000 BA<sub>9</sub>, 9, 2, 2; 2000 BV<sub>10</sub>, 3, 1, 0; 2000 CT<sub>1</sub>, 3, 1, 0; 2000 CV<sub>1</sub>, 3, 1, 0; 2000 CR<sub>2</sub>, 6, 2, 2; 2000 CS<sub>32</sub>, 16, 3, 6; 2000 CX<sub>32</sub>, 6, 2, 2; 2000 CZ<sub>33</sub>, 12, 2, 2; 2000 CD<sub>34</sub>, 9, 1, 0; 2000 CF<sub>34</sub>, 6, 2, 2; 2000 CJ<sub>34</sub>, 3, 1, 0; 2000 CP<sub>36</sub>, 6, 2, 1; 2000 CZ<sub>36</sub>, 3, 1, 0; 2000 CX<sub>48</sub>, 9, 2, 2; 2000 CZ<sub>48</sub>, 9, 2, 2; 2000 CA<sub>49</sub>, 3, 1, 0; 2000 CE<sub>49</sub>, 6, 1, 0; 2000 CG<sub>49</sub>, 6, 1, 0; 2000 CD<sub>52</sub>, 9, 3, 3; 2000 CY<sub>53</sub>, 3, 1, 0; 2000 CA<sub>58</sub>, 3, 1, 0; 2000 CQ<sub>66</sub>, 3, 1, 0; 2000 CF<sub>76</sub>, 6, 2, 1; 2000 CR<sub>82</sub>, 19, 4, 7; 2000 CN<sub>83</sub>, 7, 1, 0; 2000 CS<sub>83</sub>, 3, 1, 0; 2000 CQ<sub>92</sub>, 3, 1, 0; 2000 CU<sub>92</sub>, 3, 1, 0; 2000 CD<sub>94</sub>, 3, 1, 0; 2000 CM<sub>97</sub>, 3, 1, 0; 2000 CQ<sub>102</sub>, 6, 1, 0; 2000 DP<sub>1</sub>, 4, 1, 0; 2000 DL<sub>3</sub>, 7, 2, 10; 2000 DQ<sub>13</sub>, 3, 1, 0; 2000 DV<sub>13</sub>, 6, 2, 1; 2000 DY<sub>13</sub>, 3, 1, 0; 2000 DZ<sub>13</sub>, 3, 1, 0; 2000 DT<sub>16</sub>, 6, 2, 2; 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(18239), 3, 1, 0; (18277), 3, 1, 0; *[3057, 734, 5\*, 1995/08/04-2000/11/02]*

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Observers C. Park, M.-Y. Chun, S.-L. Kim, Y.-H. Park, S.-H. Lee, B.-C. Lee

Measurer M.-Y. Chun

1.8-m  $f/8$  reflector + CCD

GSC, USNO-A2.0

2000 UV<sub>13</sub>, 3, 1, 0; 2000 UW<sub>13</sub>, 3, 1, 0; 2000 UR<sub>16</sub>, 6, 2, 1; 2000 UT<sub>16</sub>, 3, 1, 0; 2000 UU<sub>16</sub>, 3, 1, 0; 2000 UE<sub>110</sub>, 3, 1, 0; *[21, 6, 0\*, 2000/10/29-2000/10/30]*

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Chongwonkun, Chungbuk 363-791, Republic of Korea

Observers S.-G. Kwon, J.-J. Kim

Measurer H.-S. Park

0.40-m reflector + CCD

GSC

(1282), 6, 2, 1; (4768), 6, 2, 1; *[12, 2, 0\*, 2000/11/05-2000/11/06]*

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0.18-m  $f/5.5$  reflector + CCD

GSC-ACT

2000 DG<sub>8</sub>, 3, 1, 0; 2000 DP<sub>107</sub>, 4, 1, 0; 2000 NM, 16, 5, 29; 2000 OG<sub>44</sub>, 3, 1, 0; 2000 QN<sub>130</sub>, 6, 2, 28; 2000 RX<sub>77</sub>, 3, 1, 0; 2000 UG<sub>11</sub>, 4, 1, 0; 2000 UV<sub>13</sub>, 12, 3, 12; (1362), 6, 2, 7; (3102), 3, 1, 0; *[60, 10, 0\*, 2000/10/06-2000/11/04]*

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0.28-m  $f/5.0$  reflector + CCD

GSC

1999 KV<sub>4</sub>, 2, 1, 0; (8841), 2, 1, 0; *[4, 2, 0\*, 2000/10/27]*

### 355 Hadano

A. Asami, 28-1 Nishitawara, Hadano, Kanagawa-Ken, 257 Japan

[[asami@st.rim.or.jp](mailto:asami@st.rim.or.jp)]

0.2-m  $f/6.0$  reflector + CCD, 0.28-m  $f/5.0$  reflector + CCD

GSC

2000 UV<sub>13</sub>, 3, 1, 0; *[3, 1, 0\*, 2000/10/30]*

### 360 Kuma Kogen Astronomical Observatory

A. Nakamura, Shimo-Hatanokawa, Kuma, Kamiukena-Gun, Ehime-Ken, 791-1212

Japan [[a-nakamu@mx2.nisiq.net](mailto:a-nakamu@mx2.nisiq.net)]

0.60-m  $f/5.8$  Ritchey-Chrétien + CCD

GSC-ACT, USNO-A2.0

2000 RJ<sub>34</sub>, 3, 1, 0; 2000 SB<sub>8</sub>, 3, 1, 0; 2000 SQ<sub>43</sub>, 3, 1, 0; 2000 UJ<sub>1</sub>, 3, 1, 0; 2000 UG<sub>11</sub>, 3, 1, 0; 2000 UH<sub>11</sub>, 3, 1, 0; 2000 UW<sub>13</sub>, 3, 1, 0; *[21, 7, 0\*, 2000/10/30-2000/11/03]*

### 365 Kashihara

F. Uto, 12-1 Shirakashi Cho 7 Chome, Kashihara, Nara-Ken, 634 Japan

[[nag01736@niftyserve.or.jp](mailto:nag01736@niftyserve.or.jp)]

0.28-m  $f/6.3$  refractor + CCD

GSC

2000 RF<sub>74</sub>, 4, 2, 3; *[4, 1, 0\*, 2000/10/27-2000/10/30]*

### 376 Uenohara

N. Kawasato, 3-11-10, Hana-Koganei, Kodaira, Tokyo, 187 Japan

0.30-m reflector + CCD

GSC

2000 QX<sub>136</sub>, 2, 1, 0; *[2, 1, 0\*, 1992/09/27]*

### 381 Kiso

S. Isobe, National Astronomical Observatory, Mitaka, Tokyo 181, Japan

[[isobesz@cc.nao.ac.jp](mailto:isobesz@cc.nao.ac.jp)]

Observers S. Isobe, Y. Asakura, M. Saito, K. Sasahara, H. Maehara, K. Nakajima,

N. Ohshiba

Measurer D. J. Asher

1.05-m Kiso Schmidt + CCD

GSC

2000 DJ<sub>100</sub>, 4, 1, 0; *[4, 1, 0\*, 1996/04/23]*

**392 JCPM Sapporo Station**

K. Watanabe, 3-8-B203, Ashibetsu Chuo 3 Jo 4 Chome, Shiroishi-Ku, Sapporo 005, Japan

0.30-m  $f/2.7$  Schmidt camera

AGK3, SAOC

2000 UK<sub>2</sub> \*, 5, 2, 1; [5, 1, 1\*, 2000/10/21–2000/10/22]

**402 Dynic Astronomical Observatory**

A. Sugie, Dynic Astronomical Observatory, Taga 283-1, Taga, Inukami-Gun, Shiga-Ken, 522-0341 Japan [hhf00201@niftyserve.or.jp]

Observers A. Sugie, Y. Ikari

0.60-m  $f/5.0$  reflector + CCD

GSC

2000 SB<sub>1</sub>, 3, 1, 0; 2000 SB<sub>8</sub>, 3, 1, 0; 2000 SY<sub>162</sub>, 3, 1, 0; 2000 SS<sub>164</sub>, 3, 1, 0; 2000 UG<sub>11</sub>, 7, 2, 11; 2000 UH<sub>11</sub>, 4, 1, 0; 2000 UJ<sub>11</sub>, 4, 1, 0; 2000 UL<sub>11</sub>, 7, 2, 11; 2000 UV<sub>16</sub>, 3, 1, 0; 2000 UP<sub>30</sub>, 3, 1, 0; 2000 UQ<sub>30</sub>, 2, 1, 0; 2000 VG<sub>39</sub>, 4, 1, 0; 2000 VH<sub>39</sub>, 4, 1, 0; (5611), 3, 1, 0; [53, 14, 0\*, 2000/10/26–2000/11/06]

**413 Siding Spring**

R. H. McNaught, Research School of Astronomy and Astrophysics, Siding Spring Observatory, Coonabarabran, NSW 2357, Australia [rmn@aaocbn.aao.gov.au]

Observers R. H. McNaught, K. S. Russell, R. H. McNaught, C. P. Cass, F. G. Watson

Measurer R. H. McNaught

1.2-m U.K. Schmidt, 1.0-m  $f/8$  reflector + CCD

USNO-A2.0, PPM, GSC-ACT, UCAC-1, Tycho/Hipparcos

1998 VB<sub>30</sub>, 1, 1, 0; 1999 VE<sub>114</sub>, 4, 1, 0; 2000 RO<sub>100</sub>, 2, 1, 0; [7, 3, 0\*, 1983/07/16–1996/01/26]

**423 North Ryde**

S. G. McAndrew, 2/32 Twin Rd, North Ryde, NSW 2113, Australia [sgmcmcandrew@ozemail.com.au]

0.20-m  $f/4$  hyperbolic astrograph + CCD

GSC

2000 OB<sub>9</sub>, 6, 2, 6; 2000 SY<sub>2</sub>, 5, 2, 6; [11, 2, 0\*, 2000/10/19–2000/10/25]

**428 Reedy Creek**

J. Broughton, 18 Branch Crescent, Reedy Creek, QLD 4228, Australia [reedycrk@one.net.au]

0.25-m  $f/6.3$  Schmidt-Cassegrain + CCD

GSC-ACT

1998 TU<sub>3</sub>, 2, 1, 0; 1999 FN<sub>21</sub>, 2, 1, 0; 1999 HF<sub>3</sub>, 2, 2, 8; 1999 MG, 4, 2, 21; 2000 OY<sub>21</sub>, 3, 3, 7; 2000 OB<sub>22</sub>, 2, 1, 0; 2000 QW<sub>25</sub>, 2, 1, 0; 2000 QG<sub>35</sub>, 2, 1, 0; 2000 QE<sub>71</sub>, 2, 1, 0; 2000 QV<sub>129</sub>, 2, 1, 0; 2000 QW<sub>129</sub>, 1, 1, 0; 2000 SB<sub>7</sub>, 3, 2, 7; 2000 SC<sub>8</sub>, 2, 1, 0; 2000 SU<sub>20</sub>, 1, 1, 0; 2000 UH<sub>1</sub>, 4, 1, 0; 2000 UG<sub>11</sub>, 4, 1, 0; [38, 16, 0\*, 2000/09/26–2000/11/03]

**461 JATE Asteroid Survey, Piskésető Stn. (Konkoly)**

L. Kiss, Pf. 596, H-6701 Szeged, Hungary [l.kiss@physx.u-szeged.hu]

Observers K. Sárneczky, K. Sziládi, L. Kiss, S. Csizmadia

Measurers K. Sárneczky, K. Sziládi, L. Kiss

0.60-m Schmidt + CCD

USNO-A2.0

1999 TB<sub>320</sub>, 3, 1, 0; [3, 1, 0\*, 1999/12/31]

**467 Auckland Observatory**

I. P. Griffin, Auckland Observatory, P.O. Box 24-180, Royal Oak, Auckland, New Zealand [iang@stardome.org.nz]

Observers I. P. Griffin, N. Brady

0.50-m  $f/6.4$  Cassegrain reflector + CCD

USNO-A2.0

2000 ON, 3, 1, 0; 2000 OY<sub>21</sub>, 3, 1, 0; 2000 PH<sub>6</sub>, 5, 1, 0; 2000 PN<sub>9</sub>, 3, 1, 0; 2000 RS<sub>11</sub>, 4, 1, 0; 2000 SC<sub>8</sub>, 4, 1, 0; 2000 SZ<sub>44</sub>, 3, 1, 0; 2000 TU<sub>28</sub>, 2, 1, 0; 2000 UH<sub>1</sub>, 12, 3, 10; 2000 UG<sub>11</sub>, 5, 1, 0; 2000 UH<sub>11</sub>, 3, 1, 0; 2000 UW<sub>13</sub>, 5, 1, 0; 2000 UN<sub>30</sub>, 3, 1, 0; (433), 2, 1, 0; (1627), 2, 1, 0; (2100), 9, 2, 2; [68, 16, 0\*, 2000/10/20–2000/11/02]

**469 Courroux**

H. Lehmann, Sports 6, CH-2822 Courroux, Switzerland [hubble@vtx.ch]

0.20-m  $f/6.3$  Schmidt-Cassegrain + CCD

GSC

2000 PQ<sub>9</sub>, 3, 1, 0; (3635), 3, 1, 0; (16636), 3, 1, 0; [9, 3, 0\*, 2000/09/22–2000/10/27]

**482 St. Andrews**

F. Vincent, Physics & Astronomy, University of St. Andrews, Fife KY16 9SS, Scotland [fv@st-and.ac.uk]

0.25-m  $f/6$  Schmidt-Cassegrain + CCD

GSC-1.2

(752), 12, 3, 3; [12, 1, 0\*, 2000/10/27–2000/10/30]

**504 Le Creusot**

J.-C. Merlin, 18 rue P. Mendès-France, F-71200 Le Creusot, France [merlin@obsppm.fr]

0.40-m  $f/5.1$  reflector + CCD

GSC

1999 RS<sub>100</sub>, 3, 1, 0; 2000 UE<sub>29</sub> \*, 3, 1, 0; [6, 2, 1\*, 2000/10/27–2000/10/28]

**511 Haute Provence**

J. E. Arlot, IMCCE/BDL, 77 avenue Denfert Rochereau, F-75014 Paris, France [arlot@bdl.fr]

Observers J. E. Arlot, T. Irsmbetova

Measurer N. Baron

1.20-m  $f/6.0$  reflector + CCD

USNO-A2.0

2000 SR<sub>328</sub> \*, 26, 3, 2; 2000 SS<sub>328</sub> \*, 33, 3, 2; 6243 P-L, 1, 1, 0; [60, 3, 2\*, 1991/02/20–2000/09/25]

**540 Linz**

E. Meyer, Ferd.-Marklstrasse 1/62, A-4040 Linz, Austria [erich.meyer@ooenet.at]

Observers E. Meyer, E. Obermair, H. Raab, M. Stoll

Measurers E. Meyer, H. Raab

0.60-m  $f/3.3$  reflector + CCD

USNO-A2.0, USNO-SA2.0

1998 FX<sub>29</sub>, 3, 1, 0; 2000 RV<sub>37</sub>, 3, 1, 0; 2000 SF<sub>8</sub>, 3, 1, 0; 2000 SG<sub>8</sub>, 4, 1, 0; 2000 SJ<sub>8</sub>, 3, 1, 0; 2000 SO<sub>10</sub>, 4, 1, 0; 2000 SV<sub>20</sub>, 5, 1, 0; 2000 SB<sub>25</sub>, 3, 1, 0; 2000 SR<sub>43</sub>, 4, 1, 0; 2000 TK<sub>1</sub>, 8, 2, 11; 2000 UK<sub>11</sub>, 11, 2, 1; 2000 UR<sub>13</sub>, 7, 1, 0; 2000 UW<sub>13</sub>, 4, 1, 0; [62, 13, 0\*, 1996/11/09–2000/11/02]

**544 Wilhelm Foerster Observatory, Berlin**

W. Hasse, Wilhelm-Foerster-Sternwarte, Munsterdamm 90, D-12169 Berlin, Germany [cwkl@uni.de]

Observers M. Dentel, W. Hasse, J. Mielke

Measurers E. Birsin, M. Dentel, W. Hasse, P. Jankowski, J. Mielke, A. Pikovski

0.15-m  $f/15$  double refractor, 0.75-m  $f/7.7$  Ritchey-Chrétien reflector + CCD

Hipparcos, Tycho, USNO-A2.0

(16), 1, 1, 0; (2100), 4, 1, 0; (3102), 7, 1, 0; (3759), 6, 1, 0; (16834), 6, 1, 0; [24, 5, 0\*, 1999/08/01–2000/10/01]

### 552 San Vittore

E. Colombini, Via S. Vittore 44, I-40136 Bologna, Italy

[ermes.colombini@tin.it]

Observers G. Sassi, E. Colombini, R. Di Luca

0.45-m  $f/3.3$  reflector + CCD

GSC

1995 QS<sub>2</sub>, 2, 1, 0; 1999 YB<sub>7</sub>, 3, 1, 0; [5, 2, 0\*, 1998/12/07–2000/09/01]

### 557 Ondřejov

P. Pravec, Astronomical Institute, Czech Academy of Sciences, CZ-25165 Ondřejov, Czech Republic [ppravec@asu.cas.cz]

Observers P. Kušnirák, P. Pravec, L. Šarounová, M. Wolf, V. Mešter, U. Babiaková

0.65-m  $f/3.6$  reflector + CCD

USNO-SA2.0

1995 PG<sub>4</sub>, 4, 1, 0; 1995 UZ<sub>2</sub>, 2, 1, 0; 1996 LF<sub>3</sub>, 3, 1, 0; 1996 PE<sub>5</sub>, 5, 2, 2; 1996 TA<sub>18</sub>, 3, 1, 0; 1997 RW<sub>3</sub>, 3, 1, 0; 1997 WM<sub>35</sub>, 3, 1, 0; 1998 DG<sub>20</sub>, 2, 1, 0; 1998 FD<sub>2</sub>, 4, 2, 1; 1998 HA<sub>1</sub>, 1, 1, 0; 1999 JH<sub>50</sub>, 2, 1, 0; 1999 LL<sub>26</sub>, 5, 2, 1; 1999 OQ<sub>2</sub>, 1, 0; 1999 QO<sub>7</sub>, 3, 2; 1999 UX<sub>50</sub>, 3, 1, 0; 2000 AT<sub>38</sub>, 3, 1, 0; 2000 CS<sub>56</sub>, 3, 1, 0; 2000 DM<sub>8</sub>, 5, 1, 0; 2000 PQ<sub>8</sub>, 2, 1, 0; 2000 PU<sub>9</sub>, 2, 1, 0; 2000 QL<sub>9</sub>, 6, 2, 6; 2000 QP<sub>9</sub>, 3, 1, 0; 2000 QH<sub>26</sub>, 6, 2, 9; 2000 QJ<sub>26</sub>, 6, 2, 1; 2000 QD<sub>35</sub>, 4, 2, 8; 2000 QU<sub>40</sub>, 2, 1, 0; 2000 QX<sub>68</sub>, 1, 1, 0; 2000 QT<sub>109</sub>, 2, 1, 0; 2000 QU<sub>109</sub>, 5, 2, 1; 2000 QK<sub>120</sub>, 3, 1, 0; 2000 QN<sub>130</sub>, 17, 4, 12; 2000 QP<sub>171</sub>, 2, 1, 0; 2000 QU<sub>214</sub>, 2, 1, 0; 2000 RC<sub>9</sub>, 2, 1, 0; 2000 RP<sub>36</sub>, 2, 1, 0; 2000 RW<sub>59</sub>, 2, 1, 0; 2000 RS<sub>77</sub>, 3, 1, 0; 2000 RM<sub>99</sub>, 4, 1, 0; 2000 SB<sub>1</sub>, 3, 1, 0; 2000 SP<sub>24</sub>, 7, 3, 3; 2000 SH<sub>42</sub>, 5, 2, 8; 2000 SX<sub>44</sub>, 4, 2, 7; 2000 SC<sub>163</sub>, 4, 1, 0; 2000 SD<sub>163</sub>, 2, 1, 0; 2000 SM<sub>163</sub>, 4, 2, 3; 2000 SE<sub>175</sub>, 4, 2, 6; 2000 SS<sub>177</sub>, 8, 2, 3; 2000 SC<sub>207</sub>, 10, 3, 8; 2000 SO<sub>221</sub>, 5, 2, 4; 2000 SE<sub>237</sub>, 5, 3, 2; 2000 SB<sub>269</sub>, 8, 3, 2; 2000 SZ<sub>281</sub>, 3, 1, 0; 2000 SK<sub>300</sub>, 6, 2, 7; 2000 TD<sub>34</sub>, 5, 2, 1; 2000 TM<sub>55</sub>, 3, 1, 0; 2000 UE<sub>\*</sub>, 7, 3, 2; 2000 UF<sub>\*</sub>, 9, 4, 7; 2000 UN<sub>\*</sub>, 10, 4, 8; 2000 UO<sub>\*</sub>, 6, 3, 8; 2000 UP<sub>\*</sub>, 11, 4, 13; 2000 UQ<sub>\*</sub>, 10, 4, 13; 2000 UE<sub>1</sub><sub>\*</sub>, 4, 2, 1; 2000 UF<sub>1</sub><sub>\*</sub>, 8, 3, 7; 2000 UH<sub>1</sub>, 3, 1, 0; 2000 UJ<sub>1</sub>, 13, 4, 3; 2000 UO<sub>2</sub>, 4, 2, 4; 2000 UD<sub>6</sub>, 4, 1, 0; 2000 UG<sub>11</sub>, 12, 2, 1; 2000 UJ<sub>11</sub>, 5, 1, 0; 2000 UL<sub>11</sub>, 3, 1, 0; 2000 UZ<sub>12</sub>, 6, 1, 0; 2000 UA<sub>13</sub>, 6, 2, 2; 2000 UJ<sub>13</sub><sub>\*</sub>, 7, 3, 10; 2000 UK<sub>13</sub><sub>\*</sub>, 7, 3, 10; 2000 UP<sub>13</sub><sub>\*</sub>, 10, 4, 13; 2000 UV<sub>13</sub>, 3, 1, 0; 2000 UW<sub>13</sub>, 4, 1, 0; 2000 UM<sub>15</sub><sub>\*</sub>, 11, 4, 5; 2000 UR<sub>16</sub><sub>\*</sub>, 31, 3, 4; 2000 UR<sub>30</sub><sub>\*</sub>, 7, 2, 4; 2000 US<sub>30</sub><sub>\*</sub>, 8, 2, 4; 2000 UT<sub>30</sub><sub>\*</sub>, 5, 2, 4; 2000 UU<sub>30</sub><sub>\*</sub>, 6, 2, 3; 2000 UV<sub>30</sub><sub>\*</sub>, 8, 4, 8; 2000 UE<sub>110</sub>, 9, 2, 6; 2000 VM<sub>2</sub>, 3, 1, 0; 2000 VN<sub>2</sub>, 2, 1, 0; 2000 VO<sub>2</sub><sub>\*</sub>, 12, 3, 4; 2000 VP<sub>2</sub><sub>\*</sub>, 6, 2, 1; 2000 VQ<sub>2</sub><sub>\*</sub>, 8, 3, 4; 2000 VR<sub>2</sub><sub>\*</sub>, 8, 3, 4; 2000 VS<sub>2</sub><sub>\*</sub>, 6, 2, 1; 2000 VT<sub>2</sub><sub>\*</sub>, 6, 2, 1; 2000 VL<sub>38</sub>, 3, 1, 0; 2000 VZ<sub>38</sub><sub>\*</sub>, 6, 2, 3; 2000 VG<sub>39</sub>, 2, 1, 0; 2000 VJ<sub>39</sub>, 2, 1, 0; 2612 P-L, 3, 1, 0; 6243 P-L, 3, 1, 0; (715), 3, 1, 0; (838), 3, 1, 0; (3102), 8, 2, 2; (4183), 10, 2, 6; (6368), 5, 1, 0; (8890), 2, 1, 0; (10674), 3, 1, 0; (11071), 2, 1, 0; (11109), 7, 2, 2; (14672), 4, 1, 0; (17666), 5, 1, 0; (17862), 2, 1, 0; (18234), 3, 1, 0; [586, 112, 25\*, 1997/10/31–2000/11/05]

### 561 Piskéztető Stn. (Konkoly)

J. Kelemen, Konkoly Observatory, P.O. Box 67, H-1525 Budapest, Hungary

[kelemen@ogyalla.konkoly.hu]

0.60-m Schmidt telescope + CCD

USNO-A2.0

1999 FF<sub>37</sub>, 3, 1, 0; 1999 JJ<sub>122</sub>, 3, 1, 0; [6, 2, 0\*, 1998/01/05–1998/11/25]

### 566 Haleakala-NEAT/GEODSS

E. F. Helin, MS 183-501, Jet Propulsion Laboratory, Pasadena, CA 91109, U.S.A.

[efh@ip1.jpl.nasa.gov]

Observers E. F. Helin, S. H. Pravdo, K. J. Lawrence, D. L. Rabinowitz, S. Groom,

C. Clark, R. Bamberg, S. Levin, J. Lorre, S. Shaklan, R. Byrd, A. Esquibel,

C. Cotton, D. Bascon

1-m  $f/2.2$  Ritchey-Chrétien + CCD

1978 UV<sub>4</sub>, 3, 1, 0; 1981 ES<sub>2</sub>, 3, 1, 0; 1981 ER<sub>12</sub>, 3, 1, 0; 1981 ED<sub>41</sub>, 3, 1, 0; 1985 DU<sub>1</sub>, 3, 1, 0; 1985 UU<sub>6</sub>, 1, 0; 1986 TP<sub>1</sub>, 3, 1, 0; 1989 CV<sub>2</sub>, 3, 1, 0; 1989 CR<sub>5</sub>, 3, 1, 0; 1989 GJ<sub>8</sub>, 3, 1, 0; 1989 SC<sub>3</sub>, 3, 1, 0; 1990 QB<sub>3</sub>, 3, 1, 0; 1990 TZ<sub>1</sub>, 3, 1, 0; 1990 WE<sub>5</sub>, 3, 1, 0; 1991 GH<sub>11</sub>, 3, 1, 0; 1991 NS<sub>6</sub>, 3, 1, 0; 1991 RV<sub>4</sub>, 1, 1, 0; 1991 RK<sub>8</sub>, 3, 1, 0; 1991 RR<sub>17</sub>, 3, 1, 0; 1992 SH<sub>2</sub>, 2, 1, 0; 1992 SR<sub>9</sub>, 3, 1, 0; 1994 JM<sub>6</sub>, 3, 1, 0; 1994 RF<sub>25</sub>, 3, 1, 0; 1995 FX<sub>12</sub>, 3, 1, 0; 1995 QS<sub>2</sub>, 3, 1, 0;

1996 FN<sub>18</sub>, 3, 1, 0; 1996 HZ<sub>12</sub>, 3, 1, 0; 1996 HG<sub>18</sub>, 3, 1, 0; 1996 QK<sub>3</sub>, 3, 1, 0; 1996 TT<sub>1</sub>, 6, 2, 30; 1996 TL<sub>14</sub>, 6, 2, 31; 1996 TK<sub>52</sub>, 3, 1, 0; 1996 TP<sub>68</sub>, 3, 1, 0; 1996 UR<sub>1</sub>, 3, 1, 0; 1996 VS<sub>3</sub>, 6, 2, 32; 1996 XJ<sub>5</sub>, 3, 1, 0; 1996 XV<sub>34</sub>, 3, 1, 0; 1997 AW<sub>2</sub>, 2, 1, 0; 1997 ED<sub>27</sub>, 3, 1, 0; 1997 EG<sub>33</sub>, 3, 1, 0; 1997 TY<sub>5</sub>, 2, 1, 0; 1997 XV<sub>3</sub>, 3, 1, 0; 1997 XW<sub>3</sub>, 3, 1, 0; 1997 XS<sub>4</sub>, 3, 1, 0; 1997 XZ<sub>4</sub>, 2, 1, 0; 1997 XN<sub>8</sub>, 9, 3, 555; 1997 XV<sub>8</sub>, 3, 1, 0; 1997 YE<sub>11</sub>, 3, 1, 0; 1998 BZ<sub>23</sub>, 3, 1, 0; 1998 BX<sub>34</sub>, 6, 2, 27; 1998 BP<sub>40</sub>, 3, 1, 0; 1998 BL<sub>48</sub>, 3, 1, 0; 1998 DT<sub>4</sub>, 3, 1, 0; 1998 DK<sub>5</sub>, 3, 1, 0; 1998 DO<sub>10</sub>, 3, 1, 0; 1998 DK<sub>13</sub>, 6, 2, 34; 1998 DZ<sub>13</sub>, 2, 1, 0; 1998 DD<sub>17</sub>, 3, 1, 0; 1998 DV<sub>27</sub>, 3, 1, 0; 1998 DD<sub>35</sub>, 3, 1, 0; 1998 DS<sub>35</sub>, 3, 1, 0; 1998 DN<sub>36</sub>, 3, 1, 0; 1998 EP<sub>1</sub>, 3, 1, 0; 1998 EV<sub>1</sub>, 2, 1, 0; 1998 EA<sub>10</sub>, 6, 1, 0; 1998 ER<sub>15</sub>, 6, 2, 32; 1998 EK<sub>16</sub>, 6, 2, 32; 1998 EQ<sub>17</sub>, 3, 1, 0; 1998 FA<sub>13</sub>, 6, 2, 33; 1998 FD<sub>13</sub>, 3, 1, 0; 1998 FQ<sub>17</sub>, 3, 1, 0; 1998 FV<sub>21</sub>, 3, 1, 0; 1998 FX<sub>22</sub>, 3, 1, 0; 1998 FY<sub>26</sub>, 3, 1, 0; 1998 FQ<sub>29</sub>, 3, 1, 0; 1998 FZ<sub>31</sub>, 3, 1, 0; 1998 FP<sub>33</sub>, 9, 2, 28; 1998 FY<sub>39</sub>, 3, 1, 0; 1998 FX<sub>40</sub>, 3, 1, 0; 1998 FB<sub>47</sub>, 3, 1, 0; 1998 FM<sub>52</sub>, 3, 1, 0; 1998 FR<sub>80</sub>, 3, 1, 0; 1998 FS<sub>80</sub>, 6, 2, 28; 1998 FC<sub>81</sub>, 3, 1, 0; 1998 FR<sub>81</sub>, 6, 2, 28; 1998 FJ<sub>83</sub>, 3, 1, 0; 1998 FX<sub>84</sub>, 3, 1, 0; 1998 FL<sub>86</sub>, 3, 1, 0; 1998 FM<sub>86</sub>, 6, 2, 28; 1998 FP<sub>88</sub>, 6, 2, 28; 1998 FW<sub>88</sub>, 6, 2, 28; 1998 FB<sub>91</sub>, 3, 1, 0; 1998 FV<sub>91</sub>, 3, 1, 0; 1998 FJ<sub>93</sub>, 3, 1, 0; 1998 FL<sub>93</sub>, 3, 1, 0; 1998 FY<sub>98</sub>, 3, 1, 0; 1998 FC<sub>99</sub>, 3, 1, 0; 1998 FP<sub>100</sub>, 3, 1, 0; 1998 FV<sub>100</sub>, 3, 1, 0; 1998 FT<sub>114</sub>, 3, 1, 0; 1998 FG<sub>132</sub>, 6, 2, 528; 1998 FT<sub>132</sub>, 3, 1, 0; 1998 FY<sub>135</sub>, 3, 1, 0; 1998 FY<sub>140</sub>, 3, 1, 0; 1998 FN<sub>145</sub>, 3, 1, 0; 1998 FO<sub>145</sub>, 3, 1, 0; 1998 GL<sub>3</sub>, 3, 1, 0; 1998 GP<sub>3</sub>, 6, 2, 28; 1998 GQ<sub>3</sub>, 3, 1, 0; 1998 GU<sub>3</sub>, 6, 2, 28; 1998 GM<sub>4</sub>, 3, 1, 0; 1998 GY<sub>4</sub>, 3, 1, 0; 1998 GP<sub>6</sub>, 3, 1, 0; 1998 GC<sub>10</sub>, 3, 1, 0; 1998 GU<sub>11</sub>, 3, 1, 0; 1998 HZ<sub>16</sub>, 3, 1, 0; 1998 HH<sub>45</sub>, 3, 1, 0; 1998 HR<sub>48</sub>, 3, 1, 0; 1998 HV<sub>51</sub>, 3, 1, 0; 1998 HX<sub>82</sub>, 3, 1, 0; 1998 HK<sub>122</sub>, 6, 1, 0; 1998 HJ<sub>134</sub>, 3, 1, 0; 1998 HL<sub>135</sub>, 6, 2, 28; 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6, 2, 27; 2000 OT<sub>44</sub>, 6, 2, 31; 2000 OB<sub>45</sub>, 3, 1, 0; 2000 OF<sub>45</sub>, 6, 2, 34; 2000 OW<sub>47</sub>, 3, 1, 0; 2000 OC<sub>48</sub>, 3, 1, 0; 2000 OG<sub>48</sub>, 3, 1, 0; 2000 OR<sub>50</sub>, 3, 1, 0; 2000 OB<sub>52</sub>, 3, 1, 0; 2000 OG<sub>52</sub>, 6, 2, 29; 2000 OS<sub>52</sub>, 3, 1, 0; 2000 PC<sub>1</sub>, 6, 2, 506; 2000 PV<sub>4</sub>, 3, 1, 0; 2000 PX<sub>5</sub>, 3, 1, 0; 2000 PZ<sub>6</sub>, 3, 1, 0; 2000 PV<sub>8</sub>, 3, 1, 0; 2000 PG<sub>10</sub>, 6, 2, 501; 2000 PJ<sub>12</sub>, 3, 1, 0; 2000 PT<sub>12</sub>, 3, 1, 0; 2000 PU<sub>12</sub>, 3, 1, 0; 2000 PE<sub>15</sub>, 3, 1, 0; 2000 PW<sub>24</sub>, 3, 1, 0; 2000 PD<sub>25</sub>, 3, 1, 0; 2000 PM<sub>28</sub>, 6, 2, 61; 2000 QD<sub>1</sub>, 6, 2, 32; 2000 QG<sub>1</sub>, 3, 1, 0; 2000 QA<sub>4</sub>, 3, 1, 0; 2000 QM<sub>5</sub>, 3, 1, 0; 2000 QF<sub>6</sub>, 3, 1, 0; 2000 QP<sub>9</sub>, 3, 1, 0; 2000 QR<sub>11</sub>, 3, 1, 0; 2000 QK<sub>12</sub>, 6, 1, 0; 2000 QJ<sub>17</sub>, 3, 1, 0; 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Observers M. Holman (6), D. C. Jewitt (1), S. S. Sheppard (1), D. J. Tholen (2)

Measurers B. Gladman (6), S. S. Sheppard (1), D. J. Tholen (2), M. Holman (6)

2.24-m reflector + CCD, 3.6-m Canada-France-Hawaii Telescope

USNO-A2.0, USNO-SA1.0

{1} 1999 RT<sub>214</sub>, 4, 3, 117; 1999 RW<sub>214</sub>, 2, 1, 0; 1999 RH<sub>215</sub>, 2, 1, 0; [8, 3, 0\*, 2000/05/04–2000/08/29]

{2} 1998 DU<sub>9</sub>, 4, 2, 1; 1998 FR<sub>62</sub>, 2, 1, 0; 1998 SF<sub>36</sub>, 15, 8, 64; 1999 OW<sub>3</sub>, 2, 1, 0; 1999 RG<sub>160</sub>, 2, 1, 0; 2000 SG<sub>344</sub> \*, 18, 5, 4; 2000 SH<sub>344</sub> \*, 12, 5, 4; 2000 SJ<sub>344</sub> \*, 12, 5, 7; (4335), 2, 1, 0; (4701), 2, 1, 0; [71, 10, 3\*, 2000/07/31–2000/10/07]

{6} 1998 VG<sub>44</sub>, 6, 2, 1; 1999 OY<sub>3</sub>, 3, 1, 0; 1999 OC<sub>4</sub>, 6, 2, 1; 1999 OD<sub>4</sub>, 6, 2, 1; 1999 OF<sub>4</sub>, 3, 1, 0; 2000 PU<sub>29</sub>, 3, 1, 0; 2000 PX<sub>29</sub>, 6, 2, 1; 2000 PC<sub>30</sub>, 6, 2, 1; 2000 PD<sub>30</sub>, 3, 1, 0; 2000 PE<sub>30</sub>, 3, 1, 0; 2000 PF<sub>30</sub>, 3, 1, 0; 2000 PJ<sub>30</sub>, 6, 2, 1; 2000 PK<sub>30</sub>, 6, 2, 1; 2000 PN<sub>30</sub>, 6, 2, 1; 2000 SB<sub>331</sub> \*, 6, 2, 1; 2000 SC<sub>331</sub> \*, 6, 2, 1; 2000 SD<sub>331</sub> \*, 6, 2, 1; 2000 SE<sub>331</sub> \*, 6, 2, 1; 2000 SF<sub>331</sub> \*, 6, 2, 1; 2000 SG<sub>331</sub> \*, 6, 2, 1; 2000 SH<sub>331</sub> \*, 6, 2, 1; 2000 SJ<sub>331</sub> \*, 5, 2, 1; 2000 SK<sub>331</sub> \*, 6, 2, 1; 2000 SL<sub>331</sub> \*, 5, 2, 1; 2000 SM<sub>331</sub> \*, 6, 2, 1; 2000 SN<sub>331</sub> \*, 6, 2, 1; 2000 SO<sub>331</sub> \*, 6, 2, 1; 2000 SP<sub>331</sub> \*, 6, 2, 1; 2000 SQ<sub>331</sub> \*, 6, 2, 1; 2000 SR<sub>331</sub> \*, 6, 2, 1; 2000 SS<sub>331</sub> \*, 6, 2, 1; 2000 ST<sub>331</sub> \*, 6, 2, 1; 2000 SU<sub>331</sub> \*, 6, 2, 1; 2000 SV<sub>331</sub> \*, 6, 2, 1; 2000 SW<sub>331</sub> \*, 6, 2, 1; 2000 SX<sub>331</sub> \*, 6, 2, 1; 2000 SY<sub>331</sub> \*, 6, 2, 1; 2000 SZ<sub>331</sub> \*, 6, 2, 1; 2000 SA<sub>332</sub> \*, 6, 2, 1; 2000 SB<sub>332</sub> \*, 6, 2, 1; 2000 SC<sub>332</sub> \*, 6, 2, 1; 2000 SD<sub>332</sub> \*, 6, 2, 1; 2000 SE<sub>332</sub> \*, 6, 2, 1; 2000 SF<sub>332</sub> \*, 6, 2, 1; 2000 SG<sub>332</sub> \*, 6, 2, 1; 2000 SH<sub>332</sub> \*, 6, 2, 1; 2000 SJ<sub>332</sub> \*, 6, 2, 1; 2000 SK<sub>332</sub> \*, 6, 2, 1; 2000 SL<sub>332</sub> \*, 6, 2, 1; 2000 SM<sub>332</sub> \*, 6, 2, 1; 2000 SN<sub>332</sub> \*, 6, 2, 1; 2000 SO<sub>332</sub> \*, 6, 2, 1; 2000 SP<sub>332</sub> \*, 6, 2, 1; 2000 SQ<sub>332</sub> \*, 6, 2, 1; 2000 SR<sub>332</sub> \*, 6, 2, 1; 4087 T-2, 6, 2, 1; (3495), 6, 2, 1; [322, 57, 41\*, 2000/09/23–2000/09/24]

## 587 Sormano

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V. Giuliani, A. Testa, P. Ghezzi

0.5-m reflector + CCD

2000 DP<sub>107</sub>, 2, 1, 0; 2000 GK<sub>137</sub>, 2, 1, 0; 2000 JS<sub>66</sub>, 1, 1, 0; 2000 PQ<sub>9</sub>, 2, 1, 0; 2000 SB<sub>1</sub>, 2, 1, 0; 2000 SA<sub>10</sub>, 2, 1, 0; 2000 SV<sub>20</sub>, 2, 1, 0; 2000 SP<sub>43</sub>, 2, 1, 0; 2000 SS<sub>164</sub>, 1, 1, 0; 2000 SU<sub>180</sub>, 4, 2, 13; 2000 TG<sub>2</sub>, 2, 1, 0; 2000 UH<sub>1</sub>, 2, 1, 0; 2000 UJ<sub>1</sub>, 4, 2, 5; 2000 UT<sub>1</sub> \*, 11, 5, 13; 2000 UG<sub>11</sub>, 5, 2, 8; 2000 UH<sub>11</sub>, 2, 1, 0; 2000 UK<sub>11</sub>, 3, 1, 0; 2000 UL<sub>11</sub>, 3, 2, 8; 2000 VL<sub>38</sub>, 3, 1, 0; [55, 19, 1\*, 2000/10/22–2000/11/04]

## 589 Santa Lucia Stroncone

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Observers A. Vagnozzi, G. Bernabei, V. Risoldi, V. Scirri

0.50-m  $f/2.8$  Ritchey-Chrétien + CCD

GSC

2000 SY<sub>184</sub>, 6, 2, 1; 2000 UZ<sub>14</sub>, 6, 1, 0; [12, 2, 0\*, 1996/11/12–1998/03/06]

## 595 Farra d'Isonzo

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Observers E. Pettarin, L. Bittesini, G. Lombardi, A. Toso, A. Olivieri, M. Spolaor,

F. Piani

Measurers E. Pettarin, G. Lombardi, A. Toso

0.4-m  $f/4.5$  reflector + CCD

GSC, USNO-SA1.0

2000 QV<sub>74</sub>, 2, 1, 0; 2000 RS<sub>2</sub>, 4, 1, 0; [6, 2, 0\*, 1993/10/19–1996/11/09]

## 596 Colleverde di Guidonia

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Observer G. Iatteri

Measurer V. S. Casulli

0.40-m  $f/3.2$  reflector + CCD

GSC

2000 RU<sub>7</sub>, 7, 2, 3; [7, 1, 0\*, 2000/11/01–2000/11/04]

**599 Campo Imperatore-CINEOS**

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Observers A. Boattini, A. Di Clemente

Measurers A. Boattini, G. Forti

0.60-m  $f/3$  Schmidt + CCD

GSC

1998 BV<sub>18</sub>, 2, 1, 0; 2000 GE<sub>86</sub>, 3, 1, 0; 2000 QF<sub>71</sub>, 2, 1, 0; 2000 QZ<sub>82</sub>, 2, 1, 0; 2000 RH<sub>10</sub>, 2, 1, 0; 2000 SM<sub>48</sub>, 2, 1, 0; 2000 SO<sub>159</sub>, 1, 1, 0; 2000 SB<sub>274</sub>, 2, 1, 0; 2000 UY<sub>19</sub>, 3, 1, 0; 2000 UC<sub>24</sub>, 4, 2, 1; [23, 10, 0\*, 1996/05/23–1997/05/27]

**608 Haleakala-NEAT/MSSS**

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Observers E. F. Helin, S. Pravdo, K. Lawrence, P. Kervin, R. Maeda, M. Skinner  
1.2-m reflector + CCD

1993 FX<sub>20</sub>, 3, 1, 0; 1996 XN<sub>6</sub>, 3, 1, 0; 1997 AY<sub>14</sub>, 3, 1, 0; 1997 TU<sub>26</sub>, 3, 1, 0; 1997 UF<sub>1</sub>, 3, 1, 0; 1997 XT<sub>11</sub>, 3, 1, 0; 1998 BH<sub>3</sub>, 3, 1, 0; 1998 FU<sub>66</sub>, 2, 1, 0; 1998 FC<sub>122</sub>, 3, 1, 0; 1998 HL<sub>36</sub>, 3, 1, 0; 1999 FE<sub>10</sub>, 3, 1, 0; 1999 FZ<sub>10</sub>, 3, 1, 0; 1999 FK<sub>24</sub>, 3, 1, 0; 1999 FG<sub>28</sub>, 3, 1, 0; 1999 GP<sub>4</sub>, 3, 1, 0; 1999 JT<sub>12</sub>, 3, 1, 0; 1999 JT<sub>13</sub>, 3, 1, 0; 1999 JR<sub>18</sub>, 3, 1, 0; 1999 JC<sub>22</sub>, 3, 1, 0; 1999 JZ<sub>43</sub>, 3, 1, 0; 1999 JR<sub>46</sub>, 3, 1, 0; 1999 JX<sub>55</sub>, 3, 1, 0; 1999 JB<sub>60</sub>, 3, 1, 0; 1999 JO<sub>60</sub>, 3, 1, 0; 1999 JG<sub>62</sub>, 3, 1, 0; 1999 JP<sub>78</sub>, 3, 1, 0; 1999 JG<sub>80</sub>, 3, 1, 0; 1999 JM<sub>83</sub>, 3, 1, 0; 1999 JX<sub>89</sub>, 3, 1, 0; 1999 JL<sub>92</sub>, 3, 1, 0; 1999 JG<sub>96</sub>, 3, 1, 0; 1999 JW<sub>97</sub>, 3, 1, 0; 1999 JH<sub>98</sub>, 3, 1, 0; 1999 JV<sub>114</sub>, 3, 1, 0; 1999 KJ<sub>14</sub>, 3, 1, 0; 1999 RO<sub>144</sub>, 3, 1, 0; 1999 RF<sub>201</sub>, 2, 1, 0; 2000 CU<sub>70</sub>, 3, 1, 0; 2000 LK<sub>16</sub>, 3, 1, 0; 2000 LR<sub>17</sub>, 3, 1, 0; 2000 LF<sub>27</sub>, 3, 1, 0; 2000 NH<sub>12</sub>, 3, 1, 0; 2000 NB<sub>16</sub>, 3, 1, 0; 2000 NW<sub>19</sub>, 3, 1, 0; 2000 NP<sub>22</sub>, 3, 1, 0; 2000 NT<sub>22</sub>, 6, 2, 43; 2000 OF<sub>7</sub>, 3, 1, 0; 2000 OM<sub>32</sub>, 3, 1, 0; 2000 OC<sub>37</sub>, 3, 1, 0; 2000 OH<sub>45</sub>, 3, 1, 0; 2000 OV<sub>68</sub>, 3, 1, 0; 2000 OW<sub>68</sub>, 3, 1, 0; 2000 OD<sub>69</sub>, 3, 1, 0; 2000 OE<sub>69</sub>, 3, 1, 0; 2000 ON<sub>69</sub>, 3, 1, 0; 2000 PM<sub>7</sub>, 3, 1, 0; 2000 PU<sub>7</sub>, 6, 2, 15; 2000 PJ<sub>10</sub>, 6, 2, 12; 2000 PG<sub>28</sub>, 3, 1, 0; 2000 PW<sub>30</sub>, 3, 1, 0; 2000 PX<sub>30</sub>, 3, 1, 0; 2000 PB<sub>31</sub>, 3, 1, 0; 2000 QB<sub>33</sub>, 3, 1, 0; 2000 QQ<sub>33</sub>, 3, 1, 0; 2000 QO<sub>45</sub>, 3, 1, 0; 2000 QS<sub>54</sub>, 3, 1, 0; 2000 QA<sub>62</sub>, 3, 1, 0; 2000 QB<sub>62</sub>, 3, 1, 0; 2000 QH<sub>62</sub>, 6, 2, 52; 2000 QK<sub>62</sub>, 3, 1, 0; 2000 QM<sub>62</sub>, 3, 1, 0; 2000 QF<sub>62</sub>, 3, 1, 0; 2000 QU<sub>62</sub>, 3, 1, 0; 2000 QJ<sub>63</sub>, 3, 1, 0; 2000 QR<sub>63</sub>, 3, 1, 0; 2000 QY<sub>63</sub>, 3, 1, 0; 2000 QB<sub>64</sub>, 3, 1, 0; 2000 QK<sub>64</sub>, 3, 1, 0; 2000 QO<sub>64</sub>, 3, 1, 0; 2000 QU<sub>64</sub>, 6, 2, 53; 2000 QY<sub>64</sub>, 3, 1, 0; 2000 QP<sub>65</sub>, 3, 1, 0; 2000 QQ<sub>65</sub>, 3, 1, 0; 2000 QW<sub>65</sub>, 3, 1, 0; 2000 QT<sub>65</sub>, 3, 1, 0; 2000 QJ<sub>67</sub>, 3, 1, 0; 2000 QK<sub>67</sub>, 3, 1, 0; 2000 QT<sub>67</sub>, 3, 1, 0; 2000 QV<sub>67</sub>, 3, 1, 0; 2000 QL<sub>84</sub>, 3, 1, 0; 2000 QS<sub>96</sub>, 3, 1, 0; 2000 QH<sub>102</sub>, 3, 1, 0; 2000 QA<sub>103</sub>, 3, 1, 0; 2000 QA<sub>104</sub>, 3, 1, 0; 2000 QM<sub>104</sub>, 3, 1, 0; 2000 QU<sub>105</sub>, 3, 1, 0; 2000 QB<sub>116</sub>, 3, 1, 0; 2000 QY<sub>126</sub>, 3, 1, 0; 2000 QC<sub>145</sub>, 3, 1, 0; 2000 QW<sub>190</sub>, 2, 1, 0; 2000 QE<sub>191</sub>, 3, 1, 0; 2000 QA<sub>194</sub>, 3, 1, 0; 2000 QG<sub>204</sub>, 3, 1, 0; 2000 QJ<sub>216</sub>, 3, 1, 0; 2000 QU<sub>224</sub>, 3, 1, 0; 2000 QV<sub>224</sub>, 3, 1, 0; 2000 QZ<sub>231</sub>, 3, 1, 0; 2000 RX<sub>7</sub>, 3, 1, 0; 2000 RU<sub>18</sub>, 3, 1, 0; 2000 RC<sub>25</sub>, 3, 1, 0; 2000 RU<sub>36</sub>, 3, 1, 0; 2000 RD<sub>37</sub>, 3, 1, 0; 2000 RU<sub>45</sub>, 3, 1, 0; 2000 RG<sub>46</sub>, 3, 1, 0; 2000 RO<sub>46</sub>, 6, 1, 0; 2000 RV<sub>58</sub>, 3, 1, 0; 2000 RS<sub>66</sub>, 3, 1, 0; 2000 RZ<sub>70</sub>, 3, 1, 0; 2000 RG<sub>72</sub>, 3, 1, 0; 2000 RU<sub>72</sub>, 3, 1, 0; 2000 RG<sub>74</sub>, 3, 1, 0; 2000 RT<sub>74</sub>, 2, 1, 0; 2000 RX<sub>90</sub>, 3, 1, 0; 2000 RK<sub>94</sub>, 3, 1, 0; 2000 RR<sub>95</sub>, 3, 1, 0; 2000 RK<sub>97</sub>, 3, 1, 0; 2000 RC<sub>98</sub>, 3, 1, 0; 2000 RZ<sub>98</sub>, 3, 1, 0; 2000 RL<sub>99</sub>, 3, 1, 0; 2000 RN<sub>103</sub>, 3, 1, 0; 2000 RJ<sub>104</sub>, 3, 1, 0; 2000 RQ<sub>104</sub>, 3, 1, 0; 2000 SA<sub>2</sub>, 3, 1, 0; 2000 ST<sub>2</sub>, 3, 1, 0; 2000 SB<sub>4</sub>, 3, 1, 0; 2000 SH<sub>4</sub>, 3, 1, 0; 2000 SG<sub>5</sub>, 3, 1, 0; 2000 SV<sub>5</sub>, 3, 1, 0; 2000 SY<sub>8</sub>, 3, 1, 0; 2000 SH<sub>11</sub>, 3, 1, 0; 2000 SV<sub>11</sub>, 3, 1, 0; 2000 SX<sub>11</sub>, 3, 1, 0; 2000 SC<sub>20</sub>, 3, 1, 0; 2000 SQ<sub>20</sub>, 3, 1, 0; 2000 SY<sub>20</sub>, 3, 1, 0; 2000 SZ<sub>20</sub>, 3, 1, 0; 2000 SB<sub>21</sub>, 3, 1, 0; 2000 SD<sub>21</sub>, 3, 1, 0; 2000 SV<sub>22</sub>, 3, 1, 0; 2000 SX<sub>22</sub>, 3, 1, 0; 2000 SD<sub>23</sub>, 3, 1, 0; 2000 SE<sub>23</sub>, 3, 1, 0; 2000 SF<sub>28</sub>, 3, 1, 0; 2000 ST<sub>28</sub>, 3, 1, 0; 2000 SC<sub>29</sub>, 3, 1, 0; 2000 SR<sub>38</sub>, 3, 1, 0; 2000 SB<sub>40</sub>, 3, 1, 0; 2000 SF<sub>43</sub>, 3, 1, 0; 2000 SS<sub>47</sub>, 3, 1, 0; 2000 SF<sub>48</sub>, 3, 1, 0; 2000 SN<sub>48</sub>, 3, 1, 0; 2000 SM<sub>63</sub>, 3, 1, 0; 2000 SN<sub>68</sub>, 3, 1, 0; 2000 SG<sub>69</sub>, 3, 1, 0; 2000 SK<sub>69</sub>, 3, 1, 0; 2000 SD<sub>71</sub>, 3, 1, 0; 2000 SC<sub>75</sub>, 3, 1, 0; 2000 SD<sub>75</sub>, 3, 1, 0; 2000 SL<sub>75</sub>, 3, 1, 0; 2000 SS<sub>75</sub>, 3, 1, 0; 2000 ST<sub>75</sub>, 3, 1, 0; 2000 SW<sub>75</sub>, 3, 1, 0; 2000 SZ<sub>75</sub>, 3, 1, 0; 2000 SA<sub>76</sub>, 3, 1, 0; 2000 SP<sub>76</sub>, 3, 1, 0; 2000 SC<sub>78</sub>, 3, 1, 0; 2000 SB<sub>85</sub>, 3, 1, 0; 2000 SF<sub>85</sub>, 3, 1, 0; 2000 SQ<sub>85</sub>, 3, 1, 0; 2000 SS<sub>85</sub>, 6, 2, 62; 2000 SF<sub>86</sub>, 3, 1, 0; 2000 SX<sub>86</sub>, 3, 1, 0; 2000 SZ<sub>87</sub>, 3, 1, 0; 2000 SG<sub>88</sub>, 3, 1, 0; 2000 SQ<sub>88</sub>, 3, 1, 0; 2000 SG<sub>89</sub>, 3, 1, 0; 2000 SG<sub>90</sub>, 3, 1, 0; 2000 SL<sub>90</sub>, 3, 1, 0; 2000 SS<sub>90</sub>, 3, 1, 0; 2000 SM<sub>91</sub>, 3, 1, 0; 2000 SX<sub>91</sub>, 3, 1, 0; 2000 SA<sub>100</sub>, 3, 1, 0; 2000 SC<sub>100</sub>, 3, 1, 0; 2000 SW<sub>100</sub>, 3, 1, 0; 2000 SO<sub>104</sub>, 3, 1, 0; 2000 SB<sub>105</sub>, 3, 1, 0; 2000 SA<sub>109</sub>, 3, 1, 0; 2000 SX<sub>110</sub>, 3, 1, 0; 2000 SN<sub>112</sub>, 3, 1, 0; 2000 SS<sub>112</sub>, 3, 1, 0; 2000 SL<sub>113</sub>, 3, 1, 0; 2000 SV<sub>113</sub>, 3, 1, 0; 2000 SK<sub>114</sub>, 3, 1, 0; 2000 SY<sub>114</sub>, 3, 1, 0; 2000 SF<sub>115</sub>, 3, 1, 0; 2000 SL<sub>115</sub>, 3, 1, 0; 2000 SO<sub>115</sub>, 3, 1, 0; 2000 SU<sub>115</sub>, 3, 1, 0; 2000 SA<sub>116</sub>, 3, 1, 0; 2000 SC<sub>116</sub>, 3, 1, 0; 2000 SH<sub>116</sub>, 3, 1, 0; 2000 SM<sub>116</sub>, 3, 1, 0; 2000 SO<sub>116</sub>, 3, 1, 0; 2000 SL<sub>117</sub>, 3, 1, 0; 2000 SE<sub>117</sub>, 3, 1, 0; 2000 ST<sub>117</sub>, 3, 1, 0; 2000 SX<sub>117</sub>, 3, 1, 0; 2000 SL<sub>118</sub>, 3, 1, 0; 2000 SN<sub>118</sub>, 3, 1, 0; 2000 SQ<sub>119</sub>, 3, 1, 0; 2000 ST<sub>119</sub>, 3, 1, 0; 2000 SN<sub>120</sub>, 3, 1, 0; 2000 SS<sub>121</sub>, 3, 1, 0;

2000 SW<sub>121</sub>, 3, 1, 0; 2000 SH<sub>123</sub>, 3, 1, 0; 2000 SO<sub>123</sub>, 3, 1, 0; 2000 SP<sub>123</sub>, 3, 1, 0; 2000 SS<sub>123</sub>, 3, 1, 0; 2000 SW<sub>123</sub>, 3, 1, 0; 2000 SS<sub>124</sub>, 3, 1, 0; 2000 SR<sub>125</sub>, 3, 1, 0; 2000 SC<sub>127</sub>, 3, 1, 0; 2000 SL<sub>130</sub>, 3, 1, 0; 2000 SL<sub>131</sub>, 3, 1, 0; 2000 SC<sub>132</sub>, 3, 1, 0; 2000 SN<sub>132</sub>, 3, 1, 0; 2000 SZ<sub>132</sub>, 3, 1, 0; 2000 SO<sub>136</sub>, 3, 1, 0; 2000 SP<sub>136</sub>, 3, 1, 0; 2000 SY<sub>136</sub>, 3, 1, 0; 2000 SB<sub>137</sub>, 3, 1, 0; 2000 SJ<sub>137</sub>, 3, 1, 0; 2000 SN<sub>137</sub>, 3, 1, 0; 2000 SS<sub>137</sub>, 3, 1, 0; 2000 SQ<sub>139</sub>, 3, 1, 0; 2000 SR<sub>139</sub>, 3, 1, 0; 2000 SJ<sub>141</sub>, 6, 2, 62; 2000 SP<sub>141</sub>, 3, 1, 0; 2000 SY<sub>142</sub>, 3, 1, 0; 2000 SO<sub>144</sub>, 3, 1, 0; 2000 SO<sub>145</sub>, 3, 1, 0; 2000 SL<sub>146</sub>, 3, 1, 0; 2000 SR<sub>146</sub>, 3, 1, 0; 2000 SF<sub>147</sub>, 3, 1, 0; 2000 SH<sub>147</sub>, 3, 1, 0; 2000 SH<sub>148</sub>, 6, 2, 62; 2000 SJ<sub>148</sub>, 3, 1, 0; 2000 SL<sub>148</sub>, 3, 1, 0; 2000 SM<sub>148</sub>, 3, 1, 0; 2000 SW<sub>148</sub>, 3, 1, 0; 2000 SJ<sub>151</sub>, 3, 1, 0; 2000 SN<sub>153</sub>, 3, 1, 0; 2000 SV<sub>153</sub>, 3, 1, 0; 2000 SS<sub>154</sub>, 3, 1, 0; 2000 SD<sub>160</sub>, 3, 1, 0; 2000 SB<sub>162</sub>, 3, 1, 0; 2000 SD<sub>162</sub>, 3, 1, 0; 2000 SH<sub>162</sub>, 3, 1, 0; 2000 SN<sub>162</sub>, 3, 1, 0; 2000 SP<sub>162</sub>, 3, 1, 0; 2000 SK<sub>164</sub>, 3, 1, 0; 2000 SJ<sub>165</sub>, 3, 1, 0; 2000 SP<sub>165</sub>, 3, 1, 0; 2000 SG<sub>167</sub>, 3, 1, 0; 2000 SJ<sub>167</sub>, 3, 1, 0; 2000 SO<sub>167</sub>, 3, 1, 0; 2000 SP<sub>167</sub>, 3, 1, 0; 2000 SZ<sub>167</sub>, 3, 1, 0; 2000 SF<sub>168</sub>, 3, 1, 0; 2000 SG<sub>168</sub>, 3, 1, 0; 2000 SH<sub>168</sub>, 3, 1, 0; 2000 SM<sub>168</sub>, 3, 1, 0; 2000 SC<sub>169</sub>, 3, 1, 0; 2000 SU<sub>169</sub>, 3, 1, 0; 2000 SV<sub>169</sub>, 3, 1, 0; 2000 SB<sub>170</sub>, 3, 1, 0; 2000 SN<sub>173</sub>, 3, 1, 0; 2000 SR<sub>175</sub>, 3, 1, 0; 2000 SS<sub>175</sub>, 3, 1, 0; 2000 SE<sub>176</sub>, 3, 1, 0; 2000 SH<sub>182</sub>, 3, 1, 0; 2000 SY<sub>184</sub>, 3, 1, 0; 2000 SD<sub>185</sub>, 3, 1, 0; 2000 SO<sub>187</sub>, 3, 1, 0; 2000 SS<sub>187</sub>, 3, 1, 0; 2000 ST<sub>187</sub>, 3, 1, 0; 2000 SV<sub>187</sub>, 3, 1, 0; 2000 SX<sub>187</sub>, 3, 1, 0; 2000 SA<sub>188</sub>, 3, 1, 0; 2000 SH<sub>188</sub>, 3, 1, 0; 2000 SE<sub>208</sub>, 3, 1, 0; 2000 SY<sub>210</sub>, 3, 1, 0; 2000 SP<sub>211</sub>, 3, 1, 0; 2000 SP<sub>213</sub>, 3, 1, 0; 2000 ST<sub>213</sub>, 3, 1, 0; 2000 SO<sub>216</sub>, 3, 1, 0; 2000 SP<sub>216</sub>, 3, 1, 0; 2000 SW<sub>216</sub>, 3, 1, 0; 2000 SZ<sub>216</sub>, 3, 1, 0; 2000 SK<sub>217</sub>, 3, 1, 0; 2000 SH<sub>218</sub>, 3, 1, 0; 2000 SY<sub>218</sub>, 3, 1, 0; 2000 SB<sub>219</sub>, 6, 1, 0; 2000 SH<sub>219</sub>, 3, 1, 0; 2000 SK<sub>219</sub>, 3, 1, 0; 2000 SW<sub>220</sub>, 3, 1, 0; 2000 SF<sub>221</sub>, 3, 1, 0; 2000 SM<sub>225</sub>, 3, 1, 0; 2000 SY<sub>233</sub>, 3, 1, 0; 2000 SO<sub>238</sub>, 3, 1, 0; 2000 SR<sub>269</sub>, 3, 1, 0; 2000 SW<sub>269</sub>, 3, 1, 0; 2000 SB<sub>270</sub>, 3, 1, 0; 2000 SZ<sub>276</sub>, 3, 1, 0; 2000 SK<sub>281</sub>, 3, 1, 0; 2000 SJ<sub>285</sub>, 3, 1, 0; 2000 SQ<sub>291</sub>, 3, 1, 0; 2000 SU<sub>301</sub>, 3, 1, 0; 2000 SC<sub>302</sub>, 3, 1, 0; 2000 SX<sub>304</sub>, 3, 1, 0; 2000 SO<sub>305</sub>, 3, 1, 0; 2000 SR<sub>305</sub>, 3, 1, 0; 2000 ST<sub>306</sub>, 3, 1, 0; 2000 SR<sub>307</sub>, 3, 1, 0; 2000 SW<sub>310</sub>, 3, 1, 0; 2000 SF<sub>315</sub>, 3, 1, 0; 2000 SQ<sub>316</sub>, 3, 1, 0; 2000 SZ<sub>316</sub>, 3, 1, 0; 2000 SU<sub>317</sub>, 3, 1, 0; 2000 SZ<sub>317</sub>, 3, 1, 0; 2000 SV<sub>320</sub>, 3, 1, 0; 2000 SX<sub>320</sub>, 3, 1, 0; 2000 SZ<sub>322</sub>, 3, 1, 0; 2000 SL<sub>323</sub>, 3, 1, 0; 2000 SE<sub>327</sub> \*, 3, 1, 0; 2000 SF<sub>327</sub> \*, 3, 1, 0; 2000 SG<sub>327</sub> \*, 3, 1, 0; 2000 SH<sub>327</sub> \*, 3, 1, 0; 2000 SJ<sub>327</sub> \*, 3, 1, 0; 2000 SK<sub>327</sub> \*, 3, 1, 0; 2000 SN<sub>327</sub>, 3, 1, 0; 2000 SO<sub>327</sub>, 6, 2, 9; 2000 SP<sub>327</sub>, 6, 2, 9; 2000 SQ<sub>327</sub>, 6, 2, 15; 2000 SR<sub>327</sub>, 3, 1, 0; 2000 SS<sub>327</sub>, 3, 1, 0; 2000 ST<sub>327</sub>, 3, 1, 0; 2000 SV<sub>327</sub>, 3, 1, 0; 2000 SW<sub>327</sub>, 3, 1, 0; 2000 SY<sub>327</sub>, 3, 1, 0; 2000 SZ<sub>327</sub>, 3, 1, 0; 2000 SA<sub>328</sub>, 3, 1, 0; 2000 SB<sub>328</sub>, 3, 1, 0; 2000 SC<sub>328</sub>, 3, 1, 0; 2000 SD<sub>328</sub>, 3, 1, 0; 2000 SE<sub>328</sub>, 6, 2, 9; 2000 SF<sub>328</sub>, 6, 2, 10; 2000 SV<sub>328</sub>, 3, 1, 0; 2000 SR<sub>329</sub>, 3, 1, 0; 2000 SZ<sub>332</sub>, 3, 1, 0; 2000 SD<sub>333</sub> \*, 3, 1, 0; 2000 SG<sub>333</sub> \*, 3, 1, 0; 2000 SH<sub>333</sub> \*, 3, 1, 0; 2000 SJ<sub>333</sub> \*, 3, 1, 0; 2000 SK<sub>333</sub> \*, 3, 1, 0; 2000 SN<sub>333</sub> \*, 3, 1, 0; 2000 SO<sub>333</sub> \*, 3, 1, 0; 2000 SP<sub>333</sub> \*, 3, 1, 0; 2000 SQ<sub>333</sub> \*, 3, 1, 0; 2000 ST<sub>333</sub> \*, 3, 1, 0; 2000 SU<sub>333</sub> \*, 3, 1, 0; 2000 SV<sub>333</sub> \*, 3, 1, 0; 2000 SW<sub>333</sub> \*, 3, 1, 0; 2000 SX<sub>333</sub> \*, 3, 1, 0; 2000 SY<sub>333</sub> \*, 3, 1, 0; 2000 SZ<sub>333</sub> \*, 3, 1, 0; 2000 SA<sub>334</sub> \*, 3, 1, 0; 2000 SB<sub>334</sub> \*, 3, 1, 0; 2000 SC<sub>334</sub> \*, 3, 1, 0; 2000 SD<sub>334</sub> \*, 3, 1, 0; 2000 SE<sub>334</sub> \*, 3, 1, 0; 2000 SF<sub>334</sub> \*, 3, 1, 0; 2000 SG<sub>334</sub> \*, 3, 1, 0; 2000 SH<sub>334</sub> \*, 3, 1, 0; 2000 SJ<sub>334</sub> \*, 3, 1, 0; 2000 SK<sub>334</sub> \*, 3, 1, 0; 2000 SL<sub>334</sub> \*, 3, 1, 0; 2000 SM<sub>334</sub> \*, 3, 1, 0; 2000 SN<sub>334</sub> \*, 3, 1, 0; 2000 SO<sub>334</sub> \*, 3, 1, 0; 2000 SP<sub>334</sub> \*, 3, 1, 0; 2000 SQ<sub>334</sub> \*, 3, 1, 0; 2000 SR<sub>334</sub> \*, 3, 1, 0; 2000 ST<sub>334</sub> \*, 3, 1, 0; 2000 SV<sub>334</sub> \*, 3, 1, 0; 2000 SW<sub>334</sub> \*, 3, 1, 0; 2000 SX<sub>334</sub> \*, 3, 1, 0; 2000 SY<sub>334</sub> \*, 3, 1, 0; 2000 SZ<sub>334</sub> \*, 3, 1, 0; 2000 SA<sub>335</sub> \*, 3, 1, 0; 2000 SB<sub>335</sub> \*, 3, 1, 0; 2000 SC<sub>335</sub> \*, 3, 1, 0; 2000 SD<sub>335</sub> \*, 3, 1, 0; 2000 SE<sub>335</sub> \*, 3, 1, 0; 2000 SF<sub>335</sub> \*, 3, 1, 0; 2000 SG<sub>335</sub> \*, 3, 1, 0; 2000 SH<sub>335</sub> \*, 3, 1, 0; 2000 SJ<sub>335</sub> \*, 3, 1, 0; 2000 SK<sub>335</sub> \*, 3, 1, 0; 2000 SN<sub>335</sub> \*, 3, 1, 0; 2000 SO<sub>335</sub> \*, 3, 1, 0; 2000 SP<sub>335</sub> \*, 3, 1, 0; 2000 SQ<sub>335</sub> \*, 3, 1, 0; 2000 SR<sub>335</sub> \*, 3, 1, 0; 2000 ST<sub>335</sub> \*, 3, 1, 0; 2000 SV<sub>335</sub> \*, 3, 1, 0; 2000 SW<sub>335</sub> \*, 3, 1, 0; 2000 SX<sub>335</sub> \*, 3, 1, 0; 2000 SY<sub>335</sub> \*, 3, 1, 0; 2000 SZ<sub>335</sub> \*, 3, 1, 0; 2000 SA<sub>336</sub> \*, 3, 1, 0; 2000 SB<sub>336</sub> \*, 3, 1, 0; 2000 SC<sub>336</sub> \*, 3, 1, 0; 2000 SD<sub>336</sub> \*, 3, 1, 0; 2000 SE<sub>336</sub> \*, 3, 1, 0; 2000 SF<sub>336</sub> \*, 3, 1, 0; 2000 SG<sub>336</sub> \*, 3, 1, 0; 2000 SH<sub>336</sub> \*, 3, 1, 0; 2000 SJ<sub>336</sub> \*, 3, 1, 0; 2000 SK<sub>336</sub> \*, 3, 1, 0; 2000 SL<sub>336</sub> \*, 3, 1, 0; 2000 SM<sub>336</sub> \*, 9, 2, 53; 2000 SN<sub>336</sub> \*, 3, 1, 0; 2000 SO<sub>336</sub> \*, 3, 1, 0; 2000 SP<sub>336</sub> \*, 3, 1, 0; 2000 SQ<sub>336</sub> \*, 3, 1, 0; 2000 SR<sub>336</sub> \*, 3, 1, 0; 2000 ST<sub>336</sub> \*, 3, 1, 0; 2000 SV<sub>336</sub> \*, 3, 1, 0; 2000 SW<sub>336</sub> \*, 3, 1, 0; 2000 SX<sub>336</sub> \*, 3, 1, 0; 2000 SY<sub>336</sub> \*, 3, 1, 0; 2000 SZ<sub>336</sub> \*, 3, 1, 0; 2000 SA<sub>337</sub> \*, 3, 1, 0; 2000 SB<sub>337</sub> \*, 3, 1, 0; 2000 SC<sub>337</sub> \*, 3, 1, 0; 2000 SD<sub>337</sub> \*, 3, 1, 0; 2000 SE<sub>337</sub> \*, 3, 1, 0; 2000 SF<sub>337</sub> \*, 3, 1, 0; 2000 SG<sub>337</sub> \*, 3, 1, 0; 2000 SH<sub>337</sub> \*, 3, 1, 0; 2000 SJ<sub>337</sub> \*, 3, 1, 0; 2000 SK<sub>337</sub> \*, 3, 1, 0; 2000 SN<sub>337</sub> \*, 3, 1, 0; 2000 SO<sub>337</sub> \*, 3, 1, 0; 2000 SP<sub>337</sub> \*, 3, 1, 0; 2000 SQ<sub>337</sub> \*, 3, 1, 0; 2000 SR<sub>337</sub> \*, 3, 1, 0; 2000 ST<sub>337</sub> \*, 3, 1, 0; 2000 SV<sub>337</sub> \*, 3, 1, 0; 2000 SW<sub>337</sub> \*, 3, 1, 0; 2000 SX<sub>337</sub> \*, 3, 1, 0; 2000 SY<sub>337</sub> \*, 3, 1, 0; 2

0; 2000 TV<sub>38</sub>, 6, 2, 17; 2000 TX<sub>38</sub>, 3, 1, 0; 2000 TY<sub>38</sub>, 6, 2, 17; 2000 TZ<sub>38</sub>, 3, 1, 0; 2000 TB<sub>39</sub>, 3, 1, 0; 2000 TE<sub>39</sub>, 3, 1, 0; 2000 TK<sub>39</sub>, 3, 1, 0; 2000 TL<sub>39</sub>, 3, 1, 0; 2000 TQ<sub>39</sub>, 3, 1, 0; 2000 TR<sub>39</sub>, 3, 1, 0; 2000 TV<sub>39</sub>, 3, 1, 0; 2000 TZ<sub>39</sub>, 6, 2, 17; 2000 TA<sub>40</sub>, 3, 1, 0; 2000 TD<sub>40</sub>, 3, 1, 0; 2000 TF<sub>40</sub>, 3, 1, 0; 2000 TG<sub>40</sub>, 3, 1, 0; 2000 TJ<sub>40</sub>, 3, 1, 0; 2000 TQ<sub>40</sub>, 3, 1, 0; 2000 TF<sub>41</sub>, 3, 1, 0; 2000 TG<sub>41</sub>, 3, 1, 0; 2000 TP<sub>41</sub>, 3, 1, 0; 2000 TY<sub>41</sub>, 6, 2, 7; 2000 TZ<sub>41</sub>, 3, 1, 0; 2000 TA<sub>42</sub>, 3, 1, 0; 2000 TD<sub>42</sub>, 3, 1, 0; 2000 TB<sub>43</sub>, 3, 1, 0; 2000 TE<sub>43</sub>, 3, 1, 0; 2000 TF<sub>43</sub>, 3, 1, 0; 2000 TL<sub>43</sub>, 3, 1, 0; 2000 TR<sub>43</sub>, 3, 1, 0; 2000 TU<sub>43</sub>, 3, 1, 0; 2000 TV<sub>43</sub>, 3, 1, 0; 2000 TX<sub>43</sub>, 3, 1, 0; 2000 TC<sub>44</sub>, 3, 1, 0; 2000 TV<sub>44</sub>, 3, 1, 0; 2000 TW<sub>44</sub>, 6, 2, 15; 2000 TX<sub>44</sub>, 3, 1, 0; 2000 TY<sub>44</sub>, 3, 1, 0; 2000 TZ<sub>44</sub>, 3, 1, 0; 2000 TB<sub>45</sub>, 3, 1, 0; 2000 TF<sub>45</sub>, 3, 1, 0; 2000 TG<sub>45</sub>, 3, 1, 0; 2000 TH<sub>45</sub>, 3, 1, 0; 2000 TJ<sub>45</sub>, 3, 1, 0; 2000 TT<sub>45</sub>, 3, 1, 0; 2000 TU<sub>45</sub>, 3, 1, 0; 2000 TV<sub>45</sub>, 3, 1, 0; 2000 TZ<sub>45</sub>, 3, 1, 0; 2000 TG<sub>49</sub>, 3, 1, 0; 2000 TO<sub>49</sub>, 3, 1, 0; 2000 TU<sub>49</sub>, 3, 1, 0; 2000 TD<sub>50</sub>, 3, 1, 0; 2000 TE<sub>50</sub>, 3, 1, 0; 2000 TL<sub>51</sub>, 3, 1, 0; 2000 TM<sub>51</sub>, 3, 1, 0; 2000 TO<sub>51</sub>, 3, 1, 0; 2000 TP<sub>51</sub>, 3, 1, 0; 2000 TQ<sub>51</sub>, 3, 1, 0; 2000 TR<sub>51</sub>, 3, 1, 0; 2000 TT<sub>51</sub>, 6, 2, 15; 2000 TW<sub>51</sub>, 3, 1, 0; 2000 TX<sub>51</sub>, 6, 2, 15; 2000 TO<sub>52</sub>, 3, 1, 0; 2000 TY<sub>53</sub>, 3, 1, 0; 2000 TN<sub>54</sub>, 3, 1, 0; 2000 TW<sub>54</sub>, 3, 1, 0; 2000 TZ<sub>54</sub>, 3, 1, 0; 2000 TP<sub>55</sub>, 3, 1, 0; 2000 TQ<sub>55</sub>, 3, 1, 0; 2000 TR<sub>55</sub>, 3, 1, 0; 2000 TS<sub>55</sub>, 3, 1, 0; 2000 TT<sub>55</sub>, 3, 1, 0; 2000 TU<sub>55</sub>, 3, 1, 0; 2000 TV<sub>55</sub>, 3, 1, 0; 2000 TW<sub>55</sub>, 3, 1, 0; 2000 TX<sub>55</sub>, 3, 1, 0; 2000 TY<sub>55</sub>, 3, 1, 0; 2000 TA<sub>56</sub>, 3, 1, 0; 2000 TS<sub>56</sub>, 3, 1, 0; 2000 TT<sub>56</sub>, 6, 2, 11; 2000 TU<sub>56</sub>, 3, 1, 0; 2000 TV<sub>56</sub>, 3, 1, 0; 2000 TW<sub>56</sub>, 3, 1, 0; 2000 TY<sub>56</sub>, 6, 2, 9; 2000 TZ<sub>56</sub>, 6, 2, 9; 2000 TA<sub>57</sub>, 6, 2, 15; 2000 TB<sub>57</sub>, 3, 1, 0; 2000 TC<sub>57</sub>, 3, 1, 0; 2000 TD<sub>57</sub>, 6, 2, 9; 2000 TE<sub>57</sub>, 3, 1, 0; 2000 TF<sub>57</sub>, 3, 1, 0; 2000 TG<sub>57</sub>, 3, 1, 0; 2000 TH<sub>57</sub>, 3, 1, 0; 2000 TJ<sub>57</sub>, 3, 1, 0; 2000 TK<sub>57</sub>, 3, 1, 0; 2000 TL<sub>57</sub>, 3, 1, 0; 2000 TM<sub>57</sub>, 6, 2, 16; 2000 TN<sub>57</sub>, 3, 1, 0; 2000 TO<sub>57</sub>, 3, 1, 0; 2000 TW<sub>57</sub>, 6, 2, 15; 2000 TX<sub>57</sub>, 3, 1, 0; 2000 TA<sub>58</sub>, 3, 1, 0; 2000 TD<sub>58</sub>, 3, 1, 0; 2000 TG<sub>58</sub>, 3, 1, 0; 2000 TL<sub>58</sub>, 3, 1, 0; 2000 TO<sub>58</sub>, 3, 1, 0; 2000 TP<sub>58</sub>, 3, 1, 0; 2000 TS<sub>58</sub>, 3, 1, 0; 2000 TX<sub>58</sub>, 3, 1, 0; 2000 TY<sub>58</sub>, 3, 1, 0; 2000 TZ<sub>58</sub>, 6, 2, 10; 2000 TA<sub>59</sub>, 3, 1, 0; 2000 TB<sub>59</sub>, 3, 1, 0; 2000 TP<sub>59</sub>, 3, 1, 0; 2000 TV<sub>59</sub>, 3, 1, 0; 2000 TE<sub>60</sub>, 3, 1, 0; 2000 TH<sub>60</sub>, 6, 2, 9; 2000 TJ<sub>60</sub>, 3, 1, 0; 2000 TK<sub>60</sub>, 3, 1, 0; 2000 TL<sub>60</sub>, 3, 1, 0; 2000 TM<sub>60</sub>, 6, 2, 9; 2000 TY<sub>60</sub>, 3, 1, 0; 2000 TZ<sub>60</sub>, 3, 1, 0; 2000 TA<sub>61</sub>, 3, 1, 0; 2000 TC<sub>61</sub>, 3, 1, 0; 2000 TD<sub>61</sub>, 3, 1, 0; 2000 TE<sub>61</sub>, 3, 1, 0; 2000 TF<sub>61</sub>, 3, 1, 0; 2000 TS<sub>61</sub>, 3, 1, 0; 2000 TK<sub>62</sub>, 3, 1, 0; 2000 TL<sub>62</sub>, 6, 2, 14; 2000 TN<sub>62</sub>, 3, 1, 0; 2000 TR<sub>62</sub>, 3, 1, 0; 2000 TU<sub>62</sub>, 3, 1, 0; 2000 TV<sub>62</sub>, 3, 1, 0; 2000 TY<sub>62</sub>, 3, 1, 0; 2000 TZ<sub>62</sub>, 3, 1, 0; 2000 TB<sub>63</sub>, 3, 1, 0; 2000 TD<sub>63</sub>, 3, 1, 0; 2000 TH<sub>63</sub>, 3, 1, 0; 2000 TK<sub>63</sub>, 3, 1, 0; 2000 TL<sub>63</sub>, 3, 1, 0; 2000 TM<sub>63</sub>, 3, 1, 0; 2000 TP<sub>63</sub>, 3, 1, 0; 2000 TQ<sub>63</sub>, 3, 1, 0; 2000 TR<sub>63</sub>, 6, 2, 14; 2000 TS<sub>63</sub>, 3, 1, 0; 2000 TT<sub>63</sub>, 3, 1, 0; 2000 TZ<sub>63</sub>, 6, 2, 15; 2000 TF<sub>64</sub>, 3, 1, 0; 2000 TG<sub>64</sub>, 3, 1, 0; 2000 TH<sub>64</sub>, 3, 1, 0; 2000 TK<sub>64</sub>, 3, 1, 0; 2000 TL<sub>64</sub>, 3, 1, 0; 2000 TM<sub>64</sub>, 3, 1, 0; 2000 UC<sub>1</sub>, 3, 1, 0; 2000 UG<sub>1</sub>, 3, 1, 0; 2000 UJ<sub>2</sub>, 3, 1, 0; 2000 UU<sub>3</sub>, 3, 1, 0; 2000 UA<sub>4</sub>, 3, 1, 0; 2000 UH<sub>5</sub>, 3, 1, 0; 2000 UW<sub>6</sub>, 3, 1, 0; 2000 UJ<sub>8</sub>, 3, 1, 0; 2000 UZ<sub>16</sub>, 3, 1, 0; 2000 UA<sub>20</sub>, 6, 1, 0; 2000 UL<sub>30</sub>, 3, 1, 0; 2000 UW<sub>59</sub>, 3, 1, 0; 2000 UY<sub>59</sub>, 3, 1, 0; 2000 UA<sub>60</sub>, 6, 2, 48; 2000 UB<sub>60</sub>, 3, 1, 0; 2000 UU<sub>60</sub>, 3, 1, 0; 2000 UY<sub>60</sub>, 3, 1, 0; 2000 UA<sub>62</sub>, 3, 1, 0; 2000 UX<sub>64</sub>, 3, 1, 0; 2000 UF<sub>66</sub>, 3, 1, 0; 2000 UN<sub>66</sub>, 3, 1, 0; 2000 UF<sub>75</sub>, 3, 1, 0; 2000 VA<sub>45</sub>, 3, 1, 0; (1535), 3, 1, 0; (2049), 2, 1, 0; (5893), 3, 1, 0; (7041), 3, 1, 0; (7432), 3, 1, 0; (8022), 3, 1, 0; (8115), 3, 1, 0; (8618), 3, 1, 0; (10558), 3, 1, 0; (10609), 3, 1, 0; (15996), 3, 1, 0; (16551), 3, 1, 0; (16833), 3, 1, 0; (16931), 3, 1, 0; (17033), 3, 1, 0; [2253, 713, 112\*, 1994/09/08–2000/10/25]

### 610 Pianoro

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[astrofil@astbo1.bo.cnr.it]

0.25-m  $f/4$  Schmidt-Cassegrain + CCD

GSC, USNO-A2.0

1993 RP<sub>2</sub>, 4, 1, 0; 2000 DP<sub>107</sub>, 14, 2, 9; 2000 NF<sub>5</sub>, 5, 1, 0; 2000 OG<sub>8</sub>, 5, 1, 0; 2000 QN<sub>130</sub>, 5, 1, 0; (3102), 9, 2, 9; (4790), 3, 1, 0; (17274), 5, 1, 0; (18172), 5, 1, 0; [55, 9, 0\*, 2000/05/19–2000/10/18]

### 611 Starkenburg Sternwarte, Heppenheim

M. Busch, Giessener Strasse 4, D-64646 Heppenheim, Germany [mab@iez.com]

Observers M. Busch, R. Stoss, S. Kluegl, R. Kresken, A. Seib, S. Elste, E. Schwab, A. Heller

Measurers M. Busch, R. Stoss, E. Schwab, S. Kluegl

0.45-m  $f/4.4$  reflector + CCD, 0.30-m  $f/6.3$  reflector + CCD

USNO-SA2.0, GSC-ACT

1999 GP<sub>17</sub>, 2, 1, 0; 1999 GQ<sub>19</sub>, 4, 1, 0; 2000 UG<sub>11</sub>, 20, 1, 0; 2000 UW<sub>13</sub>, 3, 1, 0; 2000 UR<sub>16</sub>, 2, 1, 0; [31, 5, 0\*, 2000/10/29–2000/11/05]

### 620 Observatorio Astronómico de Mallorca

À. López, Observatori Astronòmic de Mallorca, Camí de l'observatori s/n, E-07144

Costitx, Balears, Spain [astroam@dinky.bitel.es]

Observers S. Sanchez, M. Blasco

0.30-m  $f/3$  Schmidt-Cassegrain + CCD

USNO-SA2

1990 RK<sub>5</sub>, 3, 1, 0; 1991 DG<sub>1</sub>, 3, 1, 0; 1996 RL<sub>5</sub>, 4, 1, 0; 1998 BK<sub>33</sub>, 3, 1, 0; 1999 JT<sub>63</sub>, 3, 1, 0; 2000 RQ<sub>12</sub>, 3, 1, 0; 2000 UB<sub>2</sub>, 3, 1, 0; 2000 UX<sub>18</sub>, 11, 1, 0; 2000 UH<sub>54</sub>, 3, 1, 0; 2000 UF<sub>110</sub> \*, 9, 2, 3; 2000 VD<sub>16</sub>, 3, 1, 0; (7227), 2, 1, 0; (16871), 3, 1, 0; [53, 13, 1\*, 2000/10/31–2000/11/04]

### 621 Bergisch Gladbach

W. Bickel, Schau ins Land 21, D-51429 Bergisch Gladbach, Germany [0220455671-0001@t-online.de]

0.60-m  $f/5$  reflector + CCD

USNO-A2.0

1998 DA<sub>21</sub>, 3, 1, 0; 1998 FL<sub>114</sub>, 3, 2, 1; 1999 JH<sub>101</sub>, 6, 1, 0; 1999 KQ<sub>5</sub>, 3, 1, 0; 2000 OH, 7, 2, 1; 2000 QU<sub>9</sub>, 6, 2, 1; 2000 QV<sub>109</sub>, 3, 1, 0; 2000 RM<sub>12</sub>, 12, 2, 1; 2000 SU<sub>32</sub>, 3, 1, 0; 2000 SM<sub>43</sub>, 6, 2, 1; 2000 SO<sub>43</sub>, 5, 2, 1; 2000 SG<sub>183</sub>, 3, 1, 0; 2000 SB<sub>244</sub>, 2, 1, 0; 2000 SE<sub>244</sub>, 3, 1, 0; 2000 TB<sub>34</sub>, 6, 2, 1; 2000 UT<sub>2</sub> \*, 4, 2, 1; 2000 UU<sub>2</sub> \*, 5, 2, 1; 2000 UV<sub>2</sub> \*, 5, 2, 1; 2000 UW<sub>2</sub> \*, 5, 2, 1; 2000 UX<sub>2</sub> \*, 4, 2, 1; 4163 T-2, 3, 1, 0; (7639), 5, 2, 1; (11433), 4, 2, 1; (11562), 5, 2, 1; [111, 24, 5\*, 2000/09/22–2000/10/23]

### 627 Blauvac

R. Roy, Le Badassier St Esteve, F-84570 Blauvac, France [Rene.Roy@wanadoo.fr]

0.26-m  $f/4.7$  reflector + CCD

USNO-SA1.0, GSC

2000 UE<sub>29</sub>, 3, 1, 0; [3, 1, 0\*, 2000/10/31]

### 628 Mülheim-Ruhr

A. Martin, Turtle Star Observatory, Friedhostr. 15, D-45478 Mülheim-Ruhr,

Germany [axelm@bph.ruhr-uni-bochum.de]

Observers A. Boeker, A. Martin

0.25-m Schmidt-Cassegrain + CCD

USNO-A2.0

1999 CP<sub>15</sub>, 3, 1, 0; 2000 MC, 3, 1, 0; 2000 SP<sub>42</sub>, 3, 1, 0; 2000 SR<sub>179</sub>, 7, 1, 0; 2000 UC, 4, 1, 0; (4641), 4, 1, 0; [24, 6, 0\*, 2000/11/01–2000/11/03]

### 635 Perpignan

J.-M. Llapasset, 66 Cours De Lassus, F-66000 Perpignan, France [Jean-

Marie.Llapasset@wanadoo.fr]

0.28-m  $f/6.3$  reflector + CCD

GSC, USNO-SA1.0

2000 UE<sub>29</sub>, 2, 1, 0; (4183), 26, 2, 1; (17274), 4, 1, 0; [32, 3, 0\*, 2000/10/27–2000/10/31]

### 636 Essen

A. Knöfel, Saarbrücker Str. 8, D-40476 Düsseldorf, Germany [aknoefel@diip.de]

0.318-m  $f/5.7$  reflector + CCD

USNO-A2.0

2000 NR<sub>5</sub>, 4, 1, 0; 2000 OS<sub>22</sub>, 2, 1, 0; 2000 QH<sub>123</sub>, 2, 1, 0; 2000 QK<sub>150</sub>, 2, 1, 0; 2000 RM<sub>60</sub>, 2, 1, 0; (1719), 2, 1, 0; (4825), 2, 1, 0; [16, 7, 0\*, 2000/10/22]

### 639 Dresden

S. Gebhard, Duckwitzstrasse 27d, D-01129 Dresden, Germany [Gebhard@t-online.de]

0.35-m  $f/7.3$  reflector + CCD

USNO-A2.0

2000 DP<sub>107</sub>, 4, 1, 0; 2000 OG<sub>44</sub>, 2, 1, 0; 2000 UG<sub>11</sub>, 19, 4, 8; [25, 3, 0\*, 2000/10/16–2000/11/05]

### 642 Oak Bay, Victoria

C. E. Spratt, 1431 St. Patrick Street, Victoria, BC V8S 4Y5, Canada

[cspratt@islandnet.com]

0.20-m  $f/5.9$  Schmidt-Cassegrain + focal reducer + CCD  
GSC, USNO-SA2.0

2000 OG<sub>8</sub>, 4, 2, 9; 2000 UG<sub>11</sub>, 5, 1, 0; (18172), 7, 2, 7; [16, 3, 0\*, 2000/10/12–2000/10/31]

#### 643 OCA-Anza Observatory

M. White, 28089 Calle Valdes, Mission Viejo, CA 92692, U.S.A.

[minorwhite@email.msn.com]

Observers M. White, M. Collins  
0.57-m Cassegrain reflector + CCD  
USNO

2000 SL<sub>233</sub>, 3, 1, 0; 2000 TH, 6, 2, 15; 2000 TJ, 3, 1, 0; 2000 TK<sub>2</sub>, 3, 1, 0; [15, 4, 0\*, 2000/10/05–2000/10/25]

#### 644 Palomar Mountain/NEAT

E. F. Helin, MS 183-501, Jet Propulsion Laboratory, Pasadena, CA 91109, U.S.A.

[efh@temblor.jpl.nasa.gov]

S. Pravdo, Jet Propulsion Laboratory, MS 306-438, 4800 Oak Grove Drive,  
Pasadena, CA 91109, U.S.A. [spravdo@mail1.jpl.nasa.gov]

Observers S. Pravdo, D. L. Rabinowitz

1.2-m Oschin Schmidt + CCD

1999 GS<sub>53</sub>, 3, 1, 0; 2000 NC<sub>4</sub>, 3, 1, 0; 2000 QC<sub>44</sub>, 3, 1, 0; 2000 SZ<sub>68</sub>, 3, 1, 0; [12, 4, 0\*, 1999/06/10]

#### 649 Powell Observatory, Louisburg

L. Robinson, 14680 W 144 St., Olathe, KS 66062, U.S.A.

[lrobinson@ix.netcom.com]

Observers D. Trentman, M. Kirk, S. Kranz, R. Alonzi, D. Kindberg, D. Reuss,  
R. Fredrick

Measurers R. Fredrick, S. Kranz, D. Kindberg, R. Alonzi

0.30-m Schmidt-Cassegrain + CCD

GSC-1.1

1999 NL<sub>47</sub>, 3, 1, 0; 2000 PV<sub>12</sub>, 3, 1, 0; 2000 QW<sub>7</sub>, 4, 1, 0; 2000 RE<sub>45</sub>, 3, 1, 0; 2000 RN<sub>60</sub>, 3, 1, 0; 2000 RJ<sub>72</sub>, 4, 1, 0; 2000 SK<sub>188</sub>, 3, 1, 0; 2000 UR<sub>6</sub>, 5, 1, 0; 2000 UG<sub>11</sub>, 9, 2, 3; 2000 UX<sub>35</sub>, 3, 1, 0; 5149 T-2, 3, 1, 0; (4688), 3, 1, 0; (17274), 6, 2, 2; [52, 13, 0\*, 2000/10/19–2000/11/05]

#### 658 National Research Council of Canada

D. D. Balam, Dept. of Physics, University of Victoria, P.O. Box 3055, Victoria, BC

V8W 3P6, Canada [balam@beluga.phys.uvic.ca]

Observers D. D. Balam, H. Brown

1.82-m Plaskett telescope + CCD

USNO-A2.0

2000 AT<sub>38</sub>, 2, 1, 0; [2, 1, 0\*, 1998/09/29]

#### 670 Camarillo

J. E. Rogers, 441 Rowland Avenue, Camarillo, CA 93010, U.S.A.

[johnrogers@csi.com]

0.30-m  $f/6.7$  Helin Telescope + CCD

USNO-A2.0

1999 KV<sub>4</sub>, 2, 1, 0; 2000 DP<sub>107</sub>, 2, 1, 0; 2000 NM, 2, 1, 0; 2000 OG<sub>8</sub>, 2, 1, 0; 2000 OJ<sub>8</sub>, 3, 1, 0; 2000 OB<sub>22</sub>, 2, 1, 0; 2000 OG<sub>44</sub>, 2, 1, 0; 2000 QN<sub>130</sub>, 2, 1, 0; 2000 SB<sub>1</sub>, 4, 2, 1; 2000 SB<sub>8</sub>, 3, 2, 8; 2000 SA<sub>10</sub>, 5, 2, 8; 2000 SP<sub>43</sub>, 2, 1, 0; 2000 UH<sub>1</sub>, 2, 1, 0; 2000 UJ<sub>1</sub>, 4, 2, 7; 2000 UG<sub>11</sub>, 10, 4, 5; 2000 UK<sub>11</sub>, 4, 1, 0; 2000 UV<sub>13</sub>, 4, 2, 7; 2000 UT<sub>16</sub>, 2, 1, 0; 2000 UL<sub>30</sub>, 2, 1, 0; 2000 UN<sub>30</sub>, 2, 1, 0; 2000 UP<sub>30</sub>, 2, 1, 0; 2000 UE<sub>110</sub>, 2, 1, 0; 2000 VN<sub>2</sub>, 2, 1, 0; (4957), 1, 1, 0; (17511), 2, 1, 0; (18109), 2, 1, 0; [72, 26, 0\*, 2000/10/15–2000/11/05]

#### 671 Stony Ridge

J. E. Rogers, 441 Rowland Avenue, Camarillo, CA 93010, U.S.A.

[72401.3174@compuserve.com]

Observers J. E. Rogers, S. C. Brewster

0.76-m  $f/6$  Newtonian reflector + focal reducer + CCD

USNO-SA1.0

1999 XB<sub>217</sub>, 2, 1, 0; [2, 1, 0\*, 1995/02/26]

#### 673 Table Mountain Observatory

W. M. Owen, Jr., Jet Propulsion Laboratory, MS 301-150, Pasadena, CA 91109-8099, U.S.A. [wmo@jpl.nasa.gov] (1)

M. Hicks, Jet Propulsion Laboratory, MS 183-501, 4800 Oak Grove Drive,  
Pasadena, CA 91109, U.S.A. [hicksm@scn1.jpl.nasa.gov] (4)

Observers C. G. Ramirez, M. Anderson, L. Kuang, R. Martinez, M. Hicks,  
S. Gillam, D. Arvidson, W. Jordon, M. Majic, J. Ramirez, B. Bozek,  
B. Buratti, M. Garske

Measurers M. Hicks, W. M. Owen, Jr, K. Lawrence, Z. Thicksten

0.61-m  $f/16$  reflector + CCD

ACT

{1} (3), 2, 1, 0; (8), 3, 1, 0; (27), 7, 2, 1; (223), 1, 1, 0; (235), 3, 1, 0; (412), 3, 1, 0; (516), 6, 2, 1; (613), 3, 1, 0; (712), 1, 1, 0; (752), 2, 1, 0; [31, 10, 0\*, 2000/10/14–2000/10/15]

{4} 2000 VL<sub>38</sub>, 3, 1, 0; 2000 VZ<sub>44</sub>, 4, 2, 2; 2000 VA<sub>45</sub>, 3, 1, 0; [10, 3, 0\*, 2000/11/03–2000/11/05]

#### 675 Palomar

E. F. Helin, MS 183-501, Jet Propulsion Laboratory, Pasadena, CA 91109, U.S.A.

[efh@alps.jpl.nasa.gov] (2)

C. S. Shoemaker, P.O. Box 984, Flagstaff, AZ 86002, U.S.A.

[cshoemaker@flagmail.wr.usgs.gov] (3)

E. Bowell, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001,  
U.S.A. [elgb@lowell.edu] (6)

9 = 6 + 3

Observers E. F. Helin (2), K. Lawrence (2), C. S. Shoemaker (3),

E. M. Shoemaker (3)

Measurers K. Lawrence (2), B. A. Skiff (6)

0.46-m Schmidt

{2} 1993 SW<sub>7</sub>, 2, 1, 0; 1999 RC<sub>112</sub>, 2, 1, 0; 1999 XT<sub>104</sub>, 2, 1, 0; 2000 NZ<sub>23</sub>, 2, 1, 0; 2000 RH<sub>55</sub>, 2, 1, 0; [10, 5, 0\*, 1986/06/04–1993/10/20]

{3} 2000 JP<sub>14</sub>, 1, 1, 0; [1, 1, 0\*, 1991/10/17]

{9} 1993 SH<sub>15</sub>, 2, 1, 0; 1995 YD, 2, 1, 0; 1998 HL<sub>102</sub>, 1, 1, 0; 1999 JP<sub>122</sub>, 1, 1, 0; 1999 RB<sub>135</sub>, 1, 1, 0; 1999 TX<sub>96</sub>, 2, 1, 0; 1999 TW<sub>145</sub>, 1, 1, 0; 1999 UG<sub>50</sub>, 1, 1, 0; 2000 AJ<sub>103</sub>, 2, 1, 0; 2000 AE<sub>126</sub>, 2, 1, 0; 2000 DL<sub>42</sub>, 1, 1, 0; 2000 GM<sub>103</sub>, 1, 1, 0; 2000 ON<sub>21</sub>, 2, 1, 0; 2000 OF<sub>43</sub>, 1, 1, 0; 2000 PT<sub>8</sub>, 1, 1, 0; 2000 QU<sub>103</sub>, 2, 1, 0; 2000 RG<sub>97</sub>, 2, 1, 0; 2000 RO<sub>100</sub>, 2, 1, 0; 2000 SY<sub>319</sub>, 2, 1, 0; 2000 TB<sub>34</sub>, 2, 1, 0; 2000 TO<sub>36</sub>, 1, 1, 0; [32, 21, 0\*, 1986/03/04–1994/04/03]

#### 678 Fountain Hills

C. W. Juels, P.O. Box 19960, Fountain Hills, AZ 85269, U.S.A.

[cwjuels@futureone.com]

0.32-m  $f/5.5$  reflector + CCD

GSC-1.1

2000 SU<sub>44</sub>, 13, 3, 16; 2000 SB<sub>280</sub>, 4, 2, 1; 2000 TX<sub>28</sub>, 8, 2, 16; 2000 TN<sub>29</sub>, 5, 1, 0; 2000 TX<sub>36</sub> \*, 20, 5, 6; 2000 UM<sub>11</sub> \*, 10, 3, 11; 2000 UN<sub>11</sub> \*, 16, 5, 11; 2000 UN<sub>16</sub> \*, 8, 3, 8; 2000 UO<sub>16</sub> \*, 8, 3, 8; 2000 UP<sub>16</sub> \*, 4, 2, 2; 2000 VA \*, 10, 3, 5; [106, 11, 7\*, 2000/10/13–2000/11/06]

#### 683 Goodricke-Pigott Observatory, Tucson

R. A. Tucker, 5500 West Nebraska Street, Tucson, AZ 85746, U.S.A.

[tucker@noao.edu]

0.36-m  $f/11$  Schmidt-Cassegrain + CCD  
GSC

2000 ER<sub>137</sub>, 3, 1, 0; 2000 TL<sub>60</sub>, 3, 1, 0; [6, 2, 0\*, 1997/02/07–1998/11/26]

### 684 Prescott

P. G. Comba, 1411 Galaxy Lane, Prescott, AZ 86303, U.S.A.

[comba@northlink.com]

0.46-m  $f/4.5$  reflector + CCD  
GSC

1994 CE<sub>3</sub>, 2, 1, 0; 1995 TL<sub>8</sub>, 4, 2, 1; 1996 MN, 2, 1, 0; 1996 OF, 2, 1, 0; 1996 SN, 2, 1, 0; 1996 VC<sub>5</sub>, 4, 2, 1; 1997 EP, 3, 1, 0; 1998 BZ<sub>3</sub>, 2, 1, 0; 1999 GL, 5, 2, 1; 1999 JZ<sub>2</sub>, 5, 2, 1; 1999 KO<sub>4</sub>, 2, 1, 0; 2000 SO<sub>8</sub>, 2, 1, 0; 2000 SN<sub>10</sub>, 3, 1, 0; 2000 SU<sub>20</sub>, 2, 1, 0; 2000 SN<sub>256</sub>, 3, 1, 0; 2000 TL<sub>1</sub>, 3, 1, 0; 2000 TG<sub>2</sub>, 5, 1, 0; 2000 TR<sub>15</sub>, 5, 2, 1; 2000 TU<sub>28</sub>, 5, 1, 0; 2000 TC<sub>63</sub>, 2, 1, 0; 2000 TR<sub>66</sub>, 5, 2, 1; 2000 UL, 5, 2, 4; 2000 UL<sub>3</sub> \*, 5, 2, 1; 2000 UN<sub>40</sub>, 2, 1, 0; [80, 24, 1\*, 2000/09/08–2000/11/02]

### 688 Lowell Observatory, Anderson Mesa Station

M. W. Buie, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001,

U.S.A. [buie@lowell.edu] (1)

E. Bowell, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001,

U.S.A. [elgb@lowell.edu] (4)

L. H. Wasserman, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff,

AZ 86001, U.S.A. [lhw@lowell.edu] (5)

Observers M. W. Buie (1), B. A. Skiff (4), L. H. Wasserman (5)

0.79-m reflector + CCD, 1.07-m reflector + CCD

USNO-A2.0

{1} 1993 QN, 2, 1, 0; 1994 GX, 4, 1, 0; 1996 QM<sub>1</sub>, 2, 1, 0; 1998 BK<sub>12</sub>, 2, 1, 0; 1998 GE<sub>2</sub>, 3, 1, 0; 1998 SB<sub>27</sub>, 9, 1, 0; 1998 SG<sub>147</sub>, 2, 1, 0; 1998 WW<sub>4</sub>, 2, 1, 0; 1999 JN<sub>45</sub>, 2, 1, 0; 2000 LU<sub>21</sub>, 2, 1, 0; 2000 OS<sub>34</sub>, 3, 1, 0; 2000 SE<sub>43</sub>, 3, 1, 0; 2000 SD<sub>101</sub>, 2, 1, 0; 2000 SQ<sub>258</sub>, 3, 1, 0; 4320 T-1, 4, 1, 0; [45, 15, 0\*, 1997/03/08–2000/04/05]

{4} 2000 OO<sub>9</sub>, 2, 1, 0; [2, 1, 0\*, 1997/11/29]

{5} 1995 SF<sub>5</sub>, 2, 1, 0; 1997 LG<sub>1</sub>, 2, 1, 0; 1998 HR<sub>24</sub>, 2, 1, 0; 1998 QV<sub>99</sub>, 2, 1, 0; 1998 SZ<sub>131</sub>, 2, 1, 0; 1999 JB<sub>78</sub>, 2, 1, 0; 1999 TH<sub>30</sub>, 3, 1, 0; 1999 VX<sub>54</sub>, 3, 1, 0; 2000 EB<sub>78</sub>, 2, 1, 0; 2000 QD<sub>243</sub>, 2, 1, 0; 2000 QC<sub>243</sub>, 2, 1, 0; 2000 RH<sub>6</sub>, 2, 1, 0; 2000 RP<sub>12</sub>, 2, 1, 0; 2000 RW<sub>60</sub>, 2, 1, 0; 2000 SA<sub>331</sub>, 2, 1, 0; (2919), 2, 1, 0; (12561), 3, 1, 0; [37, 17, 0\*, 2000/01/04–2000/10/02]

### 689 U.S. Naval Observatory, Flagstaff Station

C. B. Luginbuhl, U.S. Naval Observatory Flagstaff Station, P.O. Box 1149,

Flagstaff AZ 86002-1149 [cluginbuhl@nofs.navy.mil]

1.0-m reflector + CCD

USNO-A1.0

1999 TH<sub>293</sub>, 3, 1, 0; [3, 1, 0\*, 1999/11/17]

### 691 Kitt Peak, Steward Observatory

R. S. McMillan, Space Sciences Building, University of Arizona, Tucson, AZ 85721,

U.S.A. [bob@lpl.arizona.edu]

Observers M. T. Read, R. S. McMillan, T. Gehrels, A. E. Gleason, J. V. Scotti,

J. A. Larsen, J. L. Montani, A. F. Tubbiolo, A. S. Descour, B. P. Zuniga

0.91-m Spacewatch telescope + CCD

USNO-A1.0, USNO-SA1.0

1975 VX<sub>2</sub>, 3, 1, 0; 1978 VJ<sub>4</sub>, 3, 1, 0; 1978 VR<sub>6</sub>, 3, 1, 0; 1979 MC<sub>3</sub>, 3, 1, 0; 1979 MR<sub>6</sub>, 3, 1, 0; 1980 PU, 3, 1, 0; 1981 ER<sub>2</sub>, 6, 2, 3069; 1981 EH<sub>5</sub>, 3, 1, 0; 1981 EC<sub>7</sub>, 3, 1, 0; 1981 EJ<sub>8</sub>, 3, 1, 0; 1981 EW<sub>8</sub>, 3, 1, 0; 1981 ER<sub>9</sub>, 3, 1, 0; 1981 EH<sub>12</sub>, 3, 1, 0; 1981 EZ<sub>23</sub>, 3, 1, 0; 1981 ED<sub>41</sub>, 3, 1, 0; 1981 ET<sub>43</sub>, 3, 1, 0; 1983 RY<sub>2</sub>, 3, 1, 0; 1985 CV<sub>1</sub>, 3, 1, 0; 1985 QL<sub>3</sub>, 3, 1, 0; 1986 TP<sub>1</sub>, 3, 1, 0; 1987 YR<sub>1</sub>, 3, 1, 0; 1988 VW<sub>2</sub>, 3, 1, 0; 1989 GM<sub>2</sub>, 3, 1, 0; 1989 SN<sub>2</sub>, 3, 1, 0; 1989 TE<sub>3</sub>, 3, 1, 0; 1989 UQ<sub>5</sub>, 3, 1, 0; 1989 UB<sub>7</sub>, 3, 1, 0; 1990 SH<sub>5</sub>, 3, 1, 0; 1990 TL<sub>7</sub>, 3, 1, 0; 1990 VA<sub>5</sub>, 3, 1, 0; 1991 CD, 3, 1, 0; 1991 GS<sub>3</sub>, 3, 1, 0; 1991 NS<sub>6</sub>, 3, 1, 0; 1991 RD<sub>13</sub>, 3, 1, 0; 1991 SE<sub>3</sub>, 3, 1, 0; 1991 TN<sub>2</sub>, 3, 1, 0; 1991 VT<sub>2</sub>, 3, 1, 0; 1992 CB<sub>6</sub>, 2, 1, 0; 1992 DK<sub>8</sub>, 3, 1, 0; 1992 EL<sub>5</sub>, 3, 1, 0; 1992 EA<sub>14</sub>, 6, 2, 26; 1992 ER<sub>25</sub>, 3, 1, 0; 1992 EB<sub>27</sub>, 3, 1, 0; 1992 GZ<sub>4</sub>, 3, 1, 0; 1992 PZ, 3, 1,

0; 1992 QB, 3, 1, 0; 1993 AG, 3, 1, 0; 1993 FX<sub>4</sub>, 3, 1, 0; 1993 FC<sub>17</sub>, 3, 1, 0; 1993 FX<sub>20</sub>, 3, 1, 0; 1993 FE<sub>26</sub>, 3, 1, 0; 1993 FE<sub>43</sub>, 3, 1, 0; 1993 FD<sub>46</sub>, 3, 1, 0; 1993 FJ<sub>51</sub>, 6, 2, 1036; 1993 FY<sub>57</sub>, 3, 1, 0; 1993 HC, 3, 1, 0; 1993 OH<sub>5</sub>, 3, 1, 0; 1993 RU<sub>5</sub>, 3, 1, 0; 1993 RH<sub>16</sub>, 5, 2, 52; 1993 TR<sub>2</sub>, 3, 1, 0; 1993 TM<sub>6</sub>, 3, 1, 0; 1993 TC<sub>38</sub>, 3, 1, 0; 1993 TT<sub>38</sub>, 3, 1, 0; 1993 VT<sub>4</sub>, 3, 1, 0; 1994 AG<sub>7</sub>, 3, 1, 0; 1994 CJ<sub>1</sub>, 2, 1, 0; 1994 CR<sub>5</sub>, 3, 1, 0; 1994 CB<sub>11</sub>, 3, 1, 0; 1994 CZ<sub>11</sub>, 3, 1, 0; 1994 GY<sub>10</sub>, 3, 1, 0; 1994 JC<sub>8</sub>, 3, 1, 0; 1994 PA<sub>3</sub>, 3, 1, 0; 1994 PX<sub>3</sub>, 3, 1, 0; 1994 PD<sub>4</sub>, 3, 1, 0; 1994 PW<sub>6</sub>, 3, 1, 0; 1994 PH<sub>8</sub>, 12, 4, 35; 1994 PX<sub>8</sub>, 3, 1, 0; 1994 PD<sub>14</sub>, 6, 2, 12; 1994 PW<sub>17</sub>, 3, 1, 0; 1994 PR<sub>22</sub>, 3, 1, 0; 1994 PF<sub>26</sub>, 6, 2, 1302; 1994 PY<sub>36</sub>, 3, 1, 0; 1994 PW<sub>37</sub>, 3, 1, 0; 1994 RB<sub>9</sub>, 3, 1, 0; 1994 RG<sub>10</sub>, 3, 1, 0; 1994 RT<sub>10</sub>, 3, 1, 0; 1994 RN<sub>28</sub>, 3, 1, 0; 1994 SW<sub>10</sub>, 2, 1, 0; 1994 UH<sub>3</sub>, 3, 1, 0; 1995 CQ<sub>3</sub>, 6, 2, 29; 1995 DK<sub>13</sub>, 3, 1, 0; 1995 EP<sub>5</sub>, 3, 1, 0; 1995 EX<sub>7</sub>, 3, 1, 0; 1995 FS<sub>1</sub>, 3, 1, 0; 1995 FP<sub>4</sub>, 3, 1, 0; 1995 FD<sub>19</sub>, 6, 2, 17; 1995 GQ<sub>1</sub>, 3, 1, 0; 1995 JL<sub>1</sub>, 3, 1, 0; 1995 QJ<sub>1</sub>, 6, 2, 11; 1995 SM<sub>10</sub>, 3, 1, 0; 1995 SV<sub>30</sub>, 3, 1, 0; 1995 SC<sub>53</sub>, 6, 2, 1391; 1995 SP<sub>53</sub>, 3, 1, 0; 1995 UD<sub>1</sub>, 6, 2, 38; 1995 UM<sub>23</sub>, 6, 2, 1330; 1995 UW<sub>25</sub>, 2, 1, 0; 1995 UK<sub>33</sub>, 6, 2, 15; 1995 UC<sub>35</sub>, 3, 1, 0; 1995 UW<sub>44</sub>, 3, 1, 0; 1995 VW<sub>14</sub>, 3, 1, 0; 1995 WN<sub>35</sub>, 3, 1, 0; 1995 YB<sub>3</sub>, 3, 1, 0; 1995 YC<sub>4</sub>, 3, 1, 0; 1995 YA<sub>8</sub>, 3, 1, 0; 1996 AR<sub>20</sub> \*, 9, 3, 13; 1996 AS<sub>20</sub> \*, 12, 3, 13; 1996 BA<sub>4</sub>, 3, 1, 0; 1996 BQ<sub>5</sub>, 6, 2, 12; 1996 BY<sub>17</sub>, 3, 1, 0; 1996 FD<sub>24</sub> \*, 6, 2, 4; 1996 HZ<sub>25</sub>, 3, 1, 0; 1996 JX<sub>3</sub>, 3, 1, 0; 1996 KV, 6, 2, 14; 1996 LG, 6, 2, 2; 1996 PK<sub>1</sub>, 3, 1, 0; 1996 PB<sub>8</sub>, 5, 2, 39; 1996 RX<sub>3</sub>, 3, 1, 0; 1996 RE<sub>17</sub>, 3, 1, 0; 1996 RY<sub>22</sub>, 3, 1, 0; 1996 RB<sub>25</sub>, 3, 1, 0; 1996 SG<sub>6</sub>, 3, 1, 0; 1996 TQ<sub>4</sub>, 3, 1, 0; 1996 TG<sub>13</sub>, 3, 1, 0; 1996 TW<sub>58</sub>, 3, 1, 0; 1996 UX<sub>1</sub>, 3, 1, 0; 1996 VS<sub>13</sub>, 3, 1, 0; 1996 VL<sub>26</sub>, 3, 1, 0; 1996 VV<sub>26</sub>, 3, 1, 0; 1996 WB<sub>2</sub>, 6, 2, 464; 1996 XQ<sub>6</sub>, 3, 1, 0; 1996 XX<sub>7</sub>, 3, 1, 0; 1996 XL<sub>10</sub>, 3, 1, 0; 1996 XU<sub>10</sub>, 3, 1, 0; 1996 XN<sub>15</sub>, 6, 2, 4; 1996 XL<sub>29</sub>, 3, 1, 0; 1996 XW<sub>35</sub>, 3, 1, 0; 1996 XU<sub>36</sub>, 3, 1, 0; 1997 AV<sub>2</sub>, 3, 1, 0; 1997 AU<sub>5</sub>, 12, 4, 5; 1997 AF<sub>8</sub>, 6, 2, 1808; 1997 AX<sub>9</sub>, 3, 1, 0; 1997 AN<sub>12</sub>, 6, 2, 7; 1997 AX<sub>12</sub>, 3, 1, 0; 1997 AK<sub>15</sub>, 3, 1, 0; 1997 AB<sub>23</sub>, 3, 1, 0; 1997 BK<sub>2</sub>, 3, 1, 0; 1997 EM<sub>5</sub>, 6, 2, 24; 1997 EX<sub>10</sub>, 3, 1, 0; 1997 ET<sub>16</sub>, 6, 2, 1375; 1997 EM<sub>28</sub>, 3, 1, 0; 1997 ET<sub>32</sub>, 3, 1, 0; 1997 EO<sub>47</sub>, 3, 1, 0; 1997 EK<sub>51</sub>, 3, 1, 0; 1997 EO<sub>52</sub>, 3, 1, 0; 1997 GC<sub>4</sub>, 6, 2, 14; 1997 GF<sub>8</sub>, 9, 3, 2551; 1997 GV<sub>18</sub>, 3, 1, 0; 1997 GS<sub>35</sub>, 3, 1, 0; 1997 GV<sub>43</sub>, 3, 1, 0; 1997 JS<sub>12</sub>, 6, 2, 1330; 1997 MX<sub>5</sub>, 6, 2, 29; 1997 RJ<sub>4</sub>, 3, 1, 0; 1997 TB<sub>2</sub>, 2, 1, 0; 1997 TE<sub>9</sub>, 3, 1, 0; 1997 UR<sub>7</sub>, 3, 1, 0; 1997 VL<sub>8</sub>, 3, 1, 0; 1997 WC, 6, 1, 0; 1997 WL<sub>2</sub>, 3, 1, 0; 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1998 HD<sub>85</sub>, 3, 1, 0; 1998 HX<sub>88</sub>, 3, 1, 0; 1998 HR<sub>99</sub>, 3, 1, 0; 1998 HW<sub>102</sub>, 6, 2, 1327; 1998 HC<sub>108</sub>, 3, 1, 0; 1998 HO<sub>119</sub>, 3, 1, 0; 1998 HW<sub>122</sub>, 6, 2, 1826; 1998 HT<sub>127</sub>, 3, 1, 0; 1998 HZ<sub>127</sub>, 3, 1, 0; 1998 HA<sub>130</sub>, 3, 1, 0; 1998 HC<sub>132</sub>, 3, 1, 0; 1998 HE<sub>143</sub>, 3, 1, 0; 1998 HM<sub>148</sub>, 3, 1, 0; 1998 HY<sub>149</sub>, 6, 2, 9; 1998 JO<sub>1</sub>, 3, 1, 0; 1998 JR<sub>2</sub>, 3, 1, 0; 1998 KU<sub>7</sub>, 3, 1, 0; 1998 KW<sub>7</sub>, 3, 1, 0; 1998 KJ<sub>12</sub>, 2, 1, 0; 1998 KZ<sub>15</sub>, 3, 1, 0; 1998 KP<sub>19</sub>, 3, 1, 0; 1998 KH<sub>23</sub>, 3, 1, 0; 1998 KE<sub>31</sub>, 3, 1, 0; 1998 KS<sub>32</sub>, 3, 1, 0; 1998 KJ<sub>39</sub>, 3, 1, 0; 1998 KO<sub>42</sub>, 3, 1, 0; 1998 KQ<sub>42</sub>, 6, 2, 1483; 1998 KM<sub>57</sub>, 3, 1, 0; 1998 KA<sub>63</sub>, 3, 1, 0; 1998 KX<sub>66</sub>, 3, 1, 0; 1998 LE<sub>4</sub>, 3, 1, 0; 1998 MZ, 3, 1, 0; 1998 MX<sub>11</sub>, 3, 1, 0; 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1, 0; 1998 RZ<sub>58</sub>, 3, 1, 0; 1998 RB<sub>59</sub>, 3, 1, 0; 1998 RN<sub>62</sub>, 3, 1, 0; 1998 RG<sub>66</sub>, 3, 1, 0; 1998 RR<sub>68</sub>, 6, 2, 11; 1998 RC<sub>69</sub>, 3, 1, 0; 1998 RH<sub>69</sub>, 6, 2, 42; 1998 RY<sub>72</sub>, 6, 2, 19; 1998 RG<sub>73</sub>, 3, 1, 0; 1998 RX<sub>73</sub>, 3, 1, 0; 1998 RF<sub>75</sub>, 3, 1, 0; 1998 RH<sub>75</sub>, 3, 1, 0; 1998 RL<sub>75</sub>, 6, 2, 16; 1998 RM<sub>75</sub>, 3, 1, 0; 1998 RE<sub>77</sub>, 3, 1, 0; 1998 SF<sub>6</sub>, 3, 1, 0; 1998 ST<sub>7</sub>, 3, 1, 0; 1998 SV<sub>9</sub>, 3, 1, 0; 1998 SE<sub>10</sub>, 3, 1, 0; 1998 SK<sub>10</sub>, 3, 1, 0; 1998 SS<sub>15</sub>, 3, 1, 0; 1998 SY<sub>15</sub>, 3, 1, 0; 1998 SA<sub>20</sub>, 3, 1, 0; 1998 SL<sub>21</sub>, 12, 4, 2656; 1998 SY<sub>21</sub>, 6, 2, 1991; 1998 ST<sub>26</sub>, 3, 1, 0; 1998 SB<sub>27</sub>, 3, 1, 0; 1998 SC<sub>27</sub>, 3, 1, 0; 1998 SF<sub>27</sub>, 3, 1, 0; 1998 SX<sub>28</sub>, 3, 1, 0; 1998 SX<sub>32</sub>, 3, 1, 0; 1998 SH<sub>43</sub>, 3, 1, 0; 1998 SO<sub>43</sub>, 3, 1, 0; 1998 SA<sub>44</sub>, 3, 1, 0; 1998 SE<sub>44</sub>, 3, 1, 0; 1998 SB<sub>49</sub>, 8, 3, 24; 1998 SC<sub>49</sub>, 6, 2, 24; 1998 SS<sub>50</sub>, 3, 1, 0; 1998 ST<sub>52</sub>, 3, 1, 0; 1998 SD<sub>54</sub>, 3, 1, 0; 1998 SL<sub>55</sub>, 3, 1, 0; 1998 SM<sub>55</sub>, 3, 1, 0; 1998 SU<sub>55</sub>, 6, 2, 25; 1998 SW<sub>55</sub>, 3, 1, 0; 1998 SM<sub>56</sub>, 3, 1, 0; 1998 ST<sub>56</sub>, 6, 2, 30; 1998 SV<sub>56</sub>, 3, 1, 0; 1998 SJ<sub>58</sub>, 3, 1, 0; 1998 SS<sub>58</sub>, 6, 2, 14; 1998 SD<sub>59</sub>, 3, 1, 0; 1998 SP<sub>62</sub>, 3, 1, 0; 1998 SK<sub>63</sub>, 3, 1, 0; 1998 SN<sub>63</sub>, 3, 1, 0; 1998 SA<sub>64</sub>, 3, 1, 0; 1998 SS<sub>65</sub>, 3, 1, 0; 1998 SW<sub>72</sub>, 3, 1, 0; 1998 SZ<sub>74</sub>, 3, 1, 0; 1998 SU<sub>79</sub>, 3, 1, 0; 1998 SL<sub>81</sub>, 3, 1, 0; 1998 SQ<sub>81</sub>, 3, 1, 0; 1998 SS<sub>83</sub>, 9, 3, 24; 1998 SZ<sub>96</sub>, 3, 1, 0; 1998 SF<sub>97</sub>, 3, 1, 0; 1998 SO<sub>102</sub>, 3, 1, 0; 1998 SC<sub>103</sub>, 4, 2, 66; 1998 SH<sub>106</sub>, 3, 1, 0; 1998 SU<sub>106</sub>, 6, 2, 1975; 1998 SF<sub>111</sub>, 3, 1, 0; 1998 SK<sub>111</sub>, 3, 1, 0; 1998 SR<sub>114</sub>, 3, 1, 0; 1998 SU<sub>115</sub>, 6, 2, 13; 1998 SS<sub>116</sub>, 5, 2, 13; 1998 SQ<sub>118</sub>, 3, 1, 0; 1998 ST<sub>118</sub>, 3, 1, 0; 1998 ST<sub>119</sub>, 3, 1, 0; 1998 SE<sub>127</sub>, 3, 1, 0; 1998 SZ<sub>134</sub>, 3, 1, 0; 1998 SO<sub>137</sub>, 9, 3, 1007; 1998 SW<sub>138</sub>, 2, 1, 0; 1998 SX<sub>138</sub>, 3, 1, 0; 1998 SY<sub>138</sub>, 3, 1, 0; 1998 SX<sub>140</sub>, 2, 1, 0; 1998 SY<sub>141</sub>, 3, 1, 0; 1998 SN<sub>142</sub>, 2, 1, 0; 1998 SP<sub>144</sub>, 3, 1, 0; 1998 SN<sub>145</sub>, 3, 1, 0; 1998 SB<sub>146</sub>, 3, 1, 0; 1998 SW<sub>146</sub>, 3, 1, 0; 1998 SV<sub>147</sub>, 3, 1, 0; 1998 SC<sub>152</sub>, 3, 1, 0; 1998 SG<sub>155</sub>, 3, 1, 0; 1998 SJ<sub>156</sub>, 6, 2, 8; 1998 SJ<sub>162</sub>, 6, 2, 2982; 1998 SU<sub>162</sub>, 3, 1, 0; 1998 TX<sub>1</sub>, 3, 1, 0; 1998 TO<sub>6</sub>, 6, 2, 36; 1998 TN<sub>10</sub>, 3, 1, 0; 1998 TD<sub>11</sub>, 3, 1, 0; 1998 TV<sub>12</sub>, 3, 1, 0; 1998 TH<sub>15</sub>, 3, 1, 0; 1998 TE<sub>16</sub>, 3, 1, 0; 1998 TK<sub>17</sub>, 3, 1, 0; 1998 TF<sub>20</sub>, 3, 1, 0; 1998 TM<sub>30</sub>, 6, 2, 35; 1998 TO<sub>30</sub>, 3, 1, 0; 1998 TQ<sub>31</sub>, 3, 1, 0; 1998 TW<sub>32</sub>, 3, 1, 0; 1998 TY<sub>32</sub>, 3, 1, 0; 1998 TA<sub>33</sub>, 3, 1, 0; 1998 TH<sub>33</sub>, 3, 1, 0; 1998 UC<sub>3</sub>, 3, 1, 0; 1998 UN<sub>7</sub>, 3, 1, 0; 1998 UQ<sub>7</sub>, 3, 1, 0; 1998 UW<sub>8</sub>, 3, 1, 0; 1998 UG<sub>8</sub>, 6, 2, 43; 1998 US<sub>13</sub>, 3, 1, 0; 1998 UZ<sub>14</sub>, 3, 1, 0; 1998 UN<sub>15</sub>, 6, 2, 7; 1998 UV<sub>15</sub>, 2, 1, 0; 1998 UP<sub>16</sub>, 3, 1, 0; 1998 UA<sub>19</sub>, 6, 2, 13; 1998 UY<sub>19</sub>, 2, 1, 0; 1998 UL<sub>24</sub>, 3, 1, 0; 1998 UW<sub>24</sub>, 5, 2, 6; 1998 UH<sub>29</sub>, 9, 3, 1427; 1998 UC<sub>41</sub>, 3, 1, 0; 1998 UK<sub>41</sub>, 3, 1, 0; 1998 VC<sub>3</sub>, 3, 1, 0; 1998 VD<sub>13</sub>, 6, 2, 8; 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1999 JX<sub>71</sub>, 6, 2, 1450; 1999 JF<sub>72</sub>, 3, 1, 0; 1999 JQ<sub>72</sub>, 3, 1, 0; 1999 JA<sub>73</sub>, 3, 1, 0; 1999 JG<sub>73</sub>, 3, 1, 0; 1999 JG<sub>74</sub>, 3, 1, 0; 1999 JR<sub>76</sub>, 3, 1, 0; 1999 JG<sub>78</sub>, 3, 1, 0; 1999 JH<sub>78</sub>, 3, 1, 0; 1999 JO<sub>79</sub>, 3, 1, 0; 1999 JH<sub>80</sub>, 6, 2, 1448; 1999 JQ<sub>81</sub>, 3, 1, 0; 1999 JP<sub>83</sub>, 6, 1, 0; 1999 JC<sub>86</sub>, 3, 1, 0; 1999 JW<sub>93</sub>, 3, 1, 0; 1999 JY<sub>95</sub>, 3, 1, 0; 1999 JR<sub>103</sub>, 3, 1, 0; 1999 JB<sub>109</sub>, 3, 1, 0; 1999 JA<sub>113</sub>, 2, 1, 0; 1999 JV<sub>114</sub>, 3, 1, 0; 1999 JA<sub>116</sub>, 6, 2, 1419; 1999 JG<sub>117</sub>, 3, 1, 0; 1999 JS<sub>117</sub>, 2, 1, 0; 1999 JR<sub>119</sub>, 3, 1, 0; 1999 JZ<sub>120</sub>, 3, 1, 0; 1999 JL<sub>122</sub>, 3, 1, 0; 1999 JO<sub>122</sub>, 3, 1, 0; 1999 JX<sub>123</sub>, 2, 1, 0; 1999 JG<sub>127</sub>, 3, 1, 0; 1999 JN<sub>134</sub>, 3, 1, 0; 1999 KJ<sub>3</sub>, 3, 1, 0; 1999 KQ<sub>10</sub>, 3, 1, 0; 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9, 3, 949; 2000 AC<sub>25</sub>, 9, 3, 2765; 2000 AS<sub>27</sub>, 9, 3, 22; 2000 AJ<sub>29</sub>, 3, 1, 0; 2000 AE<sub>38</sub>, 3, 1, 0; 2000 AT<sub>38</sub>, 3, 1, 0; 2000 AB<sub>51</sub>, 3, 1, 0; 2000 AG<sub>60</sub>, 6, 2, 55; 2000 AS<sub>66</sub>, 3, 1, 0; 2000 AO<sub>68</sub>, 3, 1, 0; 2000 AB<sub>69</sub>, 6, 2, 1527; 2000 AF<sub>69</sub>, 3, 1, 0; 2000 AC<sub>80</sub>, 6, 2, 13; 2000 AP<sub>88</sub>, 3, 1, 0; 2000 AO<sub>94</sub>, 6, 2, 2540; 2000 AS<sub>96</sub>, 3, 1, 0; 2000 AS<sub>102</sub>, 3, 1, 0; 2000 AL<sub>104</sub>, 3, 1, 0; 2000 AS<sub>104</sub>, 9, 3, 11; 2000 AL<sub>114</sub>, 3, 1, 0; 2000 AF<sub>116</sub>, 6, 2, 1267; 2000 AJ<sub>120</sub>, 3, 1, 0; 2000 AW<sub>120</sub>, 3, 1, 0; 2000 AP<sub>128</sub>, 3, 1, 0; 2000 AE<sub>129</sub>, 3, 1, 0; 2000 AM<sub>131</sub>, 3, 1, 0; 2000 AT<sub>147</sub>, 3, 1, 0; 2000 AJ<sub>167</sub>, 3, 1, 0; 2000 AK<sub>169</sub>, 3, 1, 0; 2000 AC<sub>170</sub>, 3, 1, 0; 2000 AR<sub>170</sub>, 3, 1, 0; 2000 AV<sub>171</sub>, 6, 2, 466; 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2000 EC<sub>24</sub>, 3, 1, 0; 2000 EX<sub>24</sub>, 2, 1, 0; 2000 EF<sub>25</sub>, 6, 2, 29; 2000 ER<sub>29</sub>, 3, 1, 0; 2000 ES<sub>29</sub>, 8, 2, 969; 2000 ER<sub>30</sub>, 3, 1, 0; 2000 EY<sub>31</sub>, 3, 1, 0; 2000 EG<sub>32</sub>, 5, 2, 1; 2000 EJ<sub>32</sub>, 3, 1, 0; 2000 EA<sub>34</sub>, 5, 2, 1471; 2000 EP<sub>35</sub>, 3, 1, 0; 2000 EZ<sub>38</sub>, 6, 2, 30; 2000 ER<sub>39</sub>, 6, 2, 957; 2000 EX<sub>39</sub>, 3, 1, 0; 2000 ER<sub>41</sub>, 3, 1, 0; 2000 EB<sub>43</sub>, 3, 1, 0; 2000 EE<sub>43</sub>, 2, 1, 0; 2000 EF<sub>43</sub>, 6, 2, 1476; 2000 EH<sub>43</sub>, 3, 1, 0; 2000 EZ<sub>44</sub>, 3, 1, 0; 2000 EO<sub>47</sub>, 6, 2, 2565; 2000 EQ<sub>47</sub>, 3, 1, 0; 2000 EC<sub>48</sub>, 3, 1, 0; 2000 EX<sub>48</sub>, 6, 2, 9; 2000 ES<sub>55</sub>, 11, 4, 978; 2000 EW<sub>56</sub>, 6, 2, 1329; 2000 EL<sub>57</sub>, 3, 1, 0; 2000 EQ<sub>57</sub>, 6, 2, 56; 2000 EG<sub>60</sub>, 3, 1, 0; 2000 EP<sub>60</sub>, 3, 1, 0; 2000 EC<sub>61</sub>, 6, 2, 11; 2000 ES<sub>63</sub>, 3, 1, 0; 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2000 GV<sub>41</sub>, 3, 1, 0; 2000 GW<sub>42</sub>, 3, 1, 0; 2000 GA<sub>43</sub>, 6, 2, 543; 2000 GS<sub>48</sub>, 3, 1, 0; 2000 GZ<sub>56</sub>, 6, 2, 495; 2000 GJ<sub>60</sub>, 2, 1, 0; 2000 GY<sub>61</sub>, 6, 2, 1373; 2000 GQ<sub>62</sub>, 6, 2, 25; 2000 GB<sub>63</sub>, 6, 2, 596; 2000 GM<sub>66</sub>, 3, 1, 0; 2000 GB<sub>67</sub>, 8, 3, 1489; 2000 GN<sub>69</sub>, 9, 3, 78; 2000 GQ<sub>69</sub>, 6, 2, 57; 2000 GD<sub>74</sub>, 3, 1, 0; 2000 GV<sub>76</sub>, 3, 1, 0; 2000 GW<sub>76</sub>, 3, 1, 0; 2000 GB<sub>79</sub>, 3, 1, 0; 2000 GC<sub>81</sub>, 3, 1, 0; 2000 GQ<sub>85</sub>, 3, 1, 0; 2000 GY<sub>85</sub>, 6, 2, 2576; 2000 GE<sub>86</sub>, 6, 2, 17; 2000 GE<sub>88</sub>, 6, 2, 1043; 2000 GR<sub>94</sub>, 3, 1, 0; 2000 GV<sub>94</sub>, 9, 3, 1808; 2000 GW<sub>94</sub>, 12, 4, 1507; 2000 GB<sub>98</sub>, 9, 3, 878; 2000 GJ<sub>98</sub>, 6, 2, 1065; 2000 GP<sub>98</sub>, 3, 1, 0; 2000 GJ<sub>99</sub>, 9, 3, 477; 2000 GR<sub>99</sub>, 9, 3, 1469; 2000 GB<sub>100</sub>, 3, 1, 0; 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2000 HF<sub>88</sub>, 3, 1, 0; 2000 JO<sub>14</sub>, 3, 1, 0; 2000 JP<sub>14</sub>, 3, 1, 0; 2000 JO<sub>16</sub>, 3, 1, 0; 2000 JV<sub>16</sub>, 3, 1, 0; 2000 JN<sub>17</sub>, 6, 2, 1808; 2000 JB<sub>18</sub>, 3, 1, 0; 2000 JR<sub>20</sub>, 6, 2, 438; 2000 JX<sub>20</sub>, 3, 1, 0; 2000 JJ<sub>24</sub>, 3, 1, 0; 2000 JW<sub>24</sub>, 3, 1, 0; 2000 JY<sub>26</sub>, 12, 4, 409; 2000 JW<sub>28</sub>, 15, 5, 1492; 2000 JV<sub>30</sub>, 3, 1, 0; 2000 JV<sub>32</sub>, 3, 1, 0; 2000 JW<sub>33</sub>, 6, 2, 9; 2000 JR<sub>39</sub>, 9, 3, 2241; 2000 JS<sub>39</sub>, 9, 3, 2212; 2000 JJ<sub>41</sub>, 11, 5, 495; 2000 JW<sub>43</sub>, 6, 2, 470; 2000 JQ<sub>49</sub>, 9, 3, 1522; 2000 JF<sub>51</sub>, 3, 1, 0; 2000 JQ<sub>51</sub>, 3, 1, 0; 2000 JC<sub>52</sub>, 3, 1, 0; 2000 JK<sub>54</sub>, 9, 3, 436; 2000 JM<sub>54</sub>, 3, 1, 0; 2000 JU<sub>55</sub>, 3, 1, 0; 2000 JW<sub>56</sub>, 3, 1, 0; 2000 JD<sub>60</sub>, 6, 2, 1456; 2000 JW<sub>70</sub>, 6, 2, 52; 2000 JT<sub>75</sub>, 5, 2, 331; 2000 JS<sub>76</sub>, 9, 3, 1458; 2000 JY<sub>83</sub>, 12, 4, 2522; 2000 KO, 3, 1, 0; 2000 KV, 6, 2, 26; 2000 KD<sub>6</sub>, 6, 2, 28; 2000 KG<sub>31</sub>, 3, 1, 0; 2000 KJ<sub>31</sub>, 3, 1, 0; 2000 KX<sub>32</sub>, 5, 2, 1775; 2000 KH<sub>36</sub>, 12, 4, 2038; 2000 KG<sub>38</sub>, 6, 2, 1443; 2000 KF<sub>41</sub>, 6, 2, 64; 2000 KQ<sub>42</sub>, 3, 1, 0; 2000 KB<sub>43</sub>, 3, 1, 0; 2000 KA<sub>51</sub>, 3, 1, 0; 2000 KC<sub>52</sub>, 6, 2, 13; 2000 KG<sub>52</sub>, 6, 2, 469; 2000 KU<sub>55</sub>, 5, 2, 2070; 2000 KY<sub>55</sub>, 3, 1, 0; 2000 KD<sub>58</sub>, 6, 2, 975; 2000 KU<sub>58</sub>, 9, 3, 18; 2000 KW<sub>59</sub>, 6, 2, 12; 2000 KW<sub>62</sub>, 11, 4, 3099; 2000 KZ<sub>64</sub>, 3, 1, 0; 2000 KC<sub>73</sub>, 3, 1, 0; 2000 KH<sub>73</sub>, 9, 3, 2566; 2000 KP<sub>73</sub>, 3, 1, 0; 2000 KS<sub>73</sub>, 6, 2, 27; 2000 LV, 3, 1, 0; 2000 LX<sub>8</sub>, 6, 2, 39; 2000 LV<sub>13</sub>, 3, 1, 0; 2000 LK<sub>19</sub>, 3, 1, 0; 2000 LR<sub>19</sub>, 3, 1, 0; 2000 LW<sub>19</sub>, 6, 2, 7; 2000 LB<sub>20</sub>, 3, 1, 0; 2000 LF<sub>27</sub>, 3, 1, 0; 2000 LQ<sub>27</sub>, 2, 1, 0; 2000 LL<sub>30</sub>, 6, 2, 533; 2000 LO<sub>30</sub>, 2, 1, 0; 2000 LX<sub>34</sub>, 6, 2, 1036; 2000 LM<sub>35</sub>, 3, 1, 0; 2000 LO<sub>35</sub>, 3, 1, 0; 2000 LQ<sub>35</sub>, 3, 1, 0; 2000 LU<sub>35</sub>, 5, 2, 410; 2000 MX, 3, 1, 0; 2000 MR<sub>1</sub>, 3, 1, 0; 2000 MK<sub>2</sub>, 3, 1, 0; 2000 MQ<sub>5</sub>, 6, 2, 1696; 2000 MR<sub>5</sub>, 3, 1, 0; 2000 MW<sub>5</sub>, 3, 1, 0; 2000 NA, 3, 1, 0; 2000 NA<sub>5</sub>, 9, 3, 1484; 2000 NG<sub>6</sub>, 3, 1, 0; 2000 NK<sub>6</sub>, 3, 1, 0; 2000 NW<sub>6</sub>, 9, 3, 1597; 2000 NQ<sub>7</sub>, 6, 2, 592; 2000 NW<sub>8</sub>, 12, 4, 1066; 2000 NZ<sub>8</sub>, 3, 1, 0; 2000 NB<sub>9</sub>, 3, 1, 0; 2000 ND<sub>10</sub>, 6, 2, 92; 2000 NF<sub>10</sub>, 6, 2, 1463; 2000 NG<sub>10</sub>, 6, 2, 1090; 2000 NM<sub>11</sub>, 6, 2, 72; 2000 NB<sub>13</sub>, 3, 1, 0; 2000 NL<sub>13</sub>, 3, 1, 0; 2000 NN<sub>14</sub>, 6, 2, 23; 2000 NP<sub>14</sub>, 6, 2, 1594; 2000 NZ<sub>14</sub>, 3, 1, 0; 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3, 1, 0; 2000 QO<sub>71</sub>, 9, 3, 3; 2000 QF<sub>72</sub>, 6, 2, 924; 2000 QM<sub>72</sub>, 6, 2, 1334; 2000 QL<sub>73</sub>, 9, 3, 32; 2000 QN<sub>73</sub>, 3, 1, 0; 2000 QV<sub>74</sub>, 3, 1, 0; 2000 QX<sub>75</sub>, 12, 3, 2368; 2000 QP<sub>77</sub>, 3, 1, 0; 2000 QB<sub>78</sub>, 3, 1, 0; 2000 QG<sub>79</sub>, 3, 1, 0; 2000 QL<sub>80</sub>, 9, 3, 39; 2000 QQ<sub>80</sub>, 3, 1, 0; 2000 QD<sub>81</sub>, 6, 2, 39; 2000 QJ<sub>81</sub>, 3, 1, 0; 2000 QU<sub>81</sub>, 6, 2, 1823; 2000 QC<sub>82</sub>, 6, 2, 2420; 2000 QO<sub>82</sub>, 3, 1, 0; 2000 QZ<sub>82</sub>, 3, 1, 0; 2000 QA<sub>83</sub>, 3, 1, 0; 2000 QL<sub>83</sub>, 3, 1, 0; 2000 QP<sub>83</sub>, 9, 3, 2093; 2000 QR<sub>83</sub>, 6, 2, 1992; 2000 QY<sub>83</sub>, 3, 1, 0; 2000 QZ<sub>83</sub>, 3, 1, 0; 2000 QA<sub>84</sub>, 3, 1, 0; 2000 QG<sub>85</sub>, 3, 1, 0; 2000 QR<sub>85</sub>, 3, 1, 0; 2000 QA<sub>89</sub>, 6, 2, 94; 2000 QX<sub>89</sub>, 6, 2, 1643; 2000 QU<sub>92</sub>, 3, 1, 0; 2000 QV<sub>92</sub>, 3, 1, 0; 2000 QH<sub>93</sub>, 3, 1, 0; 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0; 2000 RG<sub>22</sub>, 6, 2, 1056; 2000 RM<sub>22</sub>, 3, 1, 0; 2000 RP<sub>22</sub>, 3, 1, 0; 2000 RT<sub>22</sub>, 3, 1, 0; 2000 RU<sub>22</sub>, 3, 1, 0; 2000 RW<sub>22</sub>, 3, 1, 0; 2000 RY<sub>22</sub>, 3, 1, 0; 2000 RC<sub>23</sub>, 3, 1, 0; 2000 RH<sub>23</sub>, 3, 1, 0; 2000 RJ<sub>23</sub>, 3, 1, 0; 2000 RP<sub>23</sub>, 3, 1, 0; 2000 RQ<sub>23</sub>, 3, 1, 0; 2000 RU<sub>23</sub>, 3, 1, 0; 2000 RC<sub>24</sub>, 3, 1, 0; 2000 RE<sub>25</sub>, 3, 1, 0; 2000 RY<sub>25</sub>, 3, 1, 0; 2000 RQ<sub>27</sub>, 3, 1, 0; 2000 RR<sub>27</sub>, 3, 1, 0; 2000 RL<sub>28</sub>, 3, 1, 0; 2000 RT<sub>30</sub>, 3, 1, 0; 2000 RX<sub>30</sub>, 3, 1, 0; 2000 RO<sub>31</sub>, 3, 1, 0; 2000 RL<sub>32</sub>, 3, 1, 0; 2000 RP<sub>32</sub>, 3, 1, 0; 2000 RK<sub>32</sub>, 3, 1, 0; 2000 RS<sub>32</sub>, 3, 1, 0; 2000 RJ<sub>33</sub>, 6, 2, 574; 2000 RO<sub>33</sub>, 3, 1, 0; 2000 RA<sub>34</sub>, 3, 1, 0; 2000 RK<sub>34</sub>, 3, 1, 0; 2000 RO<sub>34</sub>, 3, 1, 0; 2000 RQ<sub>34</sub>, 3, 1, 0; 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1.54-m reflector + CCD

2000 OP<sub>51</sub>, 2, 1, 0; [2, 1, 0\*, 1995/10/26]

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M. W. Buie, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001,  
U.S.A. [buie@lowell.edu] (1)

T. J. Balonek, Dept. of Physics and Astronomy, Colgate University, Hamilton, NY 13346, U.S.A. [tbalonek@colgate.edu] (2)

3.6-m WIYN reflector + CCD, 2.3-m Steward reflector + CCD

GSC, USNO-A1.0, USNO-A2.0

{1} 1999 RO<sub>170</sub>, 2, 1, 0; 1999 TZ<sub>67</sub>, 2, 1, 0; 1999 TL<sub>90</sub>, 2, 1, 0; 2000 KX<sub>8</sub>, 2, 1, 0; [8, 4, 0\*, 1999/11/11-2000/04/10]

{2} 1993 FS<sub>21</sub>, 5, 1, 0; 2000 JU<sub>55</sub>, 2, 1, 0; 2000 ND<sub>17</sub>, 6, 1, 0; [13, 3, 0\*, 1993/05/09–1995/04/12]

## 696 F. L. Whipple Observatory, Mount Hopkins

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1.2-m  $f/8$  reflector + CCD

USNO-A1.0

1996 TZ<sub>8</sub>, 2, 1, 0; [2, 1, 0\*, 1998/05/04]

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Observer G. J. Garradd

1.30-m  $f/7.6$  reflector + CCD  
USNO-A2.0

2000 DP<sub>107</sub>, 2, 1, 0; [2, 1, 0\*, 2000/10/18]

### 699 Lowell Observatory–LONEOS

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Observers B. A. Skiff, M. E. Van Ness, W. D. Ferris, B. W. Koehn, L. Levy  
Measurer B. W. Koehn

0.59-m LONEOS Schmidt + CCD  
USNO-A2.0

1972 GJ<sub>4</sub>, 4, 1, 0; 1975 SH<sub>1</sub>, 4, 1, 0; 1977 FB<sub>4</sub>, 4, 1, 0; 1978 VW<sub>2</sub>, 4, 1, 0; 1978 VX<sub>8</sub>, 4, 1, 0;  
1978 VB<sub>10</sub>, 3, 1, 0; 1978 XX<sub>3</sub>, 3, 1, 0; 1979 MM<sub>2</sub>, 6, 2, 11; 1979 MZ<sub>4</sub>, 4, 1, 0; 1979 MX<sub>7</sub>, 4, 1, 0;  
1979 MO<sub>8</sub>, 4, 1, 0; 1979 QZ<sub>9</sub>, 4, 1, 0; 1981 EB<sub>5</sub>, 4, 1, 0; 1981 EB<sub>6</sub>, 8, 1, 0; 1981 EO<sub>6</sub>, 8, 1, 0;  
1981 EP<sub>6</sub>, 3, 1, 0; 1981 EG<sub>7</sub>, 4, 1, 0; 1981 EB<sub>12</sub>, 4, 1, 0; 1981 EH<sub>12</sub>, 8, 2, 26; 1981 EK<sub>15</sub>, 4, 1, 0;  
1981 ER<sub>15</sub>, 4, 1, 0; 1981 ET<sub>18</sub>, 4, 1, 0; 1981 EW<sub>23</sub>, 4, 1, 0; 1981 EE<sub>29</sub>, 8, 2, 29; 1981 ER<sub>29</sub>,  
4, 1, 0; 1981 ET<sub>30</sub>, 4, 1, 0; 1981 EV<sub>33</sub>, 4, 1, 0; 1981 ET<sub>43</sub>, 4, 1, 0; 1985 UU<sub>4</sub>, 1, 0; 1986 QN<sub>2</sub>,  
4, 1, 0; 1986 WP<sub>2</sub>, 4, 1, 0; 1988 CW<sub>1</sub>, 4, 1, 0; 1988 EP<sub>4</sub>, 1, 0; 1988 RQ<sub>10</sub>, 4, 1, 0; 1988 RX<sub>10</sub>,  
4, 1, 0; 1988 RP<sub>12</sub>, 4, 1, 0; 1988 SU<sub>1</sub>, 4, 1, 0; 1988 SA<sub>3</sub>, 4, 1, 0; 1989 AR<sub>4</sub>, 4, 1, 0; 1989 CR<sub>5</sub>,  
4, 1, 0; 1989 GY<sub>1</sub>, 4, 1, 0; 1989 GM<sub>2</sub>, 4, 1, 0; 1989 SJ<sub>3</sub>, 4, 1, 0; 1989 SY<sub>3</sub>, 4, 1, 0; 1989 SH<sub>5</sub>,  
4, 1, 0; 1989 SZ<sub>9</sub>, 4, 1, 0; 1989 UG<sub>4</sub>, 4, 1, 0; 1989 UP<sub>4</sub>, 4, 1, 0; 1989 UQ<sub>5</sub>, 4, 1, 0; 1989 UJ<sub>7</sub>, 4,  
1, 0; 1989 WF<sub>2</sub>, 3, 1, 0; 1990 BJ<sub>4</sub>, 4, 1, 0; 1990 ET<sub>2</sub>, 4, 1, 0; 1990 OA<sub>2</sub>, 4, 1, 0; 1990 QN<sub>1</sub>, 3, 1,  
0; 1990 QH<sub>4</sub>, 4, 1, 0; 1990 QB<sub>7</sub>, 4, 1, 0; 1990 RG<sub>4</sub>, 4, 1, 0; 1990 SH<sub>8</sub>, 4, 1, 0; 1990 TT<sub>4</sub>, 4, 1, 0;  
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1991 AT<sub>2</sub>, 4, 1, 0; 1991 GH<sub>1</sub>, 4, 1, 0; 1991 GK<sub>1</sub>, 4, 1, 0; 1991 GE<sub>3</sub>, 4, 1, 0; 1991 GU<sub>4</sub>, 4, 1, 0;  
1991 GS<sub>5</sub>, 4, 1, 0; 1991 GY<sub>8</sub>, 4, 1, 0; 1991 PC<sub>12</sub>, 4, 1, 0; 1991 RK<sub>8</sub>, 4, 1, 0; 1991 RV<sub>23</sub>, 3, 1, 0;  
1991 TN<sub>2</sub>, 4, 1, 0; 1991 UX<sub>2</sub>, 4, 1, 0; 1991 VJ<sub>6</sub>, 4, 1, 0; 1991 YE<sub>1</sub>, 4, 1, 0; 1992 AM<sub>1</sub>, 4, 1, 0;  
1992 DQ<sub>7</sub>, 4, 1, 0; 1992 DK<sub>8</sub>, 4, 1, 0; 1992 DN<sub>8</sub>, 4, 1, 0; 1992 EY<sub>8</sub>, 4, 1, 0; 1992 EW<sub>10</sub>, 4, 1, 0;  
1992 EW<sub>15</sub>, 8, 2, 29; 1992 ER<sub>28</sub>, 4, 1, 0; 1992 EL<sub>35</sub>, 4, 1, 0; 1992 GN<sub>3</sub>, 4, 1, 0; 1992 ME<sub>4</sub>, 4, 1, 0;  
1992 OO<sub>2</sub>, 4, 1, 0; 1992 QS<sub>1</sub>, 4, 1, 0; 1992 RU<sub>1</sub>, 4, 1, 0; 1992 RP<sub>3</sub>, 4, 1, 0; 1992 RR<sub>5</sub>, 4, 1, 0;  
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1993 FP<sub>11</sub>, 4, 1, 0; 1993 FW<sub>15</sub>, 4, 1, 0; 1993 FW<sub>26</sub>, 4, 1, 0; 1993 FQ<sub>32</sub>, 4, 1, 0; 1993 FK<sub>35</sub>, 4, 1, 0;  
1993 FM<sub>36</sub>, 4, 1, 0; 1993 FM<sub>37</sub>, 4, 1, 0; 1993 FS<sub>37</sub>, 4, 1, 0; 1993 FR<sub>41</sub>, 4, 1, 0; 1993 FC<sub>42</sub>, 4, 1, 0;  
1993 FJ<sub>48</sub>, 4, 1, 0; 1993 FH<sub>49</sub>, 4, 1, 0; 1993 FG<sub>51</sub>, 4, 1, 0; 1993 GF<sub>1</sub>, 4, 1, 0; 1993 OE<sub>2</sub>, 4, 1, 0;  
1993 OD<sub>5</sub>, 4, 1, 0; 1993 OO<sub>5</sub>, 3, 1, 0; 1993 OY<sub>9</sub>, 4, 1, 0; 1993 QR<sub>9</sub>, 4, 1, 0; 1993 RT<sub>5</sub>, 3, 1, 0;  
1993 RJ<sub>1</sub>, 4, 1, 0; 1993 SL<sub>9</sub>, 4, 1, 0; 1993 TF<sub>1</sub>, 4, 1, 0; 1993 TE<sub>19</sub>, 4, 1, 0; 1993 TN<sub>20</sub>, 4, 1, 0;  
1993 TT<sub>22</sub>, 4, 1, 0; 1993 UD<sub>7</sub>, 4, 1, 0; 1993 XZ<sub>4</sub>, 4, 1, 0; 1994 AA<sub>4</sub>, 4, 1, 0; 1994 AA<sub>6</sub>, 4, 1, 0;  
1994 AF<sub>16</sub>, 3, 1, 0; 1994 AC<sub>17</sub>, 4, 1, 0; 1994 BN<sub>3</sub>, 4, 1, 0; 1994 CX<sub>13</sub>, 4, 1, 0; 1994 DW<sub>4</sub>, 4, 1, 0;  
1994 ED<sub>2</sub>, 4, 1, 0; 1994 ES<sub>3</sub>, 4, 1, 0; 1994 ES<sub>6</sub>, 4, 1, 0; 1994 EW<sub>7</sub>, 4, 1, 0; 1994 JS<sub>1</sub>, 3, 1, 0;  
1994 JC<sub>8</sub>, 4, 1, 0; 1994 LJ<sub>1</sub>, 4, 1, 0; 1994 PA<sub>3</sub>, 4, 1, 0; 1994 PQ<sub>5</sub>, 4, 1, 0; 1994 PF<sub>9</sub>, 4, 1, 0;  
1994 PU<sub>13</sub>, 4, 1, 0; 1994 PD<sub>14</sub>, 3, 1, 0; 1994 PZ<sub>17</sub>, 4, 1, 0; 1994 PT<sub>19</sub>, 4, 1, 0; 1994 PP<sub>20</sub>, 4, 1, 0;  
1994 PL<sub>21</sub>, 4, 1, 0; 1994 PU<sub>24</sub>, 4, 1, 0; 1994 PZ<sub>27</sub>, 4, 1, 0; 1994 PG<sub>29</sub>, 4, 1, 0; 1994 PL<sub>33</sub>, 4, 1, 0;  
1994 PN<sub>36</sub>, 4, 1, 0; 1994 PG<sub>39</sub>, 8, 2, 27; 1994 PK<sub>39</sub>, 4, 1, 0; 1994 TH<sub>1</sub>, 4, 1, 0; 1994 WM<sub>2</sub>, 7, 2, 6;  
1995 CM<sub>4</sub>, 1, 0; 1995 FT<sub>4</sub>, 4, 1, 0; 1995 GH<sub>7</sub>, 4, 1, 0; 1995 GS<sub>7</sub>, 4, 1, 0; 1995 JJ<sub>1</sub>, 4, 1, 0; 1995 SV<sub>16</sub>, 4, 1, 0;  
1995 ST<sub>48</sub>, 2, 1, 0; 1995 SK<sub>51</sub>, 4, 1, 0; 1995 UN<sub>2</sub>, 4, 1, 0; 1995 UZ<sub>3</sub>, 4, 1, 0; 1995 UC<sub>9</sub>, 4, 1, 0;  
1995 UG<sub>12</sub>, 4, 1, 0; 1995 UQ<sub>15</sub>, 4, 1, 0; 1995 UM<sub>18</sub>, 4, 1, 0; 1995 UJ<sub>31</sub>, 4, 1, 0; 1995 VG<sub>14</sub>, 4, 1, 0; 1995 VR<sub>15</sub>, 4, 1, 0; 1995 WL<sub>1</sub>, 4, 1, 0; 1995 WC<sub>3</sub>,  
4, 1, 0; 1995 WP<sub>5</sub>, 4, 1, 0; 1995 WA<sub>11</sub>, 4, 1, 0; 1995 WZ<sub>17</sub>, 4, 1, 0; 1995 XJ<sub>4</sub>, 1, 0; 1995 XB<sub>1</sub>, 4, 1, 0;  
1995 YC<sub>4</sub>, 4, 1, 0; 1996 AR<sub>3</sub>, 4, 1, 0; 1996 AY<sub>3</sub>, 4, 1, 0; 1996 HN<sub>23</sub>, 4, 1, 0; 1996 LK<sub>1</sub>, 4, 1, 0;  
1996 LQ<sub>1</sub>, 4, 1, 0; 1996 OB<sub>4</sub>, 4, 1, 0; 1996 PF<sub>4</sub>, 4, 1, 0; 1996 PU<sub>4</sub>, 4, 1, 0; 1996 PY<sub>4</sub>, 4, 1, 0;  
1996 PK<sub>8</sub>, 4, 1, 0; 1996 QY<sub>3</sub>, 3, 1, 0; 1996 QC<sub>1</sub>, 4, 1, 0; 1996 QM<sub>1</sub>, 4, 1, 0; 1996 RO<sub>2</sub>, 4, 1, 0;  
1996 RR<sub>3</sub>, 4, 1, 0; 1996 RT<sub>5</sub>, 4, 1, 0; 1996 RK<sub>11</sub>, 4, 1, 0; 1996 RY<sub>25</sub>, 4, 1, 0; 1996 SM<sub>4</sub>, 4, 1, 0;  
1996 SD<sub>6</sub>, 4, 1, 0; 1996 SF<sub>6</sub>, 4, 1, 0; 1996 SC<sub>7</sub>, 4, 1, 0; 1996 TT<sub>1</sub>, 4, 1, 0; 1996 TD<sub>10</sub>, 4, 1, 0;  
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1996 TO<sub>39</sub>, 4, 1, 0; 1996 TL<sub>40</sub>, 4, 1, 0; 1996 TC<sub>54</sub>, 4, 1, 0; 1996 TX<sub>64</sub>, 4, 1, 0; 1996 TY<sub>64</sub>, 4, 1, 0;  
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1996 VA<sub>7</sub>, 4, 1, 0; 1996 VY<sub>8</sub>, 4, 1, 0; 1996 VY<sub>10</sub>, 4, 1, 0; 1996 VY<sub>37</sub>, 4, 1, 0; 1996 WC<sub>4</sub>, 4, 1, 0;  
1996 XQ<sub>8</sub>, 2, 1, 0; 1996 XA<sub>1</sub>, 3, 1, 0; 1996 XQ<sub>11</sub>, 4, 1, 0; 1996 XH<sub>18</sub>, 4, 1, 0; 1996 XJ<sub>20</sub>, 4, 1, 0;  
1996 XR<sub>26</sub>, 4, 1, 0; 1996 XK<sub>31</sub>, 4, 1, 0; 1996 YA<sub>1</sub>, 4, 1, 0; 1997 AT<sub>4</sub>, 4, 1, 0; 1997 AC<sub>2</sub>, 3, 1, 0;  
1997 AK<sub>2</sub>, 4, 1, 0; 1997 AX<sub>6</sub>, 4, 1, 0; 1997 BV<sub>4</sub>, 4, 1, 0; 1997 BT<sub>2</sub>, 4, 1, 0; 1997 BO<sub>3</sub>, 4, 1, 0;  
1997 BH<sub>9</sub>, 3, 1, 0; 1997 CS<sub>4</sub>, 3, 1, 0; 1997 CC<sub>7</sub>, 4, 1, 0; 1997 DH<sub>4</sub>, 4, 1, 0; 1997 FU<sub>2</sub>, 4, 1, 0;  
1997 FC<sub>3</sub>, 4, 1, 0; 1997 GD<sub>4</sub>, 4, 1, 0; 1997 GV<sub>18</sub>, 4, 1, 0; 1997 GS<sub>27</sub>, 4, 1, 0; 1997 JM<sub>11</sub>, 4, 1, 0;  
1997 MX<sub>3</sub>, 3, 1, 0; 1997 RH<sub>4</sub>, 4, 1, 0; 1997 SB<sub>2</sub>, 4, 1, 0; 1997 SW<sub>2</sub>, 4, 1, 0; 1997 SW<sub>4</sub>, 4, 1, 0;  
1997 UO<sub>9</sub>, 4, 1, 0; 1997 UE<sub>13</sub>, 3, 1, 0; 1997 UU<sub>14</sub>, 4, 1, 0; 1997 VL<sub>5</sub>, 4, 1, 0; 1997 WG<sub>2</sub>, 4, 1, 0;

1997 WX<sub>2</sub>, 4, 1, 0; 1997 WK<sub>5</sub>, 3, 1, 0; 1997 WP<sub>7</sub>, 4, 1, 0; 1997 WC<sub>8</sub>, 4, 1, 0; 1997 WO<sub>12</sub>, 4, 1, 0;  
1997 WU<sub>15</sub>, 4, 1, 0; 1997 WD<sub>16</sub>, 4, 1, 0; 1997 WQ<sub>21</sub>, 3, 1, 0; 1997 WO<sub>23</sub>, 4, 1, 0; 1997 WM<sub>35</sub>,  
4, 1, 0; 1997 WJ<sub>36</sub>, 4, 1, 0; 1997 WU<sub>36</sub>, 7, 2, 592; 1997 WW<sub>36</sub>, 4, 1, 0; 1997 WE<sub>44</sub>, 4, 1, 0;  
1997 WX<sub>49</sub>, 4, 1, 0; 1997 XX<sub>4</sub>, 4, 1, 0; 1997 XH<sub>2</sub>, 4, 1, 0; 1997 XN<sub>3</sub>, 4, 1, 0; 1997 XC<sub>8</sub>, 4, 1, 0;  
1997 XK<sub>11</sub>, 4, 1, 0; 1997 YD<sub>3</sub>, 4, 1, 0; 1997 YF<sub>3</sub>, 8, 1, 0; 1997 YH<sub>7</sub>, 4, 1, 0; 1997 YO<sub>9</sub>, 4, 1, 0;  
1997 YF<sub>10</sub>, 4, 1, 0; 1997 YJ<sub>11</sub>, 4, 1, 0; 1997 YT<sub>11</sub>, 4, 1, 0; 1997 YA<sub>12</sub>, 4, 1, 0; 1997 YC<sub>15</sub>, 4, 1, 0;  
1997 YN<sub>16</sub>, 4, 1, 0; 1997 YS<sub>17</sub>, 4, 1, 0; 1997 YF<sub>18</sub>, 4, 1, 0; 1998 AK<sub>4</sub>, 4, 1, 0; 1998 AK<sub>1</sub>, 4, 1, 0;  
1998 AC<sub>3</sub>, 4, 1, 0; 1998 AH<sub>6</sub>, 4, 1, 0; 1998 AH<sub>7</sub>, 4, 1, 0; 1998 AG<sub>11</sub>, 4, 1, 0; 1998 BA<sub>4</sub>, 4, 1, 0;  
1998 BR<sub>1</sub>, 4, 1, 0; 1998 BJ<sub>2</sub>, 4, 1, 0; 1998 BT<sub>2</sub>, 4, 1, 0; 1998 BV<sub>2</sub>, 4, 1, 0; 1998 BW<sub>4</sub>, 3, 1, 0;  
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1998 CH<sub>2</sub>, 4, 1, 0; 1998 CF<sub>4</sub>, 4, 1, 0; 1998 DR<sub>4</sub>, 4, 1, 0; 1998 DO<sub>1</sub>, 4, 1, 0; 1998 DX<sub>1</sub>, 4, 1, 0;  
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1998 FL<sub>54</sub>, 4, 1, 0; 1998 FY<sub>54</sub>, 8, 2, 29; 1998 FD<sub>56</sub>, 6, 2, 30; 1998 FA<sub>57</sub>, 4, 1, 0; 1998 FE<sub>57</sub>, 4, 1, 0;  
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1998 HG<sub>39</sub>, 3, 1, 0; 1998 HP<sub>39</sub>, 4, 1, 0; 1998 HE<sub>42</sub>, 4, 1, 0; 1998 HY<sub>46</sub>, 4, 1, 0; 1998 HQ<sub>47</sub>, 3, 1, 0;  
1998 HH<sub>51</sub>, 4, 1, 0; 1998 HS<sub>53</sub>, 4, 1, 0; 1998 HE<sub>57</sub>, 4, 1, 0; 1998 HU<sub>57</sub>, 4, 1, 0; 1998 HA<sub>61</sub>, 4, 1, 0;  
1998 HB<sub>62</sub>, 4, 1, 0; 1998 HC<sub>63</sub>, 3, 1, 0; 1998 HD<sub>63</sub>, 3, 1, 0; 1998 HJ<sub>69</sub>, 4, 1, 0; 1998 HV<sub>79</sub>, 3, 1, 0;  
1998 HJ<sub>80</sub>, 4, 1, 0; 1998 HY<sub>80</sub>, 4, 1, 0; 1998 HG<sub>86</sub>, 3, 1, 0; 1998 HF<sub>87</sub>, 3, 1, 0; 1998 HO<sub>90</sub>, 4, 1, 0;  
1998 HU<sub>92</sub>, 4, 1, 0; 1998 HC<sub>93</sub>, 3, 1, 0; 1998 HU<sub>97</sub>, 4, 1, 0; 1998 HD<sub>98</sub>, 4, 1, 0; 1998 HD<sub>101</sub>

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1998 WH<sub>13</sub>, 4, 1, 0; 1998 WW<sub>18</sub>, 3, 1, 0; 1998 WO<sub>20</sub>, 3, 1, 0; 1998 XO<sub>35</sub>, 3, 1, 0; 1998 XK<sub>74</sub>, 3, 1, 0; 1998 XD<sub>78</sub>, 10, 3, 479; 1998 XN<sub>97</sub>, 3, 1, 0; 1998 YM<sub>13</sub>, 3, 1, 0; 1998 YY<sub>31</sub>, 3, 1, 0; 1999 AC<sub>25</sub>, 6, 2, 30; 1999 AU<sub>25</sub>, 3, 1, 0; 1999 BH<sub>6</sub>, 4, 1, 0; 1999 BT<sub>6</sub>, 4, 1, 0; 1999 BD<sub>11</sub>, 4, 1, 0; 1999 BH<sub>11</sub>, 4, 1, 0; 1999 BN<sub>15</sub>, 4, 1, 0; 1999 BX<sub>19</sub>, 3, 1, 0; 1999 BR<sub>20</sub>, 6, 2, 23; 1999 CN<sub>2</sub>, 3, 1, 0; 1999 CC<sub>4</sub>, 3, 1, 0; 1999 CY<sub>4</sub>, 3, 1, 0; 1999 CZ<sub>7</sub>, 4, 1, 0; 1999 CA<sub>9</sub>, 4, 1, 0; 1999 CR<sub>9</sub>, 4, 1, 0; 1999 CV<sub>9</sub>, 4, 1, 0; 1999 CU<sub>10</sub>, 3, 1, 0; 1999 CW<sub>10</sub>, 3, 1, 0; 1999 CF<sub>14</sub>, 4, 1, 0; 1999 CC<sub>32</sub>, 4, 1, 0; 1999 CR<sub>32</sub>, 3, 1, 0; 1999 CU<sub>34</sub>, 3, 1, 0; 1999 CJ<sub>39</sub>, 3, 1, 0; 1999 CQ<sub>48</sub>, 4, 1, 0; 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1999 HH<sub>3</sub>, 4, 1, 0; 1999 HR<sub>3</sub>, 4, 1, 0; 1999 HR<sub>4</sub>, 8, 1, 0; 1999 HE<sub>5</sub>, 4, 1, 0; 1999 HP<sub>7</sub>, 4, 1, 0; 1999 HA<sub>8</sub>, 4, 1, 0; 1999 HG<sub>9</sub>, 4, 1, 0; 1999 HO<sub>11</sub>, 4, 1, 0; 1999 JM<sub>4</sub>, 1, 0; 1999 JT<sub>2</sub>, 4, 1, 0; 1999 JH<sub>3</sub>, 4, 1, 0; 1999 JY<sub>3</sub>, 4, 1, 0; 1999 JC<sub>6</sub>, 4, 1, 0; 1999 JY<sub>7</sub>, 4, 1, 0; 1999 JG<sub>8</sub>, 4, 1, 0; 1999 JB<sub>9</sub>, 4, 1, 0; 1999 JW<sub>9</sub>, 4, 1, 0; 1999 JD<sub>11</sub>, 4, 1, 0; 1999 JC<sub>13</sub>, 4, 1, 0; 1999 JP<sub>13</sub>, 4, 1, 0; 1999 JR<sub>14</sub>, 4, 1, 0; 1999 JB<sub>15</sub>, 4, 1, 0; 1999 JP<sub>15</sub>, 4, 1, 0; 1999 JX<sub>15</sub>, 4, 1, 0; 1999 JA<sub>16</sub>, 4, 1, 0; 1999 JJ<sub>16</sub>, 4, 1, 0; 1999 JQ<sub>18</sub>, 4, 1, 0; 1999 JL<sub>19</sub>, 4, 1, 0; 1999 JV<sub>19</sub>, 4, 1, 0; 1999 JO<sub>21</sub>, 4, 1, 0; 1999 JM<sub>22</sub>, 4, 1, 0; 1999 JN<sub>22</sub>, 4, 1, 0; 1999 JN<sub>23</sub>, 4, 1, 0; 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1999 JH<sub>39</sub>, 4, 1, 0; 1999 JD<sub>41</sub>, 4, 1, 0; 1999 JH<sub>41</sub>, 4, 1, 0; 1999 JP<sub>42</sub>, 4, 1, 0; 1999 JS<sub>42</sub>, 4, 1, 0; 1999 JX<sub>42</sub>, 4, 1, 0; 1999 JA<sub>43</sub>, 4, 1, 0; 1999 JQ<sub>43</sub>, 4, 1, 0; 1999 JX<sub>43</sub>, 4, 1, 0; 1999 JN<sub>44</sub>, 4, 1, 0; 1999 JV<sub>44</sub>, 4, 1, 0; 1999 JS<sub>45</sub>, 4, 1, 0; 1999 JR<sub>46</sub>, 4, 1, 0; 1999 JW<sub>47</sub>, 4, 1, 0; 1999 JX<sub>47</sub>, 4, 1, 0; 1999 JY<sub>48</sub>, 4, 1, 0; 1999 JL<sub>49</sub>, 4, 1, 0; 1999 JV<sub>49</sub>, 4, 1, 0; 1999 JA<sub>50</sub>, 4, 1, 0; 1999 JE<sub>50</sub>, 4, 1, 0; 1999 JM<sub>50</sub>, 4, 1, 0; 1999 JW<sub>50</sub>, 4, 1, 0; 1999 JD<sub>52</sub>, 3, 1, 0; 1999 JD<sub>53</sub>, 3, 1, 0; 1999 JP<sub>53</sub>, 4, 1, 0; 1999 JU<sub>53</sub>, 4, 1, 0; 1999 JL<sub>54</sub>, 4, 1, 0; 1999 JN<sub>55</sub>, 4, 1, 0; 1999 JQ<sub>55</sub>, 4, 1, 0; 1999 JT<sub>55</sub>, 4, 1, 0; 1999 JG<sub>56</sub>, 4, 1, 0; 1999 JJ<sub>56</sub>, 4, 1, 0; 1999 JL<sub>56</sub>, 4, 1, 0; 1999 JY<sub>56</sub>, 4, 1, 0; 1999 JF<sub>57</sub>, 4, 1, 0; 1999 JJ<sub>57</sub>, 4, 1, 0; 1999 JW<sub>59</sub>, 4, 1, 0; 1999 JW<sub>60</sub>, 4, 1, 0; 1999 JG<sub>62</sub>, 4, 1, 0; 1999 JX<sub>62</sub>, 4, 1, 0; 1999 JO<sub>63</sub>, 4, 1, 0; 1999 JS<sub>63</sub>, 4, 1, 0; 1999 JW<sub>63</sub>, 8, 1, 0; 1999 JS<sub>64</sub>, 4, 1, 0; 1999 JE<sub>65</sub>, 3, 1, 0; 1999 JY<sub>65</sub>, 4, 1, 0; 1999 JE<sub>66</sub>, 4, 1, 0; 1999 JQ<sub>66</sub>, 4, 1, 0; 1999 JG<sub>68</sub>, 3, 1, 0; 1999 JG<sub>68</sub>, 4, 1, 0; 1999 JY<sub>68</sub>, 3, 1, 0; 1999 JT<sub>69</sub>, 4, 1, 0; 1999 JM<sub>70</sub>, 4, 1, 0; 1999 JS<sub>71</sub>, 3, 1, 0; 1999 JW<sub>71</sub>, 4, 1, 0; 1999 JP<sub>72</sub>, 4, 1, 0; 1999 JB<sub>73</sub>, 4, 1, 0; 1999 JH<sub>73</sub>, 4, 1, 0; 1999 JZ<sub>73</sub>, 4, 1, 0; 1999 JL<sub>76</sub>, 4, 1, 0; 1999 JM<sub>76</sub>, 4, 1, 0; 1999 JP<sub>76</sub>, 4, 1, 0; 1999 JR<sub>76</sub>, 4, 1, 0; 1999 JO<sub>77</sub>, 4, 1, 0; 1999 JY<sub>77</sub>, 4, 1, 0; 1999 JG<sub>78</sub>, 3, 1, 0; 1999 JS<sub>78</sub>, 4, 1, 0; 1999 JT<sub>78</sub>, 4, 1, 0; 1999 JC<sub>79</sub>, 4, 1, 0; 1999 JG<sub>79</sub>, 4, 1, 0; 1999 JL<sub>79</sub>, 4, 1, 0; 1999 JS<sub>79</sub>, 4, 1, 0; 1999 JX<sub>79</sub>, 4, 1, 0; 1999 JZ<sub>79</sub>, 3, 1, 0; 1999 JY<sub>80</sub>, 4, 1, 0; 1999 JR<sub>81</sub>, 4, 1, 0; 1999 JB<sub>82</sub>, 4, 1, 0; 1999 JX<sub>82</sub>, 4, 1, 0; 1999 JZ<sub>82</sub>, 4, 1, 0; 1999 JH<sub>83</sub>, 4, 1, 0; 1999 JR<sub>83</sub>, 4, 1, 0; 1999 JS<sub>83</sub>, 4, 1, 0; 1999 JW<sub>85</sub>, 4, 1, 0; 1999 JF<sub>86</sub>, 4, 1, 0; 1999 JH<sub>88</sub>, 4, 1, 0; 1999 JS<sub>88</sub>, 4, 1, 0; 1999 JT<sub>89</sub>, 3, 1, 0; 1999 JK<sub>90</sub>, 4, 1, 0; 1999 JS<sub>91</sub>, 4, 1, 0; 1999 JU<sub>91</sub>, 4, 1, 0; 1999 JK<sub>93</sub>, 4, 1, 0; 1999 JY<sub>93</sub>, 4, 1, 0; 1999 JC<sub>95</sub>, 4, 1, 0; 1999 JM<sub>95</sub>, 4, 1, 0; 1999 JR<sub>95</sub>, 4, 1, 0; 1999 JW<sub>95</sub>, 4, 1, 0; 1999 JB<sub>96</sub>, 4, 1, 0; 1999 JB<sub>97</sub>, 4, 1, 0; 1999 JU<sub>97</sub>, 4, 1, 0; 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1999 JD<sub>100</sub>, 4, 1, 0; 1999 JG<sub>100</sub>, 4, 1, 0; 1999 JN<sub>100</sub>, 4, 1, 0; 1999 JU<sub>100</sub>, 4, 1, 0; 1999 JW<sub>100</sub>, 4, 1, 0; 1999 JO<sub>102</sub>, 4, 1, 0; 1999 JD<sub>110</sub>, 4, 1, 0; 1999 JO<sub>111</sub>, 4, 1, 0; 1999 JH<sub>115</sub>, 4, 1, 0; 1999 JL<sub>115</sub>, 4, 1, 0; 1999 JS<sub>119</sub>, 4, 1, 0; 1999 JT<sub>119</sub>, 4, 1, 0; 1999 JK<sub>120</sub>, 4, 1, 0; 1999 JF<sub>121</sub>, 3, 1, 0; 1999 JC<sub>122</sub>, 4, 1, 0; 1999 JO<sub>122</sub>, 4, 1, 0; 1999 JY<sub>123</sub>, 4, 1, 0; 1999 JG<sub>127</sub>, 4, 1, 0; 1999 JN<sub>136</sub>, 4, 1, 0; 1999 KU<sub>2</sub>, 4, 1, 0; 1999 KA<sub>4</sub>, 4, 1, 0; 1999 KV<sub>4</sub>, 4, 1, 0; 1999 KY<sub>4</sub>, 4, 1, 0; 1999 KM<sub>5</sub>, 4, 1, 0; 1999 KT<sub>5</sub>, 4, 1, 0; 1999 KH<sub>4</sub>, 4, 1, 0; 1999 KJ<sub>11</sub>, 4, 1, 0; 1999 KU<sub>12</sub>, 3, 1, 0; 1999 KJ<sub>13</sub>, 3, 1, 0; 1999 KK<sub>13</sub>, 4, 1, 0; 1999 KE<sub>14</sub>, 4, 1, 0; 1999 KV<sub>15</sub>, 4, 1, 0; 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## 701 Junk Bond Observatory, Sierra Vista

D. Healy, Junk Bond Observatory, 6929 Madera Dr, Sierra Vista, AZ 85635, U.S.A.  
[76443.1440@compuserve.com]

Observer D. Healy

Measurer J. Medkeff

0.40-m  $f/5$  Schmidt-Cassegrain + CCD

GSC-ACT

2000 QG<sub>79</sub>, 2, 1, 0; 2000 QM<sub>217</sub>, 2, 1, 0; 2000 RY<sub>55</sub>, 5, 2, 3; (3218), 5, 2, 3; (5609), 2, 1, 0; (15249), 3, 1, 0; [19, 6, 0\*, 2000/10/07-2000/10/30]

## 703 Catalina Sky Survey

C. W. Hergenrother, Space Sciences Building, University of Arizona, Tucson, AZ

85721, U.S.A. [chergen@pir1.lpl.arizona.edu]

Observers C. W. Hergenrother, T. B. Spahr, J. W. Brownlee

0.41-m  $f/3$  Schmidt + CCD

USNO-SA2.0, USNO-SA1.0

1981 UA<sub>2</sub>, 8, 1, 0; 1990 QB<sub>3</sub>, 4, 1, 0; 1992 HJ<sub>2</sub>, 4, 1, 0; 1993 JY, 4, 1, 0; 1997 CQ<sub>7</sub>, 4, 1, 0; 1998 FV<sub>71</sub>, 4, 1, 0; 1998 FZ<sub>72</sub>, 4, 1, 0; 1998 FE<sub>109</sub>, 4, 1, 0; 1998 HY<sub>29</sub>, 4, 1, 0; 1998 HO<sub>125</sub>, 4, 1, 0; 1998 KX<sub>31</sub>, 8, 2, 15; 1998 KD<sub>48</sub>, 4, 1, 0; 1998 KG<sub>58</sub>, 4, 1, 0; 1998 MX<sub>11</sub>, 8, 2, 29; 1998 SX<sub>112</sub>, 4, 1, 0; 1998 UL<sub>24</sub>, 4, 1, 0; 1998 UK<sub>41</sub>, 4, 1, 0; 1998 VT<sub>54</sub>, 4, 1, 0; 1998 WY<sub>4</sub>, 4, 1, 0; 1999 EC<sub>12</sub>, 4, 1, 0; 1999 GX<sub>6</sub>, 4, 1, 0; 1999 GO<sub>10</sub>, 4, 1, 0; 1999 GV<sub>26</sub>, 4, 1, 0; 1999 GH<sub>39</sub>, 4, 1, 0; 1999 GY<sub>39</sub>, 4, 1, 0; 1999 GA<sub>41</sub>, 4, 1, 0; 1999 GC<sub>41</sub>, 4, 1, 0; 1999 GM<sub>41</sub>, 4, 1, 0; 1999 GF<sub>43</sub>, 4, 1, 0; 1999 GM<sub>46</sub>, 4, 1, 0; 1999 GM<sub>50</sub>, 4, 1, 0; 1999 GW<sub>50</sub>, 4, 1, 0; 1999 HF<sub>12</sub>, 4, 1, 0; 1999 JG<sub>5</sub>, 4,

1, 0; 1999 JO<sub>33</sub>, 4, 1, 0; 1999 JQ<sub>40</sub>, 4, 1, 0; 1999 JD<sub>53</sub>, 4, 1, 0; 1999 JL<sub>73</sub>, 4, 1, 0; 1999 JT<sub>90</sub>, 4, 1, 0; 1999 JU<sub>90</sub>, 4, 1, 0; 1999 JO<sub>95</sub>, 4, 1, 0; 1999 JL<sub>112</sub>, 4, 1, 0; 1999 JS<sub>117</sub>, 4, 1, 0; 1999 JQ<sub>127</sub>, 4, 1, 0; 1999 LR<sub>14</sub>, 4, 1, 0; 1999 NJ<sub>6</sub>, 8, 1, 0; 1999 NW<sub>6</sub>, 8, 1, 0; 1999 NC<sub>34</sub>, 4, 1, 0; 1999 NU<sub>38</sub>, 4, 1, 0; 1999 NR<sub>42</sub>, 4, 1, 0; 1999 RL<sub>41</sub>, 4, 1, 0; 1999 RP<sub>46</sub>, 4, 1, 0; 1999 RC<sub>50</sub>, 4, 1, 0; 1999 RF<sub>55</sub>, 4, 1, 0; 1999 RA<sub>57</sub>, 4, 1, 0; 1999 RL<sub>57</sub>, 4, 1, 0; 1999 RG<sub>61</sub>, 8, 1, 0; 1999 RH<sub>61</sub>, 4, 1, 0; 1999 RN<sub>61</sub>, 4, 1, 0; 1999 RS<sub>61</sub>, 4, 1, 0; 1999 RN<sub>68</sub>, 4, 1, 0; 1999 RG<sub>85</sub>, 4, 1, 0; 1999 RM<sub>101</sub>, 4, 1, 0; 1999 RN<sub>107</sub>, 4, 1, 0; 1999 RY<sub>108</sub>, 8, 2, 15; 1999 RF<sub>109</sub>, 8, 2, 39; 1999 RV<sub>113</sub>, 4, 1, 0; 1999 RK<sub>132</sub>, 4, 1, 0; 1999 RQ<sub>132</sub>, 4, 1, 0; 1999 RF<sub>133</sub>, 4, 1, 0; 1999 RW<sub>134</sub>, 4, 1, 0; 1999 RT<sub>136</sub>, 4, 1, 0; 1999 RR<sub>137</sub>, 4, 1, 0; 1999 RW<sub>137</sub>, 4, 1, 0; 1999 RU<sub>139</sub>, 8, 1, 0; 1999 RQ<sub>141</sub>, 4, 1, 0; 1999 RX<sub>144</sub>, 4, 1, 0; 1999 RQ<sub>147</sub>, 4, 1, 0; 1999 RK<sub>156</sub>, 4, 1, 0; 1999 RV<sub>191</sub>, 4, 1, 0; 1999 RL<sub>216</sub>, 4, 1, 0; 1999 RX<sub>217</sub>, 4, 1, 0; 1999 RA<sub>219</sub>, 4, 1, 0; 1999 RZ<sub>222</sub>, 4, 1, 0; 1999 RP<sub>226</sub>, 4, 1, 0; 1999 RC<sub>239</sub>, 4, 1, 0; 1999 RU<sub>242</sub>, 4, 1, 0; 1999 RJ<sub>246</sub>, 4, 1, 0; 1999 RJ<sub>249</sub>, 4, 1, 0; 1999 RH<sub>250</sub>, 4, 1, 0; 1999 RQ<sub>253</sub>, 4, 1, 0; 1999 SC<sub>11</sub>, 4, 1, 0; 1999 SN<sub>13</sub>, 4, 1, 0; 1999 SP<sub>16</sub>, 4, 1, 0; 1999 SF<sub>19</sub>, 4, 1, 0; 1999 SD<sub>22</sub>, 4, 1, 0; 1999 SG<sub>25</sub>, 4, 1, 0; 1999 TN<sub>88</sub>, 8, 1, 0; 1999 TY<sub>94</sub>, 4, 1, 0; 1999 TU<sub>100</sub>, 4, 1, 0; 1999 TA<sub>103</sub>, 4, 1, 0; 1999 TZ<sub>106</sub>, 4, 1, 0; 1999 TS<sub>107</sub>, 4, 1, 0; 1999 TB<sub>109</sub>, 4, 1, 0; 1999 TF<sub>109</sub>, 4, 1, 0; 1999 TC<sub>114</sub>, 4, 1, 0; 1999 TE<sub>114</sub>, 8, 2, 7; 1999 TR<sub>126</sub>, 4, 1, 0; 1999 TW<sub>129</sub>, 4, 1, 0; 1999 TR<sub>142</sub>, 4, 1, 0; 1999 TA<sub>143</sub>, 4, 1, 0; 1999 TW<sub>143</sub>, 8, 2, 12; 1999 TW<sub>147</sub>, 4, 1, 0; 1999 TL<sub>153</sub>, 8, 2, 29; 1999 TO<sub>160</sub>, 4, 1, 0; 1999 TA<sub>162</sub>, 4, 1, 0; 1999 TZ<sub>164</sub>, 4, 1, 0; 1999 TA<sub>166</sub>, 4, 1, 0; 1999 TB<sub>169</sub>, 4, 1, 0; 1999 TC<sub>182</sub>, 4, 1, 0; 1999 TY<sub>182</sub>, 8, 1, 0; 1999 TO<sub>186</sub>, 12, 3, 65; 1999 TC<sub>190</sub>, 12, 3, 64; 1999 TE<sub>191</sub>, 4, 1, 0; 1999 TE<sub>192</sub>, 4, 1, 0; 1999 TA<sub>197</sub>, 4, 1, 0; 1999 TL<sub>201</sub>, 4, 1, 0; 1999 TD<sub>203</sub>, 4, 1, 0; 1999 TW<sub>209</sub>, 4, 1, 0; 1999 TH<sub>217</sub>, 4, 1, 0; 1999 TS<sub>217</sub>, 4, 1, 0; 1999 TJ<sub>221</sub>, 4, 1, 0; 1999 TM<sub>223</sub>, 4, 1, 0; 1999 TP<sub>231</sub>, 4, 1, 0; 1999 TE<sub>232</sub>, 4, 1, 0; 1999 TM<sub>238</sub>, 4, 1, 0; 1999 TW<sub>238</sub>, 4, 1, 0; 1999 TQ<sub>244</sub>, 4, 1, 0; 1999 TG<sub>248</sub>, 4, 1, 0; 1999 TA<sub>250</sub>, 4, 1, 0; 1999 TU<sub>251</sub>, 4, 1, 0; 1999 TO<sub>252</sub>, 4, 1, 0; 1999 TP<sub>256</sub>, 4, 1, 0; 1999 TO<sub>256</sub>, 4, 1, 0; 1999 TP<sub>257</sub>, 4, 1, 0; 1999 TJ<sub>259</sub>, 4, 1, 0; 1999 TP<sub>269</sub>, 4, 1, 0; 1999 TP<sub>270</sub>, 4, 1, 0; 1999 TV<sub>271</sub>, 4, 1, 0; 1999 TW<sub>271</sub>, 4, 1, 0; 1999 TW<sub>272</sub>, 4, 1, 0; 1999 TN<sub>277</sub>, 4, 1, 0; 1999 TS<sub>279</sub>, 4, 1, 0; 1999 TS<sub>280</sub>, 4, 1, 0; 1999 TS<sub>283</sub>, 4, 1, 0; 1999 TT<sub>283</sub>, 4, 1, 0; 1999 TD<sub>284</sub>, 4, 1, 0; 1999 TE<sub>284</sub>, 4, 1, 0; 1999 TG<sub>284</sub>, 8, 2, 28; 1999 TQ<sub>284</sub>, 4, 1, 0; 1999 TX<sub>284</sub>, 4, 1, 0; 1999 TH<sub>287</sub>, 4, 1, 0; 1999 TS<sub>287</sub>, 4, 1, 0; 1999 TX<sub>287</sub>, 4, 1, 0; 1999 TA<sub>292</sub>, 4, 1, 0; 1999 TK<sub>293</sub>, 8, 2, 13; 1999 TM<sub>293</sub>, 4, 1, 0; 1999 TQ<sub>295</sub>, 4, 1, 0; 1999 TK<sub>310</sub>, 8, 2, 23; 1999 TB<sub>311</sub>, 4, 1, 0; 1999 TP<sub>311</sub>, 4, 1, 0; 1999 TW<sub>316</sub>, 8, 1, 0; 1999 TB<sub>320</sub>, 8, 2, 67; 1999 TP<sub>320</sub>, 8, 2, 7; 1999 TY<sub>321</sub>, 4, 1, 0; 1999 TA<sub>323</sub>, 4, 1, 0; 1999 UX<sub>42</sub>, 4, 1, 0; 1999 UK<sub>43</sub>, 4, 1, 0; 1999 UZ<sub>47</sub>, 4, 1, 0; 1999 UF<sub>50</sub>, 4, 1, 0; 1999 VL<sub>82</sub>, 4, 1, 0; 1999 VX<sub>148</sub>, 4, 1, 0; 1999 VF<sub>165</sub>, 4, 1, 0; 1999 VC<sub>167</sub>, 4, 1, 0; 1999 VL<sub>167</sub>, 8, 2, 44; 1999 VO<sub>167</sub>, 4, 1, 0; 1999 VQ<sub>167</sub>, 4, 1, 0; 1999 VX<sub>167</sub>, 4, 1, 0; 1999 VM<sub>168</sub>, 4, 1, 0; 1999 VP<sub>168</sub>, 4, 1, 0; 1999 VB<sub>169</sub>, 8, 2, 27; 1999 VC<sub>169</sub>, 4, 1, 0; 1999 VU<sub>169</sub>, 4, 1, 0; 1999 VO<sub>173</sub>, 4, 1, 0; 1999 VQ<sub>182</sub>, 4, 1, 0; 1999 VU<sub>198</sub>, 4, 1, 0; 1999 VA<sub>200</sub>, 4, 1, 0; 1999 VR<sub>200</sub>, 4, 1, 0; 1999 VS<sub>200</sub>, 4, 1, 0; 1999 VK<sub>216</sub>, 4, 1, 0; 1999 VP<sub>217</sub>, 4, 1, 0; 1999 VU<sub>219</sub>, 4, 1, 0; 1999 XB<sub>11</sub>, 4, 1, 0; 1999 XO<sub>19</sub>, 4, 1, 0; 1999 XF<sub>34</sub>, 4, 1, 0; 1999 XQ<sub>42</sub>, 4, 1, 0; 1999 XY<sub>42</sub>, 4, 1, 0; 1999 XP<sub>115</sub>, 8, 2, 67; 1999 XC<sub>120</sub>, 4, 1, 0; 1999 XJ<sub>123</sub>, 4, 1, 0; 1999 XH<sub>182</sub>, 4, 1, 0; 1999 XS<sub>204</sub>, 4, 1, 0; 1999 XA<sub>206</sub>, 8, 2, 22; 1999 XQ<sub>206</sub>, 4, 1, 0; 1999 XF<sub>215</sub>, 4, 1, 0; 1999 XL<sub>221</sub>, 4, 1, 0; 1999 XR<sub>229</sub>, 4, 1, 0; 1999 XE<sub>232</sub>, 4, 1, 0; 1999 XG<sub>233</sub>, 4, 1, 0; 1999 XS<sub>241</sub>, 4, 1, 0; 1999 XF<sub>245</sub>, 4, 1, 0; 1999 XT<sub>245</sub>, 4, 1, 0; 1999 XP<sub>247</sub>, 4, 1, 0; 2000 AR<sub>11</sub>, 4, 1, 0; 2000 AX<sub>11</sub>, 4, 1, 0; 2000 AZ<sub>12</sub>, 4, 1, 0; 2000 AF<sub>13</sub>, 4, 1, 0; 2000 AH<sub>34</sub>, 4, 1, 0; 2000 AD<sub>39</sub>, 4, 1, 0; 2000 AK<sub>167</sub>, 8, 2, 51; 2000 CX<sub>47</sub>, 4, 1, 0; 2000 CM<sub>125</sub>, 8, 2, 21; 2000 EQ<sub>146</sub>, 4, 1, 0; 2000 EB<sub>180</sub>, 4, 1, 0; 2000 FH<sub>62</sub>, 4, 1, 0; 2000 FO<sub>64</sub>, 4, 1, 0; 2000 FE<sub>73</sub>, 4, 1, 0; 2000 GK<sub>160</sub>, 4, 1, 0; 2000 GE<sub>177</sub>, 4, 1, 0; 2000 HF<sub>28</sub>, 4, 1, 0; 2000 JR<sub>19</sub>, 4, 1, 0; 2000 NF<sub>18</sub>, 4, 1, 0; 2000 NY<sub>19</sub>, 4, 1, 0; 2000 NR<sub>24</sub>, 4, 1, 0; 2000 OO<sub>9</sub>, 4, 1, 0; 2000 OX<sub>26</sub>, 4, 1, 0; 2000 OR<sub>27</sub>, 4, 1, 0; 2000 OZ<sub>27</sub>, 4, 1, 0; 2000 OD<sub>30</sub>, 4, 1, 0; 2000 OD<sub>36</sub>, 4, 1, 0; 2000 OL<sub>44</sub>, 8, 2, 27; 2000 OL<sub>47</sub>, 4, 1, 0; 2000 OE<sub>48</sub>, 4, 1, 0; 2000 PS<sub>10</sub>, 4, 1, 0; 2000 QP<sub>16</sub>, 4, 1, 0; 2000 QV<sub>24</sub>, 4, 1, 0; 2000 QE<sub>29</sub>, 8, 1, 0; 2000 QU<sub>30</sub>, 4, 1, 0; 2000 QK<sub>50</sub>, 4, 1, 0; 2000 QO<sub>55</sub>, 4, 1, 0; 2000 QU<sub>63</sub>, 4, 1, 0; 2000 QH<sub>64</sub>, 4, 1, 0; 2000 QF<sub>65</sub>, 4, 1, 0; 2000 QG<sub>65</sub>, 4, 1, 0; 2000 QS<sub>65</sub>, 8, 1, 0; 2000 QP<sub>68</sub>, 4, 1, 0; 2000 QD<sub>69</sub>, 4, 1, 0; 2000 QL<sub>94</sub>, 8, 2, 32; 2000 QO<sub>114</sub>, 4, 1, 0; 2000 QO<sub>121</sub>, 4, 1, 0; 2000 QJ<sub>141</sub>, 4, 1, 0; 2000 QP<sub>145</sub>, 4, 1, 0; 2000 QC<sub>155</sub>, 4, 1, 0; 2000 QK<sub>172</sub>, 4, 1, 0; 2000 QT<sub>179</sub>, 4, 1, 0; 2000 QT<sub>186</sub>, 4, 1, 0; 2000 QW<sub>195</sub>, 4, 1, 0; 2000 QV<sub>216</sub>, 4, 1, 0; 2000 QM<sub>222</sub>, 4, 1, 0; 2000 QW<sub>227</sub>, 4, 1, 0; 2000 RK<sub>4</sub>, 4, 1, 0; 2000 RR<sub>6</sub>, 4, 1, 0; 2000 RH<sub>66</sub>, 4, 1, 0; 2000 RN<sub>66</sub>, 4, 1, 0; 2000 RH<sub>77</sub>, 4, 1, 0; 2000 RS<sub>80</sub>, 8, 1, 0; 2000 RP<sub>100</sub>, 4, 1, 0; 2000 RA<sub>103</sub>, 12, 2, 41; 2000 SG<sub>3</sub>, 4, 1, 0; 2000 SZ<sub>22</sub>, 4, 1, 0; 2000 SG<sub>44</sub>, 3, 1, 0; 2000 SY<sub>88</sub>, 4, 1, 0; 2000 SP<sub>89</sub>, 4, 1, 0; 2000 SB<sub>96</sub>, 4, 1, 0; 2000 SC<sub>119</sub>, 4, 1, 0; 2000 SE<sub>123</sub>, 4, 1, 0; 2000 SJ<sub>142</sub>, 4, 1, 0; 2000 SJ<sub>146</sub>, 4, 1, 0; 2000 SP<sub>211</sub>, 4, 1, 0; 2000 SM<sub>226</sub>, 4, 1, 0; 2000 SX<sub>255</sub>, 4, 1, 0; 2000 SL<sub>275</sub>, 4, 1, 0; 2000 SW<sub>275</sub>, 4, 1, 0; 2000 SS<sub>305</sub>, 4, 1, 0; 2000 ST<sub>339</sub>, 4, 1, 0; 2000 SG<sub>344</sub>, 4, 1, 0; 2000 UT<sub>4</sub>, 4, 1, 0; 2000 UD<sub>8</sub>, 4, 1, 0; 2000 UB<sub>52</sub>, 4, 1, 0; 1330 T-2, 4, 1, 0; 3040 T-2, 4, 1, 0; 3326 T-2, 4, 1, 0; 5149 T-2, 4, 1, 0; 2131 T-3, 4, 1, 0; (12736), 3, 1, 0; [1406, 315, 0\*, 1998/09/25-2000/03/12]

## 704 Lincoln Laboratory Experimental Test System, New Mexico

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Observers M. Blythe, F. Shelly, M. Bezpalko, M. Elowitz, R. Huber

Measurers J. Stuart, R. Sayer, J. B. Evans, H. Viggth

## 1.0-m $f/2.15$ reflector + CCD

### USNO-A2.0

1970 JB, 5, 1, 0; 1970 PU, 9, 2, 11; 1971 UJ<sub>1</sub>, 4, 1, 0; 1972 GJ, 13, 3, 9; 1972 RF<sub>2</sub>, 13, 3, 9; 1974 CB, 13, 3, 9; 1975 SH<sub>1</sub>, 8, 2, 9; 1975 SP<sub>1</sub>, 10, 2, 3; 1975 VX<sub>2</sub>, 20, 4, 480; 1976 QH<sub>1</sub>, 4, 1, 0; 1976 UB<sub>16</sub>, 11, 3, 11; 1977 DR<sub>2</sub>, 18, 3, 1, 0; 1977 DA<sub>4</sub>, 3, 1, 0; 1977 DH<sub>4</sub>, 10, 2, 7; 1977 DL<sub>4</sub>, 8, 2, 9; 1977 FB, 13, 3, 9; 1978 TT<sub>7</sub>, 10, 2, 1; 1978 UR<sub>4</sub>, 8, 2, 2; 1978 UZ<sub>5</sub>, 8, 2, 6; 1978 VW<sub>2</sub>, 5, 1, 0; 1978 VB<sub>3</sub>, 3, 1, 0; 1978 VN<sub>3</sub>, 4, 1, 0; 1978 VW<sub>3</sub>, 5, 1, 0; 1978 VG<sub>4</sub>, 9, 2, 3; 1978 VH<sub>4</sub>, 5, 1, 0; 1978 VJ<sub>4</sub>, 5, 1, 0; 1978 VT<sub>4</sub>, 8, 2, 9; 1978 VW<sub>4</sub>, 18, 4, 9; 1978 VZ<sub>6</sub>, 14, 3, 8; 1978 VL<sub>8</sub>, 14, 3, 9; 1978 VY<sub>8</sub>, 4, 1, 0; 1978 VM<sub>9</sub>, 24, 4, 13; 1978 VB<sub>10</sub>, 10, 2, 8; 1978 XX, 10, 2, 19; 1979 MF<sub>2</sub>, 13, 3, 9; 1979 MP<sub>2</sub>, 5, 1, 0; 1979 MM<sub>3</sub>, 7, 2, 1; 1979 MY<sub>3</sub>, 10, 2, 5; 1979 MK<sub>4</sub>, 17, 3, 8; 1979 MZ<sub>4</sub>, 5, 1, 0; 1979 MR<sub>6</sub>, 5, 1, 0; 1979 MN<sub>7</sub>, 4, 1, 0; 1979 MX<sub>7</sub>, 3, 1, 0; 1979 MA<sub>8</sub>, 4, 1, 0; 1979 MO<sub>8</sub>, 5, 1, 0; 1979 MT<sub>8</sub>, 10, 2, 1; 1979 PA, 31, 6, 13; 1979 QZ<sub>9</sub>, 5, 1, 0; 1979 SH, 5, 1, 0; 1979 TY<sub>1</sub>, 14, 3, 11; 1980 FL<sub>3</sub>, 12, 3, 9; 1980 PU, 18, 4, 9; 1981 DP, 4, 1, 0; 1981 DH<sub>1</sub>, 14, 2, 2; 1981 DL<sub>1</sub>, 5, 1, 0; 1981 DP<sub>1</sub>, 7, 2, 3; 1981 ER<sub>2</sub>, 4, 1, 0; 1981 EY<sub>2</sub>, 14, 3, 9; 1981 EC<sub>3</sub>, 9, 2, 6; 1981 EF<sub>3</sub>, 5, 1, 0; 1981 ES<sub>3</sub>, 3, 1, 0; 1981 EC<sub>4</sub>, 10, 2, 1; 1981 EE<sub>4</sub>, 10, 3, 33; 1981 EG<sub>4</sub>, 10, 2, 9; 1981 EY<sub>4</sub>, 4, 1, 0; 1981 EB<sub>5</sub>, 4, 1, 0; 1981 EA<sub>6</sub>, 14, 3, 9; 1981 EB<sub>6</sub>, 3, 1, 0; 1981 EJ<sub>6</sub>, 19, 4, 9; 1981 EO<sub>6</sub>, 5, 1, 0; 1981 EV<sub>6</sub>, 15, 3, 11; 1981 EC<sub>7</sub>, 3, 1, 0; 1981 EX<sub>7</sub>, 13, 3, 9; 1981 EH<sub>8</sub>, 12, 3, 11; 1981 EJ<sub>8</sub>, 9, 2, 9; 1981 ER<sub>8</sub>, 9, 2, 2; 1981 EW<sub>8</sub>, 15, 4, 33; 1981 EF<sub>9</sub>, 15, 3, 9; 1981 EG<sub>9</sub>, 3, 1, 0; 1981 ER<sub>9</sub>, 4, 1, 0; 1981 EX<sub>9</sub>, 9, 2, 7; 1981 EH<sub>10</sub>, 3, 1, 0; 1981 EO<sub>10</sub>, 5, 1, 0; 1981 ER<sub>10</sub>, 4, 1, 0; 1981 EM<sub>11</sub>, 9, 2, 7; 1981 ER<sub>11</sub>, 10, 2, 9; 1981 EZ<sub>11</sub>, 9, 2, 7; 1981 ER<sub>12</sub>, 4, 1, 0; 1981 EG<sub>13</sub>, 5, 1, 0; 1981 EV<sub>13</sub>, 34, 6, 10; 1981 EY<sub>13</sub>, 4, 1, 0; 1981 EB<sub>14</sub>, 14, 3, 9; 1981 EA<sub>15</sub>, 3, 1, 0; 1981 EV<sub>15</sub>, 3, 1, 0; 1981 EJ<sub>16</sub>, 7, 2, 7; 1981 EM<sub>16</sub>, 3, 1, 0; 1981 EV<sub>16</sub>, 15, 3, 9; 1981 EY<sub>16</sub>, 23, 5, 13; 1981 EC<sub>19</sub>, 5, 1, 0; 1981 EF<sub>19</sub>, 15, 3, 9; 1981 EU<sub>19</sub>, 14, 3, 11; 1981 EV<sub>21</sub>, 4, 1, 0; 1981 EN<sub>25</sub>, 9, 2, 1; 1981 EL<sub>26</sub>, 10, 2, 11; 1981 EH<sub>27</sub>, 3, 1, 0; 1981 ER<sub>28</sub>, 12, 3, 9; 1981 EF<sub>29</sub>, 11, 3, 11; 1981 EM<sub>29</sub>, 9, 2, 523; 1981 ER<sub>29</sub>, 15, 3, 9; 1981 EX<sub>29</sub>, 7, 2, 60; 1981 ET<sub>30</sub>, 3, 1, 0; 1981 EU<sub>30</sub>, 7, 2, 8; 1981 EN<sub>31</sub>, 5, 1, 0; 1981 ET<sub>31</sub>, 4, 1, 0; 1981 EV<sub>31</sub>, 5, 1, 0; 1981 EL<sub>32</sub>, 3, 1, 0; 1981 EP<sub>32</sub>, 8, 2, 9; 1981 ES<sub>32</sub>, 5, 1, 0; 1981 EB<sub>33</sub>, 6, 2, 12; 1981 EH<sub>33</sub>, 5, 1, 0; 1981 EY<sub>34</sub>, 8, 2, 1; 1981 EA<sub>35</sub>, 10, 2, 7; 1981 ED<sub>36</sub>, 15, 3, 9; 1981 ED<sub>37</sub>, 12, 3, 12; 1981 EH<sub>37</sub>, 8, 2, 1; 1981 EL<sub>37</sub>, 11, 3, 4; 1981 EP<sub>37</sub>, 14, 3, 12; 1981 EH<sub>38</sub>, 10, 2, 3; 1981 EJ<sub>38</sub>, 10, 2, 3; 1981 EM<sub>39</sub>, 9, 2, 11; 1981 EU<sub>39</sub>, 15, 3, 9; 1981 EC<sub>40</sub>, 4, 1, 0; 1981 ET<sub>40</sub>, 13, 3, 9; 1981 EL<sub>41</sub>, 11, 2, 11; 1981 EM<sub>41</sub>, 9, 2, 9; 1981 EO<sub>44</sub>, 8, 2, 10; 1981 EZ<sub>44</sub>, 10, 2, 3; 1981 EA<sub>47</sub>, 7, 2, 6; 1981 EP<sub>47</sub>, 5, 1, 0; 1981 ES<sub>47</sub>, 8, 2, 3; 1981 QS<sub>9</sub>, 9, 2, 1; 1981 SG<sub>3</sub>, 15, 3, 11; 1981 UJ<sub>28</sub>, 5, 1, 0; 1982 DU, 14, 3, 9; 1982 UW<sub>2</sub>, 4, 1, 0; 1982 UV<sub>6</sub>, 14, 3, 9; 1982 UQ<sub>10</sub>, 10, 2, 12; 1982 UA<sub>11</sub>, 12, 3, 8; 1982 VF<sub>5</sub>, 5, 1, 0; 1983 PM<sub>1</sub>, 5, 1, 0; 1983 RP<sub>2</sub>, 10, 2, 4; 1983 RT<sub>3</sub>, 5, 1, 0; 1983 VD<sub>7</sub>, 4, 1, 0; 1984 SB<sub>9</sub>, 9, 2, 9; 1984 SP<sub>4</sub>, 5, 1, 0; 1984 WZ<sub>1</sub>, 4, 1, 0; 1985 CV<sub>1</sub>, 15, 4, 9; 1985 CX<sub>1</sub>, 17, 4, 9; 1985 CY<sub>1</sub>, 4, 1, 0; 1985 DU<sub>1</sub>, 5, 1, 0; 1985 RX<sub>2</sub>, 13, 3, 4; 1985 RN<sub>4</sub>, 5, 1, 0; 1985 RP<sub>4</sub>, 13, 3, 15; 1985 SH<sub>1</sub>, 8, 2, 1; 1985 SG<sub>2</sub>, 5, 1, 0; 1985 UR<sub>7</sub>, 7, 2, 9; 1985 UU<sub>15</sub>, 3, 954; 1985 VF<sub>1</sub>, 4, 1, 0; 1986 QK<sub>9</sub>, 9, 2, 9; 1986 QM<sub>1</sub>, 4, 1, 0; 1986 QN<sub>2</sub>, 8, 2, 6; 1986 QC<sub>3</sub>, 5, 1, 0; 1986 QD<sub>3</sub>, 6, 2, 9; 1986 QG<sub>3</sub>, 14, 3, 10; 1986 RY<sub>4</sub>, 14, 3, 11; 1986 RV<sub>5</sub>, 19, 4, 9; 1986 TP<sub>1</sub>, 10, 2, 5; 1986 TH<sub>3</sub>, 17, 4, 3; 1986 BV<sub>1</sub>, 9, 2, 1; 1987 BY<sub>1</sub>, 10, 2, 36; 1987 BB<sub>2</sub>, 4, 1, 0; 1987 DQ<sub>6</sub>, 4, 1, 0; 1987 KG<sub>5</sub>, 9, 2, 15; 1987 ON, 5, 1, 0; 1987 OV, 5, 1, 0; 1987 QW, 4, 1, 0; 1987 QF<sub>1</sub>, 11, 3, 9; 1987 QU<sub>7</sub>, 4, 1, 0; 1987 QH<sub>10</sub>, 4, 1, 0; 1987 RA<sub>3</sub>, 9, 2, 1; 1987 SC<sub>1</sub>, 5, 1, 0; 1987 SH<sub>4</sub>, 10, 2, 12; 1987 SX<sub>11</sub>, 14, 3, 15; 1988 AL<sub>1</sub>, 4, 1, 0; 1988 CG<sub>2</sub>, 5, 1, 0; 1988 CY<sub>3</sub>, 18, 4, 9; 1988 CL<sub>4</sub>, 15, 3, 9; 1988 CQ<sub>5</sub>, 24, 5, 9; 1988 CR<sub>5</sub>, 5, 1, 0; 1988 CG<sub>7</sub>, 28, 6, 9; 1988 DL, 10, 2, 7; 1988 FD, 9, 2, 16; 1988 LG, 5, 1, 0; 1988 MA, 9, 2, 7; 1988 PR, 4, 1, 0; 1988 RC, 5, 1, 0; 1988 RE<sub>10</sub>, 4, 1, 0; 1988 RQ<sub>10</sub>, 16, 3, 39; 1988 RX<sub>10</sub>, 4, 1, 0; 1988 RB<sub>11</sub>, 19, 4, 9; 1988 RA<sub>12</sub>, 8, 2, 1; 1988 TV<sub>2</sub>, 7, 2, 8; 1988 VP, 15, 3, 9; 1988 VW<sub>2</sub>, 4, 1, 0; 1988 XQ, 10, 2, 11; 1989 AR, 10, 2, 8; 1989 AZ<sub>6</sub>, 11, 3, 9; 1989 CP<sub>2</sub>, 4, 1, 0; 1989 CR<sub>5</sub>, 3, 1, 0; 1989 DK, 3, 1, 0; 1989 EJ<sub>1</sub>, 13, 3, 9; 1989 GY<sub>1</sub>, 11, 3, 10; 1989 GM<sub>2</sub>, 17, 4, 9; 1989 LL, 5, 1, 0; 1989 OM, 5, 1, 0; 1989 RA, 10, 2, 5; 1989 RT<sub>1</sub>, 13, 3, 9; 1989 RJ<sub>2</sub>, 10, 2, 1; 1989 SJ<sub>3</sub>, 10, 2, 4; 1989 SY, 5, 1, 0; 1989 SF<sub>4</sub>, 9,

12, 3, 8; 1991 AW<sub>2</sub>, 5, 1, 0; 1991 BC<sub>1</sub>, 5, 1, 0; 1991 CM, 5, 1, 0; 1991 DG<sub>1</sub>, 14, 3, 9; 1991 EH<sub>1</sub>, 6, 2, 37; 1991 ED<sub>2</sub>, 10, 2, 1; 1991 EO<sub>5</sub>, 9, 2, 2; 1991 FD, 4, 1, 0; 1991 FK, 15, 2, 7; 1991 FS, 19, 4, 12; 1991 FS<sub>1</sub>, 13, 3, 9; 1991 FC<sub>4</sub>, 13, 3, 9; 1991 GH<sub>1</sub>, 9, 2, 4; 1991 GZ<sub>1</sub>, 10, 2, 5; 1991 GE<sub>2</sub>, 5, 1, 0; 1991 GW<sub>2</sub>, 5, 1, 0; 1991 GY<sub>3</sub>, 22, 4, 9; 1991 GV<sub>4</sub>, 14, 3, 9; 1991 GS<sub>5</sub>, 5, 1, 0; 1991 GB<sub>7</sub>, 4, 1, 0; 1991 GY<sub>8</sub>, 5, 1, 0; 1991 JV, 5, 1, 0; 1991 LM, 5, 1, 0; 1991 NK, 10, 2, 6; 1991 NS<sub>2</sub>, 7, 2, 8; 1991 NG<sub>3</sub>, 5, 1, 0; 1991 NN<sub>9</sub>, 5, 1, 0; 1991 PP<sub>2</sub>, 13, 3, 11; 1991 PX<sub>2</sub>, 8, 2, 1; 1991 PY<sub>3</sub>, 13, 3, 7; 1991 PZ<sub>5</sub>, 15, 3, 9; 1991 PH<sub>9</sub>, 5, 1, 0; 1991 PH<sub>10</sub>, 10, 2, 1; 1991 PL<sub>10</sub>, 5, 1, 0; 1991 PC<sub>12</sub>, 9, 2, 4; 1991 PM<sub>15</sub>, 14, 3, 11; 1991 PU<sub>19</sub>, 13, 3, 9; 1991 RP<sub>4</sub>, 4, 1, 0; 1991 RF<sub>5</sub>, 15, 3, 9; 1991 RV<sub>7</sub>, 9, 2, 7; 1991 RK<sub>8</sub>, 19, 4, 953; 1991 RS<sub>11</sub>, 5, 1, 0; 1991 RF<sub>16</sub>, 8, 2, 9; 1991 RF<sub>16</sub>, 15, 3, 9; 1991 RR<sub>17</sub>, 5, 1, 0; 1991 RA<sub>18</sub>, 15, 3, 7; 1991 RZ<sub>19</sub>, 5, 1, 0; 1991 RE<sub>20</sub>, 5, 1, 0; 1991 RP<sub>23</sub>, 3, 1, 0; 1991 RC<sub>27</sub>, 5, 1, 0; 1991 SQ, 9, 2, 16; 1991 SD<sub>1</sub>, 4, 1, 0; 1991 SH<sub>1</sub>, 12, 3, 10; 1991 TD, 25, 6, 954; 1991 TL<sub>2</sub>, 8, 2, 11; 1991 TN<sub>2</sub>, 4, 1, 0; 1991 TX<sub>2</sub>, 10, 2, 9; 1991 TE<sub>4</sub>, 4, 1, 0; 1991 TB<sub>5</sub>, 4, 1, 0; 1991 TB<sub>6</sub>, 5, 1, 0; 1991 TQ<sub>7</sub>, 9, 2, 6; 1991 TL<sub>13</sub>, 10, 2, 12; 1991 UX<sub>2</sub>, 4, 1, 0; 1991 UV<sub>3</sub>, 17, 3, 9; 1991 VU<sub>2</sub>, 10, 2, 1; 1991 VJ<sub>6</sub>, 18, 4, 9; 1991 VM<sub>6</sub>, 9, 2, 861; 1991 VZ<sub>8</sub>, 14, 3, 12; 1991 VY<sub>12</sub>, 19, 4, 9; 1991 XM, 14, 3, 11; 1991 YT, 9, 2, 1; 1991 YU, 10, 2, 3; 1991 YE<sub>1</sub>, 5, 1, 0; 1992 AM<sub>1</sub>, 5, 1, 0; 1992 CR<sub>2</sub>, 15, 4, 9; 1992 DT<sub>2</sub>, 4, 1, 0; 1992 DY<sub>5</sub>, 18, 3, 9; 1992 DK<sub>6</sub>, 14, 3, 9; 1992 DG<sub>7</sub>, 8, 2, 4; 1992 DM<sub>7</sub>, 13, 3, 9; 1992 DQ<sub>7</sub>, 13, 3, 9; 1992 DK<sub>8</sub>, 14, 3, 9; 1992 DV<sub>8</sub>, 13, 3, 9; 1992 EA<sub>4</sub>, 4, 1, 0; 1992 ED<sub>8</sub>, 12, 3, 12; 1992 EP<sub>8</sub>, 11, 3, 9; 1992 EO<sub>9</sub>, 15, 4, 9; 1992 EW<sub>10</sub>, 4, 1, 0; 1992 ET<sub>15</sub>, 14, 3, 4; 1992 EH<sub>18</sub>, 5, 1, 0; 1992 EZ<sub>21</sub>, 5, 1, 0; 1992 EG<sub>22</sub>, 5, 1, 0; 1992 ER<sub>25</sub>, 21, 5, 10; 1992 EG<sub>27</sub>, 5, 1, 0; 1992 ER<sub>28</sub>, 10, 2, 3; 1992 ES<sub>28</sub>, 5, 1, 0; 1992 EG<sub>31</sub>, 10, 2, 5; 1992 EL<sub>35</sub>, 10, 2, 3; 1992 FL<sub>3</sub>, 3, 1, 0; 1992 GQ, 10, 2, 5; 1992 GS<sub>1</sub>, 5, 1, 0; 1992 GN<sub>3</sub>, 22, 4, 10; 1992 GX<sub>4</sub>, 13, 3, 9; 1992 GZ<sub>4</sub>, 17, 4, 9; 1992 HN, 15, 3, 9; 1992 HJ<sub>2</sub>, 9, 2, 36; 1992 HF<sub>4</sub>, 8, 2, 9; 1992 JD<sub>3</sub>, 31, 6, 10; 1992 JO<sub>3</sub>, 9, 2, 4; 1992 KC, 8, 2, 1; 1992 OD<sub>2</sub>, 8, 2, 9; 1992 OD<sub>5</sub>, 4, 1, 0; 1992 PT, 15, 3, 9; 1992 PO<sub>1</sub>, 3, 1, 0; 1992 PR<sub>1</sub>, 5, 1, 0; 1992 PC<sub>2</sub>, 4, 1, 0; 1992 PN<sub>2</sub>, 5, 1, 0; 1992 PH<sub>4</sub>, 3, 1, 0; 1992 PT<sub>4</sub>, 5, 1, 0; 1992 QB, 15, 3, 4; 1992 QK, 4, 1, 0; 1992 QY, 4, 1, 0; 1992 RO<sub>1</sub>, 3, 1, 0; 1992 RP<sub>3</sub>, 10, 2, 5; 1992 RX<sub>4</sub>, 14, 3, 9; 1992 RR<sub>5</sub>, 15, 3, 9; 1992 RV<sub>5</sub>, 15, 3, 9; 1992 RC<sub>6</sub>, 7, 1, 0; 1992 RE<sub>7</sub>, 3, 1, 0; 1992 SH, 9, 2, 16; 1992 SF<sub>2</sub>, 4, 1, 0; 1992 SG<sub>2</sub>, 5, 1, 0; 1992 SH<sub>2</sub>, 5, 1, 0; 1992 SN<sub>2</sub>, 9, 2, 5; 1992 SA<sub>4</sub>, 10, 2, 1; 1992 SF<sub>14</sub>, 4, 1, 0; 1992 UJ, 8, 2, 4; 1992 UK<sub>2</sub>, 10, 2, 16; 1992 UQ, 9, 2, 12; 1992 UA<sub>4</sub>, 3, 1, 0; 1992 UW<sub>4</sub>, 3, 1, 0; 1992 UN<sub>5</sub>, 15, 3, 9; 1992 VR, 4, 1, 0; 1992 WP, 12, 3, 946; 1992 WQ<sub>1</sub>, 4, 1, 0; 1992 WY<sub>3</sub>, 5, 1, 0; 1992 WE<sub>4</sub>, 9, 2, 3; 1992 WS<sub>4</sub>, 18, 4, 7; 1992 YH, 5, 1, 0; 1992 YJ, 8, 2, 18; 1992 YE<sub>1</sub>, 14, 3, 9; 1992 YU<sub>2</sub>, 19, 4, 9; 1992 YE<sub>4</sub>, 10, 2, 1; 1993 AG, 10, 2, 3; 1993 AM, 3, 1, 0; 1993 AQ, 5, 1, 0; 1993 CS<sub>1</sub>, 11, 3, 12; 1993 DM, 4, 1, 0; 1993 DE<sub>1</sub>, 5, 1, 0; 1993 FR<sub>1</sub>, 4, 1, 0; 1993 FQ<sub>2</sub>, 13, 3, 10; 1993 FB<sub>5</sub>, 9, 2, 2; 1993 FM<sub>7</sub>, 8, 2, 4; 1993 FC<sub>9</sub>, 15, 3, 9; 1993 FD<sub>9</sub>, 4, 1, 0; 1993 FN<sub>10</sub>, 13, 3, 9; 1993 FE<sub>11</sub>, 14, 3, 30; 1993 FT<sub>11</sub>, 4, 1, 0; 1993 FP<sub>12</sub>, 3, 1, 0; 1993 FY<sub>12</sub>, 23, 4, 4; 1993 FE<sub>13</sub>, 9, 2, 3; 1993 FT<sub>14</sub>, 9, 2, 1; 1993 FE<sub>15</sub>, 4, 1, 0; 1993 FW<sub>15</sub>, 4, 1, 0; 1993 FO<sub>18</sub>, 9, 2, 3; 1993 FF<sub>19</sub>, 4, 1, 0; 1993 FH<sub>19</sub>, 14, 3, 9; 1993 FF<sub>20</sub>, 9, 2, 1; 1993 FX<sub>20</sub>, 21, 5, 10; 1993 FF<sub>21</sub>, 15, 3, 9; 1993 FQ<sub>24</sub>, 9, 2, 1; 1993 FE<sub>26</sub>, 18, 3, 9; 1993 FW<sub>26</sub>, 10, 2, 4; 1993 FV<sub>28</sub>, 9, 2, 20; 1993 FR<sub>29</sub>, 9, 2, 438; 1993 FS<sub>29</sub>, 9, 2, 9; 1993 FU<sub>29</sub>, 4, 1, 0; 1993 FX<sub>31</sub>, 5, 1, 0; 1993 FZ<sub>31</sub>, 11, 3, 10; 1993 FQ<sub>32</sub>, 13, 3, 9; 1993 FF<sub>35</sub>, 3, 1, 0; 1993 FK<sub>35</sub>, 8, 2, 3; 1993 FA<sub>37</sub>, 9, 2, 1; 1993 FS<sub>37</sub>, 12, 3, 9; 1993 FR<sub>41</sub>, 17, 3, 3; 1993 FE<sub>43</sub>, 9, 2, 1; 1993 FD<sub>47</sub>, 4, 1, 0; 1993 FH<sub>49</sub>, 4, 1, 0; 1993 FQ<sub>50</sub>, 15, 3, 9; 1993 FC<sub>51</sub>, 38, 5, 9; 1993 FU<sub>52</sub>, 10, 2, 1; 1993 FF<sub>53</sub>, 19, 5, 10; 1993 FM<sub>62</sub>, 5, 1, 0; 1993 FO<sub>77</sub>, 4, 1, 0; 1993 GC, 5, 1, 0; 1993 GF<sub>1</sub>, 18, 4, 9; 1993 JY, 7, 2, 29; 1993 KC, 8, 2, 7; 1993 LX, 7, 2, 6; 1993 LD<sub>1</sub>, 5, 1, 0; 1993 LR<sub>1</sub>, 5, 1, 0; 1993 NN<sub>1</sub>, 9, 2, 9; 1993 OE<sub>2</sub>, 29, 4, 9; 1993 OH<sub>5</sub>, 14, 3, 9; 1993 OR<sub>5</sub>, 21, 4, 12; 1993 OY<sub>6</sub>, 5, 1, 0; 1993 OX<sub>11</sub>, 19, 4, 12; 1993 OE<sub>13</sub>, 4, 1, 0; 1993 PD<sub>3</sub>, 28, 6, 1032; 1993 PH<sub>3</sub>, 7, 2, 6; 1993 PW<sub>5</sub>, 29, 5, 9; 1993 QW, 5, 1, 0; 1993 QF<sub>1</sub>, 3, 1, 0; 1993 QK<sub>1</sub>, 10, 2, 4; 1993 QB<sub>3</sub>, 5, 1, 0; 1993 QT<sub>4</sub>, 14, 3, 9; 1993 QD<sub>8</sub>, 23, 5, 543; 1993 QH<sub>8</sub>, 4, 1, 0; 1993 QE<sub>9</sub>, 3, 1, 0; 1993 QY<sub>9</sub>, 9, 2, 4; 1993 RP<sub>2</sub>, 5, 1, 0; 1993 RJ<sub>3</sub>, 17, 4, 12; 1993 RT<sub>5</sub>, 15, 3, 62; 1993 RX<sub>5</sub>, 14, 3, 9; 1993 RA<sub>8</sub>, 5, 1, 0; 1993 SR<sub>1</sub>, 16, 4, 9; 1993 SG<sub>2</sub>, 15, 3, 9; 1993 ST<sub>2</sub>, 26, 5, 13; 1993 SD<sub>5</sub>, 10, 2, 11; 1993 TM, 12, 2, 15; 1993 TF<sub>1</sub>, 14, 3, 9; 1993 TV<sub>1</sub>, 9, 2, 11; 1993 TC<sub>2</sub>, 3, 1, 0; 1993 TA<sub>3</sub>, 10, 2, 4; 1993 TL<sub>5</sub>, 13, 3, 11; 1993 TM<sub>6</sub>, 8, 2, 23; 1993 TP<sub>9</sub>, 33, 5, 11; 1993 TG<sub>14</sub>, 7, 2, 4; 1993 TJ<sub>15</sub>, 13, 3, 9; 1993 TE<sub>19</sub>, 13, 3, 9; 1993 TJ<sub>20</sub>, 4, 1, 0; 1993 TS<sub>20</sub>, 14, 3, 9; 1993 TU<sub>20</sub>, 5, 1, 0; 1993 TJ<sub>21</sub>, 4, 1, 0; 1993 TM<sub>23</sub>, 46, 6, 12; 1993 TD<sub>27</sub>, 4, 1, 0; 1993 TH<sub>28</sub>, 5, 1, 0; 1993 TK<sub>28</sub>, 15, 3, 14; 1993 TQ<sub>32</sub>, 14, 3, 12; 1993 TR<sub>32</sub>, 17, 4, 10; 1993 TV<sub>34</sub>, 7, 2, 1; 1993 TT<sub>37</sub>, 13, 3, 9; 1993 TC<sub>38</sub>, 18, 4, 9; 1993 TS<sub>38</sub>, 11, 3, 14; 1993 TG<sub>39</sub>, 15, 3, 8; 1993 UY<sub>2</sub>, 4, 1, 0; 1993 UQ<sub>4</sub>, 13, 3, 9; 1993 UB<sub>5</sub>, 15, 3, 10; 1993 UE<sub>6</sub>, 9, 2, 3; 1993 UF<sub>7</sub>, 9, 2, 1; 1993 UT<sub>7</sub>, 9, 2, 2; 1993 VC<sub>1</sub>, 5, 1, 0; 1993 VR<sub>1</sub>, 16, 4, 9; 1993 WF, 15, 3, 9; 1993 XV, 9, 2, 8; 1993 XE<sub>1</sub>, 5, 1, 0; 1993 XU<sub>1</sub>, 4, 1, 0; 1993 YG, 3, 1, 0; 1993 YL, 14, 3, 9; 1993 YN, 4, 1, 0; 1993 YN<sub>2</sub>, 15, 3, 9; 1994 AE, 3, 1, 0; 1994 AG, 3, 1, 0; 1994 AP, 10, 2, 1; 1994 AU, 17, 4, 9; 1994 AY, 19, 4, 9; 1994 AC<sub>1</sub>, 10, 2, 2; 1994 AO<sub>1</sub>, 4, 1, 0; 1994 AV<sub>1</sub>, 10, 2, 11; 1994 AO<sub>3</sub>, 9, 2, 4; 1994 AA<sub>4</sub>, 9, 2, 5; 1994 AA<sub>6</sub>, 4, 1, 0; 1994 AZ<sub>10</sub>, 3, 1, 0; 1994 AF<sub>16</sub>, 5, 1, 0; 1994 AK<sub>16</sub>, 15, 3, 9; 1994 BM, 10, 2, 11; 1994 BN<sub>3</sub>, 10, 2, 4; 1994 BR<sub>3</sub>, 3, 1, 0; 1994 BB<sub>4</sub>, 9, 1, 0; 1994 BH<sub>4</sub>, 17, 4, 9; 1994 CJ<sub>2</sub>, 9, 2, 5; 1994 CG<sub>6</sub>, 5, 1, 0; 1994 CN<sub>10</sub>, 5, 1, 0; 1994 CZ<sub>11</sub>, 7, 2, 1; 1994 CM<sub>13</sub>, 4, 1, 0; 1994 CS<sub>13</sub>, 5, 1, 0; 1994 CF<sub>14</sub>, 15, 3, 11; 1994 CJ<sub>17</sub>, 4, 1, 0; 1994 CN<sub>17</sub>, 3, 1, 0; 1994 EQ, 10, 2, 11; 1994 EX, 5, 1, 0; 1994 EL<sub>2</sub>, 8, 2, 2; 1994 ES<sub>3</sub>, 5, 1, 0; 1994 EE<sub>6</sub>, 5, 1, 0; 1994 EV<sub>6</sub>, 15, 3, 9; 1994 EL<sub>7</sub>, 4, 1, 0; 1994 EW<sub>7</sub>, 4, 1, 0; 1994 FC, 9, 2, 16; 1994 GB<sub>5</sub>, 4, 1, 0; 1994 GW<sub>10</sub>, 4, 1, 0; 1994 GY<sub>10</sub>, 12, 3, 9; 1994 HZ, 9, 2, 19; 1994 JR, 9, 2, 1; 1994 JJ<sub>5</sub>, 18, 4, 12; 1994 JL<sub>5</sub>, 10, 1, 0; 1994 JM<sub>6</sub>, 19, 3, 928; 1994 LT, 14, 3, 617; 1994 LO<sub>1</sub>, 5, 1, 0; 1994 NV<sub>1</sub>, 16, 3, 6; 1994 PE, 7, 2, 945; 1994 PT, 18, 4, 12; 1994 PY<sub>1</sub>, 5, 1, 0; 1994 PA<sub>3</sub>, 16, 4, 9; 1994 PH<sub>3</sub>,

17, 3, 9; 1994 PK<sub>3</sub>, 9, 2, 3; 1994 PD<sub>4</sub>, 16, 4, 9; 1994 PX<sub>4</sub>, 3, 1, 0; 1994 PG<sub>5</sub>, 8, 2, 7; 1994 PQ<sub>5</sub>, 4, 1, 0; 1994 PS<sub>6</sub>, 8, 2, 4; 1994 PW<sub>8</sub>, 10, 2, 11; 1994 PF<sub>9</sub>, 9, 2, 58; 1994 PV<sub>9</sub>, 5, 1, 0; 1994 PL<sub>10</sub>, 35, 8, 959; 1994 PC<sub>12</sub>, 5, 1, 0; 1994 PM<sub>13</sub>, 3, 1, 0; 1994 PN<sub>13</sub>, 13, 3, 9; 1994 PO<sub>13</sub>, 4, 1, 0; 1994 PU<sub>13</sub>, 12, 2, 3; 1994 PW<sub>13</sub>, 5, 1, 0; 1994 PZ<sub>13</sub>, 5, 1, 0; 1994 PD<sub>14</sub>, 5, 1, 0; 1994 PF<sub>15</sub>, 5, 1, 0; 1994 PN<sub>17</sub>, 23, 5, 9; 1994 PS<sub>17</sub>, 4, 1, 0; 1994 PW<sub>17</sub>, 14, 3, 9; 1994 PT<sub>17</sub>, 4, 1, 0; 1994 PT<sub>19</sub>, 13, 3, 9; 1994 PP<sub>20</sub>, 13, 3, 10; 1994 PO<sub>21</sub>, 3, 1, 0; 1994 PU<sub>24</sub>, 8, 2, 4; 1994 PO<sub>25</sub>, 8, 2, 6; 1994 PF<sub>26</sub>, 15, 3, 30; 1994 PH<sub>26</sub>, 4, 1, 0; 1994 PS<sub>26</sub>, 5, 1, 0; 1994 PG<sub>27</sub>, 9, 2, 3; 1994 PZ<sub>27</sub>, 9, 2, 3; 1994 PG<sub>29</sub>, 16, 4, 9; 1994 PA<sub>31</sub>, 3, 1, 0; 1994 PE<sub>32</sub>, 13, 3, 9; 1994 PX<sub>32</sub>, 10, 1, 0; 1994 PL<sub>33</sub>, 7, 2, 5; 1994 PN<sub>36</sub>, 9, 2, 5; 1994 PP<sub>36</sub>, 8, 2, 11; 1994 PW<sub>37</sub>, 3, 1, 0; 1994 PB<sub>38</sub>, 4, 1, 0; 1994 PK<sub>39</sub>, 16, 4, 9; 1994 QL, 3, 1, 0; 1994 QP, 10, 2, 9; 1994 RL<sub>2</sub>, 9, 2, 7; 1994 RM<sub>2</sub>, 5, 1, 0; 1994 RG<sub>7</sub>, 14, 3, 9; 1994 RC<sub>17</sub>, 5, 1, 0; 1994 RN<sub>28</sub>, 4, 1, 0; 1994 SV<sub>7</sub>, 8, 2, 2; 1994 SX<sub>9</sub>, 5, 1, 0; 1994 TZ, 5, 1, 0; 1994 UH<sub>3</sub>, 5, 1, 0; 1994 VC, 5, 1, 0; 1994 VG<sub>2</sub>, 5, 1, 0; 1994 VD<sub>7</sub>, 3, 1, 0; 1994 WS<sub>2</sub>, 13, 3, 9; 1994 WY<sub>2</sub>, 15, 3, 9; 1994 WB<sub>3</sub>, 3, 1, 0; 1995 AE<sub>1</sub>, 3, 1, 0; 1995 BF<sub>1</sub>, 28, 5, 11; 1995 BZ<sub>11</sub>, 15, 3, 9; 1995 CM, 3, 1, 0; 1995 CA<sub>1</sub>, 12, 3, 11; 1995 CJ<sub>1</sub>, 20, 3, 9; 1995 CS<sub>3</sub>, 42, 8, 10; 1995 DF, 13, 3, 9; 1995 DH<sub>5</sub>, 5, 1, 0; 1995 DS<sub>5</sub>, 10, 2, 7; 1995 ES, 15, 3, 9; 1995 EX<sub>7</sub>, 19, 4, 9; 1995 EY<sub>8</sub>, 14, 3, 9; 1995 FD<sub>1</sub>, 14, 3, 9; 1995 FT<sub>4</sub>, 14, 3, 9; 1995 FY<sub>20</sub>, 19, 4, 11; 1995 GB, 10, 2, 1; 1995 GT, 5, 1, 0; 1995 GW, 27, 5, 12; 1995 GB<sub>7</sub>, 16, 3, 12; 1995 HS<sub>2</sub>, 5, 1, 0; 1995 JJ<sub>1</sub>, 19, 4, 1035; 1995 KM, 4, 1, 0; 1995 OC, 16, 4, 621; 1995 OB<sub>1</sub>, 7, 2, 9; 1995 OF<sub>3</sub>, 9, 2, 8; 1995 OZ<sub>3</sub>, 15, 3, 9; 1995 OH<sub>10</sub>, 19, 4, 12; 1995 PG, 4, 1, 0; 1995 PJ, 8, 2, 449; 1995 OD, 8, 2, 5; 1995 QP, 4, 1, 0; 1995 QQ, 3, 1, 0; 1995 QS<sub>2</sub>, 4, 1, 0; 1995 QX<sub>3</sub>, 6, 2, 4; 1995 QB<sub>10</sub>, 4, 1, 0; 1995 SA<sub>2</sub>, 8, 2, 1; 1995 SH<sub>2</sub>, 5, 1, 0; 1995 SV<sub>16</sub>, 4, 1, 0; 1995 SC<sub>17</sub>, 8, 2, 1; 1995 SK<sub>23</sub>, 15, 3, 9; 1995 SD<sub>24</sub>, 10, 2, 1; 1995 SC<sub>28</sub>, 15, 3, 9; 1995 SD<sub>31</sub>, 5, 1, 0; 1995 SB<sub>34</sub>, 9, 2, 3; 1995 SL<sub>35</sub>, 3, 1, 0; 1995 SU<sub>37</sub>, 8, 2, 7; 1995 SX<sub>52</sub>, 19, 4, 9; 1995 TT, 20, 4, 9; 1995 TP<sub>2</sub>, 8, 2, 4; 1995 TB<sub>8</sub>, 5, 1, 0; 1995 UN<sub>2</sub>, 5, 1, 0; 1995 UZ<sub>3</sub>, 9, 2, 7; 1995 UL<sub>4</sub>, 11, 3, 81; 1995 UD<sub>7</sub>, 18, 4, 35; 1995 UE<sub>8</sub>, 9, 2, 11; 1995 UC<sub>9</sub>, 16, 4, 9; 1995 UQ<sub>11</sub>, 5, 1, 0; 1995 UW<sub>12</sub>, 13, 3, 9; 1995 UQ<sub>15</sub>, 10, 2, 3; 1995 UW<sub>25</sub>, 4, 1, 0; 1995 UJ<sub>31</sub>, 7, 2, 4; 1995 UX<sub>44</sub>, 17, 4, 9; 1995 UZ<sub>45</sub>, 14, 3, 9; 1995 UB<sub>47</sub>, 15, 3, 9; 1995 VH, 5, 1, 0; 1995 VV, 17, 4, 9; 1995 VA<sub>1</sub>, 9, 2, 3; 1995 VK<sub>1</sub>, 7, 2, 1; 1995 VS<sub>8</sub>, 15, 3, 9; 1995 VR<sub>12</sub>, 7, 2, 7; 1995 VG<sub>13</sub>, 9, 2, 1; 1995 VG<sub>14</sub>, 7, 2, 947; 1995 VW<sub>14</sub>, 4, 1, 0; 1995 VR<sub>15</sub>, 10, 2, 5; 1995 WQ<sub>2</sub>, 5, 1, 0; 1995 WC<sub>3</sub>, 7, 2, 4; 1995 WQ<sub>3</sub>, 21, 5, 422; 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8, 2, 3; 1996 VU<sub>6</sub>, 14, 3, 954; 1996 VA<sub>7</sub>, 16, 4, 11; 1996 VG<sub>7</sub>, 10, 2, 451; 1996 VR<sub>7</sub>, 5, 1, 0; 1996 VU<sub>7</sub>, 5, 1, 0; 1996 VY<sub>7</sub>, 10, 2, 1; 1996 VD<sub>8</sub>, 9, 2, 15; 1996 VE<sub>8</sub>, 15, 3, 12; 1996 VF<sub>8</sub>, 9, 2, 3; 1996 VJ<sub>8</sub>, 14, 3, 9; 1996 VO<sub>8</sub>, 9, 2, 1; 1996 VS<sub>13</sub>, 13, 3, 9; 1996 VN<sub>14</sub>, 5, 1, 0; 1996 VR<sub>15</sub>, 10, 2, 2; 1996 VU<sub>29</sub>, 7, 2, 1; 1996 VB<sub>30</sub>, 4, 1, 0; 1996 VJ<sub>30</sub>, 5, 1, 0; 1996 VX<sub>30</sub>, 14, 3, 9; 1996 VA<sub>31</sub>, 17, 4, 11; 1996 VE<sub>38</sub>, 10, 2, 9; 1996 VL<sub>38</sub>, 4, 1, 0; 1996 WB<sub>5</sub>, 1, 0; 1996 WC<sub>18</sub>, 4, 9; 1996 WR<sub>1</sub>, 22, 5, 958; 1996 WS<sub>1</sub>, 14, 3, 12; 1996 WY<sub>1</sub>, 3, 1, 0; 1996 WU<sub>9</sub>, 9, 2, 4; 1996 WZ<sub>2</sub>, 13, 3, 62; 1996 WK<sub>3</sub>, 10, 2, 1; 1996 XD<sub>3</sub>, 1, 0; 1996 XE<sub>5</sub>, 1, 0; 1996 XX<sub>4</sub>, 4, 1, 0; 1996 XS<sub>1</sub>, 14, 3, 11; 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1998 BS<sub>2</sub>, 10, 2, 5; 1998 BT<sub>2</sub>, 7, 1, 0; 1998 BY<sub>2</sub>, 12, 3, 9; 1998 BA<sub>4</sub>, 6, 2, 3; 1998 BB<sub>4</sub>, 13, 3, 10; 1998 BE<sub>4</sub>, 9, 2, 2; 1998 BH<sub>4</sub>, 10, 2, 2; 1998 BW<sub>4</sub>, 5, 1, 0; 1998 BC<sub>5</sub>, 10, 2, 5; 1998 BE<sub>5</sub>, 17, 4, 9; 1998 BP<sub>5</sub>, 15, 3, 7; 1998 BT<sub>5</sub>, 9, 2, 1; 1998 BU<sub>6</sub>, 8, 2, 3; 1998 BA<sub>7</sub>, 15, 3, 9; 1998 BB<sub>7</sub>, 37, 7, 11; 1998 BB<sub>8</sub>, 3, 1, 0; 1998 BE<sub>8</sub>, 5, 1, 0; 1998 BH<sub>8</sub>, 9, 2, 8; 1998 BK<sub>8</sub>, 9, 2, 1; 1998 BM<sub>8</sub>, 4, 1, 0; 1998 BS<sub>8</sub>, 3, 1, 0; 1998 BY<sub>8</sub>, 4, 1, 0; 1998 BP<sub>9</sub>, 23, 4, 12; 1998 BK<sub>10</sub>, 5, 1, 0; 1998 BB<sub>11</sub>, 12, 3, 10; 1998 BL<sub>11</sub>, 12, 3, 9; 1998 BO<sub>12</sub>, 8, 2, 7; 1998 BQ<sub>12</sub>, 5, 1, 0; 1998 BX<sub>12</sub>, 15, 4, 12; 1998 BY<sub>12</sub>, 34, 7, 13; 1998 BL<sub>13</sub>, 13, 3, 9; 1998 BQ<sub>13</sub>, 18, 4, 9; 1998 BT<sub>14</sub>, 9, 2, 8; 1998 BU<sub>14</sub>, 9, 2, 5; 1998 BB<sub>15</sub>, 12, 3, 9; 1998 BR<sub>15</sub>, 5, 1, 0; 1998 BT<sub>15</sub>, 15, 3, 9; 1998 BF<sub>17</sub>, 7, 2, 4; 1998 BK<sub>19</sub>, 5, 1, 0; 1998 BZ<sub>22</sub>, 14, 3, 9; 1998 BU<sub>23</sub>, 3, 1, 0; 1998 BJ<sub>24</sub>, 9, 2, 3; 1998 BQ<sub>24</sub>, 17, 4, 11; 1998 BS<sub>24</sub>, 9, 2, 3; 1998 BX<sub>24</sub>, 4, 1, 0; 1998 BB<sub>25</sub>, 17, 4, 34; 1998 BC<sub>25</sub>, 5, 1, 0; 1998 BG<sub>25</sub>, 9, 2, 5; 1998 BH<sub>25</sub>, 20, 4, 10; 1998 BK<sub>25</sub>, 10, 2, 1; 1998 BM<sub>25</sub>, 14, 3, 11; 1998 BV<sub>25</sub>, 5, 1, 0; 1998 BY<sub>25</sub>, 10, 2, 1; 1998 BA<sub>26</sub>, 4, 1, 0; 1998 BB<sub>26</sub>, 8, 2, 3; 1998 BL<sub>26</sub>, 10, 2, 2; 1998 BE<sub>30</sub>, 4, 1, 0; 1998 BJ<sub>30</sub>, 9, 2, 14; 1998 BL<sub>30</sub>, 5, 1, 0; 1998 BG<sub>31</sub>, 5, 1, 0; 1998 BZ<sub>32</sub>, 5, 1, 0; 1998 BH<sub>33</sub>, 3, 1, 0; 1998 BK<sub>33</sub>, 14, 3, 9; 1998 BN<sub>33</sub>, 8, 2, 16; 1998 BQ<sub>33</sub>, 5, 1, 0; 1998 BR<sub>33</sub>, 14, 3, 9; 1998 BS<sub>33</sub>, 43, 6, 12; 1998 BT<sub>33</sub>, 5, 1, 0; 1998 BU<sub>33</sub>, 14, 3, 9; 1998 BW<sub>33</sub>, 9, 2, 31; 1998 BY<sub>33</sub>, 10, 2, 3; 1998 BB<sub>34</sub>, 4, 1, 0; 1998 BT<sub>35</sub>, 4, 1, 0; 1998 BH<sub>36</sub>, 5, 1, 0; 1998 BA<sub>38</sub>, 4, 1, 0; 1998 BC<sub>41</sub>, 15, 3, 88; 1998 BG<sub>41</sub>, 5, 1, 0; 1998 BG<sub>42</sub>, 14, 3, 14; 1998 BU<sub>43</sub>, 13, 3, 9; 1998 BD<sub>44</sub>, 13, 3, 9; 1998 BU<sub>45</sub>, 12, 3, 8; 1998 BN<sub>48</sub>, 12, 3, 9; 1998 CB<sub>4</sub>, 1, 0; 1998 CS<sub>10</sub>, 10, 2, 7; 1998 CY<sub>8</sub>, 2, 1; 1998 CD<sub>1</sub>, 10, 2, 29; 1998 CQ<sub>1</sub>, 13, 3, 9; 1998 CR<sub>1</sub>, 6, 2, 1; 1998 CZ<sub>1</sub>, 5, 1, 0; 1998 CA<sub>2</sub>, 10, 2, 5; 1998 CC<sub>2</sub>, 3, 1, 0; 1998 CW<sub>2</sub>, 8, 2, 1; 1998 CX<sub>2</sub>, 9, 2, 3; 1998 CB<sub>3</sub>, 14, 3, 9; 1998 CC<sub>3</sub>, 6, 2, 1; 1998 CK<sub>3</sub>, 14, 3, 12; 1998 CM<sub>3</sub>, 10, 2, 3; 1998 CU<sub>3</sub>, 26, 6, 9; 1998 CW<sub>3</sub>, 14, 3, 9; 1998 CE<sub>4</sub>, 15, 3, 12; 1998 CJ<sub>4</sub>, 8, 2, 8; 1998 CL<sub>4</sub>, 4, 1, 0; 1998 CR<sub>4</sub>, 5, 1, 0; 1998 CV<sub>4</sub>, 8, 2, 5; 1998 CW<sub>4</sub>, 8, 2, 9; 1998 CA<sub>5</sub>, 3, 1, 0; 1998 CC<sub>5</sub>, 7, 2, 2; 1998 DD<sub>13</sub>, 3, 9; 1998 DF<sub>14</sub>, 8, 2, 3; 1998 DR<sub>10</sub>, 10, 2, 5; 1998 DX<sub>12</sub>, 8, 2, 9; 1998 DV<sub>1</sub>, 9, 2, 15; 1998 DG<sub>2</sub>, 9, 2, 3; 1998 DN<sub>2</sub>, 3, 1, 0; 1998 DO<sub>2</sub>, 10, 2, 5; 1998 DA<sub>3</sub>, 10, 2, 5; 1998 DF<sub>3</sub>, 5, 1, 0; 1998 DQ<sub>3</sub>, 5, 1, 0; 1998 DQ<sub>4</sub>, 4, 1, 0; 1998 DV<sub>4</sub>, 19, 4, 9; 1998 DA<sub>5</sub>, 5, 1, 0; 1998 DJ<sub>5</sub>, 5, 1, 0; 1998 DN<sub>5</sub>, 15, 3, 2; 1998 DR<sub>5</sub>, 3, 1, 0; 1998 DA<sub>6</sub>, 16, 4, 58; 1998 DD<sub>6</sub>, 13, 3, 9; 1998 DF<sub>6</sub>, 8, 2, 1; 1998 DV<sub>6</sub>, 15, 3, 9; 1998 DR<sub>7</sub>, 36, 6, 9; 1998 DR<sub>7</sub>, 12, 3, 33; 1998 DK<sub>8</sub>, 4, 1, 0; 1998 DM<sub>9</sub>, 5, 1, 0; 1998 DN<sub>9</sub>, 13, 3, 9; 1998 DY<sub>9</sub>, 4, 1, 0; 1998 DD<sub>10</sub>, 10, 2, 1; 1998 DE<sub>10</sub>, 4, 1, 0; 1998 DF<sub>10</sub>, 5, 1, 0; 1998 DG<sub>10</sub>, 10, 2, 1; 1998 DN<sub>10</sub>, 5, 1, 0; 1998 DO<sub>10</sub>, 9, 2, 34; 1998 DS<sub>10</sub>, 4, 1, 0; 1998 DD<sub>12</sub>, 8, 2, 3; 1998 DF<sub>12</sub>, 11, 3, 9; 1998 DN<sub>12</sub>, 7, 2, 4; 1998 DC<sub>13</sub>, 8, 2, 1; 1998 DN<sub>13</sub>, 3, 1, 0; 1998 DR<sub>13</sub>, 17, 4, 9; 1998 DV<sub>13</sub>, 5, 1, 0; 1998 DD<sub>14</sub>, 8, 2, 3; 1998 DK<sub>14</sub>, 4, 1, 0; 1998 DM<sub>14</sub>, 4, 1, 0; 1998 DE<sub>15</sub>, 18, 4, 9; 1998 DH<sub>15</sub>, 9, 3, 7; 1998 DL<sub>15</sub>, 10, 2, 11; 1998 DN<sub>15</sub>, 10, 2, 2; 1998 DV<sub>15</sub>, 27, 5, 10; 1998 DM<sub>16</sub>, 4, 1, 0; 1998 DP<sub>16</sub>, 17, 24, 3, 9; 1998 DX<sub>17</sub>, 14, 3, 7; 1998 DF<sub>20</sub>, 13, 3, 9; 1998 DK<sub>20</sub>, 5, 1, 0; 1998 DO<sub>20</sub>, 10, 2, 5; 1998 DU<sub>20</sub>, 3, 1, 0; 1998 DK<sub>23</sub>, 5, 1, 0; 1998 DU<sub>23</sub>, 4, 1, 0

1998 FN<sub>16</sub>, 10, 2, 5; 1998 FO<sub>16</sub>, 32, 5, 9; 1998 FD<sub>17</sub>, 4, 1, 0; 1998 FN<sub>17</sub>, 5, 1, 0; 1998 FH<sub>18</sub>, 12, 3, 9; 1998 FL<sub>18</sub>, 17, 4, 9; 1998 FO<sub>18</sub>, 15, 3, 7; 1998 FL<sub>20</sub>, 3, 1, 0; 1998 FP<sub>20</sub>, 3, 1, 0; 1998 FV<sub>20</sub>, 10, 2, 3; 1998 FW<sub>20</sub>, 4, 1, 0; 1998 FJ<sub>21</sub>, 13, 3, 9; 1998 FV<sub>21</sub>, 3, 1, 0; 1998 FJ<sub>22</sub>, 9, 2, 1; 1998 FR<sub>22</sub>, 13, 3, 929; 1998 FX<sub>22</sub>, 3, 1, 0; 1998 FJ<sub>23</sub>, 28, 6, 10; 1998 FK<sub>23</sub>, 8, 2, 3; 1998 FL<sub>23</sub>, 16, 3, 10; 1998 FM<sub>23</sub>, 5, 1, 0; 1998 FJ<sub>24</sub>, 5, 1, 0; 1998 FE<sub>25</sub>, 4, 1, 0; 1998 FQ<sub>25</sub>, 5, 1, 0; 1998 FR<sub>25</sub>, 8, 2, 4; 1998 FY<sub>25</sub>, 8, 2, 3; 1998 FS<sub>26</sub>, 5, 1, 0; 1998 FT<sub>26</sub>, 9, 2, 7; 1998 FY<sub>26</sub>, 8, 2, 3; 1998 FA<sub>27</sub>, 14, 3, 9; 1998 FD<sub>27</sub>, 14, 3, 9; 1998 FU<sub>27</sub>, 20, 4, 9; 1998 FA<sub>28</sub>, 14, 3, 9; 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1998 FG<sub>45</sub>, 5, 1, 0; 1998 FO<sub>45</sub>, 5, 1, 0; 1998 FP<sub>45</sub>, 14, 3, 9; 1998 FS<sub>45</sub>, 26, 5, 12; 1998 FL<sub>46</sub>, 5, 1, 0; 1998 FB<sub>47</sub>, 15, 3, 450; 1998 FE<sub>47</sub>, 7, 2, 441; 1998 FO<sub>47</sub>, 20, 4, 9; 1998 FS<sub>47</sub>, 8, 2, 21; 1998 FB<sub>48</sub>, 15, 3, 9; 1998 FE<sub>48</sub>, 10, 2, 6; 1998 FL<sub>48</sub>, 4, 1, 0; 1998 FO<sub>48</sub>, 8, 2, 2; 1998 FV<sub>48</sub>, 13, 3, 9; 1998 FY<sub>48</sub>, 19, 3, 8; 1998 FD<sub>49</sub>, 10, 2, 7; 1998 FK<sub>49</sub>, 10, 2, 1; 1998 FP<sub>49</sub>, 4, 1, 0; 1998 FQ<sub>49</sub>, 3, 1, 0; 1998 FS<sub>49</sub>, 3, 1, 0; 1998 FZ<sub>49</sub>, 5, 1, 0; 1998 FK<sub>50</sub>, 13, 3, 9; 1998 FR<sub>50</sub>, 4, 1, 0; 1998 FA<sub>51</sub>, 13, 3, 481; 1998 FS<sub>51</sub>, 12, 2, 2; 1998 FM<sub>52</sub>, 19, 4, 22; 1998 FY<sub>52</sub>, 5, 1, 0; 1998 FH<sub>53</sub>, 3, 1, 0; 1998 FL<sub>53</sub>, 13, 3, 9; 1998 FM<sub>53</sub>, 10, 2, 9; 1998 FT<sub>53</sub>, 9, 2, 12; 1998 FV<sub>53</sub>, 14, 3, 11; 1998 FY<sub>53</sub>, 4, 1, 0; 1998 FB<sub>54</sub>, 15, 3, 9; 1998 FK<sub>54</sub>, 3, 1, 0; 1998 FL<sub>54</sub>, 9, 2, 3; 1998 FO<sub>54</sub>, 10, 2, 2; 1998 FQ<sub>54</sub>, 15, 2, 5; 1998 FV<sub>54</sub>, 4, 1, 0; 1998 FF<sub>55</sub>, 5, 1, 0; 1998 FM<sub>55</sub>, 3, 1, 0; 1998 FB<sub>56</sub>, 10, 2, 23; 1998 FL<sub>56</sub>, 4, 1, 0; 1998 FO<sub>56</sub>, 14, 3, 4; 1998 FA<sub>57</sub>, 7, 2, 5; 1998 FE<sub>57</sub>, 3, 1, 0; 1998 FJ<sub>57</sub>, 3, 1, 0; 1998 FK<sub>57</sub>, 8, 2, 2; 1998 FU<sub>57</sub>, 3, 1, 0; 1998 FA<sub>58</sub>, 14, 3, 9; 1998 FD<sub>58</sub>, 15, 3, 9; 1998 FK<sub>58</sub>, 7, 2, 5; 1998 FP<sub>58</sub>, 4, 1, 0; 1998 FU<sub>58</sub>, 4, 1, 0; 1998 FX<sub>58</sub>, 5, 1, 0; 1998 FD<sub>59</sub>, 4, 1, 0; 1998 FR<sub>59</sub>, 7, 2, 4; 1998 FU<sub>59</sub>, 13, 3, 11; 1998 FY<sub>59</sub>, 3, 1, 0; 1998 FZ<sub>59</sub>, 13, 3, 10; 1998 FB<sub>60</sub>, 8, 2, 4; 1998 FG<sub>60</sub>, 7, 2, 2; 1998 FJ<sub>60</sub>, 5, 1, 0; 1998 FN<sub>60</sub>, 14, 3, 7; 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1998 FJ<sub>66</sub>, 10, 2, 12; 1998 FM<sub>66</sub>, 13, 3, 9; 1998 FU<sub>66</sub>, 22, 5, 505; 1998 FH<sub>67</sub>, 11, 3, 421; 1998 FU<sub>67</sub>, 32, 7, 507; 1998 FX<sub>67</sub>, 4, 1, 0; 1998 FZ<sub>67</sub>, 13, 3, 9; 1998 FG<sub>68</sub>, 14, 3, 77; 1998 FQ<sub>68</sub>, 14, 3, 21; 1998 FU<sub>68</sub>, 10, 2, 1; 1998 FC<sub>69</sub>, 10, 2, 3; 1998 FG<sub>69</sub>, 15, 3, 9; 1998 FO<sub>69</sub>, 13, 3, 9; 1998 FV<sub>69</sub>, 9, 2, 24; 1998 FC<sub>70</sub>, 15, 3, 10; 1998 FE<sub>70</sub>, 29, 6, 9; 1998 FJ<sub>70</sub>, 14, 3, 9; 1998 FQ<sub>70</sub>, 19, 4, 9; 1998 FR<sub>70</sub>, 14, 3, 11; 1998 FS<sub>70</sub>, 15, 3, 9; 1998 FU<sub>70</sub>, 5, 1, 0; 1998 FB<sub>71</sub>, 18, 4, 9; 1998 FJ<sub>71</sub>, 3, 1, 0; 1998 FO<sub>71</sub>, 10, 2, 4; 1998 FG<sub>72</sub>, 15, 3, 9; 1998 FO<sub>72</sub>, 9, 2, 2; 1998 FS<sub>72</sub>, 4, 1, 0; 1998 FE<sub>73</sub>, 4, 1, 0; 1998 FR<sub>73</sub>, 19, 4, 9; 1998 FW<sub>73</sub>, 4, 1, 0; 1998 FY<sub>73</sub>, 20, 3, 9; 1998 FG<sub>74</sub>, 19, 2, 9; 1998 FN<sub>74</sub>, 19, 4, 9; 1998 FX<sub>74</sub>, 15, 3, 9; 1998 FZ<sub>74</sub>, 4, 1, 0; 1998 FD<sub>75</sub>, 8, 2, 9; 1998 FN<sub>75</sub>, 10, 2, 11; 1998 FX<sub>75</sub>, 4, 1, 0; 1998 FG<sub>76</sub>, 43, 6, 10; 1998 FM<sub>76</sub>, 3, 1, 0; 1998 FP<sub>76</sub>, 4, 1, 0; 1998 FQ<sub>76</sub>, 18, 4, 9; 1998 FR<sub>76</sub>, 10, 2, 1; 1998 FJ<sub>77</sub>, 5, 1, 0; 1998 FT<sub>77</sub>, 10, 2, 1; 1998 FB<sub>78</sub>, 9, 2, 22; 1998 FH<sub>78</sub>, 4, 1, 0; 1998 FO<sub>78</sub>, 8, 2, 901; 1998 FP<sub>78</sub>, 5, 1, 0; 1998 FQ<sub>78</sub>, 17, 2, 1; 1998 FC<sub>79</sub>, 8, 2, 4; 1998 FD<sub>79</sub>, 33, 6, 12; 1998 FE<sub>79</sub>, 15, 3, 9; 1998 FQ<sub>79</sub>, 4, 1, 0; 1998 FW<sub>81</sub>, 3, 1, 0; 1998 FF<sub>83</sub>, 5, 1, 0; 1998 FJ<sub>83</sub>, 3, 1, 0; 1998 FZ<sub>83</sub>, 14, 3, 11; 1998 FG<sub>84</sub>, 4, 1, 0; 1998 FS<sub>84</sub>, 8, 2, 34; 1998 FS<sub>85</sub>, 10, 2, 4; 1998 FP<sub>88</sub>, 3, 1, 0; 1998 FW<sub>88</sub>, 3, 1, 0; 1998 FD<sub>90</sub>, 4, 1, 0; 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1998 HM<sub>114</sub>, 10, 2, 5; 1998 HQ<sub>114</sub>, 14, 2, 1; 1998 HX<sub>114</sub>, 9, 2, 24; 1998 HZ<sub>114</sub>, 3, 1, 0; 1998 HS<sub>115</sub>, 24, 5, 471; 1998 HA<sub>116</sub>, 4, 1, 0; 1998 HF<sub>116</sub>, 10, 2, 28; 1998 HO<sub>116</sub>, 5, 1, 0; 1998 HR<sub>116</sub>, 9, 2, 32; 1998 HT<sub>116</sub>, 5, 1, 0; 1998 HZ<sub>117</sub>, 10, 2, 4; 1998 HZ<sub>118</sub>, 5, 1, 0; 1998 HO<sub>119</sub>, 9, 2, 2; 1998 HR<sub>119</sub>, 12, 3, 61; 1998 HS<sub>119</sub>, 11, 3, 12; 1998 HW<sub>119</sub>, 9, 2, 1; 1998 HZ<sub>119</sub>, 22, 5, 432; 1998 HA<sub>120</sub>, 4, 1, 0; 1998 HT<sub>120</sub>, 5, 1, 0; 1998 HE<sub>121</sub>, 5, 1, 0; 1998 HF<sub>121</sub>, 11, 3, 5; 1998 HV<sub>121</sub>, 5, 1, 0; 1998 HC<sub>122</sub>, 5, 1, 0; 1998 HF<sub>122</sub>, 8, 2, 5; 1998 HK<sub>122</sub>, 18, 4, 101; 1998 HW<sub>122</sub>, 9, 2, 59; 1998 HC<sub>123</sub>, 15, 3, 9; 1998 HU<sub>123</sub>, 4, 1, 0; 1998 HL<sub>124</sub>, 10, 2, 5; 1998 HM<sub>124</sub>, 15, 3, 9; 1998 HO<sub>124</sub>, 9, 2, 1; 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1998 RZ<sub>47</sub>, 8, 2, 22; 1998 RV<sub>53</sub>, 8, 2, 459; 1998 RH<sub>56</sub>, 3, 1, 0; 1998 RG<sub>71</sub>, 5, 1, 0; 1998 RB<sub>73</sub>, 5, 1, 0; 1998 RG<sub>73</sub>, 2, 1, 0; 1998 RE<sub>77</sub>, 5, 1, 0; 1998 SX<sub>1</sub>, 8, 2, 21; 1998 SK<sub>10</sub>, 4, 1, 0; 1998 SL<sub>10</sub>, 7, 2, 7; 1998 SX<sub>10</sub>, 4, 1, 0; 1998 SO<sub>12</sub>, 5, 1, 0; 1998 SA<sub>20</sub>, 5, 1, 0; 1998 SY<sub>21</sub>, 4, 1, 0; 1998 SO<sub>27</sub>, 5, 1, 0; 1998 SV<sub>34</sub>, 5, 1, 0; 1998 SP<sub>35</sub>, 9, 2, 17; 1998 SG<sub>36</sub>, 11, 3, 9; 1998 SH<sub>43</sub>, 13, 3, 105; 1998 SA<sub>44</sub>, 4, 1, 0; 1998 SB<sub>46</sub>, 4, 1, 0; 1998 SG<sub>56</sub>, 18, 4, 89; 1998 SC<sub>58</sub>, 8, 2, 47; 1998 SS<sub>58</sub>, 17, 4, 57; 1998 SZ<sub>63</sub>, 5, 1, 0; 1998 SA<sub>64</sub>, 15, 3, 29; 1998 SS<sub>65</sub>, 5, 1, 0; 1998 SG<sub>67</sub>, 5, 1, 0; 1998 SZ<sub>74</sub>, 2, 1, 0; 1998 SX<sub>75</sub>, 14, 4, 1028; 1998 SZ<sub>96</sub>, 9, 2, 45; 1998 SF<sub>97</sub>, 5, 1, 0; 1998 SU<sub>106</sub>, 9, 2, 1; 1998 SK<sub>111</sub>, 4, 1, 0; 1998 SX<sub>112</sub>, 9, 2, 18; 1998 SN<sub>117</sub>, 9, 2, 8; 1998 SZ<sub>134</sub>, 12, 3, 52; 1998 SO<sub>137</sub>, 5, 1, 0; 1998 SN<sub>139</sub>, 5, 1, 0; 1998 SG<sub>140</sub>, 4, 1, 0; 1998 SG<sub>141</sub>, 8, 2, 1038; 1998 SY<sub>141</sub>, 5, 1, 0; 1998 SN<sub>142</sub>, 5, 1, 0; 1998 SW<sub>146</sub>, 5, 1, 0; 1998 SC<sub>162</sub>, 17, 4, 105; 1998 TX<sub>1</sub>, 10, 2, 26; 1998 TL<sub>7</sub>, 4, 1, 0; 1998 UL<sub>1</sub>, 42, 6, 1; 1998 UH<sub>11</sub>, 4, 1, 0; 1998 UV<sub>19</sub>, 5, 1, 0; 1998 UC<sub>20</sub>, 2, 1, 0; 1998 UL<sub>24</sub>, 19, 4, 59; 1998 UH<sub>39</sub>, 4, 1, 0; 1998 UZ<sub>44</sub>, 4, 1, 0; 1998 VX<sub>6</sub>, 10, 2, 41; 1998 VM<sub>29</sub>, 8, 2, 28; 1998 VB<sub>30</sub>, 10, 2, 28; 1998 VE<sub>32</sub>, 4, 1, 0;

1998 VL<sub>33</sub>, 8, 2, 1; 1998 VT<sub>54</sub>, 10, 2, 28; 1998 VX<sub>54</sub>, 5, 1, 0; 1998 VY<sub>54</sub>, 9, 2, 105; 1998 WL<sub>3</sub>, 1, 0; 1998 WM<sub>3</sub>, 5, 1, 0; 1998 WY<sub>4</sub>, 7, 1, 0; 1998 WS<sub>6</sub>, 4, 1, 0; 1998 WH<sub>13</sub>, 4, 1, 0; 1998 WY<sub>16</sub>, 8, 2, 29; 1998 WW<sub>18</sub>, 5, 1, 0; 1998 WE<sub>23</sub>, 9, 2, 28; 1998 WD<sub>24</sub>, 5, 1, 0; 1998 WH<sub>31</sub>, 5, 1, 0; 1998 XJ<sub>4</sub>, 1, 0; 1998 XT<sub>10</sub>, 5, 1, 0; 1998 XZ<sub>12</sub>, 8, 2, 22; 1998 XW<sub>28</sub>, 4, 1, 0; 1998 XN<sub>30</sub>, 4, 1, 0; 1998 XO<sub>35</sub>, 4, 1, 0; 1998 XN<sub>40</sub>, 5, 1, 0; 1998 XP<sub>40</sub>, 5, 1, 0; 1998 XK<sub>44</sub>, 10, 2, 1; 1998 XD<sub>48</sub>, 4, 1, 0; 1998 XV<sub>52</sub>, 9, 2, 28; 1998 XL<sub>60</sub>, 5, 1, 0; 1998 XD<sub>78</sub>, 7, 2, 5; 1998 XG<sub>91</sub>, 8, 2, 2; 1998 XW<sub>96</sub>, 2, 1; 1998 YO<sub>4</sub>, 4, 1, 0; 1998 YO<sub>9</sub>, 8, 2, 14; 1998 YU<sub>9</sub>, 5, 1, 0; 1998 YM<sub>13</sub>, 4, 1, 0; 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1999 CE<sub>74</sub>, 10, 2, 8; 1999 CM<sub>74</sub>, 9, 2, 8; 1999 CT<sub>81</sub>, 8, 2, 933; 1999 CR<sub>85</sub>, 9, 2, 551; 1999 CP<sub>86</sub>, 5, 1, 0; 1999 CW<sub>101</sub>, 10, 2, 5; 1999 CW<sub>102</sub>, 5, 1, 0; 1999 CG<sub>104</sub>, 5, 1, 0; 1999 CV<sub>110</sub>, 4, 1, 0; 1999 CM<sub>117</sub>, 4, 1, 0; 1999 CJ<sub>118</sub>, 14, 3, 9; 1999 CX<sub>119</sub>, 6, 2, 26; 1999 CY<sub>120</sub>, 4, 1, 0; 1999 CN<sub>121</sub>, 15, 3, 525; 1999 CN<sub>123</sub>, 5, 1, 0; 1999 CS<sub>133</sub>, 4, 1, 0; 1999 CL<sub>145</sub>, 5, 1, 0; 1999 CK<sub>147</sub>, 8, 2, 53; 1999 CS<sub>149</sub>, 9, 2, 7; 1999 CZ<sub>157</sub>, 5, 1, 0; 1999 DJ<sub>1</sub>, 5, 1, 0; 1999 DL<sub>1</sub>, 5, 1, 0; 1999 DC<sub>3</sub>, 5, 1, 0; 1999 DY<sub>6</sub>, 5, 1, 0; 1999 EH<sub>7</sub>, 2, 25; 1999 EJ<sub>5</sub>, 1, 0; 1999 ED<sub>7</sub>, 14, 3, 9; 1999 EX<sub>2</sub>, 5, 1, 0; 1999 EP<sub>3</sub>, 15, 3, 9; 1999 EQ<sub>3</sub>, 10, 2, 4; 1999 EP<sub>4</sub>, 5, 1, 0; 1999 EJ<sub>10</sub>, 10, 2, 7; 1999 EB<sub>8</sub>, 19, 4, 70; 1999 FB<sub>3</sub>, 10, 2, 2; 1999 FT<sub>5</sub>, 5, 1, 0; 1999 FH<sub>6</sub>, 15, 3, 7; 1999 FX<sub>6</sub>, 5, 1, 0; 1999 FZ<sub>6</sub>, 8, 2, 9; 1999 FF<sub>7</sub>, 10, 2, 9; 1999 FS<sub>7</sub>, 23, 5, 13; 1999 FF<sub>8</sub>, 9, 2, 7; 1999 FS<sub>8</sub>, 13, 3, 9; 1999 FN<sub>9</sub>, 9, 1, 0; 1999 FQ<sub>9</sub>, 4, 1, 0; 1999 FE<sub>10</sub>, 4, 1, 0; 1999 FF<sub>10</sub>, 4, 1, 0; 1999 FZ<sub>10</sub>, 19, 4, 36; 1999 FP<sub>17</sub>, 4, 1, 0; 1999 FA<sub>18</sub>, 3, 1, 0; 1999 FF<sub>18</sub>, 23, 4, 10; 1999 FL<sub>18</sub>, 6, 2, 1; 1999 FJ<sub>19</sub>, 12, 2, 4; 1999 FK<sub>19</sub>, 10, 2, 4; 1999 FT<sub>20</sub>, 18, 3, 9; 1999 FF<sub>21</sub>, 3, 1, 0; 1999 FN<sub>21</sub>, 25, 4, 11; 1999 FQ<sub>22</sub>, 4, 1, 0; 1999 FK<sub>24</sub>, 10, 2, 6; 1999 FM<sub>24</sub>, 8, 2, 5; 1999 FG<sub>25</sub>, 9, 2, 5; 1999 FH<sub>25</sub>, 3, 1, 0; 1999 FR<sub>25</sub>, 3, 1, 0; 1999 FY<sub>25</sub>, 13, 3, 9; 1999 FZ<sub>25</sub>, 3, 1, 0; 1999 FS<sub>26</sub>, 4, 1, 0; 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1, 0; 1999 HJ<sub>1</sub>, 5, 1, 0; 1999 HN<sub>1</sub>, 12, 3, 11; 1999 HT<sub>1</sub>, 3, 1, 0; 1999 HD<sub>2</sub>, 10, 2, 5; 1999 HG<sub>2</sub>, 16, 4, 9; 1999 HH<sub>2</sub>, 4, 1, 0; 1999 HK<sub>2</sub>, 5, 1, 0; 1999 HN<sub>2</sub>, 9, 2, 16; 1999 HO<sub>2</sub>, 6, 2, 2; 1999 HV<sub>2</sub>, 10, 2, 3; 1999 HF<sub>3</sub>, 23, 5, 58; 1999 HV<sub>3</sub>, 9, 2, 1031; 1999 HR<sub>4</sub>, 17, 4, 9; 1999 HE<sub>5</sub>, 4, 1, 0; 1999 HZ<sub>6</sub>, 13, 3, 9; 1999 HY<sub>7</sub>, 16, 4, 9; 1999 HA<sub>8</sub>, 10, 2, 4; 1999 HN<sub>8</sub>, 15, 3, 9; 1999 HR<sub>8</sub>, 14, 3, 9; 1999 HC<sub>9</sub>, 15, 3, 12; 1999 HG<sub>9</sub>, 9, 2, 3; 1999 HQ<sub>9</sub>, 18, 3, 3; 1999 HT<sub>9</sub>, 3, 1, 0; 1999 HC<sub>10</sub>, 12, 3, 9; 1999 HR<sub>10</sub>, 4, 1, 0; 1999 HL<sub>11</sub>, 5, 1, 0; 1999 HN<sub>11</sub>, 12, 3, 7; 1999 HO<sub>11</sub>, 13, 3, 9; 1999 HQ<sub>11</sub>, 5, 1, 0; 1999 JE<sub>5</sub>, 1, 0; 1999 JH<sub>3</sub>, 3, 1, 0; 1999 JJ<sub>1</sub>, 16, 4, 40; 1999 JM<sub>1</sub>, 10, 2, 3; 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1999 NO<sub>13</sub>, 13, 3, 9; 1999 NT<sub>14</sub>, 4, 1, 0; 1999 NO<sub>1</sub>, 4, 1, 0; 1999 NC<sub>2</sub>, 3, 1, 0; 1999 ND<sub>2</sub>, 5, 1, 0; 1999 NF<sub>2</sub>, 14, 3, 7; 1999 NC<sub>3</sub>, 13, 3, 9; 1999 NO<sub>3</sub>, 8, 2, 4; 1999 NK<sub>4</sub>, 11, 3, 9; 1999 NL<sub>4</sub>, 15, 3, 9; 1999 NT<sub>4</sub>, 5, 1, 0; 1999 NW<sub>4</sub>, 5, 1, 0; 1999 NG<sub>5</sub>, 5, 1, 0; 1999 NZ<sub>6</sub>, 4, 1, 0; 1999 NA<sub>7</sub>, 4, 1, 0; 1999 NB<sub>7</sub>, 9, 2, 12; 1999 NC<sub>7</sub>, 5, 1, 0; 1999 NU<sub>7</sub>, 9, 2, 1; 1999 NK<sub>8</sub>, 7, 2, 2; 1999 NL<sub>8</sub>, 5, 1, 0; 1999 NP<sub>8</sub>, 14, 3, 11; 1999 NS<sub>8</sub>, 4, 1, 0; 1999 NB<sub>9</sub>, 4, 1, 0; 1999 NJ<sub>9</sub>, 12, 3, 11; 1999 NM<sub>9</sub>, 3, 1, 0; 1999 NS<sub>9</sub>, 8, 2, 4; 1999 NV<sub>9</sub>, 5, 1, 0; 1999 NW<sub>9</sub>, 9, 2, 1; 1999 NA<sub>10</sub>, 18, 4, 9; 1999 NG<sub>10</sub>, 3, 1, 0; 1999 NR<sub>10</sub>, 15, 3, 63; 1999 NH<sub>11</sub>, 13, 3, 462; 1999 NL<sub>11</sub>, 10, 2, 1; 1999 NQ<sub>11</sub>, 10, 2, 1; 1999 ND<sub>12</sub>, 3, 1, 0; 1999 NM<sub>12</sub>, 5, 1, 0; 1999 NO<sub>12</sub>, 9, 2, 6; 1999 NH<sub>13</sub>, 5, 1, 0; 1999 NS<sub>13</sub>, 29, 5, 5; 1999 NQ<sub>14</sub>, 5, 1, 0; 1999 ND<sub>16</sub>, 4, 1, 0; 1999 NO<sub>16</sub>, 5, 1, 0; 1999 NP<sub>17</sub>, 9, 2, 7; 1999 NH<sub>18</sub>, 10, 2, 7; 1999 NS<sub>18</sub>, 14, 3, 11; 1999 NL<sub>19</sub>, 4, 1, 0; 1999 NK<sub>20</sub>, 4, 1, 0; 1999 NS<sub>20</sub>, 17, 4, 9; 1999 ND<sub>21</sub>, 4, 1, 0; 1999 NW<sub>21</sub>, 13, 3, 9; 1999 NV<sub>22</sub>, 10, 2, 1; 1999 NF<sub>23</sub>, 18, 4, 9; 1999 NH<sub>23</sub>, 3, 1, 0; 1999 NO<sub>23</sub>, 9, 2, 9; 1999 NG<sub>24</sub>, 4, 1, 0; 1999 NM<sub>24</sub>, 10, 2, 7; 1999 NA<sub>26</sub>, 5, 1, 0; 1999 NT<sub>27</sub>, 24, 5, 13; 1999 NZ<sub>29</sub>, 4, 1, 0; 1999 NE<sub>30</sub>, 5, 1, 0; 1999 NF<sub>30</sub>, 14, 3, 32; 1999 NW<sub>31</sub>, 4, 1, 0; 1999 NX<sub>31</sub>, 15, 3, 9; 1999 NC<sub>32</sub>, 10, 2, 7; 1999 NJ<sub>32</sub>, 15, 3, 9; 1999 NU<sub>32</sub>, 5, 1, 0; 1999 NR<sub>34</sub>, 9, 2, 5; 1999 NW<sub>34</sub>, 5, 1, 0; 1999 NA<sub>35</sub>, 28, 6, 916; 1999 NZ<sub>35</sub>, 12, 3, 12; 1999 NS<sub>36</sub>, 4, 1, 0; 1999 NY<sub>36</sub>, 9, 2, 865; 1999 NM<sub>37</sub>, 5, 1, 0; 1999 NP<sub>37</sub>, 10, 2, 7; 1999 NR<sub>38</sub>, 20, 4, 9; 1999 NT<sub>38</sub>, 8, 2, 1; 1999 NC<sub>39</sub>, 8, 2, 4; 1999 ND<sub>39</sub>, 10, 2, 1; 1999 NQ<sub>39</sub>, 5, 1, 0; 1999 NX<sub>40</sub>, 10, 2, 1; 1999 NA<sub>41</sub>, 14, 2, 7; 1999 NC<sub>41</sub>, 9, 2, 1; 1999 NV<sub>41</sub>, 5, 1, 0; 1999 ND<sub>42</sub>, 9, 2, 24; 1999 NK<sub>42</sub>, 14, 3, 11; 1999 NR<sub>42</sub>, 4, 1, 0; 1999 NT<sub>42</sub>, 3, 1, 0; 1999 NV<sub>42</sub>, 5, 1, 0; 1999 NH<sub>43</sub>, 9, 2, 26; 1999 NR<sub>43</sub>, 5, 1, 0; 1999 NJ<sub>44</sub>, 5, 1, 0; 1999 NQ<sub>44</sub>, 5, 1, 0; 1999 NU<sub>44</sub>, 5, 1, 0; 1999 ND<sub>45</sub>, 5, 1, 0; 1999 NO<sub>45</sub>, 5, 1, 0; 1999 NF<sub>47</sub>, 4, 1, 0; 1999 NL<sub>47</sub>, 14, 3, 36; 1999 ND<sub>48</sub>, 4, 1, 0; 1999 NE<sub>48</sub>, 5, 1, 0; 1999 NF<sub>48</sub>, 10, 2, 1; 1999 NL<sub>48</sub>, 4, 1, 0; 1999 NU<sub>48</sub>, 4, 1, 0; 1999 NY<sub>48</sub>, 5, 1, 0; 1999 NC<sub>49</sub>, 5, 1, 0; 1999 NH<sub>49</sub>, 13, 3, 402; 1999 NL<sub>49</sub>, 13, 3, 10; 1999 NS<sub>49</sub>, 4, 1, 0; 1999 NB<sub>50</sub>, 9, 2, 22; 1999 ND<sub>50</sub>, 7, 2, 889; 1999 NK<sub>50</sub>, 9, 2, 2; 1999 NM<sub>50</sub>, 5, 1, 0; 1999 NS<sub>50</sub>, 10, 2, 30; 1999 NV<sub>50</sub>, 9, 2, 58; 1999 NZ<sub>50</sub>, 14, 3, 39; 1999 NA<sub>52</sub>, 5, 1, 0; 1999 NR<sub>52</sub>, 19, 4, 9; 1999 NU<sub>52</sub>, 3, 1, 0; 1999 NZ<sub>52</sub>, 14, 3, 9; 1999 NB<sub>53</sub>, 19, 4, 9; 1999 NL<sub>53</sub>, 14, 3, 58; 1999 NS<sub>53</sub>, 4, 1, 0; 1999 NT<sub>53</sub>, 14, 3, 9; 1999 NB<sub>54</sub>, 8, 2, 1; 1999 NF<sub>54</sub>, 14, 3, 11; 1999 NV<sub>54</sub>, 3, 1, 0; 1999 NC<sub>55</sub>, 19, 4, 9; 1999 NF<sub>55</sub>, 9, 2, 1; 1999 NM<sub>55</sub>, 5, 1, 0; 1999 NS<sub>55</sub>, 4, 1, 0; 1999 NY<sub>55</sub>, 22, 5, 886; 1999 NZ<sub>55</sub>, 15, 3, 11; 1999 ND<sub>56</sub>, 8, 2, 8; 1999 NF<sub>56</sub>, 4, 1, 0; 1999 NK<sub>56</sub>, 15, 3, 11; 1999 NU<sub>56</sub>, 5, 1, 0; 1999 ND<sub>57</sub>, 8, 2, 1; 1999 NF<sub>57</sub>, 8, 2, 1; 1999 NJ<sub>57</sub>, 5, 1, 0; 1999 NM<sub>57</sub>, 4, 1, 0; 1999 NR<sub>57</sub>, 5, 1, 0; 1999 NH<sub>58</sub>, 5, 1, 0; 1999 NO<sub>58</sub>, 5, 1, 0; 1999 NT<sub>58</sub>, 14, 3, 139; 1999 NX<sub>58</sub>, 4, 1, 0; 1999 NP<sub>59</sub>, 18, 4, 60; 1999 NR<sub>59</sub>, 3, 1, 0; 1999 NN<sub>60</sub>, 5, 1, 0; 1999 NR<sub>60</sub>, 5, 1, 0; 1999 NP<sub>61</sub>, 4, 1, 0; 1999 NM<sub>62</sub>, 8, 2, 3; 1999 NP<sub>62</sub>, 10, 2, 29; 1999 NY<sub>62</sub>, 10, 2, 1; 1999 NB<sub>63</sub>, 9, 2, 11; 1999 NJ<sub>63</sub>, 3, 1, 0; 1999 NJ<sub>64</sub>, 14, 3, 9; 1999 NP<sub>64</sub>, 5, 1, 0; 1999 OB<sub>3</sub>, 1, 0; 1999 OO<sub>5</sub>, 1, 0; 1999 OQ<sub>5</sub>, 1, 0; 1999 OX<sub>5</sub>, 15, 3, 896; 1999 OF<sub>1</sub>, 18, 3, 4; 1999 OR<sub>1</sub>, 5, 1, 0; 1999 OE<sub>2</sub>, 10, 2, 1; 1999 OJ<sub>2</sub>, 4, 1, 0; 1999 OB<sub>3</sub>, 5, 1, 0; 1999 OH<sub>3</sub>, 1, 0; 1999 PG<sub>1</sub>, 19, 4, 10; 1999 PV<sub>5</sub>, 5, 1, 0; 1999 PH<sub>1</sub>, 14, 3, 9; 1999 PM<sub>1</sub>, 12, 3, 919; 1999 PQ<sub>1</sub>, 5, 1, 0; 1999 PN<sub>3</sub>, 4, 1, 0; 1999 PU<sub>3</sub>, 3, 1, 0; 1999 PA<sub>4</sub>, 4, 1, 0; 1999 PP<sub>4</sub>, 9, 2, 11; 1999 PT<sub>4</sub>, 10, 2, 1; 1999 PV<sub>5</sub>, 3, 1, 0; 1999 PF<sub>6</sub>, 11, 2, 412; 1999 PH<sub>8</sub>, 3, 1, 0; 1999 QB<sub>5</sub>, 5, 1, 0; 1999 QG<sub>7</sub>, 7, 2, 12; 1999 QO<sub>15</sub>, 3, 9; 1999 QU<sub>8</sub>, 8, 2, 417; 1999 QN<sub>2</sub>, 4, 1, 0; 1999 QB<sub>3</sub>, 4, 1, 0; 1999 RS<sub>5</sub>, 5, 1, 0; 1999 RN<sub>2</sub>, 17, 4, 9; 1999 RR<sub>2</sub>, 10, 2, 1; 1999 RL<sub>3</sub>, 5, 1, 0; 1999 RS<sub>3</sub>, 5, 1, 0; 1999 RX<sub>3</sub>, 8, 2, 10; 1999 RA<sub>4</sub>, 3, 1, 0;

1999 RG<sub>4</sub>, 5, 1, 0; 1999 RH<sub>4</sub>, 20, 4, 89; 1999 RR<sub>6</sub>, 4, 1, 0; 1999 RU<sub>6</sub>, 4, 1, 0; 1999 RX<sub>6</sub>, 4, 1, 0; 1999 RF<sub>8</sub>, 4, 1, 0; 1999 RR<sub>8</sub>, 3, 1, 0; 1999 RY<sub>8</sub>, 4, 1, 0; 1999 RM<sub>9</sub>, 4, 1, 0; 1999 RJ<sub>10</sub>, 10, 2, 9; 1999 RM<sub>10</sub>, 5, 1, 0; 1999 RQ<sub>10</sub>, 5, 1, 0; 1999 RT<sub>10</sub>, 9, 2, 4; 1999 RW<sub>10</sub>, 18, 2, 4; 1999 RB<sub>11</sub>, 3, 1, 0; 1999 RE<sub>11</sub>, 5, 1, 0; 1999 RF<sub>11</sub>, 3, 1, 0; 1999 RG<sub>11</sub>, 5, 1, 0; 1999 RT<sub>11</sub>, 4, 1, 0; 1999 RW<sub>11</sub>, 4, 1, 0; 1999 RX<sub>11</sub>, 4, 1, 0; 1999 RE<sub>12</sub>, 15, 2, 5; 1999 RM<sub>12</sub>, 3, 1, 0; 1999 RU<sub>12</sub>, 8, 2, 7; 1999 RX<sub>12</sub>, 5, 1, 0; 1999 RG<sub>13</sub>, 4, 1, 0; 1999 RP<sub>13</sub>, 5, 1, 0; 1999 RQ<sub>13</sub>, 8, 1, 0; 1999 RC<sub>14</sub>, 10, 1, 0; 1999 RD<sub>14</sub>, 16, 1, 0; 1999 RO<sub>14</sub>, 10, 2, 1; 1999 RX<sub>14</sub>, 4, 1, 0; 1999 RZ<sub>14</sub>, 13, 1, 0; 1999 RF<sub>15</sub>, 7, 1, 0; 1999 RG<sub>15</sub>, 13, 1, 0; 1999 RH<sub>15</sub>, 3, 1, 0; 1999 RV<sub>15</sub>, 4, 1, 0; 1999 RB<sub>16</sub>, 4, 1, 0; 1999 RE<sub>16</sub>, 14, 3, 11; 1999 RJ<sub>16</sub>, 14, 3, 9; 1999 RN<sub>16</sub>, 5, 1, 0; 1999 RX<sub>16</sub>, 5, 1, 0; 1999 RY<sub>16</sub>, 12, 3, 829; 1999 RZ<sub>18</sub>, 9, 1, 0; 1999 RD<sub>19</sub>, 3, 1, 0; 1999 RF<sub>19</sub>, 4, 1, 0; 1999 RQ<sub>19</sub>, 4, 1, 0; 1999 RY<sub>20</sub>, 14, 1, 0; 1999 RN<sub>21</sub>, 3, 1, 0; 1999 RB<sub>22</sub>, 5, 1, 0; 1999 RK<sub>22</sub>, 10, 2, 1; 1999 RY<sub>22</sub>, 4, 1, 0; 1999 RH<sub>23</sub>, 4, 1, 0; 1999 RN<sub>24</sub>, 3, 1, 0; 1999 RL<sub>26</sub>, 9, 2, 1; 1999 RQ<sub>26</sub>, 5, 1, 0; 1999 RU<sub>27</sub>, 9, 2, 12; 1999 RY<sub>27</sub>, 5, 1, 0; 1999 RB<sub>28</sub>, 5, 1, 0; 1999 RK<sub>29</sub>, 5, 1, 0; 1999 RS<sub>31</sub>, 3, 1, 0; 1999 RJ<sub>32</sub>, 5, 1, 0; 1999 RW<sub>32</sub>, 5, 1, 0; 1999 RX<sub>32</sub>, 12, 2, 1; 1999 RC<sub>33</sub>, 4, 1, 0; 1999 RT<sub>33</sub>, 10, 2, 11; 1999 RM<sub>37</sub>, 7, 2, 16; 1999 RV<sub>38</sub>, 5, 1, 0; 1999 RY<sub>38</sub>, 13, 2, 1; 1999 RC<sub>39</sub>, 3, 1, 0; 1999 RD<sub>39</sub>, 3, 1, 0; 1999 RT<sub>39</sub>, 15, 3, 9; 1999 RJ<sub>40</sub>, 4, 1, 0; 1999 RK<sub>40</sub>, 5, 1, 0; 1999 RM<sub>40</sub>, 5, 1, 0; 1999 RU<sub>40</sub>, 8, 2, 31; 1999 RP<sub>41</sub>, 4, 1, 0; 1999 RR<sub>41</sub>, 4, 1, 0; 1999 RD<sub>42</sub>, 5, 1, 0; 1999 RT<sub>42</sub>, 8, 2, 59; 1999 RW<sub>42</sub>, 13, 3, 63; 1999 RK<sub>43</sub>, 3, 1, 0; 1999 RU<sub>43</sub>, 4, 1, 0; 1999 RV<sub>43</sub>, 5, 1, 0; 1999 RF<sub>44</sub>, 6, 2, 2; 1999 RU<sub>44</sub>, 5, 1, 0; 1999 RG<sub>45</sub>, 14, 3, 11; 1999 RP<sub>46</sub>, 9, 2, 95; 1999 RC<sub>47</sub>, 3, 1, 0; 1999 RD<sub>47</sub>, 5, 1, 0; 1999 RH<sub>47</sub>, 4, 1, 0; 1999 RL<sub>47</sub>, 8, 2, 93; 1999 RT<sub>47</sub>, 15, 3, 9; 1999 RU<sub>47</sub>, 5, 1, 0; 1999 RD<sub>48</sub>, 27, 6, 478; 1999 RF<sub>48</sub>, 5, 1, 0; 1999 RD<sub>49</sub>, 10, 2, 6; 1999 RH<sub>49</sub>, 4, 1, 0; 1999 RW<sub>49</sub>, 5, 1, 0; 1999 RD<sub>50</sub>, 4, 1, 0; 1999 RF<sub>50</sub>, 5, 1, 0; 1999 RW<sub>51</sub>, 9, 2, 79; 1999 RB<sub>52</sub>, 14, 3, 9; 1999 RW<sub>52</sub>, 3, 1, 0; 1999 RQ<sub>53</sub>, 12, 3, 9; 1999 RN<sub>54</sub>, 3, 1, 0; 1999 RW<sub>54</sub>, 14, 3, 28; 1999 RK<sub>55</sub>, 14, 3, 9; 1999 RP<sub>55</sub>, 5, 1, 0; 1999 RY<sub>55</sub>, 3, 1, 0; 1999 RD<sub>56</sub>, 23, 5, 595; 1999 RQ<sub>56</sub>, 4, 1, 0; 1999 RH<sub>57</sub>, 9, 2, 1; 1999 RQ<sub>57</sub>, 5, 1, 0; 1999 RF<sub>58</sub>, 3, 1, 0; 1999 RD<sub>58</sub>, 5, 1, 0; 1999 RD<sub>59</sub>, 4, 1, 0; 1999 RU<sub>59</sub>, 4, 1, 0; 1999 RQ<sub>60</sub>, 4, 1, 0; 1999 RU<sub>60</sub>, 4, 1, 0; 1999 RK<sub>61</sub>, 5, 1, 0; 1999 RL<sub>61</sub>, 10, 2, 2; 1999 RD<sub>62</sub>, 4, 1, 0; 1999 RP<sub>62</sub>, 5, 1, 0; 1999 RA<sub>63</sub>, 5, 1, 0; 1999 RO<sub>63</sub>, 8, 2, 1; 1999 RD<sub>65</sub>, 5, 1, 0; 1999 RV<sub>66</sub>, 3, 1, 0; 1999 RH<sub>67</sub>, 8, 1, 0; 1999 RU<sub>67</sub>, 4, 1, 0; 1999 RW<sub>70</sub>, 15, 3, 9; 1999 RG<sub>71</sub>, 10, 2, 12; 1999 RN<sub>72</sub>, 3, 1, 0; 1999 RP<sub>72</sub>, 8, 2, 831; 1999 RU<sub>72</sub>, 6, 2, 29; 1999 RO<sub>73</sub>, 4, 1, 0; 1999 RE<sub>74</sub>, 14, 3, 9; 1999 RQ<sub>74</sub>, 3, 1, 0; 1999 RV<sub>74</sub>, 4, 1, 0; 1999 RY<sub>75</sub>, 4, 1, 0; 1999 RF<sub>76</sub>, 4, 1, 0; 1999 RR<sub>80</sub>, 5, 1, 0; 1999 RO<sub>81</sub>, 21, 5, 860; 1999 RY<sub>83</sub>, 3, 1, 0; 1999 RP<sub>84</sub>, 4, 1, 0; 1999 RA<sub>87</sub>, 4, 1, 0; 1999 RP<sub>89</sub>, 4, 1, 0; 1999 RU<sub>90</sub>, 8, 2, 42; 1999 RP<sub>91</sub>, 9, 2, 3; 1999 RB<sub>92</sub>, 9, 2, 23; 1999 RO<sub>92</sub>, 10, 2, 1; 1999 RN<sub>93</sub>, 4, 1, 0; 1999 RK<sub>94</sub>, 4, 1, 0; 1999 RN<sub>94</sub>, 5, 1, 0; 1999 RA<sub>95</sub>, 7, 2, 1; 1999 RE<sub>95</sub>, 3, 1, 0; 1999 RU<sub>96</sub>, 3, 1, 0; 1999 RP<sub>99</sub>, 9, 2, 87; 1999 RQ<sub>99</sub>, 4, 1, 0; 1999 RZ<sub>99</sub>, 5, 1, 0; 1999 RC<sub>100</sub>, 3, 1, 0; 1999 RG<sub>100</sub>, 3, 1, 0; 1999 RL<sub>100</sub>, 4, 1, 0; 1999 RN<sub>100</sub>, 14, 3, 11; 1999 RO<sub>100</sub>, 7, 1, 0; 1999 RS<sub>100</sub>, 12, 3, 9; 1999 RT<sub>100</sub>, 25, 6, 63; 1999 RZ<sub>100</sub>, 12, 3, 894; 1999 RM<sub>101</sub>, 3, 1, 0; 1999 RD<sub>102</sub>, 15, 3, 12; 1999 RE<sub>102</sub>, 3, 1, 0; 1999 RF<sub>102</sub>, 5, 1, 0; 1999 RG<sub>102</sub>, 27, 6, 482; 1999 RJ<sub>102</sub>, 10, 2, 2; 1999 RR<sub>102</sub>, 11, 3, 61; 1999 RS<sub>102</sub>, 14, 3, 896; 1999 RA<sub>103</sub>, 9, 2, 3; 1999 RF<sub>103</sub>, 3, 1, 0; 1999 RC<sub>104</sub>, 5, 1, 0; 1999 RQ<sub>104</sub>, 5, 1, 0; 1999 RD<sub>105</sub>, 3, 1, 0; 1999 RE<sub>105</sub>, 17, 4, 79; 1999 RY<sub>105</sub>, 5, 1, 0; 1999 RH<sub>107</sub>, 5, 1, 0; 1999 RN<sub>107</sub>, 5, 1, 0; 1999 RV<sub>107</sub>, 5, 1, 0; 1999 RK<sub>108</sub>, 5, 1, 0; 1999 RF<sub>109</sub>, 5, 1, 0; 1999 RL<sub>109</sub>, 5, 1, 0; 1999 RH<sub>110</sub>, 7, 2, 1; 1999 RH<sub>111</sub>, 3, 1, 0; 1999 RK<sub>111</sub>, 4, 1, 0; 1999 RM<sub>111</sub>, 5, 1, 0; 1999 RO<sub>111</sub>, 5, 1, 0; 1999 RP<sub>111</sub>, 15, 3, 94; 1999 RS<sub>111</sub>, 12, 3, 88; 1999 RU<sub>111</sub>, 4, 1, 0; 1999 RV<sub>111</sub>, 14, 3, 1279; 1999 RW<sub>111</sub>, 4, 1, 0; 19

1999 RB<sub>129</sub>, 5, 1, 0; 1999 RO<sub>129</sub>, 5, 1, 0; 1999 RQ<sub>129</sub>, 4, 1, 0; 1999 RY<sub>129</sub>, 5, 1, 0; 1999 RK<sub>130</sub>, 5, 1, 0; 1999 RM<sub>130</sub>, 15, 3, 11; 1999 RR<sub>130</sub>, 10, 2, 11; 1999 RU<sub>130</sub>, 5, 1, 0; 1999 RQ<sub>131</sub>, 3, 1, 0; 1999 RS<sub>131</sub>, 3, 1, 0; 1999 RD<sub>132</sub>, 5, 1, 0; 1999 RF<sub>132</sub>, 4, 1, 0; 1999 RJ<sub>132</sub>, 9, 2, 61; 1999 RU<sub>132</sub>, 4, 1, 0; 1999 RC<sub>133</sub>, 3, 1, 0; 1999 RG<sub>133</sub>, 14, 3, 32; 1999 RH<sub>133</sub>, 4, 1, 0; 1999 RI<sub>133</sub>, 10, 2, 2; 1999 RM<sub>133</sub>, 9, 2, 831; 1999 RU<sub>133</sub>, 4, 1, 0; 1999 RV<sub>133</sub>, 4, 1, 0; 1999 RZ<sub>133</sub>, 3, 1, 0; 1999 RE<sub>134</sub>, 3, 1, 0; 1999 RF<sub>134</sub>, 3, 1, 0; 1999 RJ<sub>134</sub>, 4, 1, 0; 1999 RK<sub>134</sub>, 15, 3, 9; 1999 RL<sub>134</sub>, 4, 1, 0; 1999 RM<sub>134</sub>, 3, 1, 0; 1999 RN<sub>134</sub>, 4, 1, 0; 1999 RT<sub>134</sub>, 3, 1, 0; 1999 RU<sub>134</sub>, 10, 1, 0; 1999 RW<sub>134</sub>, 4, 1, 0; 1999 RY<sub>134</sub>, 5, 1, 0; 1999 RC<sub>135</sub>, 5, 1, 0; 1999 RD<sub>135</sub>, 5, 1, 0; 1999 RE<sub>135</sub>, 10, 2, 1; 1999 RG<sub>135</sub>, 5, 1, 0; 1999 RH<sub>135</sub>, 22, 5, 89; 1999 RI<sub>135</sub>, 5, 1, 0; 1999 RJ<sub>135</sub>, 21, 5, 425; 1999 RX<sub>135</sub>, 4, 1, 0; 1999 RJ<sub>136</sub>, 10, 2, 23; 1999 RM<sub>136</sub>, 5, 1, 0; 1999 RO<sub>136</sub>, 5, 1, 0; 1999 RP<sub>136</sub>, 5, 1, 0; 1999 RF<sub>137</sub>, 4, 1, 0; 1999 RG<sub>137</sub>, 5, 1, 0; 1999 RH<sub>137</sub>, 15, 4, 62; 1999 RI<sub>137</sub>, 5, 1, 0; 1999 RP<sub>137</sub>, 14, 3, 39; 1999 RR<sub>137</sub>, 5, 1, 0; 1999 RW<sub>137</sub>, 12, 3, 29; 1999 RA<sub>138</sub>, 14, 3, 38; 1999 RC<sub>138</sub>, 5, 1, 0; 1999 RD<sub>138</sub>, 4, 1, 0; 1999 RJ<sub>138</sub>, 5, 1, 0; 1999 RK<sub>138</sub>, 5, 1, 0; 1999 RB<sub>139</sub>, 5, 1, 0; 1999 RD<sub>139</sub>, 5, 1, 0; 1999 RJ<sub>139</sub>, 5, 1, 0; 1999 RK<sub>139</sub>, 4, 1, 0; 1999 RR<sub>139</sub>, 5, 1, 0; 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1999 TJ<sub>221</sub>, 4, 1, 0; 1999 TU<sub>222</sub>, 8, 2, 11; 1999 TZ<sub>222</sub>, 5, 1, 0; 1999 TB<sub>223</sub>, 4, 1, 0; 1999 TD<sub>223</sub>, 10, 2, 41; 1999 TS<sub>224</sub>, 7, 2, 5; 1999 TU<sub>228</sub>, 4, 1, 0; 1999 TV<sub>228</sub>, 16, 4, 860; 1999 TP<sub>231</sub>, 4, 1, 0; 1999 TT<sub>236</sub>, 18, 4, 53; 1999 TP<sub>237</sub>, 19, 5, 136; 1999 TM<sub>238</sub>, 4, 1, 0; 1999 TD<sub>239</sub>, 8, 2, 17; 1999 TJ<sub>240</sub>, 5, 1, 0; 1999 TK<sub>240</sub>, 5, 1, 0; 1999 TF<sub>243</sub>, 5, 1, 0; 1999 TS<sub>243</sub>, 4, 1, 0; 1999 TU<sub>243</sub>, 5, 1, 0; 1999 TD<sub>244</sub>, 4, 1, 0; 1999 TM<sub>244</sub>, 3, 1, 0; 1999 TP<sub>245</sub>, 4, 1, 0; 1999 TP<sub>247</sub>, 14, 3, 531; 1999 TX<sub>247</sub>, 3, 1, 0; 1999 TG<sub>248</sub>, 4, 1, 0; 1999 TK<sub>250</sub>, 3, 1, 0; 1999 TU<sub>251</sub>, 5, 1, 0; 1999 TO<sub>252</sub>, 20, 4, 25; 1999 TL<sub>253</sub>, 4, 1, 0; 1999 TH<sub>254</sub>, 16, 4, 102; 1999 TM<sub>254</sub>, 7, 2, 62; 1999 TX<sub>258</sub>, 6, 2, 3; 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1999 VV<sub>223</sub>, 14, 3, 84; 1999 VV<sub>223</sub>, 7, 2, 56; 1999 VG<sub>224</sub>, 8, 2, 56; 1999 VX<sub>224</sub>, 9, 2, 10; 1999 VQ<sub>225</sub>, 5, 1, 0; 1999 VN<sub>226</sub>, 4, 1, 0; 1999 VO<sub>226</sub>, 18, 4, 138; 1999 WS<sub>3</sub>, 4, 1, 0; 1999 WZ<sub>3</sub>, 5, 1, 0; 1999 WS<sub>4</sub>, 4, 1, 0; 1999 WL<sub>8</sub>, 5, 1, 0; 1999 WP<sub>9</sub>, 5, 1, 0; 1999 WX<sub>11</sub>, 10, 2, 26; 1999 WV<sub>17</sub>, 5, 1, 0; 1999 WG<sub>18</sub>, 4, 1, 0; 1999 WB<sub>20</sub>, 3, 1, 0; 1999 WW<sub>24</sub>, 3, 1, 0; 1999 WT<sub>25</sub>, 4, 1, 0; 1999 XL<sub>9</sub>, 2, 12; 1999 XS<sub>1</sub>, 5, 1, 0; 1999 XS<sub>2</sub>, 4, 1, 0; 1999 XK<sub>3</sub>, 9, 2, 39; 1999 XO<sub>6</sub>, 4, 1, 0; 1999 XG<sub>7</sub>, 8, 2, 41; 1999 XU<sub>9</sub>, 3, 1, 0; 1999 XJ<sub>10</sub>, 4, 1, 0; 1999 XP<sub>10</sub>,

4, 1, 0; 1999 XT<sub>11</sub>, 5, 1, 0; 1999 XH<sub>13</sub>, 24, 3, 26; 1999 XQ<sub>13</sub>, 22, 5, 567; 1999 XQ<sub>14</sub>, 5, 1, 0; 1999 XX<sub>17</sub>, 3, 1, 0; 1999 XS<sub>18</sub>, 5, 1, 0; 1999 XO<sub>19</sub>, 5, 1, 0; 1999 XA<sub>28</sub>, 5, 1, 0; 1999 XW<sub>35</sub>, 2, 1, 0; 1999 XU<sub>38</sub>, 11, 3, 11; 1999 XQ<sub>42</sub>, 8, 2, 12; 1999 XY<sub>42</sub>, 5, 1, 0; 1999 XS<sub>47</sub>, 5, 1, 0; 1999 XW<sub>52</sub>, 4, 1, 0; 1999 XU<sub>53</sub>, 4, 1, 0; 1999 XW<sub>54</sub>, 5, 1, 0; 1999 XP<sub>55</sub>, 5, 1, 0; 1999 XG<sub>58</sub>, 4, 1, 0; 1999 XC<sub>59</sub>, 3, 1, 0; 1999 XN<sub>59</sub>, 5, 1, 0; 1999 XY<sub>60</sub>, 8, 2, 2; 1999 XA<sub>63</sub>, 4, 1, 0; 1999 XT<sub>64</sub>, 5, 1, 0; 1999 XF<sub>73</sub>, 5, 1, 0; 1999 XG<sub>78</sub>, 8, 2, 58; 1999 XJ<sub>79</sub>, 5, 1, 0; 1999 XN<sub>96</sub>, 5, 1, 0; 1999 XQ<sub>96</sub>, 3, 1, 0; 1999 XT<sub>96</sub>, 4, 1, 0; 1999 XY<sub>103</sub>, 5, 1, 0; 1999 XR<sub>108</sub>, 5, 1, 0; 1999 XP<sub>115</sub>, 5, 1, 0; 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1, 0; 2000 DK<sub>68</sub>, 9, 2, 26; 2000 DU<sub>82</sub>, 5, 1, 0; 2000 DS<sub>86</sub>, 4, 1, 0; 2000 DU<sub>88</sub>, 3, 1, 0; 2000 DZ<sub>93</sub>, 8, 2, 33; 2000 DT<sub>96</sub>, 4, 1, 0; 2000 DR<sub>99</sub>, 8, 2, 7; 2000 DW<sub>99</sub>, 4, 1, 0; 2000 DW<sub>103</sub>, 4, 1, 0; 2000 DO<sub>107</sub>, 4, 1, 0; 2000 DP<sub>107</sub>, 10, 2, 7; 2000 DH<sub>111</sub>, 19, 3, 8; 2000 EX<sub>7</sub>, 4, 1, 0; 2000 EE<sub>11</sub>, 9, 2, 413; 2000 EO<sub>11</sub>, 7, 2, 477; 2000 EU<sub>11</sub>, 3, 1, 0; 2000 EJ<sub>14</sub>, 14, 3, 443; 2000 EX<sub>14</sub>, 4, 1, 0; 2000 EP<sub>20</sub>, 9, 2, 36; 2000 EC<sub>24</sub>, 4, 1, 0; 2000 ET<sub>32</sub>, 4, 1, 0; 2000 EQ<sub>36</sub>, 5, 1, 0; 2000 EL<sub>38</sub>, 9, 2, 447; 2000 EF<sub>40</sub>, 9, 2, 3; 2000 EB<sub>43</sub>, 9, 2, 6; 2000 EC<sub>46</sub>, 4, 1, 0; 2000 EQ<sub>47</sub>, 4, 1, 0; 2000 EJ<sub>48</sub>, 4, 1, 0; 2000 EA<sub>49</sub>, 10, 2, 7; 2000 EO<sub>49</sub>, 9, 2, 9; 2000 EN<sub>50</sub>, 12, 3, 48; 2000 EX<sub>50</sub>, 4, 1, 0; 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2000 LP<sub>28</sub>, 10, 2, 16; 2000 LQ<sub>28</sub>, 8, 2, 4; 2000 LR<sub>28</sub>, 5, 1, 0; 2000 LS<sub>28</sub>, 5, 1, 0; 2000 LW<sub>28</sub>, 3, 1, 0; 2000 LY<sub>28</sub>, 7, 2, 4; 2000 LA<sub>29</sub>, 8, 2, 9; 2000 LD<sub>29</sub>, 8, 2, 16; 2000 LE<sub>29</sub>, 14, 3, 14; 2000 LF<sub>29</sub>, 11, 3, 7; 2000 LG<sub>29</sub>, 15, 3, 14; 2000 LH<sub>29</sub>, 9, 2, 14; 2000 LM<sub>30</sub>, 5, 1, 0; 2000 LO<sub>30</sub>, 8, 2, 1094; 2000 LT<sub>30</sub>, 7, 2, 4; 2000 LU<sub>30</sub>, 3, 1, 0; 2000 LG<sub>31</sub>, 3, 1, 0; 2000 LT<sub>31</sub>, 3, 1, 0; 2000 LT<sub>31</sub>, 9, 2, 8; 2000 LZ<sub>31</sub>, 3, 1, 0; 2000 LP<sub>32</sub>, 5, 1, 0; 2000 LL<sub>33</sub>, 8, 2, 15; 2000 LL<sub>34</sub>, 9, 2, 8; 2000 LM<sub>34</sub>, 10, 2, 14; 2000 LO<sub>34</sub>, 3, 1, 0; 2000 LL<sub>35</sub>, 3, 1, 0; 2000 LM<sub>35</sub>, 14, 3, 36; 2000 LO<sub>35</sub>, 8, 2, 444; 2000 LR<sub>35</sub>, 5, 1, 0; 2000 LS<sub>35</sub>, 6, 2, 4; 2000 LV<sub>35</sub>, 9, 2, 15; 2000 LX<sub>35</sub>, 4, 1, 0; 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2000 NE<sub>27</sub>, 10, 2, 8; 2000 NK<sub>27</sub>, 4, 1, 0; 2000 NV<sub>27</sub>, 4, 1, 0; 2000 NC<sub>28</sub>, 8, 2, 8; 2000 NJ<sub>28</sub>, 3, 1, 0; 2000 NS<sub>28</sub>, 4, 1, 0; 2000 NC<sub>29</sub>, 4, 1, 0; 2000 ND<sub>29</sub>, 20, 4, 14; 2000 NE<sub>29</sub>, 18, 3, 9; 2000 OK<sub>9</sub>, 9, 2, 34; 2000 OL<sub>9</sub>, 2, 9; 2000 ON<sub>5</sub>, 5, 1, 0; 2000 OQ<sub>9</sub>, 9, 2, 8; 2000 OS<sub>5</sub>, 5, 1, 0; 2000 OV<sub>4</sub>, 4, 1, 0; 2000 OV<sub>1</sub>, 4, 1, 0; 2000 OP<sub>2</sub>, 3, 1, 0; 2000 OQ<sub>2</sub>, 20, 4, 1070; 2000 OY<sub>2</sub>, 5, 1, 0; 2000 OF<sub>3</sub>, 3, 1, 0; 2000 OG<sub>3</sub>, 9, 2, 5; 2000 OH<sub>3</sub>, 5, 1, 0; 2000 ON<sub>3</sub>, 8, 2, 8; 2000 OQ<sub>3</sub>, 4, 1, 0; 2000 OS<sub>3</sub>, 7, 2, 9; 2000 OT<sub>3</sub>, 4, 1, 0; 2000 OW<sub>3</sub>, 3, 1, 0; 2000 OE<sub>4</sub>, 4, 1, 0; 2000 OH<sub>4</sub>, 4, 1, 0; 2000 OK<sub>4</sub>, 3, 1, 0; 2000 OL<sub>4</sub>, 8, 2, 9; 2000 OO<sub>4</sub>, 4, 1, 0; 2000 OR<sub>4</sub>, 4, 1, 0; 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0; 2000 OC<sub>30</sub>, 4, 1, 0; 2000 OK<sub>30</sub>, 3, 1, 0; 2000 OX<sub>30</sub>, 5, 1, 0; 2000 OE<sub>31</sub>, 13, 3, 115; 2000 OS<sub>31</sub>, 8, 2, 556; 2000 OT<sub>31</sub>, 3, 1, 0; 2000 OY<sub>31</sub>, 3, 1, 0; 2000 OA<sub>32</sub>, 19, 4, 557; 2000 OM<sub>32</sub>, 3, 1, 0; 2000 OP<sub>32</sub>, 9, 2, 31; 2000 OU<sub>32</sub>, 5, 1, 0; 2000 OT<sub>33</sub>, 5, 1, 0; 2000 OH<sub>34</sub>, 4, 1, 0; 2000 OY<sub>34</sub>, 15, 3, 58; 2000 OF<sub>35</sub>, 5, 1, 0; 2000 ON<sub>35</sub>, 5, 1, 0; 2000 OO<sub>35</sub>, 8, 2, 29; 2000 OQ<sub>35</sub>, 10, 2, 6; 2000 OR<sub>35</sub>, 15, 3, 9; 2000 OS<sub>35</sub>, 13, 3, 9; 2000 OT<sub>35</sub>, 4, 1, 0; 2000 OB<sub>36</sub>, 9, 2, 34; 2000 OD<sub>36</sub>, 4, 1, 0; 2000 OH<sub>37</sub>, 3, 1, 0; 2000 OL<sub>37</sub>, 12, 3, 8; 2000 OM<sub>37</sub>, 14, 3, 82; 2000 ON<sub>37</sub>, 20, 4, 449; 2000 OQ<sub>37</sub>, 5, 1, 0; 2000 OY<sub>37</sub>, 5, 1, 0; 2000 OF<sub>38</sub>, 4, 1, 0; 2000 OK<sub>38</sub>, 8, 2, 5; 2000 OC<sub>39</sub>, 12, 3, 7; 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7; 2000 PE<sub>10</sub>, 4, 1, 0; 2000 PG<sub>10</sub>, 9, 2, 525; 2000 PJ<sub>10</sub>, 17, 4, 53; 2000 PK<sub>10</sub>, 9, 2, 7; 2000 PT<sub>10</sub>, 4, 1, 0; 2000 PJ<sub>11</sub>, 5, 1, 0; 2000 PL<sub>11</sub>, 8, 2, 9; 2000 PP<sub>11</sub>, 5, 1, 0; 2000 PT<sub>11</sub>, 5, 1, 0; 2000 PC<sub>12</sub>, 10, 3, 930; 2000 PJ<sub>12</sub>, 4, 1, 0; 2000 PM<sub>12</sub>, 9, 2, 9; 2000 PO<sub>12</sub>, 5, 1, 0; 2000 PQ<sub>12</sub>, 12, 3, 8; 2000 PT<sub>12</sub>, 5, 1, 0; 2000 PU<sub>12</sub>, 9, 2, 11; 2000 PV<sub>12</sub>, 4, 1, 0; 2000 PW<sub>12</sub>, 5, 1, 0; 2000 PX<sub>12</sub>, 4, 1, 0; 2000 PE<sub>15</sub>, 9, 2, 8; 2000 PS<sub>15</sub>, 14, 3, 499; 2000 PT<sub>15</sub>, 13, 3, 1070; 2000 PU<sub>15</sub>, 4, 1, 0; 2000 PE<sub>16</sub>, 19, 3, 8; 2000 PM<sub>17</sub>, 3, 1, 0; 2000 PF<sub>18</sub>, 4, 1, 0; 2000 PT<sub>19</sub>, 5, 1, 0; 2000 PW<sub>19</sub>, 3, 1, 0; 2000 PC<sub>20</sub>, 10, 2, 6; 2000 PD<sub>20</sub>, 14, 3, 14; 2000 PE<sub>20</sub>, 9, 2, 2; 2000 PJ<sub>20</sub>, 15, 3, 455; 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2000 QV<sub>11</sub>, 7, 2, 923; 2000 QC<sub>12</sub>, 5, 1, 0; 2000 QU<sub>14</sub>, 4, 1, 0; 2000 QV<sub>14</sub>, 8, 2, 8; 2000 QB<sub>16</sub>, 5, 1, 0; 2000 QP<sub>16</sub>, 4, 1, 0; 2000 QX<sub>16</sub>, 3, 1, 0; 2000 QJ<sub>17</sub>, 7, 2, 6; 2000 QL<sub>17</sub>, 14, 3, 559; 2000 QR<sub>17</sub>, 4, 1, 0; 2000 QB<sub>18</sub>, 5, 1, 0; 2000 QK<sub>18</sub>, 10, 2, 6; 2000 QR<sub>19</sub>, 5, 1, 0; 2000 QF<sub>20</sub>, 9, 2, 9; 2000 QN<sub>20</sub>, 8, 2, 1; 2000 QQ<sub>20</sub>, 5, 1, 0; 2000 QY<sub>20</sub>, 5, 1, 0; 2000 QE<sub>22</sub>, 5, 1, 0; 2000 QJ<sub>22</sub>, 12, 3, 15; 2000 QL<sub>22</sub>, 11, 3, 15; 2000 QP<sub>22</sub>, 8, 2, 6; 2000 QR<sub>22</sub>, 5, 1, 0; 2000 QT<sub>22</sub>, 7, 2, 9; 2000 QU<sub>22</sub>, 4, 1, 0; 2000 QM<sub>23</sub>, 8, 2, 6; 2000 QN<sub>23</sub>, 18, 4, 28; 2000 QS<sub>23</sub>, 3, 1, 0; 2000 QM<sub>24</sub>, 4, 1, 0; 2000 QN<sub>24</sub>, 10, 2, 4; 2000 QO<sub>24</sub>, 4, 1, 0; 2000 QS<sub>24</sub>, 5, 1, 0; 2000 QT<sub>24</sub>, 13, 3, 9; 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2000 QO<sub>54</sub>, 10, 2, 6; 2000 QQ<sub>54</sub>, 10, 2, 6; 2000 QS<sub>54</sub>, 4, 1, 0; 2000 QA<sub>55</sub>, 10, 2, 6; 2000 QF<sub>55</sub>, 4, 1, 0; 2000 QH<sub>55</sub>, 5, 1, 0; 2000 QO<sub>55</sub>, 5, 1, 0; 2000 QV<sub>55</sub>, 20, 5, 1064; 2000 QW<sub>55</sub>, 5, 1, 0; 2000 QZ<sub>55</sub>, 3, 1, 0; 2000 QO<sub>57</sub>, 5, 1, 0; 2000 QR<sub>57</sub>, 4, 1, 0; 2000 QS<sub>57</sub>, 9, 2, 524; 2000 QV<sub>57</sub>, 4, 1, 0; 2000 QX<sub>58</sub>, 5, 1, 0; 2000 QK<sub>59</sub>, 4, 1, 0; 2000 QA<sub>61</sub>, 5, 1, 0; 2000 QH<sub>61</sub>, 3, 1, 0; 2000 QO<sub>61</sub>, 3, 1, 0; 2000 QA<sub>62</sub>, 5, 1, 0; 2000 QB<sub>62</sub>, 5, 1, 0; 2000 QE<sub>62</sub>, 9, 2, 11; 2000 QG<sub>62</sub>, 13, 3, 86; 2000 QH<sub>62</sub>, 5, 1, 0; 2000 QJ<sub>62</sub>, 9, 2, 60; 2000 QK<sub>62</sub>, 5, 1, 0; 2000 QL<sub>62</sub>, 9, 2, 4; 2000 QM<sub>62</sub>, 22, 4, 1086; 2000 QO<sub>62</sub>, 3, 1, 0; 2000 QP<sub>62</sub>, 5, 1, 0; 2000 QU<sub>62</sub>, 4, 1, 0; 2000 QA<sub>63</sub>, 5, 1, 0; 2000 QC<sub>63</sub>, 9, 2, 8; 2000 QD<sub>63</sub>, 8, 2, 482; 2000 QE<sub>63</sub>, 15, 3, 78; 2000 QJ<sub>63</sub>, 3, 1, 0; 2000 QO<sub>63</sub>, 3, 1, 0; 2000 QR<sub>63</sub>, 14, 3, 86; 2000 QT<sub>63</sub>, 5, 1, 0; 2000 QV<sub>63</sub>, 4, 1, 0; 2000 QW<sub>63</sub>, 22, 5, 575; 2000 QY<sub>63</sub>, 5, 1, 0; 2000 QZ<sub>63</sub>, 9, 2, 18; 2000 QA<sub>64</sub>, 3, 1, 0; 2000 QB<sub>64</sub>, 4, 1, 0; 2000 QG<sub>64</sub>, 4, 1, 0; 2000 QJ<sub>64</sub>, 9, 2, 8; 2000 QK<sub>64</sub>, 10, 2, 26; 2000 QL<sub>64</sub>, 17, 4, 32; 2000 QO<sub>64</sub>, 4, 1, 0; 2000 QQ<sub>64</sub>, 20, 4, 86; 2000 QS<sub>64</sub>, 4, 1, 0; 2000 QT<sub>64</sub>, 5, 1, 0; 2000 QU<sub>64</sub>, 9, 2, 921; 2000 QV<sub>64</sub>, 10, 2, 26; 2000 QW<sub>64</sub>, 9, 2, 8; 2000 QY<sub>64</sub>, 29, 5, 1065; 2000 QZ<sub>64</sub>, 10, 2, 86; 2000 QA<sub>65</sub>, 3, 1, 0; 2000 QB<sub>65</sub>, 7, 2, 9; 2000 QE<sub>65</sub>, 10, 2, 26; 2000 QF<sub>65</sub>, 4, 1, 0; 2000 QG<sub>65</sub>, 10, 2, 92; 2000 QK<sub>65</sub>, 19, 4, 500; 2000 QL<sub>65</sub>, 5, 1, 0; 2000 QM<sub>65</sub>, 34, 5, 119; 2000 QO<sub>65</sub>, 3, 1, 0; 2000 QP<sub>65</sub>, 22, 5, 529; 2000 QQ<sub>65</sub>, 5, 1, 0; 2000 QR<sub>65</sub>, 10, 1, 0; 2000 QS<sub>65</sub>, 9, 2, 26; 2000 QT<sub>65</sub>, 22, 5, 119; 2000 QU<sub>65</sub>, 5, 1, 0; 2000 QV<sub>65</sub>, 4, 1, 0; 2000 QW<sub>65</sub>, 13, 3, 26; 2000 QX<sub>66</sub>, 18, 4, 478; 2000 QC<sub>66</sub>, 5, 1, 0; 2000 QF<sub>66</sub>, 8, 2, 26; 2000 QG<sub>66</sub>, 15, 2, 4; 2000 QR<sub>66</sub>, 9, 2, 533; 2000 QX<sub>66</sub>, 5, 1, 0; 2000 QD<sub>67</sub>, 5, 1, 0; 2000 QE<sub>67</sub>, 3, 1, 0; 2000 QF<sub>67</sub>, 9, 2, 6; 2000 QG<sub>67</sub>, 24, 5, 84; 2000 QJ<sub>67</sub>, 3, 1, 0; 2000 QL<sub>67</sub>, 10, 2, 26; 2000 QN<sub>67</sub>, 5, 1, 0; 2000 QP<sub>67</sub>, 8, 2, 11; 2000 QT<sub>67</sub>, 5, 1, 0; 2000 QV<sub>67</sub>, 9, 2, 8; 2000 QW<sub>67</sub>, 3, 1, 0; 2000 QD<sub>68</sub>, 5, 1, 0; 2000 QE<sub>68</sub>, 5, 1, 0; 2000 QG<sub>68</sub>, 10, 1, 0; 2000 QJ<sub>68</sub>, 5, 1, 0; 2000 QK<sub>68</sub>, 4, 1, 0; 2000 QT<sub>68</sub>, 9, 2, 5; 2000 QW<sub>68</sub>, 8, 2, 9; 2000 QX<sub>68</sub>, 5, 1, 0; 2000 QD<sub>69</sub>, 12, 3, 14; 2000 QS<sub>69</sub>, 3, 1, 0; 2000 QA<sub>70</sub>, 5, 1, 0; 2000 QB<sub>70</sub>, 5, 1, 0; 2000 QJ<sub>70</sub>, 10, 2, 5; 2000 QL<sub>70</sub>, 9, 2, 9; 2000 QR<sub>70</sub>, 3, 1, 0; 2000 QW<sub>70</sub>, 5, 1, 0; 2000 QA<sub>71</sub>, 7, 2, 9; 2000 QD<sub>71</sub>, 8, 2, 9; 2000 QF<sub>71</sub>, 16, 4, 912; 2000 QA<sub>72</sub>, 8, 2, 6; 2000 QE<sub>72</sub>, 9, 2, 6; 2000 QP<sub>72</sub>, 5, 1, 0; 2000 QR<sub>72</sub>, 4, 1, 0; 2000 QT<sub>72</sub>, 10, 2, 9; 2000 QJ<sub>73</sub>, 3, 1, 0; 2000 QK<sub>73</sub>, 7, 2, 4; 2000 QL<sub>73</sub>, 4, 1, 0; 2000 QU<sub>73</sub>, 11, 3, 9; 2000 QO<sub>74</sub>, 7, 2, 9; 2000 QV<sub>74</sub>, 5, 1, 0; 2000 QE<sub>75</sub>, 5, 1, 0; 2000 QK<sub>75</sub>, 3, 1, 0; 2000 QL<sub>75</sub>, 4, 1, 0; 2000 QM<sub>75</sub>, 3, 1, 0; 2000 QR<sub>75</sub>, 13, 3, 9; 2000 QY<sub>75</sub>, 15, 3, 9; 2000 QK<sub>76</sub>, 14, 4, 9; 2000 QS<sub>76</sub>, 8, 2, 5; 2000 QA<sub>77</sub>, 5, 1, 0; 2000 QB<sub>77</sub>, 4, 1, 0; 2000 QO<sub>77</sub>, 4, 1, 0; 2000 QF<sub>77</sub>, 5, 1, 0; 2000 QU<sub>77</sub>, 3, 1, 0; 2000 QA<sub>78</sub>, 12, 3, 10; 2000 QB<sub>78</sub>, 4, 1, 0; 2000 QK<sub>78</sub>, 5, 1, 0; 2000 QO<sub>78</sub>, 5, 1, 0; 2000 QG<sub>79</sub>, 4, 1, 0; 2000 QO<sub>79</sub>, 5, 1, 0; 2000 QC<sub>80</sub>, 8, 2, 6; 2000 QD<sub>80</sub>, 3, 1, 0; 2000 QG<sub>80</sub>, 4, 1, 0; 2000 QK<sub>80</sub>, 9, 2, 554; 2000 QN<sub>80</sub>, 4, 1, 0; 2000 QO<sub>80</sub>, 4, 1, 0; 2000 QS<sub>80</sub>, 4, 1, 0; 2000 QD<sub>81</sub>, 4, 1, 0; 2000 QJ<sub>81</sub>, 5, 1, 0; 2000 QU<sub>81</sub>, 4, 1, 0; 2000 QO<sub>82</sub>, 21, 5, 12; 2000 QS<sub>82</sub>, 8, 2, 8; 2000 QV<sub>82</sub>, 4, 1, 0; 2000 QX<sub>82</sub>, 4, 1, 0; 2000 QZ<sub>82</sub>, 4, 1, 0; 2000 QA<sub>83</sub>, 4, 1, 0; 2000 QK<sub>83</sub>, 4, 1, 0; 2000 QL<sub>83</sub>, 5, 1, 0; 2000 QP<sub>83</sub>, 3, 1, 0; 2000 QR<sub>83</sub>, 8, 2, 566; 2000 QY<sub>83</sub>, 4, 1, 0; 2000 QA<sub>84</sub>, 10, 2, 30; 2000 QD<sub>84</sub>, 8, 2, 5; 2000 QL<sub>84</sub>, 4, 1, 0; 2000 QM<sub>84</sub>, 10, 2, 4; 2000 QO<sub>84</sub>, 3, 1, 0; 2000 QV<sub>84</sub>, 8, 2, 3; 2000 QA<sub>85</sub>, 5, 1, 0; 2000 QH<sub>85</sub>, 8, 2, 9; 2000 QP<sub>85</sub>, 3, 1, 0; 2000 QK<sub>85</sub>, 5, 1, 0; 2000 QW<sub>85</sub>, 3, 1, 0; 2000 QG<sub>86</sub>, 3, 1, 0; 2000 QJ<sub>86</sub>, 3, 1, 0; 2000 QP<sub>86</sub>, 5, 1, 0; 2000 QS<sub>86</sub>, 8, 2, 33; 2000 QV<sub>86</sub>, 4, 1, 0; 2000 QG<sub>87</sub>, 9, 2, 9; 2000 QT<sub>87</sub>, 5, 1, 0; 2000 QB<sub>88</sub>, 9, 2, 9; 2000 QK<sub>88</sub>, 4, 1, 0; 2000 QM<sub>88</sub>, 14, 3, 9; 2000 QP<sub>88</sub>, 4, 1, 0; 2000 QS<sub>88</sub>, 5, 1, 0; 2000 QB<sub>89</sub>, 8, 2, 5; 2000 QC<sub>89</sub>, 8, 2, 9; 2000 QH<sub>89</sub>, 4, 1, 0; 2000 QK<sub>89</sub>, 8, 2, 4; 2000 QO<sub>89</sub>, 13, 3, 9; 2000 QQ<sub>89</sub>, 14, 3, 9; 2000 QV<sub>89</sub>, 4, 1, 0; 2000 QW<sub>89</sub>, 4, 1, 0; 2000 QX<sub>89</sub>, 4, 1, 0; 2000 QC<sub>90</sub>, 9, 2, 9; 2000 QK<sub>90</sub>, 3, 1, 0; 2000 QS<sub>90</sub>, 12, 3, 9; 2000 QV<sub>90</sub>, 4, 1, 0; 2000 QC<sub>91</sub>, 16, 4, 9; 2000 QE<sub>91</sub>, 5, 1, 0; 2000 QG<sub>91</sub>, 17, 4, 1280; 2000 QL<sub>91</sub>, 10, 1, 0; 2000 QR<sub>91</sub>, 3, 1, 0; 2000 QD<sub>92</sub>, 5, 1, 0; 2000 QF<sub>92</sub>, 5, 1, 0; 2000 QG<sub>92</sub>, 7, 2, 5; 2000 QL<sub>92</sub>, 5, 1, 0; 2000 QM<sub>92</sub>, 4, 1, 0; 2000 QZ<sub>92</sub>, 7, 2, 5; 2000 QP<sub>93</sub>, 8, 2, 4; 2000 QC<sub>93</sub>, 4, 1, 0; 2000 QD<sub>93</sub>, 3, 1, 0; 2000 QF<sub>93</sub>, 9, 2, 5; 2000 QH<sub>93</sub>, 20, 3, 9; 2000 QK<sub>93</sub>, 5, 1, 0; 2000 QL<sub>94</sub>, 5, 1, 0; 2000 QN<sub>95</sub>, 8, 2, 4; 2000 QX<sub>95</sub>, 7, 2, 5; 2000 QY<sub>95</sub>, 5, 1, 0; 2000 QB<sub>96</sub>, 3, 1, 0; 2000 QE<sub>96</sub>, 5, 1, 0; 2000 QF<sub>96</sub>, 4, 1, 0; 2000 QH<sub>96</sub>, 4, 1, 0; 2000 QJ<sub>96</sub>, 7, 2, 9; 2000 QK<sub>96</sub>, 3, 1, 0; 2000 QS<sub>96</sub>, 14, 3, 27; 2000 QT<sub>96</sub>, 3, 1, 0; 2000 QZ<sub>96</sub>, 7, 2, 9; 2000 QA<sub>97</sub>, 5, 1, 0; 2000 QB<sub>97</sub>, 4, 1, 0; 2000 QE<sub>97</sub>, 4, 1, 0; 2000 QG<sub>97</sub>, 4, 1, 0; 2000 QH<sub>97</sub>, 10, 2, 8; 2000 QN<sub>97</sub>, 9, 2, 5; 2000 QS<sub>97</sub>, 4, 1, 0; 2000 QB<sub>98</sub>, 13, 3, 9; 2000 QC<sub>98</sub>, 9, 2, 9; 2000 QH<sub>98</sub>, 4, 1, 0; 2000 QJ<sub>98</sub>, 5, 1, 0; 2000 QK<sub>98</sub>, 4, 1, 0; 2000 QL<sub>98</sub>, 9, 2, 9; 2000 QM<sub>98</sub>, 14, 3, 9; 2000 QP<sub>98</sub>, 4, 1, 0; 2000 QA<sub>99</sub>, 4, 1, 0; 2000 QF<sub>99</sub>, 3, 1, 0; 2000 QH<sub>99</sub>, 12, 3, 9; 2000 QJ<sub>99</sub>, 4, 1, 0; 2000 QK<sub>99</sub>, 5, 1, 0; 2000 QL<sub>99</sub>, 3, 1, 0; 2000 QS<sub>99</sub>, 5, 1, 0; 2000 QA<sub>100</sub>, 4, 1, 0; 2000 QG<sub>100</sub>, 3, 1, 0; 2000 QH<sub>100</sub>, 7, 2, 9; 2000 QK<sub>100</sub>, 7, 2, 418; 2000 QM<sub>100</sub>, 3, 1, 0; 2000 QP<sub>100</sub>, 13, 3, 9; 2000 QR<sub>100</sub>, 4, 1, 0; 2000 QV<sub>100</sub>, 3, 1, 0; 2000 QZ<sub>100</sub>, 4, 1, 0; 2000 QA<sub>101</sub>, 8, 2, 92; 2000 QB<sub>101</sub>, 3, 1, 0; 2000 QE<sub>101</sub>, 5, 1, 0; 2000 QG<sub>101</sub>, 5, 1, 0; 2000 QH<sub>101</sub>, 3, 1, 0; 2000 QK<sub>101</sub>, 5, 1, 0; 2000 QL<sub>101</sub>, 13, 3, 9; 2000 QM<sub>101</sub>, 4, 1, 0; 2000 QO<sub>101</sub>, 8, 2, 4; 2000 QV<sub>101</sub>, 8, 2, 4; 2000 QW<sub>101</sub>, 6, 2, 4; 2000 QD<sub>102</sub>, 8, 2, 7; 2000 QE<sub>102</sub>, 5, 1, 0; 2000 QF<sub>102</sub>, 10, 2, 4; 2000 QH<sub>102</sub>, 22, 5, 92; 2000 QK<sub>102</sub>, 4, 1, 0; 2000 QL<sub>102</sub>, 5, 1, 0; 2000 QM<sub>102</sub>, 16, 3, 5; 2000 QN<sub>102</sub>, 8, 1, 0; 2000 QP<sub>102</sub>, 11, 3, 9; 2000 QR<sub>102</sub>, 15, 4, 9; 2000 QS<sub>102</sub>, 17, 4, 924; 2000 QX<sub>102</sub>, 5, 1, 0; 2000 QY<sub>102</sub>, 9, 2, 7; 2000 QA<sub>103</sub>, 13, 3, 33; 2000 QC<sub>103</sub>, 24, 5, 948; 2000 QD<sub>103</sub>, 15, 3, 9; 2000 QE<sub>103</sub>, 24, 4, 9; 2000 QH<sub>103</sub>, 9, 2, 4; 2000 QK<sub>103</sub>, 15, 3, 33; 2000 QL<sub>103</sub>, 10, 2, 5; 2000 QM<sub>103</sub>, 9, 2, 29; 2000 QA<sub>104</sub>, 4, 1, 0; 2000 QF<sub>104</sub>, 4, 1, 0; 2000 QH<sub>104</sub>, 7, 2, 4; 2000 QM<sub>104</sub>, 9, 2, 26; 2000 QN<sub>104</sub>, 19, 4, 9; 2000 QR<sub>104</sub>, 14, 3, 503; 2000 QS<sub>104</sub>, 12, 3, 9; 2000 QU<sub>104</sub>, 10, 2, 6; 2000 QW<sub>104</sub>, 8, 2, 5; 2000 QZ<sub>104</sub>, 7, 2, 5; 2000 QA<sub>105</sub>, 10, 2, 5; 2000 QB<sub>105</sub>, 10, 2, 5; 2000 QC<sub>105</sub>, 3, 1, 0; 2000 QE<sub>105</sub>, 4, 1, 0; 2000 QF<sub>105</sub>, 29, 6, 919; 2000 QJ<sub>105</sub>, 9, 2, 87; 2000 QK<sub>105</sub>, 15, 2, 4; 2000 QL<sub>105</sub>, 9, 2, 9; 2000 QM<sub>105</sub>, 24, 4, 5; 2000 QN<sub>105</sub>, 4, 1, 0; 2000 QO<sub>105</sub>, 8, 2, 5; 2000 QR<sub>105</sub>, 5, 1, 0; 2000 QU<sub>105</sub>, 4, 1, 0; 2000 QX<sub>105</sub>, 5, 1, 0; 2000 QA<sub>106</sub>,

5, 1, 0; 2000 QG<sub>106</sub>, 4, 1, 0; 2000 QH<sub>109</sub>, 10, 2, 11; 2000 QT<sub>109</sub>, 4, 1, 0; 2000 QU<sub>109</sub>, 14, 3, 7; 2000 QY<sub>109</sub>, 4, 1, 0; 2000 QA<sub>110</sub>, 5, 1, 0; 2000 QE<sub>110</sub>, 4, 1, 0; 2000 QC<sub>112</sub>, 5, 1, 0; 2000 QO<sub>112</sub>, 4, 1, 0; 2000 QW<sub>112</sub>, 5, 1, 0; 2000 QV<sub>113</sub>, 5, 1, 0; 2000 QU<sub>114</sub>, 4, 1, 0; 2000 QV<sub>114</sub>, 4, 1, 0; 2000 QX<sub>114</sub>, 5, 1, 0; 2000 QM<sub>115</sub>, 4, 1, 0; 2000 QQ<sub>115</sub>, 4, 1, 0; 2000 QR<sub>115</sub>, 8, 1, 0; 2000 QT<sub>115</sub>, 3, 1, 0; 2000 QA<sub>116</sub>, 3, 1, 0; 2000 QB<sub>116</sub>, 15, 3, 52; 2000 QL<sub>116</sub>, 9, 2, 4; 2000 QM<sub>116</sub>, 4, 1, 0; 2000 QP<sub>116</sub>, 8, 2, 4; 2000 QR<sub>116</sub>, 5, 1, 0; 2000 QS<sub>116</sub>, 4, 1, 0; 2000 QV<sub>116</sub>, 14, 3, 88; 2000 QX<sub>116</sub>, 10, 2, 5; 2000 QD<sub>117</sub>, 9, 2, 9; 2000 QF<sub>117</sub>, 9, 1, 0; 2000 QG<sub>117</sub>, 4, 1, 0; 2000 QO<sub>117</sub>, 12, 3, 9; 2000 QS<sub>117</sub>, 4, 1, 0; 2000 QT<sub>117</sub>, 3, 1, 0; 2000 QV<sub>117</sub>, 5, 1, 0; 2000 QX<sub>117</sub>, 4, 1, 0; 2000 QZ<sub>117</sub>, 4, 1, 0; 2000 QB<sub>118</sub>, 12, 3, 9; 2000 QF<sub>118</sub>, 5, 1, 0; 2000 QG<sub>118</sub>, 10, 2, 9; 2000 QO<sub>118</sub>, 5, 1, 0; 2000 QP<sub>118</sub>, 3, 1, 0; 2000 QV<sub>118</sub>, 4, 1, 0; 2000 QW<sub>118</sub>, 4, 1, 0; 2000 QX<sub>118</sub>, 10, 2, 5; 2000 QA<sub>119</sub>, 8, 2, 534; 2000 QC<sub>119</sub>, 4, 1, 0; 2000 QF<sub>119</sub>, 8, 2, 5; 2000 QG<sub>119</sub>, 9, 2, 938; 2000 QH<sub>119</sub>, 5, 1, 0; 2000 QK<sub>119</sub>, 14, 3, 503; 2000 QM<sub>119</sub>, 5, 1, 0; 2000 QN<sub>119</sub>, 4, 1, 0; 2000 QO<sub>119</sub>, 5, 1, 0; 2000 QR<sub>119</sub>, 4, 1, 0; 2000 QS<sub>119</sub>, 23, 5, 1097; 2000 QT<sub>119</sub>, 10, 2, 5; 2000 QV<sub>119</sub>, 14, 3, 9; 2000 QY<sub>119</sub>, 5, 1, 0; 2000 QB<sub>120</sub>, 3, 1, 0; 2000 QD<sub>120</sub>, 5, 1, 0; 2000 QF<sub>120</sub>, 14, 4, 9; 2000 QG<sub>120</sub>, 4, 1, 0; 2000 QK<sub>120</sub>, 5, 1, 0; 2000 QP<sub>120</sub>, 5, 1, 0; 2000 QQ<sub>120</sub>, 14, 3, 7; 2000 QS<sub>120</sub>, 5, 1, 0; 2000 QU<sub>120</sub>, 5, 1, 0; 2000 QW<sub>120</sub>, 5, 1, 0; 2000 QY<sub>120</sub>, 19, 4, 9; 2000 QA<sub>121</sub>, 5, 1, 0; 2000 QB<sub>121</sub>, 10, 3, 9; 2000 QC<sub>121</sub>, 4, 1, 0; 2000 QD<sub>121</sub>, 5, 1, 0; 2000 QE<sub>121</sub>, 5, 1, 0; 2000 QG<sub>121</sub>, 10, 2, 5; 2000 QH<sub>121</sub>, 3, 1, 0; 2000 QK<sub>121</sub>, 5, 1, 0; 2000 QL<sub>121</sub>, 4, 1, 0; 2000 QM<sub>121</sub>, 12, 3, 9; 2000 QN<sub>121</sub>, 10, 2, 5; 2000 QP<sub>121</sub>, 13, 3, 5; 2000 QQ<sub>121</sub>, 5, 1, 0; 2000 QR<sub>121</sub>, 13, 3, 9; 2000 QS<sub>121</sub>, 5, 1, 0; 2000 QV<sub>121</sub>, 10, 2, 6; 2000 QW<sub>121</sub>, 15, 3, 9; 2000 QX<sub>121</sub>, 14, 3, 944; 2000 QY<sub>121</sub>, 5, 1, 0; 2000 QZ<sub>121</sub>, 13, 3, 9; 2000 QA<sub>122</sub>, 10, 2, 6; 2000 QB<sub>122</sub>, 9, 2, 5; 2000 QC<sub>122</sub>, 5, 1, 0; 2000 QE<sub>122</sub>, 5, 1, 0; 2000 QF<sub>122</sub>, 10, 2, 4; 2000 QH<sub>122</sub>, 13, 3, 7; 2000 QJ<sub>122</sub>, 15, 3, 9; 2000 QK<sub>122</sub>, 25, 3, 9; 2000 QL<sub>122</sub>, 13, 3, 9; 2000 QM<sub>122</sub>, 10, 2, 7; 2000 QN<sub>122</sub>, 10, 2, 6; 2000 QO<sub>122</sub>, 5, 1, 0; 2000 QU<sub>122</sub>, 4, 1, 0; 2000 QV<sub>122</sub>, 10, 2, 7; 2000 QS<sub>122</sub>, 15, 3, 9; 2000 QT<sub>122</sub>, 15, 3, 9; 2000 QU<sub>122</sub>, 4, 1, 0; 2000 QV<sub>122</sub>, 10, 2, 9; 2000 QW<sub>122</sub>, 7, 2, 4; 2000 QX<sub>122</sub>, 10, 2, 4; 2000 QY<sub>122</sub>, 13, 3, 9; 2000 QZ<sub>122</sub>, 10, 2, 7; 2000 QA<sub>123</sub>, 10, 2, 6; 2000 QC<sub>123</sub>, 15, 3, 9; 2000 QD<sub>123</sub>, 14, 3, 9; 2000 QF<sub>123</sub>, 10, 2, 7; 2000 QH<sub>123</sub>, 34, 7, 959; 2000 QL<sub>123</sub>, 5, 1, 0; 2000 QM<sub>123</sub>, 17, 4, 9; 2000 QN<sub>123</sub>, 15, 3, 9; 2000 QO<sub>123</sub>, 10, 2, 4; 2000 QP<sub>123</sub>, 5, 1, 0; 2000 QQ<sub>123</sub>, 9, 2, 5; 2000 QR<sub>123</sub>, 15, 3, 9; 2000 QS<sub>123</sub>, 20, 4, 9; 2000 QT<sub>123</sub>, 28, 5, 13; 2000 QU<sub>123</sub>, 5, 1, 0; 2000 QV<sub>123</sub>, 10, 2, 3; 2000 QW<sub>123</sub>, 4, 1, 0; 2000 QX<sub>123</sub>, 15, 3, 9; 2000 QB<sub>124</sub>, 19, 4, 9; 2000 QE<sub>124</sub>, 5, 1, 0; 2000 QF<sub>124</sub>, 5, 1, 0; 2000 QL<sub>124</sub>, 8, 2, 4; 2000 QM<sub>124</sub>, 9, 2, 7; 2000 QN<sub>124</sub>, 14, 1, 0; 2000 QV<sub>124</sub>, 5, 1, 0; 2000 QK<sub>125</sub>, 3, 1, 0; 2000 QA<sub>126</sub>, 14, 3, 9; 2000 QB<sub>126</sub>, 3, 1, 0; 2000 QG<sub>126</sub>, 8, 2, 5; 2000 QH<sub>126</sub>, 10, 2, 4; 2000 QJ<sub>126</sub>, 7, 2, 4; 2000 QK<sub>126</sub>, 21, 4, 9; 2000 QY<sub>126</sub>, 9, 2, 26; 2000 QC<sub>127</sub>, 5, 1, 0; 2000 QD<sub>127</sub>, 5, 1, 0; 2000 QE<sub>127</sub>, 8, 2, 7; 2000 QF<sub>127</sub>, 10, 2, 3; 2000 QG<sub>127</sub>, 15, 3, 9; 2000 QH<sub>127</sub>, 13, 3, 10; 2000 QJ<sub>127</sub>, 18, 4, 9; 2000 QK<sub>127</sub>, 15, 3, 9; 2000 QN<sub>127</sub>, 10, 2, 5; 2000 QO<sub>127</sub>, 25, 4, 10; 2000 QP<sub>127</sub>, 22, 5, 952; 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2000 QJ<sub>146</sub>, 4, 1, 0; 2000 QK<sub>146</sub>, 8, 2, 9; 2000 QN<sub>146</sub>, 3, 1, 0; 2000 QP<sub>146</sub>, 4, 1, 0; 2000 QR<sub>146</sub>, 5, 1, 0; 2000 QS<sub>146</sub>, 32, 4, 9; 2000 QV<sub>146</sub>, 3, 1, 0; 2000 QA<sub>147</sub>, 4, 1, 0; 2000 QF<sub>147</sub>, 4, 1, 0; 2000 QG<sub>147</sub>, 15, 3, 469; 2000 QJ<sub>147</sub>, 5, 1, 0; 2000 QK<sub>147</sub>, 10, 2, 9; 2000 QT<sub>147</sub>, 8, 2, 21; 2000 QG<sub>148</sub>, 10, 2, 9; 2000 QP<sub>148</sub>, 8, 2, 1; 2000 QT<sub>148</sub>, 9, 2, 33; 2000 QA<sub>149</sub>, 3, 1, 0; 2000 QL<sub>149</sub>, 8, 2, 5; 2000 QN<sub>149</sub>, 14, 3, 9; 2000 QO<sub>149</sub>, 28, 5, 9; 2000 QP<sub>149</sub>, 25, 5, 12; 2000 QQ<sub>149</sub>, 15, 3, 9; 2000 QV<sub>149</sub>, 5, 1, 0; 2000 QZ<sub>149</sub>, 4, 1, 0; 2000 QA<sub>150</sub>, 5, 1, 0; 2000 QC<sub>150</sub>, 7, 2, 109; 2000 QD<sub>150</sub>, 4, 1, 0; 2000 QE<sub>150</sub>, 15, 3, 5; 2000 QH<sub>150</sub>, 10, 2, 7; 2000 QJ<sub>150</sub>, 10, 2, 7; 2000 QK<sub>150</sub>, 10, 2, 7; 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2000 QF<sub>154</sub>, 3, 1, 0; 2000 QC<sub>155</sub>, 5, 1, 0; 2000 QF<sub>156</sub>, 5, 1, 0; 2000 QJ<sub>157</sub>, 5, 1, 0; 2000 QK<sub>158</sub>, 5, 1, 0; 2000 QW<sub>158</sub>, 7, 2, 5; 2000 QD<sub>159</sub>, 4, 1, 0; 2000 QW<sub>159</sub>, 4, 1, 0; 2000 QJ<sub>160</sub>, 10, 2, 9; 2000 QN<sub>160</sub>, 4, 1, 0; 2000 QO<sub>160</sub>, 9, 2, 3; 2000 QJ<sub>161</sub>, 14, 3, 441; 2000 QO<sub>161</sub>, 4, 1, 0; 2000 QR<sub>162</sub>, 5, 1, 0; 2000 QC<sub>165</sub>, 10, 2, 9; 2000 QH<sub>165</sub>, 3, 1, 0; 2000 QV<sub>165</sub>, 5, 1, 0; 2000 QW<sub>165</sub>, 3, 1, 0; 2000 QU<sub>167</sub>, 5, 1, 0; 2000 QX<sub>167</sub>, 5, 1, 0; 2000 QG<sub>168</sub>, 3, 1, 0; 2000 QJ<sub>168</sub>, 8, 2, 594; 2000 QM<sub>168</sub>, 4, 1, 0; 2000 QT<sub>168</sub>, 4, 1, 0; 2000 QE<sub>169</sub>, 7, 2, 58; 2000 QN<sub>169</sub>, 4, 1, 0; 2000 QP<sub>169</sub>, 10, 2, 76; 2000 QX<sub>169</sub>, 4, 1, 0; 2000 QU<sub>170</sub>, 12, 3, 7; 2000 QZ<sub>170</sub>, 3, 1, 0; 2000 QG<sub>171</sub>, 12, 2, 2; 2000 QL<sub>171</sub>, 8, 2, 9; 2000 QO<sub>171</sub>, 5, 1, 0; 2000 QP<sub>171</sub>, 13, 3, 57; 2000 QV<sub>171</sub>, 5, 1, 0; 2000 QW<sub>171</sub>, 3, 1, 0; 2000 QB<sub>172</sub>, 9, 2, 5; 2000 QC<sub>172</sub>, 3, 1, 0; 2000 QF<sub>173</sub>, 19, 4, 8; 2000 QJ<sub>173</sub>, 5, 1, 0; 2000 QN<sub>173</sub>, 9, 2, 51; 2000 QR<sub>173</sub>, 4, 1, 0; 2000 QV<sub>173</sub>, 3, 1, 0; 2000 QB<sub>174</sub>, 4, 1, 0; 2000 QE<sub>174</sub>, 5, 1, 0; 2000 QN<sub>174</sub>, 3, 1, 0; 2000 QH<sub>176</sub>, 4, 1, 0; 2000 QA<sub>177</sub>, 5, 1, 0; 2000 QF<sub>178</sub>, 3, 1, 0; 2000 QM<sub>178</sub>, 3, 1, 0; 2000 QO<sub>178</sub>, 4, 1, 0; 2000 QL<sub>179</sub>, 5, 1, 0; 2000 QT<sub>179</sub>, 4, 1, 0; 2000 QD<sub>180</sub>, 9, 2, 6; 2000 QE<sub>180</sub>, 5, 1, 0; 2000 QF<sub>180</sub>, 10, 2, 6; 2000 QL<sub>180</sub>, 5, 1, 0; 2000 QO<sub>180</sub>, 10, 2, 12; 2000 QE<sub>181</sub>, 10, 2, 1; 2000 QO<sub>181</sub>, 10, 2, 1; 2000 QP<sub>181</sub>, 12, 3, 10; 2000 QQ<sub>181</sub>, 4, 1, 0; 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2000 QW<sub>224</sub>, 5, 1, 0; 2000 QZ<sub>225</sub>, 5, 1, 0; 2000 QT<sub>226</sub>, 3, 1, 0; 2000 QR<sub>227</sub>, 9, 2, 1; 2000 QS<sub>227</sub>, 17, 4, 31; 2000 QU<sub>227</sub>, 3, 1, 0; 2000 QB<sub>228</sub>, 5, 1, 0; 2000 QC<sub>228</sub>, 9, 2, 4; 2000 QD<sub>228</sub>, 5, 1, 0; 2000 QW<sub>228</sub>, 3, 1, 0; 2000 QF<sub>229</sub>, 4, 1, 0; 2000 QO<sub>229</sub>, 5, 1, 0; 2000 QS<sub>229</sub>, 5, 1, 0; 2000 QF<sub>230</sub>, 9, 2, 4; 2000 QG<sub>230</sub>, 9, 2, 4; 2000 QJ<sub>230</sub>, 4, 1, 0; 2000 QL<sub>230</sub>, 7, 2, 4; 2000 QM<sub>230</sub>, 10, 2, 4; 2000 QN<sub>230</sub>, 7, 2, 5; 2000 QU<sub>230</sub>, 4, 1, 0; 2000 QY<sub>230</sub>, 5, 1, 0; 2000 QZ<sub>230</sub>, 10, 2, 3; 2000 QE<sub>231</sub>, 5, 1, 0; 2000 QW<sub>231</sub>, 5, 1, 0; 2000 QY<sub>231</sub>, 3, 1, 0; 2000 QA<sub>232</sub>, 5, 1, 0; 2000 QK<sub>236</sub>, 3, 1, 0; 2000 QX<sub>243</sub> \*, 3, 1, 0; 2000 QY<sub>243</sub> \*, 3, 1, 0; 2000 QZ<sub>243</sub> \*, 3, 1, 0; 2000 QA<sub>244</sub> \*, 4, 1, 0; 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2000 QT<sub>244</sub>, 3, 1, 0; 2000 QY<sub>244</sub>, 4, 1, 0; 2000 QF<sub>245</sub>, 4, 1, 0; 2000 QN<sub>245</sub>, 5, 1, 0; 2000 QR<sub>245</sub>, 3, 1, 0; 2000 QU<sub>245</sub>, 3, 1, 0; 2000 QV<sub>245</sub>, 3, 1, 0; 2000 QW<sub>245</sub>, 5, 1, 0; 2000 QX<sub>245</sub>, 4, 1, 0; 2000 QY<sub>245</sub> \*, 4, 1, 0; 2000 QA<sub>246</sub> \*, 5, 1, 0; 2000 QB<sub>246</sub> \*, 4, 1, 0; 2000 QC<sub>246</sub> \*, 4, 1, 0; 2000 QD<sub>246</sub> \*, 3, 1, 0; 2000 QE<sub>246</sub>, 3, 1, 0; 2000 QF<sub>246</sub>, 3, 1, 0; 2000 QG<sub>246</sub>, 4, 1, 0; 2000 QH<sub>246</sub>, 3, 1, 0; 2000 QI<sub>246</sub>, 5, 1, 0; 2000 QJ<sub>246</sub>, 3, 1, 0; 2000 QK<sub>246</sub>, 3, 1, 0; 2000 QL<sub>246</sub>, 3, 1, 0; 2000 QM<sub>246</sub>, 3, 1, 0; 2000 QN<sub>246</sub>, 4, 1, 0; 2000 QO<sub>246</sub>, 3, 1, 0; 2000 QQ<sub>246</sub>, 4, 1, 0; 2000 QR<sub>246</sub>, 3, 1, 0; 2000 QS<sub>246</sub>, 4, 1, 0; 2000 QT<sub>246</sub>, 4, 1, 0; 2000 QY<sub>246</sub>, 4, 1, 0; 2000 QZ<sub>246</sub>, 3, 1, 0; 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2000 SN<sub>83</sub>, 4, 1, 0; 2000 SS<sub>83</sub>, 9, 2, 57; 2000 ST<sub>83</sub>, 14, 3, 29; 2000 SU<sub>83</sub>, 10, 3, 9; 2000 SV<sub>83</sub>, 3, 1, 0; 2000 SW<sub>83</sub>, 3, 1, 0; 2000 SA<sub>84</sub>, 10, 3, 52; 2000 SC<sub>84</sub>, 3, 1, 0; 2000 SF<sub>84</sub>, 14, 3, 9; 2000 SG<sub>84</sub>, 15, 3, 946; 2000 SH<sub>84</sub>, 3, 1, 0; 2000 SK<sub>84</sub>, 16, 4, 56; 2000 SN<sub>84</sub>, 7, 2, 5; 2000 SP<sub>84</sub>, 33, 6, 91; 2000 SR<sub>84</sub>, 7, 2, 3; 2000 ST<sub>84</sub>, 4, 1, 0; 2000 SU<sub>84</sub>, 22, 5, 91; 2000 SV<sub>84</sub>, 4, 1, 0; 2000 SX<sub>84</sub>, 13, 3, 7; 2000 SY<sub>84</sub>, 10, 2, 3; 2000 SZ<sub>84</sub>, 3, 1, 0; 2000 SB<sub>85</sub>, 10, 2, 4; 2000 SC<sub>85</sub>, 5, 1, 0; 2000 SD<sub>85</sub>, 10, 2, 5; 2000 SE<sub>85</sub>, 4, 1, 0; 2000 SF<sub>85</sub>, 8, 2, 3; 2000 SG<sub>85</sub>, 9, 2, 4; 2000 SH<sub>85</sub>, 10, 2, 5; 2000 SJ<sub>85</sub>, 13, 3, 32; 2000 SK<sub>85</sub>, 13, 3, 10; 2000 SL<sub>85</sub>, 18, 4, 31; 2000 SM<sub>85</sub>, 12, 3, 506; 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2000 SX<sub>172</sub>, 7, 2, 7; 2000 SY<sub>172</sub>, 18, 4, 59; 2000 SZ<sub>172</sub>, 8, 2, 7; 2000 SA<sub>173</sub>, 15, 3, 9; 2000 SB<sub>173</sub>, 9, 2, 7; 2000 SC<sub>173</sub>, 14, 3, 8; 2000 SD<sub>173</sub>, 23, 5, 7; 2000 SE<sub>173</sub>, 20, 4, 9; 2000 SF<sub>173</sub>, 17, 4, 511; 2000 SG<sub>173</sub>, 34, 7, 947; 2000 SH<sub>173</sub>, 23, 5, 85; 2000 SI<sub>173</sub>, 13, 3, 9; 2000 SJ<sub>173</sub>, 15, 3, 9; 2000 SK<sub>173</sub>, 34, 6, 58; 2000 SO<sub>173</sub>, 9, 2, 2; 2000 SP<sub>173</sub>, 9, 2, 2; 2000 SQ<sub>173</sub>, 10, 2, 7; 2000 SR<sub>173</sub>, 5, 1, 0; 2000 SS<sub>173</sub>, 9, 2, 2; 2000 ST<sub>173</sub>, 8, 2, 7; 2000 SU<sub>173</sub>, 17, 4, 87; 2000 SV<sub>173</sub>, 8, 2, 7; 2000 SW<sub>173</sub>, 10, 2, 7; 2000 SX<sub>173</sub>, 9, 2, 2; 2000 SY<sub>173</sub>, 9, 2, 2; 2000 SZ<sub>173</sub>, 11, 3, 56; 2000 SA<sub>174</sub>, 10, 2, 7; 2000 SB<sub>174</sub>, 5, 1, 0; 2000 SC<sub>174</sub>, 18, 4, 61; 2000 SD<sub>174</sub>, 15, 3, 56; 2000 SE<sub>174</sub>, 21, 6, 1337; 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2000 SW<sub>234</sub>, 5, 1, 0; 2000 SB<sub>235</sub>, 4, 1, 0; 2000 SV<sub>235</sub>, 7, 2, 3; 2000 SZ<sub>235</sub>, 4, 1, 0; 2000 SH<sub>236</sub>, 4, 1, 0; 2000 SN<sub>236</sub>, 4, 1, 0; 2000 SO<sub>236</sub>, 4, 1, 0; 2000 SS<sub>236</sub>, 15, 4, 32; 2000 SU<sub>236</sub>, 15, 3, 31; 2000 SW<sub>236</sub>, 10, 2, 31; 2000 SX<sub>236</sub>, 8, 2, 3; 2000 SY<sub>237</sub>, 21, 5, 9; 2000 SE<sub>237</sub>, 13, 3, 9; 2000 SF<sub>237</sub>, 9, 2, 6; 2000 SG<sub>237</sub>, 4, 1, 0; 2000 SH<sub>237</sub>, 4, 1, 0; 2000 SJ<sub>237</sub>, 5, 1, 0; 2000 SK<sub>237</sub>, 10, 2, 4; 2000 SL<sub>237</sub>, 10, 2, 5; 2000 SM<sub>237</sub>, 23, 4, 5; 2000 SN<sub>237</sub>, 10, 2, 5; 2000 SW<sub>237</sub>, 13, 3, 950; 2000 SX<sub>237</sub>, 10, 2, 5; 2000 SY<sub>237</sub>, 10, 2, 5; 2000 SZ<sub>237</sub>, 10, 2, 5; 2000 SA<sub>238</sub>, 10, 2, 27; 2000 SE<sub>238</sub>, 8, 2, 5; 2000 SF<sub>238</sub>, 10, 2, 5; 2000 SN<sub>238</sub>, 10, 2, 5; 2000 SO<sub>238</sub>, 10, 2, 5; 2000 SP<sub>238</sub>, 5, 1, 0; 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9, 2, 29; 2000 SA<sub>272</sub>, 4, 1, 0; 2000 SB<sub>272</sub>, 7, 1, 0; 2000 SD<sub>272</sub>, 5, 1, 0; 2000 SE<sub>272</sub>, 5, 1, 0; 2000 SF<sub>272</sub>, 7, 2, 9; 2000 SJ<sub>272</sub>, 14, 3, 59; 2000 SL<sub>272</sub>, 4, 1, 0; 2000 SM<sub>272</sub>, 3, 1, 0; 2000 SN<sub>272</sub>, 4, 1, 0; 2000 SR<sub>272</sub>, 9, 3, 9; 2000 ST<sub>272</sub>, 18, 4, 10; 2000 SU<sub>272</sub>, 18, 4, 39; 2000 SZ<sub>272</sub>, 18, 4, 574; 2000 SA<sub>273</sub>, 15, 3, 9; 2000 SC<sub>273</sub>, 4, 1, 0; 2000 SE<sub>273</sub>, 5, 1, 0; 2000 SF<sub>273</sub>, 7, 2, 9; 2000 SG<sub>273</sub>, 7, 2, 7; 2000 SN<sub>273</sub>, 3, 1, 0; 2000 SO<sub>273</sub>, 10, 2, 1; 2000 SP<sub>273</sub>, 10, 2, 7; 2000 SQ<sub>273</sub>, 20, 3, 9; 2000 SR<sub>273</sub>, 9, 2, 9; 2000 SS<sub>273</sub>, 8, 2, 2; 2000 ST<sub>273</sub>, 26, 5, 9; 2000 SU<sub>273</sub>, 24, 5, 9; 2000 SV<sub>273</sub>, 20, 3, 9; 2000 SA<sub>274</sub>, 17, 4, 9; 2000 SB<sub>274</sub>, 27, 6, 478; 2000 SC<sub>274</sub>, 19, 4, 9; 2000 SD<sub>274</sub>, 9, 2, 2; 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4, 1, 0; 2000 SN<sub>338</sub>, 4, 1, 0; 2000 SO<sub>338</sub>, 4, 1, 0; 2000 SP<sub>338</sub>, 3, 1, 0; 2000 SS<sub>338</sub>, 4, 1, 0; 2000 ST<sub>338</sub>, 3, 1, 0; 2000 SZ<sub>338</sub>, 3, 1, 0; 2000 SA<sub>339</sub>, 4, 1, 0; 2000 SB<sub>339</sub>, 4, 1, 0; 2000 SC<sub>339</sub>, 4, 1, 0; 2000 SD<sub>339</sub>, 3, 1, 0; 2000 SE<sub>339</sub>, 4, 1, 0; 2000 SF<sub>339</sub> \*, 34, 6, 67; 2000 SG<sub>339</sub> \*, 14, 3, 39; 2000 SH<sub>339</sub> \*, 4, 1, 0; 2000 SJ<sub>339</sub> \*, 9, 2, 34; 2000 SK<sub>339</sub> \*, 5, 1, 0; 2000 SL<sub>339</sub> \*, 28, 6, 67; 2000 SM<sub>339</sub> \*, 5, 1, 0; 2000 SN<sub>339</sub> \*, 5, 1, 0; 2000 SO<sub>339</sub>, 4, 1, 0; 2000 SP<sub>339</sub> \*, 5, 1, 0; 2000 SQ<sub>339</sub> \*, 23, 4, 34; 2000 SR<sub>339</sub> \*, 15, 4, 34; 2000 SS<sub>339</sub> \*, 21, 5, 33; 2000 ST<sub>339</sub> \*, 34, 6, 479; 2000 SU<sub>339</sub> \*, 18, 5, 60; 2000 SV<sub>339</sub> \*, 26, 6, 60; 2000 SW<sub>339</sub> \*, 3, 1, 0; 2000 SX<sub>339</sub> \*, 20, 4, 32; 2000 SY<sub>339</sub> \*, 15, 4, 32; 2000 SZ<sub>339</sub> \*, 27, 5, 32; 2000 SA<sub>340</sub> \*, 19, 4, 35; 2000 SB<sub>340</sub> \*, 12, 3, 54; 2000 SC<sub>340</sub> \*, 5, 1, 0; 2000 SD<sub>340</sub> \*, 5, 1, 0; 2000 SE<sub>340</sub> \*, 5, 1, 0; 2000 SF<sub>340</sub> \*, 4, 1, 0; 2000 SG<sub>340</sub> \*, 4, 1, 0; 2000 SH<sub>340</sub> \*, 4, 1, 0; 2000 SJ<sub>340</sub> \*, 4, 1, 0; 2000 SK<sub>340</sub> \*, 6, 2, 7; 2000 SL<sub>340</sub> \*, 4, 1, 0; 2000 SM<sub>340</sub> \*, 4, 1, 0; 2000 SN<sub>340</sub> \*, 3, 1, 0; 2000 SO<sub>340</sub> \*, 5, 1, 0; 2000 SP<sub>340</sub> \*, 5, 1, 0; 2000 SQ<sub>340</sub> \*, 3, 1, 0; 2000 SR<sub>340</sub> \*, 4, 1, 0; 2000 SS<sub>340</sub> \*, 5, 1, 0; 2000 ST<sub>340</sub> \*, 4, 1, 0; 2000 SU<sub>340</sub> \*, 5, 1, 0; 2000 SV<sub>340</sub> \*, 4, 1, 0; 2000 SW<sub>340</sub> \*, 3, 1, 0; 2000 SX<sub>340</sub> \*, 5, 1, 0; 2000 SY<sub>340</sub> \*, 9, 1, 0; 2000 SZ<sub>340</sub> \*, 9, 1, 0; 2000 SA<sub>341</sub> \*, 9, 1, 0; 2000 SB<sub>341</sub> \*, 4, 1, 0; 2000 SC<sub>341</sub> \*, 5, 1, 0; 2000 SD<sub>341</sub> \*, 4, 1, 0; 2000 SE<sub>341</sub> \*, 3, 1, 0; 2000 SF<sub>341</sub> \*, 4, 1, 0; 2000 SG<sub>341</sub> \*, 3, 1, 0; 2000 SH<sub>341</sub> \*, 4, 1, 0; 2000 SJ<sub>341</sub> \*, 4, 1, 0; 2000 SK<sub>341</sub> \*, 4, 1, 0; 2000 SL<sub>341</sub> \*, 3, 1, 0; 2000 SM<sub>341</sub> \*, 4, 1, 0; 2000 SN<sub>341</sub> \*, 4, 1, 0; 2000 SO<sub>341</sub> \*, 4, 1, 0; 2000 SP<sub>341</sub> \*, 3, 1, 0; 2000 SQ<sub>341</sub> \*, 3, 1, 0; 2000 SR<sub>341</sub> \*, 4, 1, 0; 2000 SS<sub>341</sub> \*, 4, 1, 0; 2000 ST<sub>341</sub> \*, 3, 1, 0; 2000 SU<sub>341</sub> \*, 3, 1, 0; 2000 SV<sub>341</sub> \*, 3, 1, 0; 2000 SW<sub>341</sub> \*, 4, 1, 0; 2000 SX<sub>341</sub> \*, 3, 1, 0; 2000 SY<sub>341</sub> \*, 3, 1, 0; 2000 SZ<sub>341</sub> \*, 4, 1, 0; 2000 SA<sub>342</sub> \*, 3, 1, 0; 2000 SD<sub>342</sub> \*, 9, 2, 7; 2000 SE<sub>342</sub> \*, 4, 1, 0; 2000 SF<sub>342</sub> \*, 5, 1, 0; 2000 SG<sub>342</sub> \*, 5, 1, 0; 2000 SH<sub>342</sub> \*, 4, 1, 0; 2000 SJ<sub>342</sub> \*, 3, 1, 0; 2000 SK<sub>342</sub> \*, 4, 1, 0; 2000 SL<sub>342</sub> \*, 4, 1, 0; 2000 SM<sub>342</sub> \*, 4, 1, 0; 2000 SN<sub>342</sub> \*, 4, 1, 0; 2000 SO<sub>342</sub> \*, 3, 1, 0; 2000 SP<sub>342</sub> \*, 4, 1, 0; 2000 SQ<sub>342</sub> \*, 4, 1, 0; 2000 SR<sub>342</sub> \*, 3, 1, 0; 2000 SS<sub>342</sub> \*, 3, 1, 0; 2000 ST<sub>342</sub> \*, 3, 1, 0; 2000 SU<sub>342</sub> \*, 3, 1, 0; 2000 SV<sub>342</sub> \*, 3, 1, 0; 2000 SW<sub>342</sub> \*, 3, 1, 0; 2000 SX<sub>342</sub> \*, 3, 1, 0; 2000 SY<sub>342</sub> \*, 15, 4, 39; 2000 SB<sub>343</sub> \*, 9, 2, 4; 2000 SC<sub>343</sub> \*, 7, 2, 36; 2000 SD<sub>343</sub> \*, 27, 6, 39; 2000 SE<sub>343</sub> \*, 11, 3, 42; 2000 SF<sub>343</sub> \*, 19, 4, 34; 2000 SG<sub>343</sub> \*, 5, 1, 0; 2000 SH<sub>343</sub> \*, 4, 1, 0; 2000 SJ<sub>343</sub> \*, 4, 1, 0; 2000 SK<sub>343</sub> \*, 4, 1, 0; 2000 SL<sub>343</sub> \*, 4, 1, 0; 2000 SM<sub>343</sub> \*, 3, 1, 0; 2000 SN<sub>343</sub> \*, 4, 1, 0; 2000 SO<sub>343</sub> \*, 5, 1, 0; 2000 SP<sub>343</sub> \*, 10, 2, 3; 2000 SQ<sub>343</sub> \*, 3, 1, 0; 2000 SR<sub>343</sub> \*, 4, 1, 0; 2000 SS<sub>343</sub> \*, 4, 1, 0; 2000 ST<sub>343</sub> \*, 3, 1, 0; 2000 SU<sub>343</sub> \*, 3, 1, 0; 2000 SV<sub>343</sub> \*, 7, 2, 4; 2000 SW<sub>343</sub> \*, 18, 4, 61; 2000 SX<sub>343</sub> \*, 8, 2, 12; 2000 SY<sub>343</sub> \*, 9, 2, 5; 2000 SZ<sub>343</sub> \*, 3, 1, 0; 2000 SA<sub>344</sub> \*, 3, 1, 0; 2000 SB<sub>344</sub> \*, 3, 1, 0; 2000 SC<sub>344</sub> \*, 13, 3, 35; 200

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3, 1, 0; 2000 TV<sub>30</sub>, 22, 4, 39; 2000 TG<sub>31</sub>, 4, 1, 0; 2000 TS<sub>31</sub>, 13, 3, 34; 2000 TX<sub>31</sub>, 5, 1, 0; 2000 TY<sub>31</sub>, 4, 1, 0; 2000 TR<sub>32</sub>, 23, 5, 58; 2000 TS<sub>32</sub>, 19, 4, 31; 2000 TT<sub>32</sub>, 9, 2, 5; 2000 TU<sub>32</sub>, 13, 3, 33; 2000 TV<sub>32</sub>, 18, 4, 916; 2000 TW<sub>32</sub>, 10, 3, 7; 2000 TL<sub>33</sub>, 9, 2, 89; 2000 TR<sub>33</sub>, 4, 1, 0; 2000 TT<sub>33</sub>, 13, 3, 9; 2000 TV<sub>33</sub>, 3, 1, 0; 2000 TV<sub>33</sub>, 27, 4, 12; 2000 TB<sub>34</sub>, 13, 3, 10; 2000 TC<sub>34</sub>, 28, 6, 57; 2000 TD<sub>34</sub>, 14, 3, 8; 2000 TE<sub>34</sub>, 19, 4, 33; 2000 TJ<sub>34</sub>, 3, 1, 0; 2000 TK<sub>34</sub>, 4, 1, 0; 2000 TM<sub>34</sub>, 4, 1, 0; 2000 TO<sub>34</sub>, 12, 3, 39; 2000 TR<sub>34</sub>, 4, 1, 0; 2000 TS<sub>34</sub>, 3, 1, 0; 2000 TT<sub>34</sub>, 4, 1, 0; 2000 TV<sub>34</sub>, 5, 1, 0; 2000 TZ<sub>34</sub>, 4, 1, 0; 2000 TA<sub>35</sub>, 5, 1, 0; 2000 TB<sub>35</sub>, 4, 1, 0; 2000 TC<sub>35</sub>, 5, 1, 0; 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2000 TZ<sub>36</sub>, 4, 1, 0; 2000 TA<sub>37</sub>, 3, 1, 0; 2000 TB<sub>37</sub>, 4, 1, 0; 2000 TC<sub>37</sub>, 5, 1, 0; 2000 TD<sub>37</sub>, 4, 1, 0; 2000 TE<sub>37</sub>, 5, 1, 0; 2000 TF<sub>37</sub>, 5, 9, 2, 11; 2000 TG<sub>37</sub>, 5, 1, 0; 2000 TH<sub>37</sub>, 5, 1, 0; 2000 TJ<sub>37</sub>, 5, 1, 0; 2000 TK<sub>37</sub>, 4, 1, 0; 2000 TL<sub>37</sub>, 4, 1, 0; 2000 TM<sub>37</sub>, 19, 4, 52; 2000 TN<sub>37</sub>, 12, 3, 36; 2000 TO<sub>37</sub>, 4, 1, 0; 2000 TR<sub>37</sub>, 3, 32, 7, 84; 2000 TS<sub>37</sub>, 4, 1, 0; 2000 TT<sub>37</sub>, 5, 1, 0; 2000 TV<sub>37</sub>, 5, 1, 0; 2000 TV<sub>37</sub>, 14, 3, 34; 2000 TW<sub>37</sub>, 4, 1, 0; 2000 TX<sub>37</sub>, 19, 4, 68; 2000 TY<sub>37</sub>, 4, 1, 0; 2000 TZ<sub>37</sub>, 4, 1, 0; 2000 TA<sub>38</sub>, 4, 1, 0; 2000 TB<sub>38</sub>, 5, 1, 0; 2000 TC<sub>38</sub>, 5, 1, 0; 2000 TD<sub>38</sub>, 29, 6, 78; 2000 TE<sub>38</sub>, 7, 2, 11; 2000 TF<sub>38</sub>, 5, 1, 0; 2000 TG<sub>38</sub>, 4, 1, 0; 2000 TH<sub>38</sub>, 4, 1, 0; 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2000 TB<sub>41</sub>, 5, 1, 0; 2000 TC<sub>41</sub>, 3, 1, 0; 2000 TD<sub>41</sub>, 7, 2, 7; 2000 TE<sub>41</sub>, 4, 1, 0; 2000 TF<sub>41</sub>, 7, 2, 19; 2000 TG<sub>41</sub>, 8, 2, 32; 2000 TH<sub>41</sub>, 3, 1, 0; 2000 TJ<sub>41</sub>, 5, 1, 0; 2000 TK<sub>41</sub>, 5, 1, 0; 2000 TL<sub>41</sub>, 5, 1, 0; 2000 TM<sub>41</sub>, 5, 1, 0; 2000 TN<sub>41</sub>, 5, 1, 0; 2000 TO<sub>41</sub>, 5, 1, 0; 2000 TP<sub>41</sub>, 31, 7, 623; 2000 TQ<sub>41</sub>, 5, 1, 0; 2000 TR<sub>41</sub>, 5, 1, 0; 2000 TS<sub>41</sub>, 5, 1, 0; 2000 TT<sub>41</sub>, 5, 1, 0; 2000 TV<sub>41</sub>, 4, 1, 0; 2000 TW<sub>41</sub>, 5, 1, 0; 2000 TX<sub>41</sub>, 5, 1, 0; 2000 TY<sub>41</sub>, 17, 4, 88; 2000 TZ<sub>41</sub>, 4, 1, 0; 2000 TA<sub>42</sub>, 24, 5, 85; 2000 TB<sub>42</sub>, 4, 1, 0; 2000 TC<sub>42</sub>, 10, 2, 26; 2000 TD<sub>42</sub>, 28, 6, 948; 2000 TE<sub>42</sub>, 5, 1, 0; 2000 TF<sub>42</sub>, 5, 1, 0; 2000 TG<sub>42</sub>, 4, 1, 0; 2000 TH<sub>42</sub>, 4, 1, 0; 2000 TJ<sub>42</sub>, 5, 1, 0; 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6; 2000 TM<sub>46</sub>, 4, 1, 0; 2000 TN<sub>46</sub>, 4, 1, 0; 2000 TO<sub>46</sub>, 4, 1, 0; 2000 TP<sub>46</sub>, 5, 1, 0; 2000 TQ<sub>46</sub>, 3, 1, 0; 2000 TR<sub>46</sub>, 5, 1, 0; 2000 TS<sub>46</sub>, 4, 1, 0; 2000 TT<sub>46</sub>, 4, 1, 0; 2000 TU<sub>46</sub>, 4, 1, 0; 2000 TV<sub>46</sub>, 4, 1, 0; 2000 TW<sub>46</sub>, 5, 1, 0; 2000 TX<sub>46</sub>, 4, 1, 0; 2000 TY<sub>46</sub>, 5, 1, 0; 2000 TZ<sub>46</sub>, 5, 1, 0; 2000 TA<sub>47</sub>, 4, 1, 0; 2000 TB<sub>47</sub>, 15, 4, 63; 2000 TD<sub>47</sub>, 10, 1, 0; 2000 TE<sub>47</sub>, 8, 2, 8; 2000 TF<sub>47</sub>, 4, 1, 0; 2000 TG<sub>47</sub>, 4, 1, 0; 2000 TH<sub>47</sub>, 3, 1, 0; 2000 TJ<sub>47</sub>, 4, 1, 0; 2000 TK<sub>47</sub>, 5, 1, 0; 2000 TL<sub>47</sub>, 4, 1, 0; 2000 TM<sub>47</sub>, 4, 1, 0; 2000 TN<sub>47</sub>, 4, 1, 0; 2000 TO<sub>47</sub>, 5, 1, 0; 2000 TP<sub>47</sub>, 4, 1, 0; 2000 TQ<sub>47</sub>, 4, 1, 0; 2000 TR<sub>47</sub>, 4, 1, 0; 2000 TS<sub>47</sub>, 5, 1, 0; 2000 TT<sub>47</sub>, 4, 1, 0; 2000 TU<sub>47</sub>, 8, 2, 6; 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2000 TG<sub>53</sub>, 5, 1, 0; 2000 TH<sub>53</sub>, 5, 1, 0; 2000 TJ<sub>53</sub>, 4, 1, 0; 2000 TK<sub>53</sub>, 5, 1, 0; 2000 TL<sub>53</sub>, 4, 1, 0; 2000 TM<sub>53</sub>, 5, 1, 0; 2000 TN<sub>53</sub>, 5, 1, 0; 2000 TO<sub>53</sub>, 4, 1, 0; 2000 TP<sub>53</sub>, 9, 2, 30; 2000 TQ<sub>53</sub>, 4, 1, 0; 2000 TR<sub>53</sub>, 4, 1, 0; 2000 TS<sub>53</sub>, 5, 1, 0; 2000 TT<sub>53</sub>, 4, 1, 0; 2000 TV<sub>53</sub>, 3, 1, 0; 2000 TW<sub>53</sub>, 4, 1, 0; 2000 TX<sub>53</sub>, 3, 1, 0; 2000 TY<sub>53</sub>, 8, 2, 28; 2000 TZ<sub>53</sub>, 5, 1, 0; 2000 TA<sub>54</sub>, 5, 1, 0; 2000 TB<sub>54</sub>, 5, 1, 0; 2000 TC<sub>54</sub>, 4, 1, 0; 2000 TD<sub>54</sub>, 4, 1, 0; 2000 TE<sub>54</sub>, 5, 1, 0; 2000 TF<sub>54</sub>, 8, 2, 30; 2000 TG<sub>54</sub>, 14, 3, 30; 2000 TH<sub>54</sub>, 5, 1, 0; 2000 TJ<sub>54</sub>, 3, 1, 0; 2000 TK<sub>54</sub>, 3, 1, 0; 2000 TL<sub>54</sub>, 5, 1, 0; 2000 TM<sub>54</sub>, 4, 1, 0; 2000 TN<sub>54</sub>, 4, 1, 0; 2000 TO<sub>54</sub>, 5, 1, 0; 2000 TP<sub>54</sub>, 5, 1, 0; 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0: 2000 TD<sub>58</sub>, 8, 2, 34; 2000 TB<sub>59</sub>, 5, 1, 0; 2000 TC<sub>59</sub>, 4, 1, 0; 2000 TD<sub>59</sub>, 5, 10; 2000 TE<sub>59</sub>, 5, 1, 0; 2000 TF<sub>59</sub>, 19, 4, 62; 2000 TG<sub>59</sub>, 4, 1, 0; 2000 TH<sub>59</sub>, 3, 1, 0; 2000 TJ<sub>59</sub>, 3, 1, 0; 2000 TK<sub>59</sub>, 45, 8, 67; 2000 TL<sub>59</sub>, 5, 1, 0; 2000 TM<sub>59</sub>, 5, 1, 0; 2000 TN<sub>59</sub>, 5, 1, 0; 2000 TO<sub>59</sub>, 5, 1, 0; 2000 TP<sub>59</sub>, 13, 3, 25; 2000 TQ<sub>59</sub>, 23, 5, 479; 2000 TR<sub>59</sub>, 5, 1, 0; 2000 TS<sub>59</sub>, 4, 1, 0; 2000 TT<sub>59</sub>, 5, 1, 0; 2000 TU<sub>59</sub>, 5, 1, 0; 2000 TV<sub>59</sub>, 5, 1, 0; 2000 TW<sub>59</sub>, 3, 1, 0; 2000 TX<sub>59</sub>, 5, 1, 0; 2000 TY<sub>59</sub>, 5, 1, 0; 2000 TZ<sub>59</sub>, 5, 1, 0; 2000 TA<sub>60</sub>, 5, 1, 0; 2000 TB<sub>60</sub>, 4, 1, 0; 2000 TC<sub>60</sub>, 4, 1, 0; 2000 TD<sub>60</sub>, 5, 1, 0; 2000 TE<sub>60</sub>, 14, 3, 60; 2000 TF<sub>60</sub>, 3, 1, 0; 2000 TG<sub>60</sub>, 5, 1, 0; 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8; 2000 UA<sub>42</sub> \*, 23, 3, 9; 2000 UB<sub>42</sub> \*, 20, 4, 31; 2000 UC<sub>42</sub> \*, 10, 2, 8; 2000 UD<sub>42</sub> \*, 10, 2, 8; 2000 UE<sub>42</sub> \*, 10, 2, 8; 2000 UF<sub>42</sub> \*, 22, 4, 10; 2000 UG<sub>42</sub> \*, 10, 2, 8; 2000 UH<sub>42</sub> \*, 24, 4, 12; 2000 UJ<sub>42</sub> \*, 9, 2, 8; 2000 UK<sub>42</sub> \*, 24, 4, 12; 2000 UL<sub>42</sub> \*, 9, 2, 8; 2000 UM<sub>42</sub> \*, 24, 4, 12; 2000 UN<sub>42</sub> \*, 15, 2, 8; 2000 UO<sub>42</sub> \*, 19, 2, 8; 2000 UP<sub>42</sub> \*, 10, 2, 8; 2000 UQ<sub>42</sub> \*, 10, 2, 8; 2000 UR<sub>42</sub> \*, 10, 2, 8; 2000 US<sub>42</sub> \*, 11, 3, 12; 2000 UT<sub>42</sub> \*, 18, 3, 12; 2000 UU<sub>42</sub> \*, 27, 5, 36; 2000 UV<sub>42</sub> \*, 15, 3, 9; 2000 UW<sub>42</sub> \*, 9, 2, 8; 2000 UX<sub>42</sub> \*, 11, 2, 8; 2000 UY<sub>42</sub> \*, 10, 2, 8; 2000 UZ<sub>42</sub> \*, 15, 2, 8; 2000 UA<sub>43</sub> \*, 14, 2, 8; 2000 UB<sub>43</sub> \*, 8, 2, 8; 2000 UC<sub>43</sub> \*, 10, 2, 8; 2000 UD<sub>43</sub> \*, 10, 2, 8; 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2000 VW<sub>9</sub> \*, 9, 2, 1; 2000 VX<sub>9</sub> \*, 7, 2, 1; 2000 VY<sub>9</sub> \*, 10, 2, 1; 2000 VZ<sub>9</sub> \*, 10, 2, 1; 2000 VA<sub>10</sub> \*, 9, 2, 1; 2000 VB<sub>10</sub> \*, 8, 2, 1; 2000 VC<sub>10</sub> \*, 10, 2, 1; 2000 VD<sub>10</sub> \*, 10, 2, 1; 2000 VE<sub>10</sub> \*, 8, 2, 1; 2000 VF<sub>10</sub> \*, 14, 3, 4; 2000 VG<sub>10</sub> \*, 13, 3, 4; 2000 VH<sub>10</sub> \*, 13, 3, 5; 2000 VJ<sub>10</sub> \*, 7, 2, 1; 2000 VK<sub>10</sub> \*, 10, 2, 1; 2000 VL<sub>10</sub> \*, 10, 2, 1; 2000 VM<sub>10</sub> \*, 10, 2, 1; 2000 VN<sub>10</sub> \*, 9, 2, 1; 2000 VO<sub>10</sub> \*, 10, 2, 1; 2000 VP<sub>10</sub> \*, 15, 3, 4; 2000 VQ<sub>10</sub> \*, 10, 2, 1; 2000 VR<sub>10</sub> \*, 16, 3, 4; 2000 VS<sub>10</sub> \*, 20, 3, 4; 2000 VT<sub>10</sub> \*, 17, 3, 4; 2000 VU<sub>10</sub> \*, 19, 4, 36; 2000 VV<sub>10</sub> \*, 9, 2, 1; 2000 VW<sub>10</sub> \*, 10, 2, 1; 2000 VX<sub>10</sub> \*, 7, 2, 1; 2000 VY<sub>10</sub> \*, 10, 2, 1; 2000 VZ<sub>10</sub> \*, 10, 2, 1; 2000 VA<sub>11</sub> \*, 10, 2, 1; 2000 VB<sub>11</sub> \*, 10, 2, 1; 2000 VC<sub>11</sub> \*, 13, 3, 33; 2000 VD<sub>11</sub> \*, 13, 3, 33; 2000 VE<sub>11</sub> \*, 9, 2, 1; 2000 VF<sub>11</sub> \*, 10, 2, 1; 2000 VG<sub>11</sub> \*, 10, 2, 1; 2000 VH<sub>11</sub> \*, 10, 2, 1; 2000 VJ<sub>11</sub> \*, 9, 2, 1; 2000 VK<sub>11</sub> \*, 8, 2, 1; 2000 VL<sub>11</sub> \*, 6, 2, 1; 2000 VM<sub>11</sub> \*, 10, 2, 1; 2000 VN<sub>11</sub> \*, 10, 2, 1; 2000 VO<sub>11</sub> \*, 10, 2, 1; 2000 VP<sub>11</sub> \*, 9, 2, 1; 2000 VQ<sub>11</sub> \*, 10, 2, 1; 2000 VR<sub>11</sub> \*, 10, 2, 1; 2000 VS<sub>11</sub> \*, 10, 2, 1; 2000 VT<sub>11</sub> \*, 9, 2, 1; 2000 VU<sub>11</sub> \*, 9, 2, 1; 2000 VV<sub>11</sub> \*, 18, 3, 4; 2000 VW<sub>11</sub> \*, 15, 3, 4; 2000 VX<sub>11</sub> \*, 19, 3, 4; 2000 VY<sub>11</sub> \*, 8, 2, 1; 2000 VZ<sub>11</sub> \*, 10, 2, 1; 2000 VA<sub>12</sub> \*, 10, 2, 1;

2000 VB<sub>12</sub> \*, 9, 2, 1; 2000 VC<sub>12</sub> \*, 10, 2, 1; 2000 VD<sub>12</sub> \*, 9, 2, 1; 2000 VE<sub>12</sub> \*, 9, 2, 1; 2000 VF<sub>12</sub> \*, 9, 2, 1; 2000 VG<sub>12</sub> \*, 9, 2, 1; 2000 VH<sub>12</sub> \*, 18, 3, 4; 2000 VJ<sub>12</sub> \*, 15, 3, 4; 2000 VK<sub>12</sub> \*, 13, 3, 4; 2000 VL<sub>12</sub> \*, 9, 2, 1; 2000 VM<sub>12</sub> \*, 10, 2, 1; 2000 VN<sub>12</sub> \*, 9, 2, 1; 2000 VO<sub>12</sub> \*, 21, 4, 12; 2000 VP<sub>12</sub> \*, 15, 3, 4; 2000 VQ<sub>12</sub> \*, 7, 2, 1; 2000 VR<sub>12</sub> \*, 14, 2, 1; 2000 VS<sub>12</sub> \*, 10, 2, 1; 2000 VT<sub>12</sub> \*, 8, 2, 1; 2000 VU<sub>12</sub> \*, 7, 2, 1; 2000 VV<sub>12</sub> \*, 9, 2, 1; 2000 VW<sub>12</sub> \*, 9, 2, 1; 2000 VX<sub>12</sub> \*, 9, 2, 1; 2000 VY<sub>12</sub> \*, 10, 2, 1; 2000 VZ<sub>12</sub> \*, 10, 2, 1; 2000 VA<sub>13</sub> \*, 10, 2, 1; 2000 VB<sub>13</sub> \*, 15, 3, 62; 2000 VC<sub>13</sub> \*, 8, 2, 1; 2000 VD<sub>13</sub> \*, 10, 2, 1; 2000 VE<sub>13</sub> \*, 8, 2, 1; 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2000 VK<sub>14</sub> \*, 17, 3, 5; 2000 VL<sub>14</sub> \*, 10, 2, 1; 2000 VM<sub>14</sub> \*, 22, 4, 5; 2000 VN<sub>14</sub> \*, 9, 2, 1; 2000 VO<sub>14</sub> \*, 9, 2, 1; 2000 VP<sub>14</sub> \*, 10, 2, 1; 2000 VQ<sub>14</sub> \*, 14, 2, 1; 2000 VR<sub>14</sub> \*, 29, 5, 13; 2000 VS<sub>14</sub> \*, 10, 2, 1; 2000 VT<sub>14</sub> \*, 10, 2, 1; 2000 VU<sub>14</sub> \*, 10, 2, 1; 2000 VV<sub>14</sub> \*, 9, 2, 1; 2000 VW<sub>14</sub> \*, 10, 2, 1; 2000 VX<sub>14</sub> \*, 10, 2, 1; 2000 VY<sub>14</sub> \*, 10, 2, 1; 2000 VZ<sub>14</sub> \*, 10, 2, 1; 2000 VA<sub>15</sub> \*, 10, 2, 1; 2000 VB<sub>15</sub> \*, 10, 2, 1; 2000 VC<sub>15</sub> \*, 14, 3, 4; 2000 VD<sub>15</sub> \*, 22, 4, 12; 2000 VE<sub>15</sub> \*, 15, 3, 4; 2000 VF<sub>15</sub> \*, 10, 2, 1; 2000 VG<sub>15</sub> \*, 9, 2, 1; 2000 VH<sub>15</sub> \*, 14, 3, 4; 2000 VJ<sub>15</sub> \*, 10, 2, 1; 2000 VK<sub>15</sub> \*, 12, 3, 4; 2000 VL<sub>15</sub> \*, 9, 2, 1; 2000 VM<sub>15</sub> \*, 10, 2, 1; 2000 VN<sub>15</sub> \*, 10, 2, 1; 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2000 VX<sub>17</sub> \*, 7, 2, 1; 2000 VY<sub>17</sub> \*, 7, 2, 1; 2000 VZ<sub>17</sub> \*, 9, 2, 1; 2000 VA<sub>18</sub> \*, 9, 2, 1; 2000 VB<sub>18</sub> \*, 10, 2, 1; 2000 VC<sub>18</sub> \*, 8, 2, 1; 2000 VD<sub>18</sub> \*, 10, 2, 1; 2000 VE<sub>18</sub> \*, 10, 2, 1; 2000 VF<sub>18</sub> \*, 8, 2, 1; 2000 VG<sub>18</sub> \*, 10, 2, 1; 2000 VH<sub>18</sub> \*, 8, 2, 1; 2000 VJ<sub>18</sub> \*, 10, 2, 1; 2000 VK<sub>18</sub> \*, 10, 2, 1; 2000 VL<sub>18</sub> \*, 15, 3, 9; 2000 VM<sub>18</sub> \*, 10, 2, 1; 2000 VN<sub>18</sub> \*, 9, 2, 1; 2000 VO<sub>18</sub> \*, 10, 2, 1; 2000 VP<sub>18</sub> \*, 8, 2, 1; 2000 VQ<sub>18</sub> \*, 7, 2, 1; 2000 VR<sub>18</sub> \*, 15, 3, 9; 2000 VS<sub>18</sub> \*, 9, 2, 1; 2000 VT<sub>18</sub> \*, 7, 2, 1; 2000 VU<sub>18</sub> \*, 11, 2, 1; 2000 VV<sub>18</sub> \*, 7, 2, 1; 2000 VW<sub>18</sub> \*, 7, 2, 1; 2000 VX<sub>18</sub> \*, 7, 2, 1; 2000 VY<sub>18</sub> \*, 6, 2, 1; 2000 VZ<sub>18</sub> \*, 8, 2, 1; 2000 VA<sub>19</sub> \*, 6, 2, 1; 2000 VB<sub>19</sub> \*, 7, 2, 1; 2000 VC<sub>19</sub> \*, 19, 3, 4; 2000 VD<sub>19</sub> \*, 8, 2, 1; 2000 VE<sub>19</sub> \*, 9, 2, 1; 2000 VF<sub>19</sub> \*, 9, 2, 1; 2000 VG<sub>19</sub> \*, 9, 2, 1; 2000 VH<sub>19</sub> \*, 9, 2, 1; 2000 VJ<sub>19</sub> \*, 11, 3, 4; 2000 VK<sub>19</sub> \*, 9, 2, 1; 2000 VL<sub>19</sub> \*, 8, 2, 1; 2000 VM<sub>19</sub> \*, 9, 2, 1; 2000 VN<sub>19</sub> \*, 7, 2, 1; 2000 VO<sub>19</sub> \*, 9, 2, 1; 2000 VP<sub>19</sub> \*, 7, 2, 1; 2000 VQ<sub>19</sub> \*, 9, 2, 1; 2000 VR<sub>19</sub> \*, 14, 3, 4; 2000 VS<sub>19</sub> \*, 8, 2, 1; 2000 VT<sub>19</sub> \*, 7, 2, 1; 2000 VU<sub>19</sub> \*, 7, 2, 1; 2000 VV<sub>19</sub> \*, 8, 2, 1; 2000 VW<sub>19</sub> \*, 7, 2, 1; 2000 VX<sub>19</sub> \*, 8, 2, 1; 2000 VY<sub>19</sub> \*, 9, 2, 1; 2000 VZ<sub>19</sub> \*, 8, 2, 1; 2000 VA<sub>20</sub> \*, 9, 2, 1; 2000 VB<sub>20</sub> \*, 8, 2, 1; 2000 VC<sub>20</sub> \*, 9, 2, 1; 2000 VD<sub>20</sub> \*, 8, 2, 1; 2000 VE<sub>20</sub> \*, 14, 3, 4; 2000 VF<sub>20</sub> \*, 9, 2, 1; 2000 VG<sub>20</sub> \*, 9, 2,

2, 1; 2000 VR<sub>23</sub> \*, 10, 2, 1; 2000 VS<sub>23</sub> \*, 10, 2, 1; 2000 VT<sub>23</sub> \*, 11, 3, 5; 2000 VU<sub>23</sub> \*, 15, 3, 4; 2000 VV<sub>23</sub> \*, 18, 4, 12; 2000 VW<sub>23</sub> \*, 36, 6, 62; 2000 VX<sub>23</sub> \*, 10, 2, 1; 2000 VY<sub>23</sub> \*, 8, 2, 1; 2000 VZ<sub>23</sub> \*, 10, 2, 1; 2000 VA<sub>24</sub> \*, 10, 2, 1; 2000 VB<sub>24</sub> \*, 8, 2, 1; 2000 VC<sub>24</sub> \*, 9, 2, 1; 2000 VD<sub>24</sub> \*, 8, 2, 1; 2000 VE<sub>24</sub> \*, 10, 2, 1; 2000 VF<sub>24</sub> \*, 10, 2, 1; 2000 VG<sub>24</sub> \*, 10, 2, 1; 2000 VH<sub>24</sub> \*, 9, 2, 1; 2000 VJ<sub>24</sub> \*, 9, 2, 1; 2000 VK<sub>24</sub> \*, 10, 2, 1; 2000 VL<sub>24</sub> \*, 10, 2, 1; 2000 VM<sub>24</sub> \*, 8, 2, 1; 2000 VN<sub>24</sub> \*, 10, 2, 1; 2000 VO<sub>24</sub> \*, 10, 2, 1; 2000 VP<sub>24</sub> \*, 9, 2, 1; 2000 VQ<sub>24</sub> \*, 10, 2, 1; 2000 VR<sub>24</sub> \*, 8, 2, 1; 2000 VS<sub>24</sub> \*, 7, 2, 1; 2000 VT<sub>24</sub> \*, 19, 4, 33; 2000 VU<sub>24</sub> \*, 9, 2, 1; 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2000 VC<sub>33</sub> \*, 13, 3, 33; 2000 VD<sub>33</sub> \*, 10, 2, 1; 2000 VE<sub>33</sub> \*, 9, 2, 1; 2000 VF<sub>33</sub> \*, 12, 3, 56; 2000 VG<sub>33</sub> \*, 10, 2, 1; 2000 VH<sub>33</sub> \*, 8, 2, 1; 2000 VJ<sub>33</sub> \*, 8, 2, 1; 2000 VK<sub>33</sub> \*, 9, 2, 1; 2000 VL<sub>33</sub> \*, 9, 2, 1; 2000 VM<sub>33</sub> \*, 10, 2, 1; 2000 VN<sub>33</sub> \*, 10, 2, 1; 2000 VO<sub>33</sub> \*, 8, 2, 1; 2000 VP<sub>33</sub> \*, 10, 2, 1; 2000 VQ<sub>33</sub> \*, 8, 2, 1; 2000 VR<sub>33</sub> \*, 10, 2, 1; 2000 VS<sub>33</sub> \*, 9, 2, 1; 2000 VT<sub>33</sub> \*, 10, 2, 1; 2000 VU<sub>33</sub> \*, 10, 2, 1; 2000 VV<sub>33</sub> \*, 7, 2, 1; 2000 VW<sub>33</sub> \*, 10, 2, 1; 2000 VX<sub>33</sub> \*, 10, 2, 1; 2000 VY<sub>33</sub> \*, 10, 2, 1; 2000 VZ<sub>33</sub> \*, 10, 2, 1; 2000 VA<sub>34</sub> \*, 10, 2, 1; 2000 VB<sub>34</sub> \*, 8, 2, 1; 2000 VC<sub>34</sub> \*, 7, 2, 1; 2000 VD<sub>34</sub> \*, 10, 2, 1; 2000 VE<sub>34</sub> \*, 9, 2, 1; 2000 VF<sub>34</sub> \*, 10, 2, 1; 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## 709 W & B Observatory, Cloudcroft

W. Offutt, P.O. Drawer 1130, Cloudcroft, NM 88317, U.S.A.

[offutt@galileo.apo.nmsu.edu]

0.60-m  $f/7$  Ritchey-Chrétien + CCD

USNO-SA1.0

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**711 McDonald Observatory**

P. J. Shelus, McDonald Observatory, University of Texas, Austin, TX 78712,  
U.S.A. [pjs@astro.as.utexas.edu]

Observers J. A. Shelus, J. G. Ries, P. J. Shelus, III

0.76-m reflector + CCD

GSC

2000 DP<sub>107</sub>, 3, 1, 0; 2000 JS<sub>66</sub>, 2, 1, 0; 2000 OH, 3, 1, 0; 2000 OJ<sub>8</sub>, 3, 1, 0; 2000 PN<sub>9</sub>, 3, 1, 0;  
2000 RD<sub>53</sub>, 3, 1, 0; 2000 SY<sub>2</sub>, 3, 1, 0; 2000 UV<sub>13</sub>, 3, 1, 0; 2000 UW<sub>13</sub>, 2, 1, 0; 2000 UQ<sub>16</sub>, 3, 1,  
0; 2000 UR<sub>16</sub>, 5, 2, 1; 2000 US<sub>16</sub>, 3, 1, 0; 2000 UT<sub>16</sub>, 3, 1, 0; 2000 UU<sub>16</sub>, 3, 1, 0; 2000 UN<sub>30</sub>, 3,  
1, 0; 2000 UE<sub>110</sub>, 3, 1, 0; (433), 3, 1, 0; [51, 17, 0\*, 2000/10/29–2000/10/30]

**715 Las Cruces**

D. S. Dixon, 5975 Moonrise Vista, Las Cruces, NM 88012, U.S.A.

[ddixon@lascruces.com]

0.3-m  $f/3.5$  Schmidt-Cassegrain + CCD

USNO-A2.0

1989 UD<sub>1</sub>, 3, 1, 0; 1999 JR<sub>21</sub>, 3, 1, 0; 2000 RD<sub>7</sub>, 3, 1, 0; (17048), 3, 1, 0; (17410), 3, 1, 0; [15, 5,  
0\*, 2000/10/30]

**716 Palmer Divide Observatory**

B. D. Warner, 17995 Bakers Farm Rd., Colorado Springs, CO 80908, U.S.A.

[brianw\_mpo@compuserve.com]

0.5-m  $f/4.6$  Richey-Chretien + CCD

GSC, USNO-A2.0, Tycho-2

(1987), 6, 2, 1; (2105), 6, 3, 2; (10936), 4, 2, 2; [16, 3, 0\*, 2000/10/11–2000/10/19]

**719 Etscorn Observatory**

D. A. Klinglesmith III, 1215 Vista Drive, Socorro, NM 87801, U.S.A.

[TheKs@aol.com]

0.355-m Schmidt-Cassegrain + CCD

GSC

2000 US<sub>16</sub>, 2, 1, 0; 2000 UX<sub>18</sub>, 2, 1, 0; [4, 2, 0\*, 2000/10/31]

**725 Fair Oaks Ranch**

J. V. McClusky, McClusky Observatory, 31789 Sunland, Fair Oaks Ranch,  
TX 78015, U.S.A. [mccclusky@lonestar.utsa.edu]

0.46-m  $f/4.5$  Newtonian reflector + CCD

GSC-ACT

1998 UP<sub>8</sub>, 3, 1, 0; [3, 1, 0\*, 2000/02/04]

**726 Brainerd**

J. E. Wentworth, 6469 Madson Ave. N.W., Brainerd, MN 56401, U.S.A.

[jimw@brainerd.net]

0.280-m Schmidt-Cassegrain + CCD

GSC-1.1

1998 UO<sub>1</sub>, 13, 3, 9; 2000 OG<sub>8</sub>, 12, 2, 3; 2000 UG<sub>11</sub>, 52, 4, 7; (17493), 6, 1, 0; (18172), 4, 2, 9;  
[87, 5, 0\*, 2000/10/09–2000/11/05]

**727 Zeno Observatory, Edmond**

T. Stafford, 2947 Village Circle, Edmond, OK 73013, U.S.A.

[tstafford@aignetplex.com]

0.15-m  $f/6$  refractor + CCD

GSC

2000 RN<sub>76</sub>, 3, 1, 0; 2000 SJ<sub>42</sub>, 3, 1, 0; [6, 2, 0\*, 2000/10/17]

**732 Oaxaca**

J. Roe, Apdo. No. 221, MX-68000 Oaxaca, Mexico [jamesroe@antequera.com]

0.25-m  $f/3.4$  reflector + CCD

GSC-ACT

1999 GH<sub>4</sub>, 3, 2, 1; 1999 KY<sub>4</sub>, 6, 2, 1; 1999 KS<sub>5</sub>, 5, 2, 1; 2000 SZ<sub>118</sub>, 4, 2, 1; 2000 UG<sub>11</sub>, 14, 3,  
4; 2000 UJ<sub>15</sub> \*, 13, 5, 6; 2000 UK<sub>15</sub> \*, 15, 6, 6; 2000 UW<sub>16</sub> \*, 5, 2, 1; 2000 UX<sub>16</sub> \*, 11, 5, 5;  
2000 UY<sub>16</sub> \*, 12, 5, 5; 2000 US<sub>19</sub> \*, 13, 4, 4; 2000 VF<sub>3</sub> \*, 4, 2, 2; (5221), 3, 1, 0; [108, 13, 7\*,  
2000/10/28–2000/11/04]

**734 Farpoint Observatory, Eskridge**

G. Hug, RTE 1 Box 35c, Eskridge, KS 66423, U.S.A. [frogstar@kscable.com]

Observers G. Bell, G. Hug, J. Edmonds

Measurers G. Hug, J. Edmonds

0.30-m Schmidt-Cassegrain + CCD

GSC-1.1, USNO-SA1.0

1999 PK<sub>4</sub>, 2, 1, 0; 1999 QA, 2, 1, 0; 1999 QJ<sub>2</sub>, 3, 1, 0; 1999 RF, 3, 1, 0; 1999 RY<sub>3</sub>, 2, 1, 0;  
1999 RU<sub>33</sub>, 2, 1, 0; 1999 RO<sub>73</sub>, 2, 1, 0; 1999 RL<sub>184</sub>, 3, 1, 0; 1999 TA<sub>6</sub>, 5, 2, 42; 1999 TB<sub>291</sub>, 2,  
1, 0; 1999 UV<sub>2</sub>, 2, 1, 0; 1999 VW, 3, 1, 0; 2000 NJ<sub>11</sub>, 2, 1, 0; 2000 OW<sub>1</sub>, 2, 1, 0; 2000 PB<sub>3</sub>, 2, 1,  
0; 2000 QC<sub>25</sub>, 2, 1, 0; 2000 QJ<sub>152</sub>, 4, 1, 0; 2000 RB<sub>8</sub>, 2, 1, 0; 2000 RF<sub>39</sub>, 4, 2, 14; 2000 TA, 2, 1,  
0; 2000 TL<sub>2</sub>, 4, 1, 0; 2000 UH<sub>1</sub>, 3, 1, 0; 2000 UJ<sub>1</sub>, 4, 1, 0; [62, 23, 0\*, 2000/08/11–2000/11/04]

**735 George Observatory, Needville**

W. G. Dillon, 4703 Birkenhead Circle, Missouri City, TX 77459, U.S.A.

[bdillon@houston.geoquest.slb.com]

Observers A. Cruz, W. G. Dillon, J. Dellinger, M. Eastman, L. Casady, K. Rivich,  
C. Gustava, R. Pepper

Measurers W. G. Dillon, K. Rivich

0.46-m reflector + CCD

USNO-A2.0

1998 EQ<sub>1</sub>, 3, 1, 0; 1998 KZ<sub>3</sub>, 3, 1, 0; 2000 SB<sub>87</sub>, 3, 1, 0; 2000 UL \*, 5, 2, 10; [14, 4, 1\*,  
2000/10/19–2000/10/29]

**739 Sunflower Observatory, Olathe**

L. Robinson, Sunflower Observatory, 14680 W. 144 St., Olathe, KS 66062, U.S.A.

[lrobinson@ix.netcom.com]

0.30-m Schmidt-Cassegrain + CCD

GSC-1.1

1989 SJ<sub>5</sub>, 2, 1, 0; 1989 WZ<sub>1</sub>, 3, 1, 0; 1991 DG<sub>1</sub>, 7, 2, 13; 1991 VY<sub>12</sub>, 10, 3, 15; 1992 WQ<sub>1</sub>, 4, 1,  
0; 1992 YU<sub>2</sub>, 8, 2, 1; 1993 OX<sub>11</sub>, 3, 1, 0; 1993 PW<sub>5</sub>, 3, 1, 0; 1993 SG<sub>2</sub>, 3, 1, 0; 1994 AY, 6, 2, 1;  
1994 AC<sub>1</sub>, 4, 1, 0; 1995 SX<sub>52</sub>, 4, 1, 0; 1996 RB<sub>4</sub>, 4, 1, 0; 1996 TH<sub>10</sub>, 4, 1, 0; 1996 VE<sub>8</sub>, 3, 1, 0;  
1997 WJ<sub>36</sub>, 6, 2, 24; 1997 XK<sub>1</sub>, 2, 1, 0; 1997 YY<sub>2</sub>, 3, 1, 0; 1998 AM<sub>10</sub>, 3, 1, 0; 1998 BV, 4, 1, 0;  
1998 CM<sub>3</sub>, 3, 1, 0; 1998 DX<sub>17</sub>, 3, 1, 0; 1998 DH<sub>33</sub>, 3, 1, 0; 1998 FC<sub>30</sub>, 4, 1, 0; 1998 FW<sub>61</sub>, 3, 1, 0;  
1998 FO<sub>104</sub>, 2, 1, 0; 1998 HK<sub>17</sub>, 3, 1, 0; 1998 HA<sub>32</sub>, 3, 1, 0; 1998 KZ<sub>3</sub>, 4, 1, 0; 1998 KM<sub>47</sub>, 9, 3,  
15; 1999 FR<sub>32</sub>, 2, 1, 0; 1999 GF<sub>9</sub>, 4, 1, 0; 1999 GE<sub>17</sub>, 4, 1, 0; 1999 JM<sub>4</sub>, 10, 3, 14; 1999 JX<sub>17</sub>, 4,  
1, 0; 1999 JP<sub>39</sub>, 6, 2, 1; 1999 JV<sub>48</sub>, 2, 1, 0; 1999 JO<sub>50</sub>, 8, 2, 5; 1999 JP<sub>53</sub>, 3, 1, 0; 1999 JT<sub>57</sub>, 4,  
1, 0; 1999 JF<sub>58</sub>, 3, 1, 0; 1999 JP<sub>76</sub>, 4, 1, 0; 1999 JG<sub>78</sub>, 3, 1, 0; 1999 JY<sub>88</sub>, 4, 1, 0; 1999 JK<sub>93</sub>, 4,  
1, 0; 1999 LF<sub>4</sub>, 2, 1, 0; 1999 LL<sub>26</sub>, 3, 1, 0; 1999 NZ<sub>52</sub>, 4, 1, 0; 1999 NB<sub>53</sub>, 6, 2, 2; 2000 DP<sub>107</sub>, 4,  
1, 0; 2000 EZ<sub>148</sub>, 4, 1, 0; 2000 NY<sub>8</sub>, 4, 1, 0; 2000 NN<sub>9</sub>, 2, 1, 0; 2000 NH<sub>10</sub>, 2, 1, 0; 2000 OW<sub>44</sub>, 3,  
1, 0; 2000 OA<sub>49</sub>, 2, 1, 0; 2000 OX<sub>50</sub>, 3, 1, 0; 2000 OS<sub>51</sub>, 3, 1, 0; 2000 OU<sub>52</sub>, 6, 2, 17; 2000 OV<sub>52</sub>,  
8, 2, 1; 2000 PF<sub>8</sub>, 4, 1, 0; 2000 PN<sub>26</sub>, 4, 1, 0; 2000 PT<sub>26</sub>, 3, 1, 0; 2000 PT<sub>27</sub>, 3, 1, 0; 2000 QP<sub>9</sub>,  
9, 3, 14; 2000 QM<sub>122</sub>, 7, 1, 0; 2000 QQ<sub>122</sub>, 3, 1, 0; 2000 QA<sub>123</sub>, 2, 1, 0; 2000 QS<sub>123</sub>, 3, 1, 0;  
2000 QX<sub>123</sub>, 3, 1, 0; 2000 QV<sub>127</sub>, 3, 1, 0; 2000 QY<sub>127</sub>, 6, 2, 1; 2000 QZ<sub>127</sub>, 2, 1, 0; 2000 QL<sub>128</sub>,  
6, 2, 17; 2000 QU<sub>128</sub>, 3, 1, 0; 2000 QN<sub>130</sub>, 3, 1, 0; 2000 QW<sub>131</sub>, 2, 1, 0; 2000 QO<sub>149</sub>, 2, 1, 0;  
2000 QW<sub>150</sub>, 3, 1, 0; 2000 QY<sub>150</sub>, 4, 1, 0; 2000 QD<sub>182</sub>, 3, 1, 0; 2000 QW<sub>182</sub>, 4, 1, 0; 2000 RP<sub>4</sub>, 4,  
1, 0; 2000 RH<sub>5</sub>, 4, 1, 0; 2000 RA<sub>6</sub>, 4, 1, 0; 2000 RD<sub>6</sub>, 13, 4, 7; 2000 RE<sub>6</sub>, 7, 2, 1; 2000 RG<sub>6</sub>, 3, 1,  
0; 2000 RP<sub>6</sub>, 4, 1, 0; 2000 RB<sub>7</sub>, 7, 2, 1; 2000 RH<sub>7</sub>, 8, 2, 1; 2000 RC<sub>30</sub>, 2, 1, 0; 2000 RB<sub>31</sub>, 3, 1, 0;  
2000 RH<sub>31</sub>, 4, 1, 0; 2000 RC<sub>32</sub>, 2, 1, 0; 2000 RB<sub>34</sub>, 13, 3, 7; 2000 RQ<sub>38</sub>, 7, 2, 13; 2000 RV<sub>38</sub>, 5, 2,  
1; 2000 RG<sub>40</sub>, 2, 1, 0; 2000 RM<sub>40</sub>, 3, 1, 0; 2000 RX<sub>40</sub>, 3, 1, 0; 2000 RY<sub>40</sub>, 2, 1, 0; 2000 RC<sub>41</sub>, 4, 1,  
0; 2000 RK<sub>41</sub>, 8, 1, 0; 2000 RM<sub>41</sub>, 3, 1, 0; 2000 RO<sub>41</sub>, 4, 1, 0; 2000 RP<sub>44</sub>, 3, 1, 0; 2000 RR<sub>45</sub>, 12,  
3, 7; 2000 RT<sub>45</sub>, 6, 2, 1; 2000 RW<sub>45</sub>, 7, 2, 1; 2000 RB<sub>46</sub>, 4, 1, 0; 2000 RH<sub>47</sub>, 6, 2, 1; 2000 RB<sub>50</sub>, 4,  
1, 0; 2000 RC<sub>50</sub>, 4, 1, 0; 2000 RR<sub>50</sub>, 8, 2, 5; 2000 RS<sub>50</sub>, 1, 1, 0; 2000 RB<sub>51</sub>, 10, 3, 4; 2000 RP<sub>51</sub>, 3,  
1, 0; 2000 RR<sub>65</sub>, 3, 1, 0; 2000 RZ<sub>65</sub>, 3, 1, 0; 2000 RA<sub>66</sub>, 3, 1, 0; 2000 RC<sub>66</sub>, 4, 1, 0; 2000 RE<sub>66</sub>, 4,  
1, 0; 2000 RD<sub>67</sub>, 8, 2, 1; 2000 RS<sub>68</sub>, 8, 2, 1; 2000 RQ<sub>71</sub>, 11, 3, 7; 2000 RS<sub>71</sub>, 9, 3, 4; 2000 RX<sub>71</sub>, 3,  
1, 0; 2000 RO<sub>72</sub>, 4, 1, 0; 2000 RP<sub>72</sub>, 7, 2, 17; 2000 RT<sub>73</sub>, 8, 2, 1; 2000 RU<sub>73</sub>, 6, 2, 1; 2000 RW<sub>73</sub>,

7, 2, 1; 2000 RE<sub>78</sub>, 4, 1, 0; 2000 RZ<sub>81</sub>, 4, 1, 0; 2000 RM<sub>97</sub>, 2, 1, 0; 2000 RF<sub>99</sub>, 3, 1, 0; 2000 RW<sub>99</sub>, 4, 1, 0; 2000 RC<sub>102</sub>, 4, 1, 0; 2000 RQ<sub>102</sub>, 2, 1, 0; 2000 RT<sub>102</sub>, 2, 1, 0; 2000 RH<sub>104</sub>, 4, 1, 0; 2000 RH<sub>105</sub>, 4, 1, 0; 2000 SA, 3, 1, 0; 2000 SB, 3, 1, 0; 2000 SQ<sub>4</sub>, 3, 1, 0; 2000 SR<sub>4</sub>, 4, 1, 0; 2000 SC<sub>7</sub>, 9, 3, 4; 2000 SD<sub>7</sub>, 3, 1, 0; 2000 SD<sub>23</sub>, 4, 1, 0; 2000 SP<sub>43</sub>, 3, 1, 0; 2000 SJ<sub>44</sub>, 3, 1, 0; 2000 SS<sub>44</sub>, 2, 1, 0; 2000 SC<sub>46</sub>, 3, 1, 0; 2000 SH<sub>46</sub>, 4, 1, 0; 2000 SJ<sub>46</sub>, 3, 1, 0; 2000 SL<sub>52</sub>, 4, 1, 0; 2000 SA<sub>86</sub>, 3, 1, 0; 2000 SV<sub>86</sub>, 3, 1, 0; 2000 SD<sub>87</sub>, 4, 1, 0; 2000 SF<sub>87</sub>, 3, 1, 0; 2000 SH<sub>87</sub>, 3, 1, 0; 2000 SS<sub>87</sub>, 3, 1, 0; 2000 SV<sub>88</sub>, 3, 1, 0; 2000 SO<sub>89</sub>, 3, 1, 0; 2000 SC<sub>91</sub>, 3, 1, 0; 2000 SD<sub>91</sub>, 4, 1, 0; 2000 SW<sub>100</sub>, 4, 1, 0; 2000 SA<sub>101</sub>, 4, 1, 0; 2000 SG<sub>108</sub>, 3, 1, 0; 2000 SO<sub>108</sub>, 3, 1, 0; 2000 SP<sub>108</sub>, 3, 1, 0; 2000 SR<sub>108</sub>, 3, 1, 0; 2000 SU<sub>108</sub>, 3, 1, 0; 2000 SY<sub>108</sub>, 3, 1, 0; 2000 SZ<sub>108</sub>, 3, 1, 0; 2000 SA<sub>109</sub>, 3, 1, 0; 2000 ST<sub>109</sub>, 4, 1, 0; 2000 SF<sub>110</sub>, 2, 1, 0; 2000 SK<sub>110</sub>, 2, 1, 0; 2000 SV<sub>110</sub>, 3, 1, 0; 2000 SZ<sub>110</sub>, 4, 1, 0; 2000 SD<sub>111</sub>, 3, 1, 0; 2000 SK<sub>111</sub>, 3, 1, 0; 2000 SS<sub>112</sub>, 4, 1, 0; 2000 SX<sub>112</sub>, 4, 1, 0; 2000 SN<sub>113</sub>, 3, 1, 0; 2000 SQ<sub>113</sub>, 3, 1, 0; 2000 SX<sub>113</sub>, 2, 1, 0; 2000 SC<sub>114</sub>, 3, 1, 0; 2000 SV<sub>114</sub>, 3, 1, 0; 2000 SY<sub>114</sub>, 4, 1, 0; 2000 SO<sub>115</sub>, 4, 1, 0; 2000 SP<sub>116</sub>, 4, 1, 0; 2000 SX<sub>117</sub>, 4, 1, 0; 2000 SJ<sub>118</sub>, 4, 1, 0; 2000 SS<sub>118</sub>, 4, 1, 0; 2000 SF<sub>119</sub>, 4, 1, 0; 2000 SX<sub>119</sub>, 2, 1, 0; 2000 SG<sub>120</sub>, 4, 1, 0; 2000 SJ<sub>120</sub>, 4, 1, 0; 2000 SM<sub>120</sub>, 3, 1, 0; 2000 SH<sub>121</sub>, 7, 2, 3; 2000 SN<sub>121</sub>, 3, 1, 0; 2000 SO<sub>121</sub>, 2, 1, 0; 2000 SQ<sub>121</sub>, 16, 4, 7; 2000 SW<sub>121</sub>, 11, 3, 4; 2000 SO<sub>140</sub>, 4, 1, 0; 2000 ST<sub>141</sub>, 4, 1, 0; 2000 SD<sub>144</sub>, 3, 1, 0; 2000 SX<sub>144</sub>, 4, 1, 0; 2000 SJ<sub>145</sub>, 3, 1, 0; 2000 SK<sub>145</sub>, 4, 1, 0; 2000 SL<sub>148</sub>, 3, 1, 0; 2000 SP<sub>148</sub>, 4, 1, 0; 2000 SX<sub>148</sub>, 4, 1, 0; 2000 SP<sub>149</sub>, 2, 1, 0; 2000 SR<sub>149</sub>, 4, 1, 0; 2000 SB<sub>150</sub>, 4, 1, 0; 2000 SO<sub>150</sub>, 4, 1, 0; 2000 SJ<sub>151</sub>, 3, 1, 0; 2000 SK<sub>151</sub>, 2, 1, 0; 2000 SN<sub>151</sub>, 3, 1, 0; 2000 SU<sub>151</sub>, 4, 1, 0; 2000 SA<sub>152</sub>, 3, 1, 0; 2000 SC<sub>152</sub>, 7, 2, 14; 2000 SK<sub>152</sub>, 3, 1, 0; 2000 SS<sub>152</sub>, 3, 1, 0; 2000 SV<sub>153</sub>, 10, 3, 4; 2000 SA<sub>154</sub>, 10, 3, 7; 2000 SB<sub>154</sub>, 3, 1, 0; 2000 SF<sub>154</sub>, 4, 1, 0; 2000 SR<sub>154</sub>, 8, 2, 6; 2000 SX<sub>155</sub>, 4, 1, 0; 2000 SE<sub>157</sub>, 4, 1, 0; 2000 SF<sub>157</sub>, 4, 1, 0; 2000 SN<sub>167</sub>, 2, 1, 0; 2000 ST<sub>168</sub>, 3, 1, 0; 2000 SU<sub>169</sub>, 3, 1, 0; 2000 SA<sub>170</sub>, 4, 1, 0; 2000 SD<sub>170</sub>, 4, 1, 0; 2000 SE<sub>170</sub>, 7, 3, 6; 2000 SK<sub>170</sub>, 7, 2, 1; 2000 SM<sub>170</sub>, 4, 1, 0; 2000 SN<sub>170</sub>, 6, 2, 1; 2000 ST<sub>273</sub>, 3, 1, 0; 2000 SJ<sub>277</sub>, 6, 2, 15; 2000 SF<sub>279</sub>, 6, 2, 1; 2000 SB<sub>288</sub>, 3, 1, 0; 2000 SB<sub>300</sub>, 4, 1, 0; 2000 SV<sub>304</sub>, 4, 1, 0; 2000 SH<sub>310</sub>, 2, 1, 0; 2000 SY<sub>310</sub>, 4, 1, 0; 2000 SE<sub>311</sub>, 4, 1, 0; 2000 SR<sub>311</sub>, 4, 1, 0; 2000 TB, 4, 2, 2; 2000 TC, 4, 1, 0; 2000 TR, 2, 1, 0; 2000 TN<sub>2</sub>, 2, 1, 0; 2000 TD<sub>34</sub>, 5, 2, 1; 2000 UG<sub>9</sub>, 3, 1, 0; 2000 UC<sub>11</sub> \*, 15, 5, 17; 2000 UD<sub>11</sub> \*, 12, 4, 17; 2000 UG<sub>11</sub>, 13, 4, 6; 2000 UK<sub>11</sub>, 5, 2, 3; 2000 VG<sub>38</sub> \*, 6, 2, 2; 2554 P-L, 4, 1, 0; 4232 T-2, 4, 1, 0; (47), 3, 1, 0; (91), 2, 1, 0; (223), 3, 1, 0; (267), 3, 1, 0; (276), 3, 1, 0; (331), 3, 1, 0; (346), 3, 1, 0; (348), 3, 1, 0; (541), 3, 1, 0; (577), 3, 1, 0; (584), 3, 1, 0; (591), 2, 1, 0; (638), 3, 1, 0; (665), 3, 1, 0; (705), 4, 1, 0; (733), 3, 1, 0; (753), 3, 1, 0; (757), 3, 1, 0; (769), 3, 1, 0; (860), 3, 1, 0; (884), 3, 1, 0; (908), 3, 1, 0; (981), 3, 1, 0; (982), 3, 1, 0; (1126), 3, 1, 0; (1304), 3, 1, 0; (1544), 3, 1, 0; (1559), 2, 1, 0; (1565), 3, 1, 0; (1613), 4, 1, 0; (1631), 3, 1, 0; (1698), 3, 1, 0; (1771), 3, 1, 0; (1835), 3, 1, 0; (1852), 4, 1, 0; (2137), 3, 1, 0; (2193), 2, 1, 0; (2223), 3, 1, 0; (2273), 4, 1, 0; (2389), 3, 1, 0; (2444), 4, 1, 0; (2555), 3, 1, 0; (2566), 6, 2, 1; (2670), 3, 1, 0; (2692), 2, 1, 0; (2993), 3, 1, 0; (3278), 3, 1, 0; (3816), 4, 1, 0; (3819), 3, 1, 0; (3958), 2, 1, 0; (4006), 3, 1, 0; (4898), 3, 1, 0; (4899), 3, 1, 0; (5135), 3, 1, 0; (5144), 3, 1, 0; (5357), 4, 1, 0; (6984), 3, 1, 0; (7220), 2, 1, 0; (7299), 2, 1, 0; (7338), 3, 1, 0; (7419), 4, 1, 0; (7635), 2, 1, 0; (8303), 2, 1, 0; (8332), 3, 1, 0; (8606), 3, 1, 0; (8682), 3, 1, 0; (8739), 5, 1, 0; (8839), 3, 1, 0; (8889), 4, 1, 0; (8946), 3, 1, 0; (8950), 4, 1, 0; (10374), 2, 1, 0; (10398), 2, 1, 0; (10452), 2, 1, 0; (10498), 4, 1, 0; (10562), 3, 1, 0; (10671), 4, 1, 0; (10700), 3, 1, 0; (10707), 4, 1, 0; (10730), 4, 1, 0; (10767), 2, 1, 0; (10821), 6, 2, 12; (10837), 2, 1, 0; (10936), 3, 1, 0; (11268), 2, 1, 0; (11282), 2, 1, 0; (11589), 4, 1, 0; (11762), 2, 1, 0; (12929), 3, 1, 0; (16439), 4, 1, 0; (16589), 3, 1, 0; (16890), 3, 1, 0; (17109), 3, 1, 0; (17152), 3, 1, 0; (17297), 4, 1, 0; (17308), 3, 1, 0; (17389), 3, 1, 0; (17586), 3, 1, 0; (17611), 4, 1, 0; (17620), 4, 1, 0; (17739), 3, 1, 0; (17778), 4, 1, 0; (17808), 3, 1, 0; (17839), 2, 1, 0; (17861), 2, 1, 0; (17964), 3, 1, 0; (17977), 4, 1, 0; (18005), 2, 1, 0; (18107), 4, 1, 0; (18108), 2, 1, 0; (18153), 3, 1, 0; (18156), 3, 1, 0; [1499, 381, 3\*, 2000/09/21–2000/11/05]

#### 740 SFA Observatory, Nacogdoches

W. D. Bruton, Box 13044, Nacogdoches, TX 75962, U.S.A.

[f-brutonwd@titan.sfasu.edu]

Observers S. P. Scurlock, W. D. Bruton, R. M. Williams

Measurer W. D. Bruton

0.46-m Cassegrain reflector + CCD

GSC-1.1

2000 SH<sub>207</sub>, 13, 3, 3; 2000 UE<sub>11</sub> \*, 18, 4, 8; 2000 UF<sub>11</sub> \*, 9, 2, 2; 2000 UP<sub>12</sub>, 10, 3, 3; 2000 UQ<sub>12</sub>, 7, 2, 1; [57, 5, 2\*, 2000/10/20–2000/10/28]

#### 746 Brooks Observatory, Mt. Pleasant

W. Osborn, Physics Department, Central Michigan University, Mt. Pleasant, MI

48859, U.S.A. [osborn@dune.phy.cmich.edu]

Observers F. Welsh, F. Fuenmayor, W. Osborn

0.40-m  $f/12$  Cassegrain reflector + CCD

USNO-A2.0

2000 QW<sub>7</sub>, 4, 1, 0; 2000 SB<sub>1</sub>, 18, 1, 0; (55), 2, 1, 0; (1780), 2, 1, 0; (18172), 2, 1, 0; [28, 5, 0\*, 2000/08/31–2000/10/23]

#### 750 Hobbs Observatory, Fall Creek

R. Elliott, S475 County Road K, Fall Creek, WI 54742, U.S.A.

[elliottb@uwec.edu]

0.30-m  $f/3.3$  reflector + CCD

GSC-ACT, USNO-A2.0

1999 FR<sub>32</sub>, 3, 1, 0; 1999 JL<sub>24</sub>, 3, 1, 0; 2000 PV<sub>12</sub>, 2, 1, 0; 2000 QM<sub>151</sub>, 3, 1, 0; [11, 4, 0\*, 2000/10/20–2000/11/04]

#### 752 Puckett Observatory, Mountain Town

T. Puckett, P.O. Box 818, Ellijay, GA 30540, U.S.A. [tpuckett@mindspring.com]

Observer T. Puckett

Measurers R. Denny, T. Puckett

0.60-m  $f/5.83$  reflector + CCD

USNO-SA2.0

2000 QW<sub>188</sub>, 3, 1, 0; [3, 1, 0\*, 1999/04/19]

#### 757 High Point

D. K. Chesney, 4210 Lauren Place, High Point, NC 27265, U.S.A.

[dkchesney@hpe.infi.net]

0.25-m Schmidt-Cassegrain + CCD

GSC

2000 VD \*, 4, 2, 1; [4, 1, 1\*, 2000/11/01–2000/11/02]

#### 801 Oak Ridge

R. E. McCrosky, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, Cambridge, MA 02138, U.S.A.

1.5-m reflector + CCD

GSC

1996 BE<sub>13</sub>, 2, 1, 0; 1999 RP<sub>72</sub>, 2, 1, 0; 2000 QH<sub>64</sub>, 2, 1, 0; [6, 3, 0\*, 1995/03/05–1995/12/23]

#### 807 Cerro Tololo

M. W. Buie, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001, U.S.A. [buie@lowell.edu] (1)

J. W. Parker, Southwest Research Institute, 1050 Walnut Street, Suite 426, Boulder, CO 80302, U.S.A. [joel@boulder.swri.edu] (2)

Observers M. W. Buie, S. D. Kern, R. L. Millis, L. H. Wasserman. J. W. Parker

Measurers M. W. Buie, L. H. Wasserman, R. L. Millis, J. L. Elliot, S. D. Kern,

J. J. Qu, C. V. Salyk, J. A. Pate, J. W. Parker

4-m Blanco reflector + CCD

USNO-A2.0

{1} 1979 MT<sub>1</sub>, 2, 1, 0; 1981 EX<sub>27</sub>, 2, 1, 0; 1981 EJ<sub>33</sub>, 2, 1, 0; 1981 EJ<sub>42</sub>, 2, 1, 0; 1981 EV<sub>42</sub>, 2, 1, 0; 1981 EZ<sub>45</sub>, 4, 2, 30; 1986 WP<sub>2</sub>, 2, 1, 0; 1989 AR<sub>5</sub>, 2, 1, 0; 1989 SN<sub>2</sub>, 2, 1, 0; 1990 TJ<sub>10</sub>, 2, 1, 0; 1990 YY, 2, 1, 0; 1991 GA<sub>3</sub>, 2, 1, 0; 1991 KE, 2, 1, 0; 1992 BT<sub>5</sub>, 2, 1, 0; 1993 FU<sub>6</sub>, 2, 1, 0; 1993 FM<sub>8</sub>, 2, 1, 0; 1993 FM<sub>35</sub>, 2, 1, 0; 1993 FM<sub>36</sub>, 2, 1, 0; 1993 FD<sub>47</sub>, 2, 1, 0; 1993 OD<sub>5</sub>, 2, 1, 0; 1993 QE<sub>9</sub>, 2, 1, 0; 1993 TD<sub>5</sub>, 2, 1, 0; 1993 TX<sub>19</sub>, 2, 1, 0; 1994 BA<sub>4</sub>, 2, 1, 0; 1994 JK<sub>3</sub>, 2, 1, 0; 1995 OG, 2, 1, 0; 1996 PW<sub>8</sub>, 2, 1, 0; 1996 RZ<sub>19</sub>, 2, 1, 0; 1996 TH<sub>13</sub>, 2, 1, 0; 1996 DK<sub>8</sub>, 2, 1, 0; 1996 VN, 2, 1, 0; 1996 VK<sub>17</sub>, 2, 1, 0; 1996 VF<sub>39</sub>, 2, 1, 0; 1996 XJ<sub>20</sub>, 2, 1, 0; 1997 HC<sub>3</sub>, 2, 1, 0; 1997 QH<sub>4</sub>, 2, 1, 0; 1997 SL<sub>24</sub>, 2, 1, 0; 1997 UR<sub>6</sub>, 2, 1, 0; 1997 UE<sub>13</sub>, 2, 1, 0; 1997 UB<sub>15</sub>, 2, 1, 0; 1997 WN<sub>12</sub>, 2, 1, 0; 1997 XO, 2, 1, 0; 1997 XS, 2, 1, 0; 1997 XN<sub>10</sub>, 4, 2, 28; 1997 YB<sub>7</sub>, 2, 1, 0; 1997 YC<sub>10</sub>, 4, 2, 1; 1997 YK<sub>10</sub>, 2, 1, 0; 1997 YD<sub>15</sub>, 2, 1, 0; 1997 YP<sub>19</sub>, 2, 1, 0; 1998 BY<sub>6</sub>, 2, 1, 0; 1998 BQ<sub>15</sub>, 2, 1, 0; 1998 CC<sub>2</sub>, 2, 1, 0; 1998 CL<sub>4</sub>, 2, 1, 0; 1998 DQ<sub>3</sub>, 2, 1, 0; 1998 DF<sub>8</sub>, 2, 1, 0; 1998 FG<sub>16</sub>, 2, 1, 0; 1998 FY<sub>27</sub>, 2, 1, 0; 1998 FG<sub>33</sub>, 2, 1, 0; 1998 FF<sub>52</sub>, 2, 1, 0; 1998 FV<sub>98</sub>, 2, 1, 0; 1998 FC<sub>120</sub>, 2, 1, 0; 1998 HX<sub>38</sub>, 2, 1, 0; 1998 KG<sub>62</sub>, 2, 1, 0; 1998 QM<sub>107</sub>, 2, 1, 0; 1999 AU<sub>19</sub>, 2, 1, 0; 1999 AQ<sub>23</sub>, 2, 1, 0; 1999 BP<sub>1</sub>, 2, 1, 0; 1999 BT<sub>11</sub>, 2, 1, 0; 1999 CZ<sub>117</sub>, 2, 1, 0; 1999 FA<sub>9</sub>, 2, 1, 0; 1999 FP<sub>17</sub>, 2, 1, 0; 1999 FE<sub>18</sub>, 2, 1, 0; 1999 FB<sub>25</sub>, 4, 2, 27; 1999 FF<sub>26</sub>, 2, 1, 0; 1999 FM<sub>32</sub>, 2, 1, 0; 1999 FB<sub>51</sub>, 2, 1, 0; 1999 FM<sub>53</sub>, 2, 1, 0; 1999 GQ<sub>7</sub>, 4, 2, 24; 1999 GR<sub>7</sub>, 2, 1, 0; 1999 GK<sub>20</sub>, 2, 1,

0; 1999 GC<sub>34</sub>, 2, 1, 0; 1999 GM<sub>34</sub>, 2, 1, 0; 1999 GW<sub>34</sub>, 2, 1, 0; 1999 GH<sub>35</sub>, 2, 1, 0; 1999 GZ<sub>35</sub>, 2, 1, 0; 1999 GV<sub>51</sub>, 2, 1, 0; 1999 HA<sub>1</sub>, 2, 1, 0; 1999 HS<sub>2</sub>, 2, 1, 0; 1999 JB<sub>9</sub>, 2, 1, 0; 1999 JE<sub>10</sub>, 4, 2, 1; 1999 JV<sub>27</sub>, 2, 1, 0; 1999 JB<sub>32</sub>, 2, 1, 0; 1999 JM<sub>43</sub>, 2, 1, 0; 1999 JY<sub>72</sub>, 2, 1, 0; 1999 JU<sub>75</sub>, 2, 1, 0; 1999 JE<sub>77</sub>, 2, 1, 0; 1999 JF<sub>80</sub>, 2, 1, 0; 1999 JO<sub>82</sub>, 2, 1, 0; 1999 JD<sub>83</sub>, 2, 1, 0; 1999 JF<sub>91</sub>, 2, 1, 0; 1999 JF<sub>96</sub>, 2, 1, 0; 1999 JY<sub>98</sub>, 2, 1, 0; 1999 JA<sub>102</sub>, 2, 1, 0; 1999 JX<sub>102</sub>, 2, 1, 0; 1999 JK<sub>118</sub>, 2, 1, 0; 1999 LF<sub>5</sub>, 2, 1, 0; 1999 OJ<sub>24</sub>, 2, 1, 0; 1999 RW<sub>214</sub>, 2, 1, 0; 1999 RE<sub>215</sub>, 2, 1, 0; 1999 RG<sub>215</sub>, 2, 1, 0; 1999 RH<sub>215</sub>, 2, 1, 0; 1999 RB<sub>216</sub>, 2, 1, 0; 2000 KF<sub>73</sub>, 2, 1, 0; 2000 LG<sub>27</sub>, 4, 2, 1; 2000 LH<sub>28</sub>, 2, 1, 0; 2000 LZ<sub>28</sub>, 2, 1, 0; 2000 LJ<sub>31</sub>, 2, 1, 0; 2000 LL<sub>33</sub>, 2, 1, 0; 2000 LQ<sub>35</sub>, 2, 1, 0; 2000 MA<sub>3</sub>, 2, 1, 0; 2000 NB<sub>2</sub>, 2, 1, 0; 2000 NU<sub>2</sub>, 2, 1, 0; 2000 NX<sub>4</sub>, 2, 1, 0; 2000 NH<sub>10</sub>, 2, 1, 0; 2000 NJ<sub>10</sub>, 2, 1, 0; 2000 NB<sub>13</sub>, 2, 1, 0; 2000 NC<sub>13</sub>, 2, 1, 0; 2000 NP<sub>13</sub>, 2, 1, 0; 2000 NV<sub>13</sub>, 2, 1, 0; 2000 NZ<sub>13</sub>, 2, 1, 0; 2000 NA<sub>14</sub>, 2, 1, 0; 2000 NK<sub>14</sub>, 2, 1, 0; 2000 NL<sub>14</sub>, 2, 1, 0; 2000 NQ<sub>14</sub>, 2, 1, 0; 2000 NZ<sub>14</sub>, 2, 1, 0; 2000 NY<sub>15</sub>, 4, 2, 30; 2000 NF<sub>19</sub>, 2, 1, 0; 2000 NB<sub>20</sub>, 2, 1, 0; 2000 NA<sub>21</sub>, 4, 2, 1; 2000 NG<sub>23</sub>, 2, 1, 0; 2000 NU<sub>23</sub>, 2, 1, 0; 2000 NZ<sub>23</sub>, 2, 1, 0; 2000 NE<sub>25</sub>, 2, 1, 0; 2000 NM<sub>25</sub>, 2, 1, 0; 2000 NR<sub>25</sub>, 2, 1, 0; 2000 NY<sub>25</sub>, 2, 1, 0; 2000 NP<sub>26</sub>, 2, 1, 0; 2000 NF<sub>27</sub>, 2, 1, 0; 2000 NT<sub>27</sub>, 2, 1, 0; 2000 OL<sub>2</sub>, 2, 1, 0; 2000 OT<sub>2</sub>, 2, 1, 0; 2000 OA<sub>1</sub>, 2, 1, 0; 2000 OR<sub>1</sub>, 2, 1, 0; 2000 OW<sub>2</sub>, 2, 1, 0; 2000 OX<sub>2</sub>, 2, 1, 0; 2000 ON<sub>5</sub>, 2, 1, 0; 2000 OG<sub>7</sub>, 2, 1, 0; 2000 OP<sub>8</sub>, 2, 1, 0; 2000 OC<sub>12</sub>, 2, 1, 0; 2000 OD<sub>12</sub>, 2, 1, 0; 2000 OF<sub>12</sub>, 2, 1, 0; 2000 OR<sub>12</sub>, 2, 1, 0; 2000 OT<sub>12</sub>, 2, 1, 0; 2000 OV<sub>14</sub>, 2, 1, 0; 2000 OW<sub>14</sub>, 2, 1, 0; 2000 OX<sub>14</sub>, 2, 1, 0; 2000 OP<sub>15</sub>, 2, 1, 0; 2000 OY<sub>15</sub>, 2, 1, 0; 2000 OO<sub>16</sub>, 2, 1, 0; 2000 OO<sub>17</sub>, 2, 1, 0; 2000 OR<sub>17</sub>, 2, 1, 0; 2000 OW<sub>17</sub>, 2, 1, 0; 2000 OC<sub>18</sub>, 2, 1, 0; 2000 OG<sub>18</sub>, 4, 2, 27; 2000 OB<sub>19</sub>, 2, 1, 0; 2000 OE<sub>19</sub>, 2, 1, 0; 2000 OK<sub>21</sub>, 2, 1, 0; 2000 OE<sub>25</sub>, 2, 1, 0; 2000 OV<sub>26</sub>, 6, 3, 25; 2000 OA<sub>27</sub>, 2, 1, 0; 2000 OD<sub>27</sub>, 2, 1, 0; 2000 OR<sub>27</sub>, 2, 1, 0; 2000 OS<sub>27</sub>, 2, 1, 0; 2000 OP<sub>31</sub>, 2, 1, 0; 2000 OG<sub>32</sub>, 2, 1, 0; 2000 OF<sub>35</sub>, 2, 1, 0; 2000 OQ<sub>35</sub>, 2, 1, 0; 2000 OU<sub>45</sub>, 2, 1, 0; 2000 OK<sub>46</sub>, 2, 1, 0; 2000 OH<sub>52</sub>, 2, 1, 0; 2000 OK<sub>55</sub>, 2, 1, 0; 2000 OV<sub>56</sub>, 2, 1, 0; 2000 OZ<sub>56</sub>, 2, 1, 0; 2000 OC<sub>57</sub>, 2, 1, 0; 2000 OY<sub>57</sub>, 2, 1, 0; 2000 OE<sub>58</sub>, 2, 1, 0; 2000 OM<sub>58</sub>, 2, 1, 0; 2000 OS<sub>58</sub>, 2, 1, 0; 2000 OV<sub>59</sub>, 2, 1, 0; 2000 OP<sub>59</sub>, 2, 1, 0; 2000 OR<sub>59</sub>, 2, 1, 0; 2000 OX<sub>59</sub>, 2, 1, 0; 2000 OY<sub>59</sub>, 2, 1, 0; 2000 OG<sub>60</sub>, 2, 1, 0; 2000 ON<sub>60</sub>, 2, 1, 0; 2000 OA<sub>61</sub>, 2, 1, 0; 2000 OH<sub>67</sub> \*, 4, 2, 30; 2000 OJ<sub>67</sub> \*, 4, 2, 30; 2000 OK<sub>67</sub> \*, 4, 2, 27; 2000 OL<sub>67</sub> \*, 4, 2, 27; 2000 OM<sub>67</sub> \*, 4, 2, 27; 2000 ON<sub>67</sub> \*, 4, 2, 27; 2000 OO<sub>67</sub> \*, 8, 4, 29; 2000 OP<sub>67</sub> \*, 4, 2, 25; 2000 OQ<sub>67</sub> \*, 4, 2, 1; 2000 OR<sub>67</sub>, 2, 1, 0; 2000 OS<sub>67</sub>, 2, 1, 0; 2000 OT<sub>67</sub>, 2, 1, 0; 2000 OU<sub>67</sub>, 2, 1, 0; 2000 OV<sub>67</sub>, 2, 1, 0; 2000 OW<sub>67</sub>, 2, 1, 0; 2000 OX<sub>67</sub> \*, 2, 1, 0; 2000 OY<sub>67</sub> \*, 2, 1, 0; 2000 OZ<sub>67</sub> \*, 2, 1, 0; 2000 OA<sub>68</sub> \*, 2, 1, 0; 2000 OB<sub>68</sub> \*, 2, 1, 0; 2000 OC<sub>68</sub> \*, 2, 1, 0; 2000 OD<sub>68</sub> \*, 2, 1, 0; 2000 OE<sub>68</sub> \*, 2, 1, 0; 2000 OF<sub>68</sub> \*, 2, 1, 0; 2000 OG<sub>68</sub> \*, 2, 1, 0; 2000 OH<sub>68</sub> \*, 2, 1, 0; 2000 OJ<sub>68</sub> \*, 2, 1, 0; 2000 OK<sub>68</sub>, 2, 1, 0; 2000 OL<sub>68</sub>, 2, 1, 0; 2000 OM<sub>68</sub>, 2, 1, 0; 2000 ON<sub>68</sub>, 2, 1, 0; 2000 OO<sub>68</sub>, 2, 1, 0; 2000 OP<sub>68</sub>, 2, 1, 0; 2000 OQ<sub>68</sub>, 2, 1, 0; 2000 OR<sub>68</sub>, 2, 1, 0; 2000 OS<sub>68</sub>, 2, 1, 0; 2000 OT<sub>68</sub>, 2, 1, 0; 2000 OV<sub>68</sub> \*, 2, 1, 0; 2000 OV<sub>68</sub> \*, 2, 1, 0; 2000 OX<sub>68</sub> \*, 2, 1, 0; 2000 OY<sub>68</sub> \*, 2, 1, 0; 2000 OZ<sub>68</sub> \*, 2, 1, 0; 2000 OA<sub>69</sub> \*, 2, 1, 0; 2000 OB<sub>69</sub> \*, 2, 1, 0; 2000 OC<sub>69</sub> \*, 2, 1, 0; 2000 OD<sub>69</sub> \*, 2, 1, 0; 2000 OE<sub>69</sub> \*, 2, 1, 0; 2000 OF<sub>69</sub> \*, 2, 1, 0; 2000 OG<sub>69</sub> \*, 2, 1, 0; 2000 OH<sub>69</sub> \*, 2, 1, 0; 2000 OJ<sub>69</sub> \*, 2, 1, 0; 2000 OK<sub>69</sub> \*, 2, 1, 0; 2000 OL<sub>69</sub> \*, 2, 1, 0; 2000 OM<sub>69</sub> \*, 2, 1, 0; 2000 ON<sub>69</sub> \*, 2, 1, 0; 2000 OO<sub>69</sub> \*, 2, 1, 0; 2000 OP<sub>69</sub> \*, 2, 1, 0; 2000 OQ<sub>69</sub> \*, 2, 1, 0; 2000 OR<sub>69</sub> \*, 2, 1, 0; 2000 OS<sub>69</sub> \*, 2, 1, 0; 2000 PL<sub>2</sub>, 1, 0; 2000 PC<sub>1</sub>, 2, 1, 0; 2000 PK<sub>1</sub>, 2, 1, 0; 2000 PE<sub>2</sub>, 2, 1, 0; 2000 PJ<sub>3</sub>, 2, 1, 0; 2000 PT<sub>5</sub>, 2, 1, 0; 2000 PY<sub>6</sub>, 2, 1, 0; 2000 PU<sub>9</sub>, 2, 1, 0; 2000 PP<sub>12</sub>, 2, 1, 0; 2000 PH<sub>16</sub>, 2, 1, 0; 2000 PY<sub>17</sub>, 2, 1, 0; 2000 PZ<sub>17</sub>, 2, 1, 0; 2000 PL<sub>18</sub>, 2, 1, 0; 2000 PT<sub>18</sub>, 2, 1, 0; 2000 PC<sub>21</sub>, 2, 1, 0; 2000 PH<sub>24</sub>, 2, 1, 0; 2000 PK<sub>25</sub>, 2, 1, 0; 2000 PQ<sub>27</sub>, 2, 1, 0; 2000 PK<sub>30</sub>, 2, 1, 0; 2000 PW<sub>30</sub> \*, 2, 1, 0; 2000 PX<sub>30</sub> \*, 2, 1, 0; 2000 PY<sub>30</sub> \*, 2, 1, 0; 2000 PZ<sub>30</sub> \*, 2, 1, 0; 2000 PA<sub>31</sub> \*, 2, 1, 0; 2000 PB<sub>31</sub> \*, 2, 1, 0; 2000 PC<sub>31</sub> \*, 2, 1, 0; 2000 PD<sub>31</sub> \*, 2, 1, 0; 2000 PF<sub>31</sub> \*, 2, 1, 0; 2000 PG<sub>31</sub> \*, 2, 1, 0; 2000 PH<sub>31</sub> \*, 2, 1, 0; 2000 PJ<sub>31</sub> \*, 2, 1, 0; 2000 PK<sub>31</sub> \*, 2, 1, 0; 2000 PL<sub>31</sub> \*, 2, 1, 0; 2000 QW<sub>2</sub>, 2, 1, 0; 2000 QZ<sub>2</sub>, 2, 1, 0; 2000 QO<sub>2</sub>, 2, 1, 0; 2000 QP<sub>2</sub>, 2, 1, 0; 2000 QS<sub>4</sub>, 2, 1, 0; 2000 QF<sub>5</sub>, 2, 1, 0; 2000 QO<sub>5</sub>, 2, 1, 0; 2000 QO<sub>6</sub>, 2, 1, 0; 2000 QR<sub>6</sub>, 2, 1, 0; 2000 QE<sub>8</sub>, 2, 1, 0; 2000 QF<sub>9</sub>, 4, 2, 1; 2000 QH<sub>9</sub>, 2, 1, 0; 2000 QG<sub>10</sub>, 2, 1, 0; 2000 QK<sub>10</sub>, 2, 1, 0; 2000 QQ<sub>10</sub>, 2, 1, 0; 2000 QS<sub>10</sub>, 2, 1, 0; 2000 QD<sub>11</sub>, 2, 1, 0; 2000 QJ<sub>11</sub>, 2, 1, 0; 2000 QE<sub>12</sub>, 2, 1, 0; 2000 QG<sub>12</sub>, 2, 1, 0; 2000 QN<sub>12</sub>, 2, 1, 0; 2000 QQ<sub>12</sub>, 2, 1, 0; 2000 QB<sub>14</sub>, 2, 1, 0; 2000 QE<sub>14</sub>, 2, 1, 0; 2000 QO<sub>14</sub>, 4, 2, 27; 2000 QP<sub>14</sub>, 2, 1, 0; 2000 QX<sub>14</sub>, 2, 1, 0; 2000 QN<sub>15</sub>, 2, 1, 0; 2000 QR<sub>15</sub>, 2, 1, 0; 2000 QC<sub>17</sub>, 2, 1, 0; 2000 QD<sub>18</sub>, 2, 1, 0; 2000 QH<sub>20</sub>, 2, 1, 0; 2000 QC<sub>21</sub>, 4, 2, 2; 2000 QE<sub>21</sub>, 4, 2, 2; 2000 QF<sub>21</sub>, 2, 1, 0; 2000 QP<sub>22</sub>, 2, 1, 0; 2000 QQ<sub>22</sub>, 2, 1, 0; 2000 QJ<sub>24</sub>, 2, 1, 0; 2000 QT<sub>26</sub>, 2, 1, 0; 2000 QU<sub>26</sub>, 2, 1, 0; 2000 QY<sub>26</sub>, 2, 1, 0; 2000 QZ<sub>27</sub>, 2, 1, 0; 2000 QA<sub>28</sub>, 2, 1, 0; 2000 QB<sub>28</sub>, 2, 1, 0; 2000 QF<sub>28</sub>, 4, 2, 2; 2000 QD<sub>29</sub>, 2, 1, 0; 2000 QE<sub>29</sub>, 2, 1, 0; 2000 QT<sub>33</sub>, 2, 1, 0; 2000 QA<sub>34</sub>, 2, 1, 0; 2000 QR<sub>35</sub>, 2, 1, 0; 2000 QW<sub>35</sub>, 4, 2, 24; 2000 QV<sub>36</sub>, 2, 1, 0; 2000 QY<sub>36</sub>, 2, 1, 0; 2000 QZ<sub>36</sub>, 2, 1, 0; 2000 QK<sub>37</sub>, 2, 1, 0; 2000 QJ<sub>37</sub>, 2, 1, 0; 2000 QX<sub>37</sub>, 4, 2, 1; 2000 QL<sub>38</sub>, 2, 1, 0; 2000 QM<sub>38</sub>, 2, 1, 0; 2000 QN<sub>38</sub>, 2, 1, 0; 2000 QC<sub>39</sub>, 2, 1, 0; 2000 QL<sub>39</sub>, 2, 1, 0; 2000 QR<sub>39</sub>, 2, 1, 0; 2000 QS<sub>39</sub>, 2, 1, 0; 2000 QB<sub>40</sub>, 2, 1, 0; 2000 QE<sub>40</sub>, 2, 1, 0; 2000 QT<sub>40</sub>, 2, 1, 0; 2000 QW<sub>40</sub>, 2, 1, 0; 2000 QZ<sub>40</sub>, 2, 1, 0; 2000 QH<sub>41</sub>, 2, 1, 0; 2000 QT<sub>41</sub>, 2, 1, 0; 2000 QE<sub>42</sub>, 4, 2, 30; 2000 QF<sub>42</sub>, 2, 1, 0; 2000 QH<sub>42</sub>, 2, 1, 0; 2000 QW<sub>42</sub>, 2, 1, 0; 2000 QA<sub>43</sub>, 2, 1, 0; 2000 QD<sub>43</sub>, 2, 1, 0; 2000 QE<sub>43</sub>, 2, 1, 0; 2000 QL<sub>43</sub>, 2, 1, 0; 2000 QO<sub>43</sub>, 4, 2, 25; 2000 QM<sub>44</sub>, 2, 1, 0; 2000 QN<sub>44</sub>, 2, 1, 0; 2000 QP<sub>44</sub>, 2, 1, 0; 2000 QC<sub>45</sub>, 2, 1, 0; 2000 QN<sub>45</sub>, 2, 1, 0; 2000 QO<sub>45</sub>, 2, 1, 0; 2000 QD<sub>46</sub>, 2, 1, 0; 2000 QS<sub>46</sub>, 2, 1, 0; 2000 QO<sub>47</sub>, 2, 1, 0; 2000 QF<sub>47</sub>, 2, 1, 0; 2000 QG<sub>48</sub>, 2, 1, 0; 2000 QO<sub>48</sub>, 2, 1, 0; 2000 QP<sub>48</sub>, 2, 1, 0; 2000 QN<sub>48</sub>, 2, 1, 0; 2000 QS<sub>51</sub>, 2, 1, 0; 2000 QY<sub>52</sub>, 2, 1, 0; 2000 QW<sub>53</sub>, 2, 1, 0; 2000 QA<sub>55</sub>, 2, 1, 0; 2000 QR<sub>56</sub>, 2, 1, 0; 2000 QG<sub>57</sub>, 2, 1, 0; 2000 QM<sub>57</sub>, 2, 1, 0; 2000 QO<sub>57</sub>, 2, 1, 0; 2000 QU<sub>57</sub>, 2, 1, 0; 2000 QW<sub>57</sub>, 2, 1, 0; 2000 QU<sub>59</sub>,

2, 1, 0; 2000 QC<sub>60</sub>, 4, 2, 1; 2000 QJ<sub>61</sub>, 2, 1, 0; 2000 QO<sub>68</sub>, 2, 1, 0; 2000 QB<sub>70</sub>, 2, 1, 0; 2000 QE<sub>71</sub>, 2, 1, 0; 2000 QH<sub>71</sub>, 2, 1, 0; 2000 QK<sub>71</sub>, 2, 1, 0; 2000 QA<sub>72</sub>, 2, 1, 0; 2000 QH<sub>72</sub>, 2, 1, 0; 2000 QM<sub>72</sub>, 2, 1, 0; 2000 QQ<sub>73</sub>, 2, 1, 0; 2000 QB<sub>74</sub>, 2, 1, 0; 2000 QD<sub>74</sub>, 2, 1, 0; 2000 QR<sub>75</sub>, 2, 1, 0; 2000 QD<sub>79</sub>, 4, 2, 1; 2000 QG<sub>80</sub>, 4, 2, 1; 2000 QC<sub>80</sub>, 2, 1, 0; 2000 QG<sub>80</sub>, 2, 1, 0; 2000 QL<sub>80</sub>, 2, 1, 0; 2000 QM<sub>80</sub>, 2, 1, 0; 2000 QN<sub>80</sub>, 2, 1, 0; 2000 QO<sub>80</sub>, 2, 1, 0; 2000 QZ<sub>80</sub>, 2, 1, 0; 2000 QN<sub>81</sub>, 2, 1, 0; 2000 QU<sub>82</sub>, 2, 1, 0; 2000 QW<sub>82</sub>, 2, 1, 0; 2000 QK<sub>83</sub>, 2, 1, 0; 2000 QN<sub>83</sub>, 2, 1, 0; 2000 QL<sub>85</sub>, 2, 1, 0; 2000 QC<sub>87</sub>, 2, 1, 0; 2000 QA<sub>88</sub>, 2, 1, 0; 2000 QK<sub>88</sub>, 2, 1, 0; 2000 QZ<sub>88</sub>, 2, 1, 0; 2000 QA<sub>89</sub>, 2, 1, 0; 2000 QN<sub>93</sub>, 4, 2, 1; 2000 QX<sub>93</sub>, 2, 1, 0; 2000 QY<sub>93</sub>, 2, 1, 0; 2000 QJ<sub>95</sub>, 2, 1, 0; 2000 QO<sub>97</sub>, 2, 1, 0; 2000 QS<sub>97</sub>, 2, 1, 0; 2000 QS<sub>109</sub>, 2, 1, 0; 2000 QC<sub>110</sub>, 2, 1, 0; 2000 QD<sub>110</sub>, 2, 1, 0; 2000 QK<sub>112</sub>, 2, 1, 0; 2000 QZ<sub>112</sub>, 2, 1, 0; 2000 QX<sub>113</sub>, 4, 2, 1; 2000 QE<sub>114</sub>, 2, 1, 0; 2000 QU<sub>124</sub>, 2, 1, 0; 2000 QE<sub>129</sub>, 2, 1, 0; 2000 QA<sub>131</sub>, 2, 1, 0; 2000 QC<sub>131</sub>, 2, 1, 0; 2000 QP<sub>132</sub>, 2, 1, 0; 2000 QQ<sub>132</sub>, 2, 1, 0; 2000 QU<sub>132</sub>, 2, 1, 0; 2000 QA<sub>133</sub>, 2, 1, 0; 2000 QQ<sub>133</sub>, 2, 1, 0; 2000 QN<sub>134</sub>, 2, 1, 0; 2000 QF<sub>136</sub>, 2, 1, 0; 2000 QY<sub>152</sub>, 2, 1, 0; 2000 QG<sub>169</sub>, 2, 1, 0; 2000 QJ<sub>169</sub>, 2, 1, 0; 2000 QG<sub>170</sub>, 2, 1, 0; 2000 QL<sub>170</sub>, 2, 1, 0; 2000 QO<sub>174</sub>, 2, 1, 0; 2000 QK<sub>179</sub>, 2, 1, 0; 2000 QQ<sub>179</sub>, 2, 1, 0; 2000 QX<sub>183</sub>, 2, 1, 0; 2000 QF<sub>199</sub>, 2, 1, 0; 2000 QG<sub>226</sub>, 2, 1, 0; 2000 QK<sub>236</sub>, 2, 1, 0; 2000 QA<sub>243</sub> \*, 3, 2, 1; 2000 QB<sub>243</sub> \*, 4, 3, 3; 2000 QC<sub>243</sub> \*, 2, 1, 0; 2000 QD<sub>243</sub> \*, 4, 2, 2; 2000 QE<sub>243</sub> \*, 4, 2, 1; 2000 QF<sub>243</sub> \*, 4, 2, 2; 2000 QH<sub>243</sub>, 2, 1, 0; 2000 QJ<sub>243</sub>, 2, 1, 0; 2000 QK<sub>243</sub>, 2, 1, 0; 2000 QL<sub>243</sub>, 2, 1, 0; 2000 QM<sub>243</sub>, 2, 1, 0; 2000 QN<sub>243</sub>, 2, 1, 0; 2000 QO<sub>243</sub>, 2, 1, 0; 2000 QT<sub>243</sub>, 2, 1, 0; 2000 QZ<sub>243</sub>, 2, 1, 0; 2000 QR<sub>243</sub>, 2, 1, 0; 2000 QS<sub>243</sub>, 2, 1, 0; 2000 QV<sub>243</sub>, 2, 1, 0; 2000 QW<sub>243</sub>, 2, 1, 0; 2000 QX<sub>243</sub>, 2, 1, 0; 2000 QY<sub>243</sub>, 2, 1, 0; 2000 QZ<sub>243</sub>, 2, 1, 0; 2000 QA<sub>244</sub>, 2, 1, 0; 2000 QB<sub>244</sub>, 2, 1, 0; 2000 QC<sub>244</sub>, 2, 1, 0; 2000 QD<sub>244</sub>, 2, 1, 0; 2000 QE<sub>244</sub>, 2, 1, 0; 2000 QF<sub>244</sub>, 2, 1, 0; 2000 QG<sub>244</sub>, 2, 1, 0; 2000 QH<sub>244</sub>, 2, 1, 0; 2000 QJ<sub>244</sub>, 2, 1, 0; 2000 QK<sub>244</sub>, 2, 1, 0; 2000 QL<sub>244</sub>, 2, 1, 0; 2000 QM<sub>244</sub>, 2, 1, 0; 2000 QN<sub>244</sub>, 2, 1, 0; 2000 QO<sub>244</sub> \*, 2, 1, 0; 2000 QP<sub>244</sub> \*, 2, 1, 0; 2000 QQ<sub>244</sub> \*, 2, 1, 0; 2000 QR<sub>244</sub> \*, 2, 1, 0; 2000 QS<sub>244</sub> \*, 2, 1, 0; 2000 QT<sub>244</sub> \*, 2, 1, 0; 2000 QU<sub>244</sub> \*, 2, 1, 0; 2000 QV<sub>244</sub> \*, 2, 1, 0; 2000 QW<sub>244</sub> \*, 2, 1, 0; 2000 QX<sub>244</sub> \*, 2, 1, 0; 2000 QY<sub>244</sub> \*, 2, 1, 0; 2000 QZ<sub>244</sub> \*, 2, 1, 0; 2000 QA<sub>245</sub> \*, 2, 1, 0; 2000 QB<sub>245</sub> \*, 2, 1, 0; 2000 QC<sub>245</sub> \*, 2, 1, 0; 2000 QD<sub>245</sub> \*, 2, 1, 0; 2000 QE<sub>245</sub> \*, 2, 1, 0; 2000 QF<sub>245</sub> \*, 2, 1, 0; 2000 QG<sub>245</sub> \*, 2, 1, 0; 2000 QH<sub>245</sub> \*, 2, 1, 0; 2000 QJ<sub>245</sub> \*, 2, 1, 0; 2000 QK<sub>245</sub> \*, 2, 1, 0; 2000 QL<sub>245</sub> \*, 2, 1, 0; 2000 QM<sub>245</sub> \*, 2, 1, 0; 2000 QN<sub>245</sub> \*, 2, 1, 0; 2000 QO<sub>245</sub> \*, 2, 1, 0; 2000 QP<sub>245</sub> \*, 2, 1, 0; 2000 QQ<sub>245</sub> \*, 2, 1, 0; 2000 QR<sub>245</sub> \*, 2, 1, 0; 2000 QS<sub>245</sub> \*, 2, 1, 0; 2000 QT<sub>245</sub> \*, 2, 1, 0; 2000 QU<sub>245</sub> \*, 2, 1, 0; 2000 QV<sub>245</sub> \*, 2, 1, 0; 2000 QW<sub>245</sub> \*, 2, 1, 0; 2000 QX<sub>245</sub> \*, 2, 1, 0; 2000 QY<sub>245</sub> \*, 2, 1, 0; 2000 QZ<sub>245</sub> \*, 2, 1, 0; 2000 QA<sub>246</sub>, 2, 1, 0; 2000 QB<sub>246</sub>, 2, 1, 0; 2000 QC<sub>246</sub>, 2, 1, 0; 2000 QD<sub>246</sub>, 2, 1, 0; 2000 QE<sub>246</sub> \*, 2, 1, 0; 2000 QF<sub>246</sub> \*, 2, 1, 0; 2000 QG<sub>246</sub> \*, 2, 1, 0; 2000 QH<sub>246</sub> \*, 2, 1, 0; 2000 QJ<sub>246</sub>, 2, 1, 0; 2000 QL<sub>246</sub> \*, 2, 1, 0; 2000 QM<sub>246</sub> \*, 2, 1, 0; 2000 QN<sub>246</sub> \*, 2, 1, 0; 2000 QO<sub>246</sub> \*, 2, 1, 0; 2000 QP<sub>246</sub> \*, 2, 1, 0; 2000 QQ<sub>246</sub> \*, 2, 1, 0; 2000 QR<sub>246</sub> \*, 2, 1, 0; 2000 QS<sub>246</sub> \*, 2, 1, 0; 2000 QV<sub>246</sub> \*, 2, 1, 0; 2000 QW<sub>246</sub> \*, 2, 1, 0; 2000 QX<sub>246</sub> \*, 2, 1, 0; 2000 QY<sub>246</sub> \*, 2, 1, 0; 2000 QZ<sub>246</sub> \*, 2, 1, 0; 2000 QA<sub>247</sub> \*, 2, 1, 0; 2000 QB<sub>247</sub> \*, 2, 1, 0; 2000 QC<sub>247</sub> \*, 2, 1, 0; 2000 QD<sub>247</sub> \*, 2, 1, 0; 2000 QE<sub>247</sub> \*, 2, 1, 0; 2000 QG<sub>247</sub> \*, 2, 1, 0; 2000 QH<sub>247</sub> \*, 2, 1, 0; 2000 QJ<sub>247</sub> \*, 2, 1, 0; 2000 QK<sub>247</sub> \*, 2, 1, 0; 2000 QL<sub>247</sub> \*, 2, 1, 0; 2000 QM<sub>247</sub> \*, 2, 1, 0; 2000 QN<sub>247</sub> \*, 2, 1, 0; 2000 QO<sub>247</sub> \*, 2, 1, 0; 2000 QP<sub>247</sub> \*, 2, 1, 0; 2000 QR<sub>247</sub> \*, 2, 1, 0; 2000 QS<sub>247</sub> \*, 2, 1, 0; 2000 QT<sub>247</sub> \*, 2, 1, 0; 2000 QU<sub>247</sub> \*, 2, 1, 0; 2000 QV<sub>247</sub> \*, 2, 1, 0; 2000 QW<sub>247</sub> \*, 2, 1, 0; 2000 QX<sub>247</sub> \*, 2, 1, 0; 2000 QY<sub>247</sub> \*, 2, 1, 0; 2000 QZ<sub>247</sub> \*, 2, 1, 0; 2000 QA

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0.5-m  $f/7.5$  double astrograph + CCD  
GSC-1.1

1992 YH, 3, 2, 12; 1993 QW, 2, 1, 0; 1994 VG<sub>2</sub>, 2, 1, 0; 1996 LK<sub>1</sub>, 4, 2, 11; 1996 XH<sub>18</sub>, 2, 1, 0; 1997 UH<sub>9</sub>, 2, 1, 0; 1997 XM<sub>5</sub>, 2, 1, 0; 1998 QH<sub>2</sub>, 2, 1, 0; 1998 QH<sub>56</sub>, 1, 1, 0; 1998 SG<sub>36</sub>, 2, 1, 0; 1999 AR<sub>7</sub>, 2, 1, 0; 1999 HD<sub>2</sub>, 4, 2, 11; 1999 JA<sub>12</sub>, 2, 1, 0; 1999 JW<sub>60</sub>, 2, 1, 0; 1999 KV<sub>4</sub>, 1, 1, 0; 2000 GK<sub>137</sub>, 2, 1, 0; 2000 ON, 6, 2, 1; 2000 OB<sub>22</sub>, 2, 1, 0; 2000 PZ<sub>5</sub>, 2, 1, 0; 2000 PH<sub>6</sub>, 4, 2, 11; 2000 PN<sub>9</sub>, 2, 1, 0; 2000 RS<sub>11</sub>, 6, 2, 11; 2000 SY<sub>2</sub>, 2, 1, 0; 2000 SC<sub>8</sub>, 2, 1, 0; 2000 SA<sub>10</sub>, 2, 1, 0; 2000 TG<sub>2</sub>, 2, 1, 0; 2000 UH<sub>1</sub>, 37, 3, 2; 2000 UU<sub>16</sub>, 4, 1, 0; 2000 UN<sub>30</sub>, 5, 2, 2; 2000 UE<sub>110</sub>, 6, 2, 2; (617), 2, 1, 0; (1468), 2, 1, 0; (1951), 2, 1, 0; (2100), 2, 1, 0; (2204), 2, 1, 0; (3040), 6, 2, 2; (3102), 2, 1, 0; (3392), 2, 1, 0; (4378), 4, 2, 2; (4486), 2, 1, 0; (4857), 3, 2, 2; (5271), 2, 1, 0; (5378), 2, 1, 0; (5751), 2, 1, 0; (6129), 3, 2, 1; (6454), 1, 1, 0; (8548), 3, 2, 2; (8656), 2, 1, 0; (9511), 3, 2, 2; (10563), 2, 1, 0; (11096), 2, 1, 0; (11552), 2, 1, 0; (13003), 2, 1, 0; (16932), 2, 1, 0; (16975), 2, 1, 0; (17357), 2, 1, 0; (17448), 2, 1, 0; (17479), 2, 1, 0; (17518), 2, 1, 0; (17576), 2, 1, 0; (17625), 2, 1, 0; (17711), 4, 2, 11; (17757), 4, 2, 9; (18007), 2, 1, 0; (18106), 4, 2, 3; [202, 65, 0\*, 1994/12/05–2000/11/02]

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M. Ripepi

Measurers E. W. Elst, O. Hernius, C.-I. Lagerkvist, A. Niemi, O. Karlsson,  
H. Debehogne, F. Colas, R. Scarpa, G. Marconi

2.2-m reflector + CCD, 1.0-m Schmidt, Bochum telescope + CCD

DSS, USNO-A2.0, GSC

{0} 2000 RR<sub>42</sub>, 3, 2, 2; 2000 UM<sub>16</sub> \*, 3, 2, 2; [6, 2, 1\*, 2000/10/28–2000/10/30]

{4} 1985 QL<sub>3</sub>, 6, 2, 10; 1986 TP<sub>1</sub>, 3, 1, 0; 1989 TE<sub>3</sub>, 3, 1, 0; 1991 BC<sub>1</sub>, 3, 1, 0; 1992 GS<sub>1</sub>, 3, 1, 0; 1993 BY<sub>7</sub>, 3, 1, 0; 1993 OR<sub>10</sub>, 3, 1, 0; 1993 QW<sub>3</sub>, 3, 1, 0; 1993 RT<sub>5</sub>, 3, 1, 0; 1993 SH<sub>5</sub>, 3, 1, 0; 1993 TL<sub>1</sub>, 6, 2, 10; 1993 TO<sub>1</sub>, 3, 1, 0; 1993 UC<sub>5</sub>, 3, 1, 0; 1994 PQ<sub>3</sub>, 3, 1, 0; 1994 PM<sub>11</sub>, 3, 1, 0; 1994 PE<sub>15</sub>, 3, 1, 0; 1994 PS<sub>21</sub>, 6, 2, 1; 1994 RJ<sub>24</sub>, 3, 1, 0; 1994 RN<sub>25</sub>, 3, 1, 0; 1996 HK<sub>6</sub>, 3, 1, 0; 1996 JX<sub>3</sub>, 3, 1, 0; 1996 NC<sub>4</sub>, 3, 1, 0; 1996 PX<sub>5</sub>, 3, 1, 0; 1996 PB<sub>6</sub>, 3, 1, 0; 1997 EU<sub>47</sub>, 3, 1, 0; 1997 KZ<sub>3</sub>, 3, 1, 0; 1998 CA<sub>3</sub>, 3, 1, 0; 1998 CS<sub>4</sub>, 3, 1, 0; 1998 DC<sub>13</sub>, 6, 2, 49; 1998 FG<sub>90</sub>, 3, 1, 0; 1998 FS<sub>109</sub>, 3, 1, 0; 1998 GZ<sub>12</sub>, 3, 1, 0; 1998 HW<sub>102</sub>, 3, 1, 0; 1998 KU<sub>7</sub>, 3, 1, 0; 1998 QU<sub>38</sub>, 6, 2, 1; 1998 UP<sub>8</sub>, 3, 1, 0; 1999 BE<sub>10</sub>, 6, 2, 1042; 1999 CN, 4, 2, 12; 1999 CF<sub>53</sub>, 3, 1, 0; 1999 GO<sub>12</sub>, 3, 1, 0; 1999 GK<sub>25</sub>, 3, 1, 0; 1999 JF<sub>25</sub>, 3, 1, 0; 1999 JJ<sub>36</sub>, 6, 2, 12; 1999 JZ<sub>53</sub>, 6, 2, 536; 1999 JD<sub>61</sub>, 3, 1, 0; 1999 JK<sub>61</sub>, 3, 1, 0; 1999 JF<sub>72</sub>, 3, 1, 0; 1999 JQ<sub>119</sub>, 3, 1, 0; 1999 JZ<sub>120</sub>, 3, 1, 0; 1999 KY<sub>15</sub>, 3, 1, 0; 1999 RW<sub>134</sub>, 7, 2, 11; 1999 RG<sub>147</sub>, 3, 1, 0; 1999 TR<sub>20</sub>, 3, 1, 0; 1999 TG<sub>98</sub>, 9, 3, 11; 1999 UH<sub>9</sub>, 3, 1, 0; 1999 UG<sub>50</sub>, 3, 1, 0; 1999 VG<sub>83</sub>, 3, 1, 0; 1999 XQ<sub>216</sub>, 3, 1, 0; 1999 XB<sub>217</sub>, 6, 2, 9; 1999 YC<sub>14</sub>, 3, 1, 0; 2000 AN<sub>46</sub>, 3, 1, 0; 2000 AX<sub>46</sub>, 3, 1, 0; 2000 AZ<sub>171</sub>, 3, 1, 0; 2000 CG<sub>13</sub>, 6, 2, 26; 2000 EQ<sub>3</sub>, 3, 1, 0; 2000 EH<sub>43</sub>, 3, 1, 0; 2000 ES<sub>79</sub>, 3, 1, 0; 2000 EU<sub>126</sub>, 3, 1, 0; 2000 EH<sub>147</sub>, 3, 1, 0; 2000 FL<sub>30</sub>, 3, 1, 0; 2000 GD<sub>74</sub>, 3, 1, 0; 2000 GG<sub>123</sub>, 3, 1, 0; 2000 HY<sub>31</sub>, 3, 1, 0; 2000 HM<sub>32</sub>, 1, 1, 0; 2000 KN<sub>39</sub>, 5, 1, 0; 2000 KS<sub>73</sub>, 6, 2, 7; 2000 LB<sub>21</sub>, 3, 1, 0; 2000 LQ<sub>35</sub>, 3, 1, 0; 2000 NO<sub>16</sub>, 3, 1, 0; 2000 ND<sub>23</sub>, 3, 1, 0; 2000 OY<sub>2</sub>, 3, 1, 0; 2000 OW<sub>8</sub>, 3, 1, 0; 2000 OC<sub>11</sub>, 3, 1, 0; 2000 OP<sub>22</sub>, 3, 1, 0; 2000 OB<sub>45</sub>, 3, 1, 0; 2000 PE<sub>15</sub>, 3, 1, 0; 2000 QR<sub>11</sub>, 3, 1, 0; 2000 QJ<sub>13</sub>, 6, 2, 6; 2000 QT<sub>27</sub>, 6, 2, 7; 2000 QF<sub>44</sub>, 3, 1, 0; 2000 QR<sub>45</sub>, 9, 3, 3; 2000 QY<sub>64</sub>, 3, 1, 0; 2000 QT<sub>86</sub>, 6, 2, 31; 2000 QQ<sub>94</sub>, 3, 1, 0; 2000 QZ<sub>131</sub>, 3, 1, 0; 2000 QU<sub>132</sub>, 3, 1, 0; 2000 QX<sub>138</sub>, 3, 1, 0; 2000 QZ<sub>215</sub>, 6, 1, 0; 2000 QW<sub>227</sub>, 6, 2, 10; 2000 RO<sub>25</sub>, 3, 1, 0; 2000 RS<sub>49</sub>, 3, 1, 0; 2000 RT<sub>95</sub>, 3, 1, 0; 2000 RH<sub>100</sub>, 3, 1, 0; 2000 RY<sub>103</sub>, 6, 2, 1; 2000 SK<sub>42</sub>, 3, 1, 0; 2000 SD<sub>50</sub>, 6, 2, 24; 2000 SZ<sub>80</sub>, 3, 1, 0; 2000 SC<sub>86</sub>, 3, 1, 0; 2000 SM<sub>86</sub>, 3, 1, 0; 2000 SD<sub>105</sub>, 6, 2, 1; 2000 SR<sub>108</sub>, 3, 1, 0; 2000 ST<sub>111</sub>, 3, 1, 0; 2000 SK<sub>111</sub>, 3, 1, 0; 2000 SB<sub>117</sub>, 3, 1, 0; 2000 SG<sub>123</sub>, 3, 1, 0; 2000 SL<sub>126</sub>, 3, 1, 0; 2000 SO<sub>140</sub>, 3, 1, 0; 2000 SQ<sub>147</sub>, 3, 1, 0; 2000 SP<sub>148</sub>, 3, 1, 0; 2000 SB<sub>150</sub>, 3, 1, 0; 2000 ST<sub>183</sub>, 6, 2, 7; 2000 SW<sub>209</sub>, 3,

1, 0; 2000 SS<sub>274</sub>, 6, 2, 11; 2000 SY<sub>307</sub>, 3, 1, 0; 2000 SY<sub>319</sub>, 3, 1, 0; 2000 SL<sub>323</sub>, 3, 1, 0; 4203 P-L, 6, 2, 4; 2299 T-3, 6, 2, 1; [470, 128, 0\*, 1992/05/02–1998/10/18]

{7} 1998 QU<sub>38</sub>, 3, 1, 0; 1999 CL<sub>87</sub>, 3, 1, 0; 1999 JL<sub>22</sub>, 3, 1, 0; 1999 TF<sub>17</sub>, 6, 2, 1; 1999 TR<sub>156</sub>, 3, 1, 0; 2000 AF<sub>210</sub>, 6, 2, 10; 2000 CA<sub>87</sub>, 3, 1, 0; 2000 DH<sub>34</sub>, 3, 1, 0; 2000 EM<sub>13</sub>, 6, 2, 10; 2000 EL<sub>147</sub>, 3, 1, 0; 2000 GJ<sub>60</sub>, 3, 1, 0; 2000 LF<sub>27</sub>, 6, 2, 12; 2000 MG<sub>2</sub>, 6, 2, 10; 2000 OU<sub>2</sub>, 3, 1, 0; 2000 ON<sub>35</sub>, 6, 2, 12; 2000 PJ, 6, 2, 10; 2000 QJ<sub>45</sub>, 3, 1, 0; 2000 QO<sub>82</sub>, 3, 1, 0; 2000 RC<sub>59</sub>, 3, 1, 0; 2000 SA<sub>273</sub>, 3, 1, 0; 4117 T-1, 3, 1, 0; [84, 21, 0\*, 1993/09/14–1994/07/11]

{8} 1981 QM<sub>2</sub>, 3, 3, 23; 1994 EX, 1, 1, 0; 1994 JL<sub>5</sub>, 2, 1, 0; 1995 SE<sub>8</sub>, 1, 1, 0; 1996 RS<sub>1</sub>, 2, 2, 6; 1997 BK<sub>2</sub>, 2, 2, 5; 1997 TV<sub>28</sub>, 2, 1, 0; 1998 DN<sub>28</sub>, 4, 4, 4; 1998 EK<sub>1</sub>, 1, 1, 0; 1998 FW<sub>2</sub>, 1, 1, 0; 1998 FL<sub>24</sub>, 2, 2, 2; 1998 FY<sub>26</sub>, 2, 2, 2; 1998 FB<sub>56</sub>, 2, 1, 0; 1998 FB<sub>129</sub>, 2, 2, 2; 1998 FL<sub>132</sub>, 2, 2, 2; 1998 FU<sub>147</sub>, 2, 2, 2; 1998 HN<sub>30</sub>, 4, 4, 26; 1998 HK<sub>98</sub>, 4, 3, 2; 1998 HO<sub>125</sub>, 7, 6, 5; 1999 GB<sub>1</sub>, 7, 6, 25; 1999 JN<sub>59</sub>, 1, 1, 0; 1999 RY, 1, 1, 0; 1999 RO<sub>51</sub>, 1, 1, 0; 1999 RJ<sub>60</sub>, 17, 14, 38; 1999 RR<sub>137</sub>, 4, 4, 8; 1999 RQ<sub>179</sub>, 1, 1, 0; 1999 RS<sub>180</sub>, 4, 3, 2; 1999 TX<sub>139</sub>, 1, 1, 0; 1999 TP<sub>216</sub>, 1, 1, 0; 1999 TB<sub>271</sub>, 1, 1, 0; 1999 UH<sub>9</sub>, 1, 1, 0; 1999 UX<sub>50</sub>, 8, 8, 32; 1999 VJ<sub>26</sub>, 3, 2, 1; 1999 VU<sub>169</sub>, 1, 1, 0; 1999 XH<sub>119</sub>, 1, 1, 0; 1999 XZ<sub>212</sub>, 2, 2, 1; 1999 XC<sub>235</sub>, 2, 2, 1; 1999 XS<sub>241</sub>, 10, 8, 30; 1999 YS<sub>23</sub>, 1, 1, 0; 2000 CJ<sub>29</sub>, 8, 8, 32; 2000 JK<sub>1</sub>, 1, 1, 0; 2000 NL<sub>15</sub>, 2, 2, 2; 2000 PN<sub>23</sub>, 17, 13, 31; 2000 QS<sub>11</sub>, 1, 1, 0; 2000 QN<sub>23</sub>, 5, 5, 26; 2000 QT<sub>28</sub>, 2, 2, 1; 2000 QG<sub>39</sub>, 1, 1, 0; 2000 QQ<sub>58</sub>, 7, 6, 27; 2000 QP<sub>82</sub>, 8, 7, 34; 2000 QS<sub>86</sub>, 2, 2, 2; 2000 QS<sub>136</sub>, 3, 3, 2; 2000 QS<sub>149</sub>, 9, 7, 30; 2000 QG<sub>155</sub>, 16, 14, 41; 2000 QG<sub>219</sub>, 3, 3, 3; 2000 QM<sub>219</sub>, 3, 3, 3; 2000 RR<sub>6</sub>, 2, 2, 2; 2000 RA<sub>56</sub>, 1, 1, 0; 2000 RC<sub>60</sub>, 2, 2, 1; 2000 RZ<sub>64</sub>, 9, 9, 926; 2000 RP<sub>85</sub>, 9, 9, 34; 2000 SH<sub>58</sub>, 2, 2, 1; 2000 SQ<sub>75</sub>, 8, 6, 6; 2000 SW<sub>88</sub>, 9, 8, 28; 2000 SC<sub>116</sub>, 11, 10, 33; 2000 SG<sub>117</sub>, 17, 13, 31; 2000 SY<sub>124</sub>, 2, 2, 2; 2000 SU<sub>126</sub>, 2, 2, 2; 2000 ST<sub>127</sub>, 7, 5, 4; 2000 SG<sub>146</sub>, 1, 1, 0; 2000 SW<sub>146</sub>, 2, 2, 2; 2000 SB<sub>170</sub>, 1, 1, 0; 2000 SD<sub>170</sub>, 5, 5, 32; 2000 SJ<sub>175</sub>, 12, 10, 33; 2000 SX<sub>183</sub>, 7, 6, 34; 2000 SJ<sub>205</sub>, 8, 6, 26; 2000 SH<sub>217</sub>, 2, 1, 0; 2000 SG<sub>229</sub>, 1, 1, 0; 2000 SF<sub>274</sub>, 1, 1, 0; 2817 P-L, 1, 1, 0; 6243 P-L, 1, 1, 0; 3062 T-1, 2, 2, 2; 3919 T-2, 3, 3, 8; [330, 82, 0\*, 1995/08/19–1998/03/02]

### 817 Sudbury

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0.41-m Schmidt-Cassegrain + CCD

GSC

1997 WL<sub>53</sub>, 2, 1, 0; [2, 1, 0\*, 1997/12/09]

### 839 La Plata

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Argentina [rorellan@fcaglp.fcaglp.unlp.edu.ar]

Observer C. Rogatti

Measurers R. P. Di Sisto, R. B. Orellana

0.343-m  $f/10$  astrograph

Hipparcos

Many of the positions below correct observations published on *MPC* 3584, 3803,  
4295–8, 6624–7 and 17478.

(1), 4, 1, 0; (2), 7, 2, 16; (4), 11, 3, 60; (6), 6, 2, 94; (7), 8, 2, 46; (15), 4, 1, 0; (25), 3, 1, 0; (45), 2, 1, 0; (51), 5, 2, 26; (82), 2, 1, 0; (94), 2, 1, 0; (118), 2, 1, 0; (146), 2, 1, 0; (163), 2, 1, 0; (234), 2, 1, 0; (249), 2, 1, 0; (306), 1, 1, 0; (354), 2, 1, 0; (362), 2, 1, 0; (386), 2, 1, 0; (412), 2, 1, 0; (422), 2, 1, 0; (465), 2, 2, 1; (532), 3, 1, 0; (540), 2, 1, 0; (582), 2, 1, 0; (634), 2, 1, 0; (679), 4, 1, 0; (714), 2, 1, 0; (770), 2, 1, 0; (795), 2, 1, 0; (1621), 1, 1, 0; [97, 32, 0\*, 1972/05/11–1980/09/05]

### 843 Emerald Lane Observatory

L. C. Ball, 4311 Emerald Lane, Decatur, AL 35603, U.S.A. [dustoff72@aol.com]

0.30-m  $f/6.5$  Schmidt-Cassegrain + CCD

GSC, USNO-SA2.0

1996 XN<sub>2</sub>, 5, 2, 1; 1998 HD<sub>85</sub>, 7, 2, 5; 1998 HP<sub>98</sub>, 11, 4, 8; 1999 JS<sub>51</sub>, 2, 1, 0; 1999 JW<sub>120</sub>, 3, 1, 0; 2000 OQ<sub>45</sub>, 5, 1, 0; 2000 RA, 5, 1, 0; 2000 RQ<sub>13</sub>, 5, 2, 1; 2000 SZ<sub>114</sub>, 2, 1, 0; 2000 SQ<sub>205</sub>, 2, 1, 0; 2000 TQ, 6, 2, 1; 2000 TV<sub>33</sub>, 5, 2, 1; 2000 UL<sub>2</sub> \*, 8, 3, 3; 2000 UM<sub>2</sub> \*, 8, 3, 3; 2000 UN<sub>2</sub> \*, 8, 3, 3; 2000 UO<sub>2</sub> \*, 8, 3, 3; (2660), 5, 2, 1; (18141), 5, 1, 0; [100, 18, 4\*, 2000/10/16–2000/10/27]

### 849 Everstar Observatory, Olathe

G. Fedon, 21251 W. 123rd St., Olathe, KS 66061, U.S.A. [antares@everstar.com]

Observers M. Abraham, A. Abraham

Measurer G. Fedon

0.25-m Schmidt-Cassegrain + CCD  
GSC-1.1

1999 CZ<sub>1</sub>, 3, 1, 0; (93), 2, 1, 0; (945), 2, 1, 0; (2064), 3, 1, 0; (2115), 3, 1, 0; (3685), 2, 1, 0; (5520), 3, 1, 0; (5768), 2, 1, 0; (6165), 4, 1, 0; [24, 9, 0\*, 2000/10/24–2000/11/03]

### 850 Cordell-Lorenz Observatory, Sewanee

D. T. Durig, SPO 1242, Sewanee, TN 37383, U.S.A. [ddurig@sewanee.edu]

Observers D. T. Durig, A. D. McDermott

0.3-m  $f/5.8$  Schmidt-Cassegrain + CCD

GSC-1.1, UNSO-SA2.0

1986 RV<sub>5</sub>, 2, 1, 0; 1988 CL<sub>4</sub>, 6, 2, 1; 1990 QX<sub>4</sub>, 2, 1, 0; 1991 VY<sub>12</sub>, 2, 1, 0; 1992 DY<sub>5</sub>, 2, 1, 0; 1993 BF<sub>3</sub>, 2, 1, 0; 1993 GL<sub>1</sub>, 3, 1, 0; 1997 AQ<sub>5</sub>, 2, 1, 0; 1997 XD<sub>10</sub>, 2, 1, 0; 1998 BC<sub>41</sub>, 2, 1, 0; 1998 DD, 5, 2, 1; 1998 FX<sub>64</sub>, 2, 1, 0; 1998 HR<sub>119</sub>, 2, 1, 0; 1999 JS<sub>21</sub>, 2, 1, 0; 1999 JE<sub>48</sub>, 2, 1, 0; 1999 JP<sub>73</sub>, 2, 1, 0; 1999 JT<sub>93</sub>, 2, 1, 0; 1999 NR<sub>10</sub>, 2, 1, 0; 1999 RW<sub>42</sub>, 2, 1, 0; 1999 RT<sub>100</sub>, 2, 1, 0; 1999 RR<sub>123</sub>, 2, 1, 0; 1999 RM<sub>135</sub>, 4, 1, 0; 1999 RK<sub>155</sub>, 2, 1, 0; 1999 RF<sub>159</sub>, 3, 1, 0; 1999 SY<sub>4</sub>, 2, 1, 0; 2000 SB<sub>1</sub>, 3, 1, 0; 2000 SN<sub>307</sub>, 2, 1, 0; 2000 TO<sub>64</sub>, 2, 1, 0; 2000 UM<sub>30</sub>, 1, 1, 0; 2000 VP, 2, 1, 0; 6243 P-L, 6, 2, 1; (1529), 2, 1, 0; (2436), 2, 1, 0; [81, 33, 0\*, 2000/10/10–2000/11/03]

### 853 Biosphere 2 Observatory

G. J. Garradd, Biosphere 2 Center, 32540 S. Biosphere Road, Oracle, AZ 85623, U.S.A. [gordon@astro.bio2.edu]

0.60-m  $f/8.0$  reflector

GSC-ACT, UCAC-1, USNO-A2.0

2000 UG<sub>11</sub>, 4, 1, 0; 2000 UF<sub>29</sub>, 4, 1, 0; 2000 UL<sub>30</sub>, 6, 2, 1; 2000 UN<sub>30</sub>, 2, 1, 0; 2000 UO<sub>30</sub>, 8, 2, 1; 2000 UQ<sub>30</sub>, 3, 1, 0; 2000 UY<sub>33</sub>, 7, 2, 1; 2000 VM<sub>2</sub>, 2, 1, 0; [36, 8, 0\*, 2000/11/01–2000/11/02]

### 858 Tebbutt Observatory, Edgewood

F. B. Zoltowski, Tebbutt Observatory, 70 Abajo Dr., Edgewood, NM 87015, U.S.A. [fbzolt@compuserve.com]

0.3-m  $f/10$  Schmidt-Cassegrain + CCD

USNO-SA2.0

2000 RW<sub>37</sub>, 2, 1, 0; 2000 SO<sub>23</sub>, 5, 2, 5; 2000 SP<sub>23</sub>, 5, 2, 5; 2000 UR<sub>16</sub>, 3, 1, 0; 2000 US<sub>16</sub>, 3, 1, 0; 2000 UV<sub>16</sub>, 3, 1, 0; 2000 UN<sub>30</sub>, 3, 1, 0; [24, 7, 0\*, 2000/10/26–2000/10/31]

### 860 Valinhos

P. R. Holvorcem, Departamento de Matematica/IMECC, Universidade Estadual de Campinas SP, BR-13081-970 Brazil [canis@mpc.com.br]

Observers P. R. Holvorcem, J. Camargo

Measurer P. R. Holvorcem

0.36-m  $f/3.6$  Schmidt-Cassegrain + CCD

GSC-ACT, USNO-A2.0

2000 RS<sub>11</sub>, 1, 1, 0; 2000 RD<sub>53</sub>, 2, 1, 0; 2000 RF<sub>74</sub>, 3, 1, 0; 2000 RL<sub>77</sub>, 4, 1, 0; 2000 RD<sub>102</sub>, 3, 1, 0; 2000 SU<sub>84</sub>, 3, 1, 0; 2000 SB<sub>117</sub>, 3, 1, 0; 2000 SZ<sub>149</sub>, 2, 1, 0; 2000 SJ<sub>276</sub>, 3, 1, 0; 2000 TK, 2, 1, 0; 2000 TK<sub>17</sub>, 2, 1, 0; 2000 UH<sub>1</sub>, 3, 1, 0; 2000 UM<sub>11</sub>, 3, 1, 0; 2000 UN<sub>11</sub>, 5, 1, 0; (3037), 3, 1, 0; (3297), 3, 1, 0; (5397), 3, 1, 0; [48, 17, 0\*, 2000/10/09–2000/10/29]

### 866 U.S. Naval Academy, Michelson

D. T. Campbell, U.S.N.A. Physics Dept.-9C 572 Holloway Rd., Annapolis, MD 21402-5026, U.S.A. [m000924@nadn.navy.mil]

Observers B. Massie, A. Fielder

2000 SP<sub>43</sub>, 3, 1, 0; 2000 UG<sub>11</sub>, 3, 1, 0; [6, 2, 0\*, 2000/10/11–2000/11/02]

### 877 Okutama

T. Hioki, Tonogaya 922, Mizuho, Nishi-Tama Gun, Tokyo 190-12, Japan

0.30-m  $f/3.8$  hyperboloid astrocamera + CCD

GSC

1997 AP<sub>4</sub>, 2, 1, 0; [2, 1, 0\*, 1992/11/29]

### 886 Susono

M. Akiyama, 1655-23, Chabatake, Susono, Shizuoka-Ken, 410-11 Japan

0.25-m  $f/6.3$  reflector + CCD

GSC

1992 YH, 3, 1, 0; 1992 YU<sub>2</sub>, 3, 1, 0; 1998 BU<sub>14</sub>, 3, 1, 0; 2000 SY<sub>213</sub>, 3, 1, 0; [12, 4, 0\*, 2000/10/23]

### 888 Gekko Observatory

T. Kagawa, 1308-222, Kuwahara, Kannami-cho, Tagata-gun, Shizuoka-Ken, 419-010, Japan

0.50-m  $f/4.0$  reflector + CCD

GSC-1.1

1988 TQ<sub>1</sub>, 3, 1, 0; 1989 UD<sub>1</sub>, 3, 1, 0; 1989 UE<sub>1</sub>, 3, 1, 0; 1992 YJ, 3, 1, 0; 1995 WV<sub>3</sub>, 3, 1, 0; 1996 AY<sub>3</sub>, 3, 1, 0; 1997 AM<sub>21</sub>, 3, 1, 0; 1997 YP<sub>11</sub>, 3, 1, 0; 1998 BU<sub>14</sub>, 3, 1, 0; 1998 EG<sub>10</sub>, 3, 1, 0; 1998 HW<sub>6</sub>, 2, 1, 0; 1999 JJ<sub>3</sub>, 3, 1, 0; 2000 SG<sub>178</sub>, 3, 1, 0; 2000 UV<sub>13</sub>, 3, 1, 0; [41, 14, 0\*, 2000/11/03–2000/11/04]

### 900 Moriyama

Y. Ikari, 13-9 Katube 2 Chome, Moriyama, Shiga-Ken, 524-0041 Japan

[ikari@gold.ocn.ne.jp]

0.25-m  $f/6.3$  Schmidt-Cassegrain + CCD

GSC-ACT, USNO-A2.0

1998 AF, 2, 1, 0; 1998 AH<sub>7</sub>, 2, 1, 0; 2000 DP<sub>107</sub>, 2, 1, 0; 2000 SF<sub>42</sub>, 6, 3, 12; 2000 SP<sub>43</sub>, 2, 1, 0; 2000 UG<sub>11</sub>, 2, 1, 0; 2000 UH<sub>11</sub>, 2, 1, 0; 2000 UK<sub>11</sub>, 2, 1, 0; 2000 US<sub>16</sub>, 2, 1, 0; 2000 UT<sub>16</sub>, 2, 1, 0; (2100), 2, 1, 0; (6368), 2, 1, 0; (18172), 2, 1, 0; [30, 13, 0\*, 2000/09/24–2000/11/03]

### 903 Fukuchiyama

M. Yoshimi, Osas 185-4-101, Fukuchiyama, Kyoto 620-0845, Japan

[myoshimi@silver.ocn.ne.jp]

Observer M. Yoshimi

0.25-m  $f/6.3$  Schmidt-Cassegrain + CCD

GSC

2000 RF<sub>74</sub>, 2, 1, 0; 2000 SF<sub>42</sub>, 5, 2, 9; 2000 UG<sub>11</sub>, 3, 1, 0; 2000 UV<sub>13</sub>, 3, 1, 0; [13, 4, 0\*, 2000/10/18–2000/10/27]

### 908 Toyama

M. Aoki, 6-1339, Tsukioka-Cho, Toyama, 939 Japan

0.43-m  $f/6$  reflector + CCD

GSC

2000 UV<sub>13</sub>, 3, 1, 0; [3, 1, 0\*, 2000/11/03]

### 910 Caussols-ODAS

A. Maury, Observatoire de la Côte d'Azur, B.P. 229, F-06304 Nice, France

[maury@obs-azur.fr]

G. Hahn, DLR Institute of Planetary Exploration, Rudower Chaussee 5, D-12489 Berlin, Germany [Gerhard.Hahn@DLR.de]

Observers A. Maury, D. Albanese, G. Hahn, M. Hoffmann

Measurers A. Maury, G. Hahn

0.90-m Schmidt + CCD

GSC

1989 TE<sub>3</sub>, 3, 1, 0; 1994 PO<sub>13</sub>, 3, 1, 0; 1996 RS<sub>1</sub>, 3, 1, 0; 1997 LC<sub>16</sub>, 6, 2, 7; 1997 UW<sub>12</sub>, 3, 1, 0; 1997 XP<sub>8</sub>, 3, 1, 0; 1998 BP<sub>3</sub>, 3, 1, 0; 1998 BB<sub>23</sub>, 3, 1, 0; 1998 BZ<sub>23</sub>, 3, 1, 0; 1998 BS<sub>44</sub>, 3, 1, 0; 1998 BZ<sub>45</sub>, 3, 1, 0; 1998 DG<sub>4</sub>, 3, 1, 0; 1998 EH<sub>18</sub>, 3, 1, 0; 1998 FL<sub>24</sub>, 3, 1, 0; 1998 FP<sub>43</sub>, 3, 1, 0; 1998 FR<sub>50</sub>, 3, 1, 0; 1998 FL<sub>56</sub>, 3, 1, 0; 1998 FV<sub>82</sub>, 3, 1, 0; 1998 FN<sub>138</sub>, 3, 1, 0; 1998 FE<sub>148</sub>, 3, 1, 0; 1998 HY<sub>45</sub>, 3, 1, 0; 1998 QT<sub>108</sub>, 3, 1, 0; 1998 SQ<sub>5</sub>, 3, 1, 0; 1998 SK<sub>70</sub>, 3, 1, 0; 1998 UH<sub>11</sub>, 3, 1, 0; 1998 UY<sub>14</sub>, 3, 1, 0; 1998 WS<sub>26</sub>, 1, 1, 0; 1998 XD<sub>78</sub>, 3, 1, 0; 1999 CR<sub>32</sub>, 3, 1, 0; 1999 CB<sub>45</sub>, 3, 1, 0; 1999 EG<sub>13</sub>, 3, 1, 0; 1999 FT<sub>7</sub>, 3, 1, 0; 1999 GW<sub>50</sub>, 3, 1, 0; 1999 JN, 3, 1, 0; 1999 JH<sub>54</sub>, 3, 1, 0; 1999 JL<sub>92</sub>, 3, 1, 0; 1999 KQ<sub>10</sub>, 3, 1, 0; 1999 RJ<sub>50</sub>, 3, 1, 0; 1999 RO<sub>164</sub>, 3, 1, 0; 1999 RQ<sub>179</sub>, 3, 1, 0; 1999 SY<sub>4</sub>, 3, 1, 0; 1999 VU<sub>98</sub>, 3, 1, 0; 1999 WZ<sub>3</sub>, 3, 1, 0; 1999 XA<sub>28</sub>, 3, 1, 0; 1999 XE<sub>256</sub>, 3, 1, 0;

2000 AC<sub>25</sub>, 3, 1, 0; 2000 AE<sub>129</sub>, 3, 1, 0; 2000 AV<sub>172</sub>, 3, 1, 0; 2000 AT<sub>242</sub>, 3, 1, 0; 2000 CS<sub>1</sub>, 3, 1, 0; 2000 CG<sub>19</sub>, 3, 1, 0; 2000 CC<sub>62</sub>, 3, 1, 0; 2000 DG<sub>56</sub>, 3, 1, 0; 2000 DA<sub>94</sub>, 3, 1, 0; 2000 DT<sub>96</sub>, 3, 1, 0; 2000 DU<sub>96</sub>, 3, 1, 0; 2000 DO<sub>107</sub>, 3, 1, 0; 2000 EZ<sub>44</sub>, 3, 1, 0; 2000 EW<sub>92</sub>, 3, 1, 0; 2000 EY<sub>102</sub>, 3, 1, 0; 2000 EQ<sub>120</sub>, 3, 1, 0; 2000 EG<sub>136</sub>, 3, 1, 0; 2000 ER<sub>152</sub>, 3, 1, 0; 2000 FZ<sub>23</sub>, 3, 1, 0; 2000 FL<sub>46</sub>, 3, 1, 0; 2000 GL<sub>104</sub>, 3, 1, 0; 2000 GH<sub>114</sub>, 3, 1, 0; 2000 GQ<sub>161</sub>, 3, 1, 0; 2000 HQ<sub>44</sub>, 3, 1, 0; 2000 HZ<sub>47</sub>, 3, 1, 0; 2000 JO<sub>16</sub>, 3, 1, 0; 2000 JS<sub>33</sub>, 3, 1, 0; 2000 JR<sub>39</sub>, 3, 1, 0; 2000 KB<sub>43</sub>, 3, 1, 0; 2000 KU<sub>78</sub>, 3, 1, 0; 2000 LV<sub>33</sub>, 3, 1, 0; 2000 NL<sub>13</sub>, 3, 1, 0; 2000 NY<sub>16</sub>, 3, 1, 0; 2000 NL<sub>19</sub>, 3, 1, 0; 2000 OV<sub>1</sub>, 3, 1, 0; 2000 OA<sub>15</sub>, 6, 1, 0; 2000 OX<sub>16</sub>, 3, 1, 0; 2000 OY<sub>16</sub>, 3, 1, 0; 2000 ON<sub>17</sub>, 3, 1, 0; 2000 OJ<sub>18</sub>, 3, 1, 0; 2000 OD<sub>26</sub>, 3, 1, 0; 2000 OL<sub>27</sub>, 3, 1, 0; 2000 OF<sub>35</sub>, 3, 1, 0; 2000 OJ<sub>47</sub>, 3, 1, 0; 2000 PY<sub>3</sub>, 3, 1, 0; 2000 PZ<sub>6</sub>, 3, 1, 0; 2000 PV<sub>26</sub>, 3, 1, 0; 2000 QL<sub>5</sub>, 3, 1, 0; 2000 QU<sub>22</sub>, 3, 1, 0; 2000 QT<sub>28</sub>, 3, 1, 0; 2000 QG<sub>45</sub>, 3, 1, 0; 2000 QR<sub>76</sub>, 3, 1, 0; 2000 QX<sub>89</sub>, 3, 1, 0; 2000 QZ<sub>131</sub>, 3, 1, 0; 2000 QB<sub>135</sub>, 3, 1, 0; 2000 QW<sub>136</sub>, 3, 1, 0; 2000 RP<sub>70</sub>, 3, 1, 0; 2000 RE<sub>80</sub>, 3, 1, 0; 2000 SR<sub>11</sub>, 3, 1, 0; 2000 SZ<sub>35</sub>, 3, 1, 0; 2000 SM<sub>38</sub>, 3, 1, 0; 2000 SO<sub>104</sub>, 3, 1, 0; 2000 SA<sub>120</sub>, 3, 1, 0; 2000 SF<sub>121</sub>, 3, 1, 0; 2000 SY<sub>124</sub>, 3, 1, 0; 2000 SX<sub>137</sub>, 3, 1, 0; 2000 SR<sub>139</sub>, 3, 1, 0; 2000 SD<sub>140</sub>, 3, 1, 0; 2000 SQ<sub>144</sub>, 3, 1, 0; 2000 SX<sub>149</sub>, 3, 1, 0; 2000 SW<sub>154</sub>, 3, 1, 0; 2000 SC<sub>212</sub>, 3, 1, 0; 2000 SF<sub>285</sub>, 3, 1, 0; 2000 SR<sub>309</sub>, 3, 1, 0; 2000 SY<sub>319</sub>, 3, 1, 0; 2000 TW<sub>28</sub>, 3, 1, 0; 2000 TY<sub>44</sub>, 3, 1, 0; 6362 P-L, 3, 1, 0; 1038 T-1, 3, 1, 0; 3727 T-3, 3, 1, 0; [379, 125, 0\*, 1996/10/18–1999/02/18]

### 911 Collins Observatory, Corning Community College

A. J. Cecce, Corning Community College, 10 Carriage Circle, Elmira, NY 14903, U.S.A. [cecceaj@corning.com]

Observers A. J. Cecce

0.5-m *f*/6 reflector + CCD

USNO-A2.0

1978 SQ<sub>4</sub>, 4, 2, 1; 1998 FD<sub>114</sub>, 5, 2, 1; 2000 RY<sub>46</sub>, 6, 2, 1; 2000 RJ<sub>54</sub>, 4, 2, 1; 2000 SP<sub>89</sub>, 4, 1, 0; 2000 SU<sub>162</sub>, 6, 2, 1; 2000 SV<sub>162</sub>, 3, 1, 0; 2000 SW<sub>162</sub>, 3, 1, 0; 2000 ST<sub>180</sub>, 3, 1, 0; 2000 SC<sub>328</sub>, 3, 1, 0; 2000 VW<sub>58</sub> \*, 4, 2, 1; 2000 VX<sub>58</sub> \*, 4, 2, 1; (2705), 5, 2, 1; (5264), 5, 2, 1; (13403), 6, 2, 1; (16080), 6, 2, 1; [71, 16, 2\*, 2000/09/08–2000/11/07]

### 912 Carbuncle Hill Observatory, Greene

D. Pray, 1688 Plainfield Pike, Greene, RI 02827, U.S.A. [dppray@hotmail.com]

0.30-m *f*/3.3 Schmidt-Cassegrain + CCD

GSC-ACT

2000 RT<sub>7</sub>, 5, 2, 1; 2000 SB<sub>1</sub>, 6, 2, 1; (4486), 6, 2, 8; [17, 3, 0\*, 2000/10/13–2000/10/26]

### 914 Underwood Observatory, Hubbardston

T. Loebl, 53 Underwood Rd., Hubbardston, MA 01452, U.S.A. [loebl@banet.net]

0.20-m *f*/6.3 reflector + CCD

GSC, USNO-SA2.0

1998 FN<sub>75</sub>, 4, 2, 1; 1999 JV<sub>82</sub>, 4, 2, 1; 2000 QF<sub>93</sub>, 4, 2, 1; 2151 T-2, 4, 2, 1; (17410), 4, 2, 1; (17430), 4, 2, 1; (17518), 4, 2, 1; (17986), 4, 2, 1; [32, 8, 0\*, 2000/10/20–2000/11/03]

### 918 Badlands Observatory, Quinn

R. Dyvig, P.O. Box 37, Quinn, SD 57775, U.S.A. [rondyv@gwtc.net]

0.66-m *f*/4.8 reflector + CCD

GSC

1989 UF<sub>1</sub>, 3, 1, 0; 1998 KP<sub>19</sub>, 3, 1, 0; 2000 DP<sub>107</sub>, 3, 1, 0; 2000 QA<sub>110</sub>, 3, 1, 0; 2000 UW<sub>6</sub>, 3, 1, 0; 2000 UG<sub>11</sub>, 4, 1, 0; 2000 UH<sub>11</sub>, 4, 1, 0; 2000 UK<sub>11</sub>, 4, 1, 0; 2000 UE<sub>110</sub>, 4, 1, 0; 2000 VM<sub>2</sub>, 3, 1, 0; 2000 VN<sub>2</sub>, 4, 1, 0; 2000 VA<sub>45</sub>, 3, 1, 0; (540), 2, 1, 0; (626), 2, 1, 0; (1086), 3, 1, 0; (1296), 3, 1, 0; (1891), 3, 1, 0; (1979), 3, 1, 0; (2967), 2, 1, 0; (3732), 3, 1, 0; (4668), 2, 1, 0; (7111), 3, 1, 0; (7489), 3, 1, 0; (10188), 3, 1, 0; (10226), 3, 1, 0; (10558), 2, 1, 0; (10977), 3, 1, 0; (16597), 3, 1, 0; (16797), 3, 1, 0; (16931), 3, 1, 0; [90, 30, 0\*, 2000/10/10–2000/11/03]

### 919 Desert Beaver Observatory

W. K. Yeung, 139 Sandringham Place NW, Calgary, Alberta T3K 3V8, Canada [Calgarian@canada.com]

0.45-m reflector + CCD

1981 EW<sub>8</sub>, 4, 2, 2; 1981 EO<sub>44</sub>, 2, 1, 0; 1991 TX<sub>2</sub>, 4, 2, 1; 1996 VE<sub>8</sub>, 2, 1, 0; 1998 EZ<sub>8</sub>, 2, 1, 0; 1998 FG<sub>4</sub>, 4, 2, 5; 1998 HG<sub>97</sub>, 2, 1, 0; 1999 JP<sub>22</sub>, 2, 1, 0; 1999 JP<sub>61</sub>, 2, 1, 0; 1999 NP<sub>8</sub>, 2, 1, 0; 1999 NH<sub>49</sub>, 2, 1, 0; 2000 RU<sub>50</sub>, 4, 2, 1; 2000 SC<sub>7</sub>, 2, 1, 0; 2000 SS<sub>169</sub>, 5, 2, 1; 2000 SN<sub>259</sub>, 6, 3, 4; 2000 SL<sub>277</sub>, 2, 1, 0; 2000 SK<sub>279</sub>, 4, 2, 1; 2000 SF<sub>294</sub>, 3, 2, 1; 2000 SD<sub>295</sub>, 4, 2, 1; 2000 TC<sub>4</sub>, 2, 1; 2000 TS<sub>2</sub>, 2, 1, 0; 2000 TC<sub>2</sub>, 2, 1, 0; 2000 TR<sub>32</sub>, 2, 1, 0; 2000 TC<sub>34</sub> \*, 4, 2, 2; 2000 TD<sub>34</sub> \*,

4, 2, 2; 2000 TE<sub>34</sub> \*, 4, 2, 2; 2000 UG<sub>1</sub> \*, 6, 3, 11; 2000 UJ<sub>2</sub> \*, 4, 2, 1; 2000 UP<sub>2</sub> \*, 6, 3, 9; 2000 UQ<sub>2</sub> \*, 4, 2, 1; 2000 UR<sub>2</sub> \*, 8, 4, 9; 2000 US<sub>2</sub> \*, 8, 4, 9; 2000 UZ<sub>9</sub>, 4, 2, 1; 2000 UC<sub>10</sub>, 2, 1, 0; 2000 UE<sub>10</sub>, 4, 2, 1; 2000 UF<sub>10</sub>, 4, 2, 1; 2000 UG<sub>10</sub>, 4, 2, 1; 2000 UG<sub>11</sub>, 5, 2, 5; 2000 UK<sub>11</sub>, 5, 1, 0; 2000 UT<sub>13</sub> \*, 6, 3, 5; 2000 UU<sub>13</sub> \*, 10, 5, 8; 2000 UC<sub>15</sub>, 4, 2, 1; 2000 UL<sub>15</sub> \*, 8, 4, 8; 2000 UP<sub>30</sub>, 2, 1, 0; 2000 UZ<sub>33</sub> \*, 4, 2, 2; 2000 UV<sub>49</sub>, 2, 1, 0; 2000 UO<sub>76</sub> \*, 4, 2, 5; 2000 UP<sub>76</sub> \*, 4, 2, 3; 2000 UL<sub>79</sub>, 4, 2, 1; 2000 UN<sub>79</sub>, 4, 2, 5; 2000 US<sub>79</sub>, 2, 1, 0; 2000 UU<sub>79</sub>, 4, 2, 1; 2000 UW<sub>79</sub>, 4, 2, 1; 2000 UX<sub>79</sub>, 2, 1, 0; 2000 VB \*, 4, 2, 1; 2000 VC \*, 4, 2, 1; 2000 VE \*, 4, 2, 1; 2000 VF \*, 4, 2, 1; 2000 VG \*, 4, 2, 1; 2000 VU<sub>2</sub> \*, 4, 2, 1; 2000 VV<sub>2</sub> \*, 4, 2, 1; 2000 VW<sub>2</sub> \*, 4, 2, 1; 2000 VX<sub>2</sub> \*, 4, 2, 1; 2000 VY<sub>2</sub> \*, 4, 2, 1; 2000 VG<sub>3</sub> \*, 4, 2, 1; 2000 VH<sub>3</sub> \*, 4, 2, 1; 2000 VJ<sub>3</sub> \*, 6, 3, 8; 2000 VK<sub>3</sub> \*, 4, 2, 1; 2000 VL<sub>3</sub> \*, 4, 2, 1; 2000 VG<sub>38</sub>, 4, 2, 1; 2000 VH<sub>38</sub> \*, 4, 2, 1; 2000 VJ<sub>38</sub> \*, 4, 2, 1; 2000 VK<sub>38</sub> \*, 4, 2, 1; 2000 VA<sub>39</sub> \*, 4, 2, 1; 2000 VB<sub>39</sub> \*, 4, 2, 1; 2000 VC<sub>39</sub> \*, 4, 2, 1; 2000 VD<sub>39</sub> \*, 4, 2, 1; 2000 VN<sub>48</sub>, 4, 2, 1; 2000 VS<sub>48</sub>, 2, 1, 0; 2000 VT<sub>48</sub>, 4, 2, 1; [312, 80, 37\*, 2000/09/25–2000/11/02]

### 921 Southwest Institute for Space Research

A. Hale, 15 E. Spur Road, Cloudcroft, NM 88317, U.S.A. [ahale@swisr.org]

0.30-m Schmidt-Cassegrain + CCD

GSC-1.1

2000 DP<sub>107</sub>, 2, 1, 0; (433), 2, 1, 0; [4, 2, 0\*, 2000/09/29]

### 923 The Bradstreet Observatory, St. Davids

D. H. Bradstreet, Department of Physical Science, Eastern College, 1300 Eagle Road, St. Davids, PA 19087-3696, U.S.A. [dbradstr@eastern.edu]

0.40-m *f*/5 Schmidt-Cassegrain + CCD

USNO-SA2.0

(88), 6, 1, 0; (124), 3, 1, 0; (134), 3, 1, 0; (135), 3, 1, 0; (153), 3, 1, 0; (168), 3, 1, 0; (276), 6, 2, 8; (336), 6, 2, 8; (393), 6, 2, 8; (395), 3, 1, 0; (403), 6, 2, 8; (467), 6, 2, 3; (478), 3, 1, 0; (540), 3, 1, 0; (545), 3, 1, 0; (556), 6, 2, 8; (591), 3, 1, 0; (626), 3, 1, 0; (663), 6, 2, 3; (666), 6, 2, 8; (675), 3, 1, 0; (706), 6, 2, 8; (823), 3, 1, 0; (904), 3, 1, 0; (945), 3, 1, 0; (1040), 6, 2, 3; (1051), 3, 1, 0; (1109), 3, 1, 0; (1172), 3, 1, 0; (1173), 3, 1, 0; (1182), 3, 1, 0; (1184), 3, 1, 0; (1189), 3, 1, 0; (1227), 3, 1, 0; (1296), 3, 1, 0; (1297), 6, 2, 3; (1353), 3, 1, 0; (1407), 6, 2, 8; (1426), 3, 1, 0; (1535), 3, 1, 0; (1843), 3, 1, 0; (1900), 3, 1, 0; (2152), 3, 1, 0; (2223), 3, 1, 0; (2670), 3, 1, 0; (4223), 3, 1, 0; (4566), 3, 1, 0; (4674), 3, 1, 0; (16774), 3, 1, 0; (17274), 3, 1, 0; (18172), 3, 1, 0; [192, 51, 0\*, 2000/10/12–2000/10/23]

### 931 Punaauia

J. C. Pelle, BP 130085, F-98717 Punaauia, French Polynesia [jcpelle@mail.pf]

0.20-m *f*/10 reflector + CCD

USNO-A2.0

1999 AC<sub>24</sub>, 5, 1, 0; [5, 1, 0\*, 2000/10/13]

### 941 Observatorio Pla D'Arguines

R. Ferrando, Guardia Civil N. 22, ESC-5 PTA.-34, E-46020 Valencia, Spain

[rferrand@jazzfree.com]

0.26-m *f*/10 Schmidt-Cassegrain + CCD

GSC-1.1

(914), 3, 3, 21; [3, 1, 0\*, 2000/10/14–2000/11/04]

### 942 Grantham

K. Laing, 16 Cherrywood Drive, Grantham, Lincolnshire, NG31 8QL, England

[kenny.laing@escocia.clara.co.uk]

0.20m *f*/5 Newtonian + CCD

GSC

(30), 4, 2, 3; (93), 4, 2, 3; (406), 4, 2, 3; [12, 3, 0\*, 2000/10/17–2000/10/19]

### 946 Ametlla de Mar

J. Nomen, Rio de Oro 25, bjos2, E-08034 Barcelona, Spain

[jnomen@astro.gea.cesca.es]

0.30-m *f*/5.0 reflector + CCD

USNO-SA1.0

1999 JO<sub>14</sub>, 3, 1, 0; 2000 TG<sub>1</sub>, 4, 2, 1; 2000 UV<sub>13</sub>, 3, 1, 0; (17274), 4, 1, 0; (18109), 4, 1, 0; [18, 5, 0\*, 2000/10/19–2000/11/04]

### 951 Highworth

J. W. Rock, 2 Spa Close, Highworth, Swindon, Wiltshire SN6 7PJ, England [john-rock@beeb.net]

0.25-m *f*/6.3 Schmidt-Cassegrain + CCD  
GSC-ACT

2000 OL, 3, 1, 0; (663), 5, 2, 1; (1040), 5, 2, 3; (1297), 6, 2, 1; (1407), 6, 2, 3; (2152), 12, 4, 19; (2613), 6, 2, 1; (2638), 6, 2, 1; (2736), 6, 2, 1; (3259), 4, 2, 1; (3475), 5, 2, 1; (3708), 11, 4, 19; (4308), 12, 4, 19; (16720), 5, 2, 1; [92, 14, 0\*, 2000/10/16–2000/11/04]

### 964 Southend Bradfield

G. C. R. Sallit, Jacinth, Stanford Road, Southend Bradfield, Reading, Berkshire  
RG7 6HL, England [100573.2667@compuserve.com]

0.30-m Schmidt-Cassegrain + CCD  
GSC

2000 SG<sub>45</sub>, 5, 2, 3; [5, 1, 0\*, 1997/02/07–1997/02/10]

### 966 Church Stretton

S. P. Laurie, Toleman, 10 Hazler Orchard, Church Stetton, Shropshire SY6 7AL,  
England [100336.3635@compuserve.com]

0.25-m Schmidt Cassegrain + focal reducer + CCD  
GSC

2000 QO<sub>181</sub>, 3, 1, 0; [3, 1, 0\*, 1996/11/17–1996/11/18]

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### C/1997 BA<sub>6</sub> (Spacewatch)

Epoch 1999 Dec. 8.0 TT = JDT 2451520.5

| <i>T</i> | 1999 Nov. 27.5795 TT |                   | Nakano     |            |
|----------|----------------------|-------------------|------------|------------|
| <i>q</i> | 3.436400             | (2000.0)          | <b>P</b>   | <b>Q</b>   |
| <i>z</i> | +0.000321            | $\omega$ 285.9378 | +0.0105647 | +0.7657389 |
|          | $\pm 0.000001$       | $\Omega$ 317.6637 | +0.0017723 | -0.6431140 |
| <i>e</i> | 0.998897             | <i>i</i> 72.7149  | -0.9999426 | +0.0069504 |

From 305 observations 1997 Jan. 11–2000 Nov. 5, mean residual 0<sup>''</sup>.7.

### C/1997 T6 (SOHO)

*T* 1997 Oct. 2.30 TT

| <i>q</i> | 0.0050 | (2000.0)        | <b>P</b> | <b>Q</b> |
|----------|--------|-----------------|----------|----------|
|          |        | $\omega$ 85.14  | +0.15143 | -0.98729 |
|          |        | $\Omega$ 4.75   | -0.96506 | -0.15821 |
| <i>e</i> | 1.0    | <i>i</i> 144.40 | +0.21383 | -0.01487 |

From 4 observations 1997 Oct. 1–2.

### C/1997 T7 (SOHO)

*T* 1997 Oct. 8.66 TT

| <i>q</i> | 0.0051 | (2000.0)        | <b>P</b> | <b>Q</b> |
|----------|--------|-----------------|----------|----------|
|          |        | $\omega$ 84.40  | +0.15619 | -0.98684 |
|          |        | $\Omega$ 4.16   | -0.96532 | -0.16151 |
| <i>e</i> | 1.0    | <i>i</i> 144.64 | +0.20919 | -0.00848 |

From 5 observations 1997 Oct. 8.

### C/1999 K8 (LINEAR)

Epoch 2000 Apr. 6.0 TT = JDT 2451640.5

| <i>T</i> | 2000 Apr. 24.3059 TT |                   | Nakano     |            |
|----------|----------------------|-------------------|------------|------------|
| <i>q</i> | 4.200540             | (2000.0)          | <b>P</b>   | <b>Q</b>   |
| <i>z</i> | -0.000188            | $\omega$ 164.6219 | +0.9722298 | +0.1006817 |
|          | $\pm 0.000001$       | $\Omega$ 195.3946 | +0.0088497 | +0.8862658 |
| <i>e</i> | 1.000788             | <i>i</i> 52.7332  | +0.2338609 | -0.4521018 |

From 526 observations 1999 May 26–2000 Nov. 4, mean residual 0<sup>''</sup>.6.

### C/1999 T1 (McNaught-Hartley)

Epoch 2000 Dec. 2.0 TT = JDT 2451880.5

| <i>T</i> | 2000 Dec. 13.4703 TT |                   | Marsden    |            |
|----------|----------------------|-------------------|------------|------------|
| <i>q</i> | 1.171704             | (2000.0)          | <b>P</b>   | <b>Q</b>   |
| <i>z</i> | +0.000021            | $\omega$ 344.7572 | -0.9658973 | -0.2553886 |
|          | $\pm 0.000005$       | $\Omega$ 182.4823 | +0.1065947 | -0.5423231 |
| <i>e</i> | 0.999975             | <i>i</i> 79.9749  | -0.2359660 | +0.8004138 |

From 189 observations 1999 Oct. 7–2000 Nov. 2, mean residual 0<sup>''</sup>.7.

**C/1999 T2 (LINEAR)**

Epoch 2000 Dec. 2.0 TT = JDT 2451880.5

| <i>T</i> 2000 Nov. 24.4679 TT |                | Nakano            |                       |
|-------------------------------|----------------|-------------------|-----------------------|
| <i>q</i>                      | (2000.0)       | <b>P</b>          | <b>Q</b>              |
| <i>z</i>                      | 3.037376       |                   |                       |
|                               | (2000.0)       |                   |                       |
| <i>z</i>                      | −0.000686      | $\omega$ 104.6690 | −0.1557069 −0.9582704 |
|                               | $\pm 0.000002$ | $\Omega$ 14.8800  | −0.7263515 −0.0534085 |
| <i>e</i>                      | 1.002085       | <i>i</i> 111.0020 | +0.6694541 −0.2808297 |

From 563 observations 1999 July 22–2000 Nov. 5, mean residual 0<sup>''</sup>.6.**C/1999 U4 (Catalina-Skiff)**

Epoch 2001 Oct. 18.0 TT = JDT 2452200.5

| <i>T</i> 2001 Oct. 28.4551 TT |                | Nakano           |                       |
|-------------------------------|----------------|------------------|-----------------------|
| <i>q</i>                      | (2000.0)       | <b>P</b>         | <b>Q</b>              |
| <i>z</i>                      | 4.915282       |                  |                       |
|                               | (2000.0)       |                  |                       |
| <i>z</i>                      | −0.001570      | $\omega$ 77.5128 | −0.1388410 −0.8965977 |
|                               | $\pm 0.000005$ | $\Omega$ 32.2887 | +0.2672306 −0.4427989 |
| <i>e</i>                      | 1.007716       | <i>i</i> 51.9260 | +0.9535780 −0.0064547 |

From 204 observations 1999 Sept. 18–2000 Nov. 5, mean residual 0<sup>''</sup>.6.**C/1999 U6 (SOHO)***T* 1999 Oct. 18.27 TT

| <i>q</i> 0.0055 |                | Marsden         |                   |
|-----------------|----------------|-----------------|-------------------|
| <i>q</i>        | (2000.0)       | <b>P</b>        | <b>Q</b>          |
|                 | $\omega$ 81.51 | +0.17887        | −0.98361          |
|                 | $\Omega$ 2.23  | −0.96016        | −0.17957          |
| <i>e</i>        | 1.0            | <i>i</i> 144.17 | +0.21469 +0.01638 |

From 5 observations 1999 Oct. 17.

**C/1999 U7 (SOHO)***T* 1999 Oct. 27.49 TT

| <i>q</i> 0.0050 |                | Marsden         |                   |
|-----------------|----------------|-----------------|-------------------|
| <i>q</i>        | (2000.0)       | <b>P</b>        | <b>Q</b>          |
|                 | $\omega$ 84.10 | +0.15362        | −0.98750          |
|                 | $\Omega$ 3.57  | −0.96902        | −0.15754          |
| <i>e</i>        | 1.0            | <i>i</i> 145.54 | +0.19339 −0.00494 |

From 9 observations 1999 Oct. 27.

**C/1999 U8 (SOHO)***T* 1999 Oct. 29.68 TT

| <i>q</i> 0.0051 |                | Marsden         |                   |
|-----------------|----------------|-----------------|-------------------|
| <i>q</i>        | (2000.0)       | <b>P</b>        | <b>Q</b>          |
|                 | $\omega$ 83.10 | +0.19390        | −0.97951          |
|                 | $\Omega$ 5.31  | −0.95549        | −0.20113          |
| <i>e</i>        | 1.0            | <i>i</i> 143.96 | +0.22234 −0.01015 |

From 5 observations 1999 Oct. 29.

**C/1999 U9 (SOHO)***T* 1999 Oct. 30.61 TT

| <i>q</i> 0.0053 |                | Marsden         |                   |
|-----------------|----------------|-----------------|-------------------|
| <i>q</i>        | (2000.0)       | <b>P</b>        | <b>Q</b>          |
|                 | $\omega$ 82.09 | +0.19260        | −0.98037          |
|                 | $\Omega$ 4.02  | −0.95169        | −0.19712          |
| <i>e</i>        | 1.0            | <i>i</i> 142.86 | +0.23915 +0.00511 |

From 7 observations 1999 Oct. 30.

**C/1999 V2 (SOHO)***T* 1999 Nov. 8.50 TT

| <i>q</i> 0.0049 |                | Marsden         |                   |
|-----------------|----------------|-----------------|-------------------|
| <i>q</i>        | (2000.0)       | <b>P</b>        | <b>Q</b>          |
|                 | $\omega$ 85.09 | +0.17764        | −0.98187          |
|                 | $\Omega$ 6.55  | −0.96075        | −0.18759          |
| <i>e</i>        | 1.0            | <i>i</i> 144.56 | +0.21310 −0.02724 |

From 24 observations 1999 Nov. 7–8.

**C/1999 V3 (SOHO)***T* 1999 Nov. 15.13 TT

| <i>q</i> 0.0056 |                 | Marsden         |                   |
|-----------------|-----------------|-----------------|-------------------|
| <i>q</i>        | (2000.0)        | <b>P</b>        | <b>Q</b>          |
|                 | $\omega$ 78.36  | +0.16208        | −0.98641          |
|                 | $\Omega$ 357.22 | −0.97166        | −0.15479          |
| <i>e</i>        | 1.0             | <i>i</i> 146.24 | +0.17204 +0.05510 |

From 7 observations 1999 Nov. 14.

**C/1999 V4 (SOHO)***T* 1999 Nov. 15.92 TT

| <i>q</i> 0.0051 |                | Marsden         |                   |
|-----------------|----------------|-----------------|-------------------|
| <i>q</i>        | (2000.0)       | <b>P</b>        | <b>Q</b>          |
|                 | $\omega$ 89.69 | +0.14843        | −0.98284          |
|                 | $\Omega$ 10.38 | −0.95748        | −0.17054          |
| <i>e</i>        | 1.0            | <i>i</i> 142.57 | +0.24737 −0.07036 |

From 5 observations 1999 Nov. 15.

**C/1999 Y1 (LINEAR)**

Epoch 2001 Apr. 1.0 TT = JDT 2452000.5

| <i>T</i> 2001 Mar. 24.1114 TT |                | Nakano            |                       |
|-------------------------------|----------------|-------------------|-----------------------|
| <i>q</i>                      | (2000.0)       | <b>P</b>          | <b>Q</b>              |
| <i>z</i>                      | 3.091180       |                   |                       |
|                               | (2000.0)       |                   |                       |
| <i>z</i>                      | −0.000201      | $\omega$ 184.2856 | +0.9933702 +0.0346608 |
|                               | $\pm 0.000001$ | $\Omega$ 188.8842 | +0.1146743 −0.3658624 |
| <i>e</i>                      | 1.000622       | <i>i</i> 134.7868 | −0.0080901 −0.9300233 |

From 526 observations 1999 Oct. 29–2000 Nov. 4, mean residual 0<sup>''</sup>.5.**C/2000 K2 (LINEAR)**

Epoch 2000 Oct. 23.0 TT = JDT 2451840.5

| <i>T</i> 2000 Oct. 11.3616 TT |                | Nakano            |                       |
|-------------------------------|----------------|-------------------|-----------------------|
| <i>q</i>                      | (2000.0)       | <b>P</b>          | <b>Q</b>              |
| <i>z</i>                      | 2.437126       |                   |                       |
|                               | (2000.0)       |                   |                       |
| <i>z</i>                      | +0.001848      | $\omega$ 106.8219 | +0.5063609 +0.8547694 |
|                               | $\pm 0.000009$ | $\Omega$ 195.2619 | −0.8586905 +0.5119189 |
| <i>e</i>                      | 0.995496       | <i>i</i> 25.6332  | +0.0790519 +0.0854885 |

From 172 observations 2000 May 4–Nov. 5, mean residual 0<sup>''</sup>.7.**P/2000 S1 (Skiff)***T* 2000 July 14.6384 TT

| <i>q</i> 2.513433 |           | Nakano            |                       |
|-------------------|-----------|-------------------|-----------------------|
| <i>q</i>          | (2000.0)  | <b>P</b>          | <b>Q</b>              |
| <i>n</i>          | 0.0583159 | $\omega$ 308.4235 | +0.8989786 +0.4017099 |
| <i>a</i>          | 6.585841  | $\Omega$ 29.1435  | −0.1967105 +0.7263651 |
| <i>e</i>          | 0.618358  | <i>i</i> 21.0028  | −0.3913343 +0.5576943 |

From 134 observations 2000 Aug. 26–Nov. 5.

**C/2000 S3**

|          |                      |          |          |            |            |
|----------|----------------------|----------|----------|------------|------------|
| <i>T</i> | 2000 July 16.1391 TT |          |          |            |            |
| <i>q</i> | 2.661094             | (2000.0) |          |            |            |
| <i>n</i> | 0.0247071            | $\omega$ | 298.1994 | <b>P</b>   | <b>Q</b>   |
| <i>a</i> | 11.674942            | $\Omega$ | 41.1683  | +0.8808477 | +0.3818666 |
| <i>e</i> | 0.772068             | <i>i</i> | 25.1534  | −0.1165674 | +0.7477932 |
| <i>P</i> | 39.9                 |          |          | −0.4588238 | +0.5431236 |

From 21 observations 2000 Sept. 20–Nov. 3.

**P/2000 S4**

|          |                      |          |          |            |            |
|----------|----------------------|----------|----------|------------|------------|
| <i>T</i> | 2000 Oct. 19.1028 TT |          |          |            |            |
| <i>q</i> | 2.265372             | (2000.0) |          |            |            |
| <i>n</i> | 0.0518602            | $\omega$ | 172.3258 | <b>P</b>   | <b>Q</b>   |
| <i>a</i> | 7.121639             | $\Omega$ | 174.6453 | +0.9757485 | +0.2143693 |
| <i>e</i> | 0.681903             | <i>i</i> | 28.3258  | −0.2174382 | +0.9725145 |
| <i>P</i> | 19.0                 |          |          | −0.0252094 | −0.0908916 |

From 36 observations 2000 Sept. 1–Oct. 29.

**C/2000 SV<sub>74</sub> (LINEAR)**

|          |                    |          |         |            |            |
|----------|--------------------|----------|---------|------------|------------|
| <i>T</i> | 2002 May 1.2518 TT |          |         |            |            |
| <i>q</i> | 3.542870           | (2000.0) |         |            |            |
|          |                    | $\omega$ | 76.2562 | <b>P</b>   | <b>Q</b>   |
|          |                    | $\Omega$ | 24.1924 | +0.1147747 | −0.9109902 |
| <i>e</i> | 1.0                | <i>i</i> | 75.1618 | −0.0759901 | −0.4056542 |
|          |                    |          |         | +0.9904808 | +0.0744416 |

From 100 observations 2000 Sept. 5–Nov. 6.

**C/2000 T1 (SOHO)**

|          |                    |          |        |          |          |
|----------|--------------------|----------|--------|----------|----------|
| <i>T</i> | 2000 Oct. 11.46 TT |          |        |          |          |
| <i>q</i> | 0.0051             | (2000.0) |        |          |          |
|          |                    | $\omega$ | 81.23  | <b>P</b> | <b>Q</b> |
|          |                    | $\Omega$ | 2.25   | +0.18374 | −0.98271 |
| <i>e</i> | 1.0                | <i>i</i> | 144.09 | −0.95892 | −0.18435 |
|          |                    |          |        | +0.21611 | +0.01753 |

From 58 observations 2000 Oct. 9–11.

**C/2000 T3 (SOHO)**

|          |                    |          |        |          |          |
|----------|--------------------|----------|--------|----------|----------|
| <i>T</i> | 2000 Oct. 11.61 TT |          |        |          |          |
| <i>q</i> | 0.0051             | (2000.0) |        |          |          |
|          |                    | $\omega$ | 88.67  | <b>P</b> | <b>Q</b> |
|          |                    | $\Omega$ | 4.77   | +0.09139 | −0.99469 |
| <i>e</i> | 1.0                | <i>i</i> | 145.22 | −0.97584 | −0.09894 |
|          |                    |          |        | +0.19844 | −0.02849 |

From 7 observations 2000 Oct. 11.

**C/2000 T4 (SOHO)**

|          |                    |          |        |          |          |
|----------|--------------------|----------|--------|----------|----------|
| <i>T</i> | 2000 Oct. 12.55 TT |          |        |          |          |
| <i>q</i> | 0.0051             | (2000.0) |        |          |          |
|          |                    | $\omega$ | 87.12  | <b>P</b> | <b>Q</b> |
|          |                    | $\Omega$ | 7.49   | +0.15590 | −0.98490 |
| <i>e</i> | 1.0                | <i>i</i> | 144.67 | −0.96495 | −0.16815 |
|          |                    |          |        | +0.21111 | −0.04128 |

From 21 observations 2000 Oct. 12.

**C/2000 U1 (SOHO)**

|          |                    |          |        |          |          |
|----------|--------------------|----------|--------|----------|----------|
| <i>T</i> | 2000 Oct. 21.76 TT |          |        |          |          |
| <i>q</i> | 0.0051             | (2000.0) |        |          |          |
|          |                    | $\omega$ | 89.30  | <b>P</b> | <b>Q</b> |
|          |                    | $\Omega$ | 10.96  | +0.16633 | −0.97979 |
| <i>e</i> | 1.0                | <i>i</i> | 144.25 | −0.96120 | −0.18624 |
|          |                    |          |        | +0.22007 | −0.07294 |

From 5 observations 2000 Oct. 21.

**C/2000 U2 (SOHO)**

|          |                    |          |        |          |          |
|----------|--------------------|----------|--------|----------|----------|
| <i>T</i> | 2000 Oct. 23.42 TT |          |        |          |          |
| <i>q</i> | 0.0075             | (2000.0) |        |          |          |
|          |                    | $\omega$ | 86.24  | <b>P</b> | <b>Q</b> |
|          |                    | $\Omega$ | 7.68   | +0.17347 | −0.98178 |
| <i>e</i> | 1.0                | <i>i</i> | 144.49 | −0.96106 | −0.18597 |
|          |                    |          |        | +0.21510 | −0.03913 |

From 45 observations 2000 Oct. 22–23.

**C/2000 U3 (SOHO)**

|          |                    |          |        |          |          |
|----------|--------------------|----------|--------|----------|----------|
| <i>T</i> | 2000 Oct. 24.84 TT |          |        |          |          |
| <i>q</i> | 0.0074             | (2000.0) |        |          |          |
|          |                    | $\omega$ | 66.93  | <b>P</b> | <b>Q</b> |
|          |                    | $\Omega$ | 344.74 | +0.18864 | −0.96824 |
| <i>e</i> | 1.0                | <i>i</i> | 141.43 | −0.95951 | −0.14613 |
|          |                    |          |        | +0.20917 | +0.20287 |

From 27 observations 2000 Oct. 24.

**C/2000 U4 (SOHO)**

|          |                    |          |        |          |          |
|----------|--------------------|----------|--------|----------|----------|
| <i>T</i> | 2000 Oct. 25.45 TT |          |        |          |          |
| <i>q</i> | 0.0050             | (2000.0) |        |          |          |
|          |                    | $\omega$ | 85.11  | <b>P</b> | <b>Q</b> |
|          |                    | $\Omega$ | 359.74 | +0.08150 | −0.99667 |
| <i>e</i> | 1.0                | <i>i</i> | 146.50 | −0.98140 | −0.07982 |
|          |                    |          |        | +0.17384 | +0.01668 |

From 12 observations 2000 Oct. 25.

**C/2000 U5 (LINEAR)**

|          |                     |          |          |            |            |
|----------|---------------------|----------|----------|------------|------------|
| <i>T</i> | 2000 Mar. 9.3533 TT |          |          |            |            |
| <i>q</i> | 3.447270            | (2000.0) |          |            |            |
|          |                     | $\omega$ | 297.7982 | <b>P</b>   | <b>Q</b>   |
|          |                     | $\Omega$ | 65.3697  | +0.1477570 | +0.3932350 |
| <i>e</i> | 1.0                 | <i>i</i> | 93.3225  | +0.7598295 | +0.5422281 |
|          |                     |          |          | −0.6331089 | +0.7425328 |

From 89 observations 2000 Oct. 29–Nov. 6.

**P/2000 U6 (Tichý)**

|          |                     |          |         |            |            |
|----------|---------------------|----------|---------|------------|------------|
| <i>T</i> | 2000 Oct. 4.6071 TT |          |         |            |            |
| <i>q</i> | 2.155324            | (2000.0) |         |            |            |
| <i>n</i> | 0.1335206           | $\omega$ | 11.8515 | <b>P</b>   | <b>Q</b>   |
| <i>a</i> | 3.791146            | $\Omega$ | 24.4405 | +0.8108239 | −0.5689649 |
| <i>e</i> | 0.431485            | <i>i</i> | 19.3766 | +0.5062379 | +0.5640384 |
| <i>P</i> | 7.38                |          |         | +0.2937478 | +0.5984477 |

From 116 observations 2000 Oct. 23–Nov. 6.

**147P/Kushida-Muramatsu**

Epoch 2001 May 11.0 TT = JDT 2452040.5

| <i>T</i> | 2001 Apr. 29.5075 TT |                   | Marsden    |            |
|----------|----------------------|-------------------|------------|------------|
| <i>q</i> | 2.752369             | (2000.0)          | <b>P</b>   | <b>Q</b>   |
| <i>n</i> | 0.1325627            | $\omega$ 347.4999 | +0.1518843 | −0.9875381 |
| <i>a</i> | 3.809388             | $\Omega$ 93.7532  | +0.9103576 | +0.1235257 |
| <i>e</i> | 0.277477             | <i>i</i> 2.3679   | +0.3849418 | +0.0975185 |
| <i>P</i> | 7.44                 |                   |            |            |

From 49 observations 1994–2000, mean residual 0″.8.

**S/1999 J 1**

Epoch 2000 Sept. 13.0 TT = JDT 2451800.5

| <i>M</i> | 196.64217  | (2000.0)           | Williams      |             |
|----------|------------|--------------------|---------------|-------------|
| <i>n</i> | 0.46471764 | $\omega$ 51.91582  | <b>P</b>      | <b>Q</b>    |
| <i>a</i> | 0.1625472  | $\Omega$ 280.96976 | −0.50096765   | −0.63434581 |
| <i>e</i> | 0.1250684  | <i>i</i> 143.15038 | −0.85331099   | +0.47564095 |
| <i>P</i> | 774.66 d   | <i>H</i> 14.0      | +0.14453987   | +0.60940223 |
|          |            |                    | <i>G</i> 0.15 |             |

From 23 observations 1999 Oct. 6–2000 Nov. 3, mean residual 0″.36.

**S/2000 S 1**

Epoch 2000 Sept. 13.0 TT = JDT 2451800.5

| <i>M</i> | 296.03606  | (2000.0)           | Marsden       |             |
|----------|------------|--------------------|---------------|-------------|
| <i>n</i> | 0.27403601 | $\omega$ 40.84387  | <b>P</b>      | <b>Q</b>    |
| <i>a</i> | 0.1546424  | $\Omega$ 205.51880 | −0.96229751   | +0.26677541 |
| <i>e</i> | 0.3890584  | <i>i</i> 172.92650 | +0.20632946   | +0.84303531 |
| <i>P</i> | 1313.70 d  | <i>H</i> 12.3      | +0.17723332   | +0.46703570 |
|          |            |                    | <i>G</i> 0.15 |             |

From 19 observations 2000 Aug. 7–Nov. 3, mean residual 0″.11.

**S/2000 S 2**

Epoch 2000 Sept. 13.0 TT = JDT 2451800.5

| <i>M</i> | 82.04757   | (2000.0)           | Marsden       |             |
|----------|------------|--------------------|---------------|-------------|
| <i>n</i> | 0.53875902 | $\omega$ 235.72206 | <b>P</b>      | <b>Q</b>    |
| <i>a</i> | 0.0985381  | $\Omega$ 353.34545 | −0.62371966   | +0.77691784 |
| <i>e</i> | 0.4657116  | <i>i</i> 47.81211  | −0.20228065   | −0.26654054 |
| <i>P</i> | 668.20 d   | <i>H</i> 11.7      | −0.75502075   | −0.57039881 |
|          |            |                    | <i>G</i> 0.15 |             |

From 18 observations 2000 Aug. 7–Nov. 3, mean residual 0″.14.

**S/2000 S 3**

Epoch 2000 Sept. 13.0 TT = JDT 2451800.5

| <i>M</i> | 357.52248  | (2000.0)           | Marsden       |             |
|----------|------------|--------------------|---------------|-------------|
| <i>n</i> | 0.23069529 | $\omega$ 321.10534 | <b>P</b>      | <b>Q</b>    |
| <i>a</i> | 0.1734501  | $\Omega$ 240.15514 | −0.01680053   | −0.77175434 |
| <i>e</i> | 0.4988184  | <i>i</i> 132.87005 | −0.63136899   | −0.48480822 |
| <i>P</i> | 1560.50 d  | <i>H</i> 10.6      | −0.77530055   | +0.41152913 |
|          |            |                    | <i>G</i> 0.15 |             |

From 14 observations 2000 Sept. 23–29, mean residual 0″.21.

**S/2000 S 4**

Epoch 2000 Sept. 13.0 TT = JDT 2451800.5

| <i>M</i> | 356.42675  | (2000.0)           | Marsden       |             |
|----------|------------|--------------------|---------------|-------------|
| <i>n</i> | 0.34423144 | $\omega$ 290.76083 | <b>P</b>      | <b>Q</b>    |
| <i>a</i> | 0.1328312  | $\Omega$ 198.99591 | −0.04414890   | −0.99446479 |
| <i>e</i> | 0.3912122  | <i>i</i> 162.96729 | −0.77251585   | −0.02653184 |
| <i>P</i> | 1045.81 d  | <i>H</i> 12.8      | −0.63345886   | +0.10166531 |
|          |            |                    | <i>G</i> 0.15 |             |

From 9 observations 2000 Sept. 23–27, mean residual 0″.44.

**Jupiter VI (Himalia)**

Epoch 2000 Sept. 13.0 TT = JDT 2451800.5

| <i>M</i> | 77.99641   | (2000.0)           | Williams      |             |
|----------|------------|--------------------|---------------|-------------|
| <i>n</i> | 1.45049151 | $\omega$ 327.75057 | <b>P</b>      | <b>Q</b>    |
| <i>a</i> | 0.0761077  | $\Omega$ 63.94857  | +0.78438266   | −0.42016122 |
| <i>e</i> | 0.1603736  | <i>i</i> 30.52413  | +0.61970140   | +0.56251988 |
| <i>P</i> | 248.19 d   | <i>H</i> 7.7       | −0.02672115   | +0.71206456 |
|          |            |                    | <i>G</i> 0.15 |             |

From 462 observations 1904 Dec. 4–2000 Nov. 2, mean residual 1″.21.

**Jupiter VII (Elara)**

Epoch 2000 Sept. 13.0 TT = JDT 2451800.5

| <i>M</i> | 334.96524  | (2000.0)           | Williams      |             |
|----------|------------|--------------------|---------------|-------------|
| <i>n</i> | 1.39096263 | $\omega$ 137.60507 | <b>P</b>      | <b>Q</b>    |
| <i>a</i> | 0.0782640  | $\Omega$ 111.11957 | −0.28169533   | +0.84295535 |
| <i>e</i> | 0.2306232  | <i>i</i> 29.42879  | −0.95796879   | −0.22007235 |
| <i>P</i> | 258.81 d   | <i>H</i> 10.4      | −0.05425445   | −0.49091184 |
|          |            |                    | <i>G</i> 0.15 |             |

From 312 observations 1905 Jan. 4–2000 Nov. 2, mean residual 1″.09.

**Jupiter VIII (Pasiphae)**

Epoch 2000 Sept. 13.0 TT = JDT 2451800.5

| <i>M</i> | 42.02623   | (2000.0)           | Williams      |             |
|----------|------------|--------------------|---------------|-------------|
| <i>n</i> | 0.47280247 | $\omega$ 175.57345 | <b>P</b>      | <b>Q</b>    |
| <i>a</i> | 0.1606889  | $\Omega$ 319.94991 | −0.80164019   | +0.43750106 |
| <i>e</i> | 0.3699625  | <i>i</i> 140.71891 | +0.52720413   | +0.83866194 |
| <i>P</i> | 761.42 d   | <i>H</i> 10.0      | +0.28183116   | −0.32440557 |
|          |            |                    | <i>G</i> 0.15 |             |

From 465 observations 1908 Jan. 28–2000 Nov. 2, mean residual 0″.90.

**Jupiter IX (Sinope)**

Epoch 2000 Sept. 13.0 TT = JDT 2451800.5

| <i>M</i> | 303.60005  | (2000.0)           | Williams      |             |
|----------|------------|--------------------|---------------|-------------|
| <i>n</i> | 0.46099123 | $\omega$ 338.27090 | <b>P</b>      | <b>Q</b>    |
| <i>a</i> | 0.1634220  | $\Omega$ 311.62010 | +0.86571262   | −0.37818365 |
| <i>e</i> | 0.2546446  | <i>i</i> 153.98383 | −0.36980470   | −0.92472260 |
| <i>P</i> | 780.93 d   | <i>H</i> 11.0      | −0.33732203   | +0.04318842 |
|          |            |                    | <i>G</i> 0.15 |             |

From 217 observations 1916 Sept. 7–2000 Oct. 24, mean residual 0″.80.

**Jupiter XII (Ananke)**

Epoch 2000 Sept. 13.0 TT = JDT 2451800.5

| <i>M</i> | 50.17891   | (2000.0)           | Williams      |             |
|----------|------------|--------------------|---------------|-------------|
| <i>n</i> | 0.56810846 | $\omega$ 81.53843  | <b>P</b>      | <b>Q</b>    |
| <i>a</i> | 0.1421733  | $\Omega$ 14.94436  | +0.36423356   | −0.92262414 |
| <i>e</i> | 0.3577836  | <i>i</i> 150.52715 | −0.92209839   | −0.37638126 |
| <i>P</i> | 633.68 d   | <i>H</i> 12.5      | +0.13064637   | −0.08427239 |
|          |            |                    | <i>G</i> 0.15 |             |

From 112 observations 1958 Apr. 14–2000 Oct. 24, mean residual 0″.59.

**Saturn IX (Phoebe)**

Epoch 2000 Sept. 13.0 TT = JDT 2451800.5

| <i>M</i> | 226.33440  | (2000.0)           | Williams      |             |
|----------|------------|--------------------|---------------|-------------|
| <i>n</i> | 0.65055222 | $\omega$ 353.59613 | <b>P</b>      | <b>Q</b>    |
| <i>a</i> | 0.0868985  | $\Omega$ 263.33772 | −0.00526916   | −0.99322620 |
| <i>e</i> | 0.1508386  | <i>i</i> 173.28870 | −0.91220642   | −0.04278374 |
| <i>P</i> | 553.38 d   | <i>H</i> 6.4       | −0.40969707   | +0.10803366 |
|          |            |                    | <i>G</i> 0.15 |             |

From 266 observations 1904 Nov. 7–2000 Nov. 2, mean residual 0″.84.

## SUMMARY OF NEW NUMBERINGS

The following summary of new numberings of minor planets lists for each object the number, principal provisional designation, date of discovery, observatory code of the discovery site and the names of the discoverers. A separate table lists orbital elements and absolute magnitudes (the slope parameter  $G$  being 0.15 in every case). Further details, including additional identifications and residuals, are given in the *Minor Planet Circulars Orbit Supplement*.

|         |                       |            |     |                                   |         |                       |            |     |                                  |
|---------|-----------------------|------------|-----|-----------------------------------|---------|-----------------------|------------|-----|----------------------------------|
| (18284) | 1970 PU               | 1970 08 10 | 095 | Crimean Astrophysical Observatory | (18328) | 1985 UU               | 1985 10 20 | 046 | Mrkos, A.                        |
| (18285) | 1972 GJ               | 1972 04 14 | 095 | Chernykh, L. I.                   | (18329) | 1986 RY <sub>4</sub>  | 1986 09 01 | 809 | Debehogne, H.                    |
| (18286) | 1973 UN <sub>5</sub>  | 1973 10 27 | 033 | Tautenburg                        | (18330) | 1987 BW <sub>1</sub>  | 1987 01 25 | 809 | Elst, E. W.                      |
| (18287) | 1975 TU <sub>3</sub>  | 1975 10 03 | 095 | Chernykh, L. I.                   | (18331) | 1987 DQ <sub>6</sub>  | 1987 02 24 | 809 | Debehogne, H.                    |
| (18288) | 1975 VX <sub>2</sub>  | 1975 11 02 | 095 | Smirnova, T. M.                   | (18332) | 1987 ON               | 1987 07 19 | 675 | Helin, E. F.                     |
| (18289) | 1976 UB <sub>16</sub> | 1976 10 22 | 381 | Kosai, H., Hurukawa, K.           | (18333) | 1987 OV               | 1987 07 19 | 675 | Helin, E. F.                     |
| (18290) | 1977 DR <sub>2</sub>  | 1977 02 18 | 381 | Kosai, H., Hurukawa, K.           | (18334) | 1987 RA <sub>3</sub>  | 1987 09 02 | 095 | Karachkina, L. G.                |
| (18291) | 1977 DL <sub>4</sub>  | 1977 02 18 | 381 | Kosai, H., Hurukawa, K.           | (18335) | 1987 SC <sub>1</sub>  | 1987 09 19 | 688 | Bowell, E.                       |
| (18292) | 1977 FB               | 1977 03 17 | 801 | Harvard Observatory               | (18336) | 1988 LG               | 1988 06 15 | 675 | Helin, E. F.                     |
| (18293) | 1978 SQ <sub>4</sub>  | 1978 09 27 | 095 | Chernykh, L. I.                   | (18337) | 1988 RB <sub>11</sub> | 1988 09 14 | 807 | Bus, S. J.                       |
| (18294) | 1978 SF <sub>5</sub>  | 1978 09 27 | 095 | Chernykh, L. I.                   | (18338) | 1989 EP <sub>2</sub>  | 1989 03 04 | 675 | Helin, E. F.                     |
| (18295) | 1978 TT <sub>7</sub>  | 1978 10 02 | 095 | Zhuravleva, L. V.                 | (18339) | 1989 GM <sub>2</sub>  | 1989 04 03 | 809 | Elst, E. W.                      |
| (18296) | 1978 VW <sub>2</sub>  | 1978 11 07 | 675 | Helin, E. F., Bus, S. J.          | (18340) | 1989 OM               | 1989 07 29 | 474 | Gilmore, A. C., Kilmartin, P. M. |
| (18297) | 1978 VG <sub>4</sub>  | 1978 11 07 | 675 | Helin, E. F., Bus, S. J.          | (18341) | 1989 SJ <sub>5</sub>  | 1989 09 26 | 809 | Elst, E. W.                      |
| (18298) | 1979 MZ <sub>4</sub>  | 1979 06 25 | 413 | Helin, E. F., Bus, S. J.          | (18342) | 1989 ST <sub>9</sub>  | 1989 09 26 | 809 | Debehogne, H.                    |
| (18299) | 1979 MT <sub>8</sub>  | 1979 06 25 | 413 | Helin, E. F., Bus, S. J.          | (18343) | 1989 TN               | 1989 10 02 | 071 | Elst, E. W.                      |
| (18300) | 1979 PA               | 1979 08 14 | 046 | Mrkos, A.                         | (18344) | 1989 TN <sub>11</sub> | 1989 10 02 | 807 | Bus, S. J.                       |
| (18301) | 1979 QZ <sub>9</sub>  | 1979 08 27 | 095 | Chernykh, N. S.                   | (18345) | 1989 UP <sub>4</sub>  | 1989 10 22 | 046 | Vávrová, Z.                      |
| (18302) | 1980 FL <sub>3</sub>  | 1980 03 16 | 809 | Lagerkvist, C.-I.                 | (18346) | 1989 WG               | 1989 11 20 | 888 | Oshima, Y.                       |
| (18303) | 1980 PU               | 1980 08 06 | 046 | Vávrová, Z.                       | (18347) | 1989 WU               | 1989 11 20 | 385 | Oohira                           |
| (18304) | 1981 DH <sub>1</sub>  | 1981 02 28 | 413 | Bus, S. J.                        | (18348) | 1990 BM <sub>1</sub>  | 1990 01 22 | 675 | Helin, E. F.                     |
| (18305) | 1981 DL <sub>1</sub>  | 1981 02 28 | 413 | Bus, S. J.                        | (18349) | 1990 OV <sub>4</sub>  | 1990 07 25 | 675 | Holt, H. E.                      |
| (18306) | 1981 EF <sub>9</sub>  | 1981 03 01 | 413 | Bus, S. J.                        | (18350) | 1990 QJ <sub>2</sub>  | 1990 08 22 | 675 | Holt, H. E.                      |
| (18307) | 1981 ER <sub>10</sub> | 1981 03 01 | 413 | Bus, S. J.                        | (18351) | 1990 QN <sub>5</sub>  | 1990 08 29 | 675 | Holt, H. E.                      |
| (18308) | 1981 EZ <sub>11</sub> | 1981 03 07 | 413 | Bus, S. J.                        | (18352) | 1990 QB <sub>8</sub>  | 1990 08 16 | 809 | Elst, E. W.                      |
| (18309) | 1981 EV <sub>13</sub> | 1981 03 01 | 413 | Bus, S. J.                        | (18353) | 1990 QF <sub>9</sub>  | 1990 08 16 | 809 | Elst, E. W.                      |
| (18310) | 1981 EJ <sub>16</sub> | 1981 03 01 | 413 | Bus, S. J.                        | (18354) | 1990 RK <sub>5</sub>  | 1990 09 15 | 675 | Holt, H. E.                      |
| (18311) | 1981 EV <sub>16</sub> | 1981 03 06 | 413 | Bus, S. J.                        | (18355) | 1990 RN <sub>9</sub>  | 1990 09 14 | 675 | Holt, H. E.                      |
| (18312) | 1981 EC <sub>19</sub> | 1981 03 02 | 413 | Bus, S. J.                        | (18356) | 1990 SF <sub>1</sub>  | 1990 09 16 | 675 | Holt, H. E.                      |
| (18313) | 1981 EB <sub>23</sub> | 1981 03 02 | 413 | Bus, S. J.                        | (18357) | 1990 SR <sub>2</sub>  | 1990 09 18 | 675 | Holt, H. E.                      |
| (18314) | 1981 EX <sub>27</sub> | 1981 03 02 | 413 | Bus, S. J.                        | (18358) | 1990 SB <sub>11</sub> | 1990 09 16 | 675 | Holt, H. E.                      |
| (18315) | 1981 ED <sub>37</sub> | 1981 03 11 | 413 | Bus, S. J.                        | (18359) | 1990 TL <sub>7</sub>  | 1990 10 13 | 033 | Börngen, F., Schmadel, L. D.     |
| (18316) | 1981 EJ <sub>38</sub> | 1981 03 01 | 413 | Bus, S. J.                        | (18360) | 1990 TF <sub>9</sub>  | 1990 10 10 | 033 | Börngen, F., Schmadel, L. D.     |
| (18317) | 1981 EM <sub>41</sub> | 1981 03 02 | 413 | Bus, S. J.                        | (18361) | 1990 VN <sub>6</sub>  | 1990 11 15 | 809 | Elst, E. W.                      |
| (18318) | 1981 ET <sub>43</sub> | 1981 03 06 | 413 | Bus, S. J.                        | (18362) | 1990 VX <sub>6</sub>  | 1990 11 15 | 809 | Elst, E. W.                      |
| (18319) | 1981 QS <sub>2</sub>  | 1981 08 23 | 809 | Debehogne, H.                     | (18363) | 1990 VW <sub>8</sub>  | 1990 11 12 | 809 | Elst, E. W.                      |
| (18320) | 1981 UJ <sub>28</sub> | 1981 10 24 | 675 | Bus, S. J.                        | (18364) | 1990 WF <sub>4</sub>  | 1990 11 16 | 809 | Elst, E. W.                      |
| (18321) | 1982 UQ <sub>10</sub> | 1982 10 25 | 095 | Zhuravleva, L. V.                 | (18365) | 1990 WN <sub>5</sub>  | 1990 11 17 | 372 | Seki, T.                         |
| (18322) | 1982 VF <sub>5</sub>  | 1982 11 14 | 381 | Kosai, H., Hurukawa, K.           | (18366) | 1991 DG <sub>1</sub>  | 1991 02 18 | 675 | Helin, E. F.                     |
| (18323) | 1983 RZ <sub>2</sub>  | 1983 09 02 | 809 | Debehogne, H.                     | (18367) | 1991 FS <sub>1</sub>  | 1991 03 17 | 809 | Debehogne, H.                    |
| (18324) | 1984 HA <sub>2</sub>  | 1984 04 27 | 809 | La Silla                          | (18368) | 1991 GZ <sub>1</sub>  | 1991 04 15 | 675 | Shoemaker, C. S.                 |
| (18325) | 1984 SB <sub>2</sub>  | 1984 09 29 | 046 | Mrkos, A.                         | (18369) | 1991 LM               | 1991 06 13 | 675 | Helin, E. F.                     |
| (18326) | 1985 CV <sub>1</sub>  | 1985 02 11 | 809 | Debehogne, H.                     | (18370) | 1991 NS <sub>2</sub>  | 1991 07 12 | 675 | Holt, H. E.                      |
| (18327) | 1985 CX <sub>1</sub>  | 1985 02 12 | 809 | Debehogne, H.                     | (18371) | 1991 PH <sub>10</sub> | 1991 08 07 | 675 | Holt, H. E.                      |
|         |                       |            |     |                                   | (18372) | 1991 RF <sub>16</sub> | 1991 09 15 | 675 | Holt, H. E.                      |
|         |                       |            |     |                                   | (18373) | 1991 RQ <sub>16</sub> | 1991 09 15 | 675 | Holt, H. E.                      |
|         |                       |            |     |                                   | (18374) | 1991 RA <sub>18</sub> | 1991 09 13 | 675 | Holt, H. E.                      |
|         |                       |            |     |                                   | (18375) | 1991 RC <sub>27</sub> | 1991 09 13 | 675 | Holt, H. E.                      |
|         |                       |            |     |                                   | (18376) | 1991 SQ               | 1991 09 30 | 413 | McNaught, R. H.                  |
|         |                       |            |     |                                   | (18377) | 1991 SH <sub>1</sub>  | 1991 09 28 | 413 | McNaught, R. H.                  |
|         |                       |            |     |                                   | (18378) | 1991 UX <sub>2</sub>  | 1991 10 31 | 399 | Ueda, S., Kaneda, H.             |
|         |                       |            |     |                                   | (18379) | 1991 VJ <sub>6</sub>  | 1991 11 06 | 809 | Elst, E. W.                      |

|         |                       |            |     |                              |         |                       |            |     |                            |
|---------|-----------------------|------------|-----|------------------------------|---------|-----------------------|------------|-----|----------------------------|
| (18380) | 1991 VZ <sub>8</sub>  | 1991 11 04 | 691 | Spacewatch                   | (18432) | 1994 CJ <sub>2</sub>  | 1994 02 13 | 411 | Kobayashi, T.              |
| (18381) | 1991 YU               | 1991 12 30 | 511 | Elst, E. W.                  | (18433) | 1994 EQ               | 1994 03 04 | 411 | Kobayashi, T.              |
| (18382) | 1992 EG <sub>22</sub> | 1992 03 01 | 809 | UESAC                        | (18434) | 1994 EW <sub>7</sub>  | 1994 03 12 | 675 | Shoemaker, C. S.           |
| (18383) | 1992 ER <sub>28</sub> | 1992 03 08 | 809 | UESAC                        | (18435) | 1994 GW <sub>10</sub> | 1994 04 14 | 675 | PCAS                       |
| (18384) | 1992 ES <sub>28</sub> | 1992 03 08 | 809 | UESAC                        | (18436) | 1994 GY <sub>10</sub> | 1994 04 14 | 675 | PCAS                       |
| (18385) | 1992 EG <sub>31</sub> | 1992 03 01 | 809 | UESAC                        | (18437) | 1994 JR               | 1994 05 05 | 675 | Helin, E. F.               |
| (18386) | 1992 EL <sub>35</sub> | 1992 03 02 | 809 | UESAC                        | (18438) | 1994 JM <sub>6</sub>  | 1994 05 04 | 691 | Spacewatch                 |
| (18387) | 1992 GN <sub>3</sub>  | 1992 04 04 | 809 | Elst, E. W.                  | (18439) | 1994 LJ <sub>1</sub>  | 1994 06 09 | 675 | Helin, E. F.               |
| (18388) | 1992 GX <sub>4</sub>  | 1992 04 04 | 809 | Elst, E. W.                  | (18440) | 1994 NV <sub>1</sub>  | 1994 07 08 | 010 | Elst, E. W.                |
| (18389) | 1992 JU <sub>2</sub>  | 1992 05 04 | 809 | Debehogne, H.                | (18441) | 1994 PE               | 1994 08 05 | 104 | Boattini, A., Tombelli, M. |
| (18390) | 1992 JD <sub>3</sub>  | 1992 05 07 | 809 | Debehogne, H.                | (18442) | 1994 PK <sub>3</sub>  | 1994 08 10 | 809 | Elst, E. W.                |
| (18391) | 1992 PO <sub>1</sub>  | 1992 08 08 | 010 | Elst, E. W.                  | (18443) | 1994 PW <sub>8</sub>  | 1994 08 10 | 809 | Elst, E. W.                |
| (18392) | 1992 PT <sub>4</sub>  | 1992 08 02 | 675 | Holt, H. E.                  | (18444) | 1994 PL <sub>10</sub> | 1994 08 10 | 809 | Elst, E. W.                |
| (18393) | 1992 QB               | 1992 08 19 | 413 | McNaught, R. H.              | (18445) | 1994 PC <sub>12</sub> | 1994 08 10 | 809 | Elst, E. W.                |
| (18394) | 1992 RR <sub>5</sub>  | 1992 09 02 | 809 | Elst, E. W.                  | (18446) | 1994 PN <sub>13</sub> | 1994 08 10 | 809 | Elst, E. W.                |
| (18395) | 1992 SH <sub>2</sub>  | 1992 09 21 | 033 | Börngen, F., Schmadel, L. D. | (18447) | 1994 PU <sub>13</sub> | 1994 08 10 | 809 | Elst, E. W.                |
| (18396) | 1992 SN <sub>2</sub>  | 1992 09 21 | 033 | Börngen, F., Schmadel, L. D. | (18448) | 1994 PW <sub>17</sub> | 1994 08 10 | 809 | Elst, E. W.                |
| (18397) | 1992 SF <sub>14</sub> | 1992 09 28 | 675 | Holt, H. E.                  | (18449) | 1994 PT <sub>19</sub> | 1994 08 12 | 809 | Elst, E. W.                |
| (18398) | 1992 SQ <sub>23</sub> | 1992 09 23 | 033 | Börngen, F.                  | (18450) | 1994 PG <sub>27</sub> | 1994 08 12 | 809 | Elst, E. W.                |
| (18399) | 1992 WK <sub>1</sub>  | 1992 11 17 | 400 | Endate, K., Watanabe, K.     | (18451) | 1994 PZ <sub>27</sub> | 1994 08 12 | 809 | Elst, E. W.                |
| (18400) | 1992 WY <sub>3</sub>  | 1992 11 25 | 372 | Seki, T.                     | (18452) | 1994 PL <sub>33</sub> | 1994 08 10 | 809 | Elst, E. W.                |
| (18401) | 1992 WE <sub>4</sub>  | 1992 11 21 | 399 | Ueda, S., Kaneda, H.         | (18453) | 1994 TT               | 1994 10 02 | 400 | Endate, K., Watanabe, K.   |
| (18402) | 1992 YU <sub>2</sub>  | 1992 12 26 | 385 | Urata, T.                    | (18454) | 1995 BF <sub>1</sub>  | 1995 01 23 | 894 | Otomo, S.                  |
| (18403) | 1993 AG               | 1993 01 13 | 400 | Endate, K., Watanabe, K.     | (18455) | 1995 DF               | 1995 02 20 | 411 | Kobayashi, T.              |
| (18404) | 1993 FQ <sub>2</sub>  | 1993 03 20 | 400 | Endate, K., Watanabe, K.     | (18456) | 1995 ES               | 1995 03 08 | 046 | Kleť                       |
| (18405) | 1993 FY <sub>12</sub> | 1993 03 17 | 809 | UESAC                        | (18457) | 1995 EX <sub>7</sub>  | 1995 03 05 | 408 | Hirasawa, M., Suzuki, S.   |
| (18406) | 1993 FT <sub>14</sub> | 1993 03 17 | 809 | UESAC                        | (18458) | 1995 EY <sub>8</sub>  | 1995 03 05 | 033 | Börngen, F.                |
| (18407) | 1993 FQ <sub>24</sub> | 1993 03 21 | 809 | UESAC                        | (18459) | 1995 FD <sub>1</sub>  | 1995 03 28 | 399 | Ueda, S., Kaneda, H.       |
| (18408) | 1993 FP <sub>30</sub> | 1993 03 21 | 809 | UESAC                        | (18460) | 1995 PG               | 1995 08 05 | 557 | Šarounová, L.              |
| (18409) | 1993 FF <sub>36</sub> | 1993 03 19 | 809 | UESAC                        | (18461) | 1995 QQ               | 1995 08 17 | 358 | Okuni, T.                  |
| (18410) | 1993 FC <sub>51</sub> | 1993 03 19 | 809 | UESAC                        | (18462) | 1995 QS <sub>2</sub>  | 1995 08 26 | 552 | Osservatorio San Vittore   |
| (18411) | 1993 FB <sub>82</sub> | 1993 03 19 | 809 | UESAC                        | (18463) | 1995 SV <sub>16</sub> | 1995 09 18 | 691 | Spacewatch                 |
| (18412) | 1993 LX               | 1993 06 13 | 413 | McNaught, R. H.              | (18464) | 1995 SK <sub>23</sub> | 1995 09 19 | 691 | Spacewatch                 |
| (18413) | 1993 LD <sub>1</sub>  | 1993 06 13 | 413 | McNaught, R. H.              | (18465) | 1995 SB <sub>34</sub> | 1995 09 22 | 691 | Spacewatch                 |
| (18414) | 1993 OY <sub>6</sub>  | 1993 07 20 | 809 | Elst, E. W.                  | (18466) | 1995 SU <sub>37</sub> | 1995 09 24 | 691 | Spacewatch                 |
| (18415) | 1993 PW <sub>5</sub>  | 1993 08 15 | 010 | Elst, E. W.                  | (18467) | 1995 SX <sub>52</sub> | 1995 09 22 | 400 | Endate, K., Watanabe, K.   |
| (18416) | 1993 QW               | 1993 08 22 | 675 | Helin, E. F.                 | (18468) | 1995 UE <sub>8</sub>  | 1995 10 27 | 411 | Kobayashi, T.              |
| (18417) | 1993 QY <sub>9</sub>  | 1993 08 20 | 809 | Elst, E. W.                  | (18469) | 1995 UC <sub>9</sub>  | 1995 10 20 | 369 | Sato, N., Urata, T.        |
| (18418) | 1993 TV <sub>1</sub>  | 1993 10 15 | 400 | Endate, K., Watanabe, K.     | (18470) | 1995 UX <sub>44</sub> | 1995 10 27 | 399 | Ueda, S., Kaneda, H.       |
| (18419) | 1993 TS <sub>20</sub> | 1993 10 09 | 809 | Elst, E. W.                  | (18471) | 1995 UZ <sub>45</sub> | 1995 10 20 | 010 | Elst, E. W.                |
| (18420) | 1993 TR <sub>25</sub> | 1993 10 09 | 809 | Elst, E. W.                  | (18472) | 1995 VA <sub>1</sub>  | 1995 11 12 | 400 | Endate, K., Watanabe, K.   |
| (18421) | 1993 TV <sub>34</sub> | 1993 10 09 | 809 | Elst, E. W.                  | (18473) | 1995 VK <sub>1</sub>  | 1995 11 15 | 400 | Endate, K., Watanabe, K.   |
| (18422) | 1993 UE <sub>6</sub>  | 1993 10 20 | 809 | Elst, E. W.                  | (18474) | 1995 WV <sub>3</sub>  | 1995 11 18 | 905 | Shimizu, Y., Urata, T.     |
| (18423) | 1993 UF <sub>7</sub>  | 1993 10 20 | 809 | Elst, E. W.                  | (18475) | 1995 WM <sub>7</sub>  | 1995 11 27 | 411 | Kobayashi, T.              |
| (18424) | 1993 YG               | 1993 12 17 | 411 | Kobayashi, T.                | (18476) | 1995 WR <sub>7</sub>  | 1995 11 27 | 411 | Kobayashi, T.              |
| (18425) | 1993 YL               | 1993 12 18 | 411 | Kobayashi, T.                | (18477) | 1995 WA <sub>11</sub> | 1995 11 16 | 691 | Spacewatch                 |
| (18426) | 1993 YN <sub>2</sub>  | 1993 12 18 | 587 | Colzani, E., Ventre, G.      | (18478) | 1995 WT <sub>15</sub> | 1995 11 17 | 691 | Spacewatch                 |
| (18427) | 1994 AY               | 1994 01 04 | 411 | Kobayashi, T.                | (18479) | 1995 XR               | 1995 12 12 | 411 | Kobayashi, T.              |
| (18428) | 1994 AC <sub>1</sub>  | 1994 01 07 | 411 | Kobayashi, T.                | (18480) | 1995 YB               | 1995 12 17 | 411 | Kobayashi, T.              |
| (18429) | 1994 AO <sub>1</sub>  | 1994 01 08 | 402 | Sugie, A.                    | (18481) | 1995 YH               | 1995 12 17 | 411 | Kobayashi, T.              |
| (18430) | 1994 AK <sub>16</sub> | 1994 01 14 | 033 | Börngen, F.                  | (18482) | 1995 YO               | 1995 12 19 | 411 | Kobayashi, T.              |
| (18431) | 1994 BM               | 1994 01 16 | 098 | Boattini, A., Tombelli, M.   | (18483) | 1995 YY <sub>2</sub>  | 1995 12 26 | 411 | Kobayashi, T.              |

|         |                       |            |     |                                      |         |                       |            |     |                                      |
|---------|-----------------------|------------|-----|--------------------------------------|---------|-----------------------|------------|-----|--------------------------------------|
| (18484) | 1995 YB <sub>3</sub>  | 1995 12 27 | 566 | JPL/GEODSS NEAT                      | (18536) | 1996 XN <sub>15</sub> | 1996 12 10 | 327 | Beijing Schmidt CCD Asteroid Program |
| (18485) | 1996 AB               | 1996 01 01 | 411 | Kobayashi, T.                        | (18537) | 1996 XH <sub>18</sub> | 1996 12 07 | 691 | Spacewatch                           |
| (18486) | 1996 AS <sub>2</sub>  | 1996 01 13 | 411 | Kobayashi, T.                        | (18538) | 1996 XY <sub>18</sub> | 1996 12 06 | 905 | Shimizu, Y., Urata, T.               |
| (18487) | 1996 AU <sub>3</sub>  | 1996 01 13 | 399 | Ueda, S., Kaneda, H.                 | (18539) | 1996 XX <sub>30</sub> | 1996 12 14 | 411 | Kobayashi, T.                        |
| (18488) | 1996 AY <sub>3</sub>  | 1996 01 13 | 369 | Sato, N., Urata, T.                  | (18540) | 1996 XK <sub>31</sub> | 1996 12 14 | 411 | Kobayashi, T.                        |
| (18489) | 1996 BV <sub>2</sub>  | 1996 01 26 | 365 | Uto, F.                              | (18541) | 1996 YA <sub>1</sub>  | 1996 12 20 | 411 | Kobayashi, T.                        |
| (18490) | 1996 BG <sub>17</sub> | 1996 01 24 | 704 | Socorro                              | (18542) | 1996 YP <sub>3</sub>  | 1996 12 29 | 587 | Testa, A., Manca, F.                 |
| (18491) | 1996 DP <sub>2</sub>  | 1996 02 23 | 411 | Kobayashi, T.                        | (18543) | 1997 AE               | 1997 01 02 | 411 | Kobayashi, T.                        |
| (18492) | 1996 GS <sub>2</sub>  | 1996 04 08 | 327 | Beijing Schmidt CCD Asteroid Program | (18544) | 1997 AA <sub>2</sub>  | 1997 01 03 | 411 | Kobayashi, T.                        |
| (18493) | 1996 HV <sub>9</sub>  | 1996 04 17 | 809 | Elst, E. W.                          | (18545) | 1997 AO <sub>2</sub>  | 1997 01 03 | 411 | Kobayashi, T.                        |
| (18494) | 1996 HH <sub>10</sub> | 1996 04 17 | 809 | Elst, E. W.                          | (18546) | 1997 AP <sub>4</sub>  | 1997 01 06 | 411 | Kobayashi, T.                        |
| (18495) | 1996 HH <sub>24</sub> | 1996 04 20 | 809 | Elst, E. W.                          | (18547) | 1997 AU <sub>5</sub>  | 1997 01 07 | 411 | Kobayashi, T.                        |
| (18496) | 1996 JN <sub>1</sub>  | 1996 05 09 | 413 | McNaught, R. H.                      | (18548) | 1997 AN <sub>12</sub> | 1997 01 10 | 684 | Comba, P. G.                         |
| (18497) | 1996 LK <sub>1</sub>  | 1996 06 11 | 046 | Kleť                                 | (18549) | 1997 AD <sub>13</sub> | 1997 01 11 | 411 | Kobayashi, T.                        |
| (18498) | 1996 MN               | 1996 06 22 | 684 | Comba, P. G.                         | (18550) | 1997 AN <sub>14</sub> | 1997 01 09 | 327 | Beijing Schmidt CCD Asteroid Program |
| (18499) | 1996 MR               | 1996 06 22 | 566 | JPL/GEODSS NEAT                      | (18551) | 1997 AQ <sub>17</sub> | 1997 01 13 | 595 | Farra d'Isonzo                       |
| (18500) | 1996 NX <sub>3</sub>  | 1996 07 14 | 809 | Elst, E. W.                          | (18552) | 1997 AM <sub>21</sub> | 1997 01 13 | 905 | Shimizu, Y., Urata, T.               |
| (18501) | 1996 OB               | 1996 07 16 | 595 | Farra d'Isonzo                       | (18553) | 1997 AZ <sub>21</sub> | 1997 01 06 | 369 | Sato, N.                             |
| (18502) | 1996 PK <sub>1</sub>  | 1996 08 11 | 816 | Viscome, G. R.                       | (18554) | 1997 BO <sub>1</sub>  | 1997 01 29 | 411 | Kobayashi, T.                        |
| (18503) | 1996 PY <sub>4</sub>  | 1996 08 15 | 566 | JPL/GEODSS NEAT                      | (18555) | 1997 CN <sub>4</sub>  | 1997 02 04 | 684 | Comba, P. G.                         |
| (18504) | 1996 PB <sub>5</sub>  | 1996 08 15 | 566 | JPL/GEODSS NEAT                      | (18556) | 1997 CC <sub>7</sub>  | 1997 02 07 | 587 | Sicoli, P., Manca, F.                |
| (18505) | 1996 PG <sub>5</sub>  | 1996 08 09 | 552 | Osservatorio San Vittore             | (18557) | 1997 CQ <sub>11</sub> | 1997 02 03 | 691 | Spacewatch                           |
| (18506) | 1996 PY <sub>6</sub>  | 1996 08 15 | 424 | McNaught, R. H., Child, J. B.        | (18558) | 1997 CO <sub>19</sub> | 1997 02 06 | 385 | Urata, T.                            |
| (18507) | 1996 QM <sub>1</sub>  | 1996 08 18 | 824 | Williams, K. A.                      | (18559) | 1997 EN <sub>2</sub>  | 1997 03 04 | 411 | Kobayashi, T.                        |
| (18508) | 1996 RJ <sub>2</sub>  | 1996 09 08 | 566 | JPL/GEODSS NEAT                      | (18560) | 1997 EO <sub>7</sub>  | 1997 03 07 | 684 | Comba, P. G.                         |
| (18509) | 1996 RB <sub>4</sub>  | 1996 09 14 | 596 | Casulli, V. S.                       | (18561) | 1997 EY <sub>34</sub> | 1997 03 04 | 704 | LINEAR                               |
| (18510) | 1996 SN               | 1996 09 16 | 684 | Comba, P. G.                         | (18562) | 1997 EK <sub>54</sub> | 1997 03 08 | 809 | Elst, E. W.                          |
| (18511) | 1996 SH <sub>4</sub>  | 1996 09 19 | 327 | Beijing Schmidt CCD Asteroid Program | (18563) | 1997 FC <sub>3</sub>  | 1997 03 31 | 704 | LINEAR                               |
| (18512) | 1996 SO <sub>7</sub>  | 1996 09 17 | 894 | Otomo, S.                            | (18564) | 1997 GO <sub>6</sub>  | 1997 04 02 | 704 | LINEAR                               |
| (18513) | 1996 TS <sub>5</sub>  | 1996 10 07 | 693 | Spahr, T. B.                         | (18565) | 1997 GP <sub>35</sub> | 1997 04 06 | 704 | LINEAR                               |
| (18514) | 1996 TE <sub>11</sub> | 1996 10 14 | 413 | McNaught, R. H.                      | (18566) | 1997 RS <sub>3</sub>  | 1997 09 01 | 910 | ODAS                                 |
| (18515) | 1996 TL <sub>14</sub> | 1996 10 09 | 399 | Ueda, S., Kaneda, H.                 | (18567) | 1997 SS <sub>4</sub>  | 1997 09 27 | 611 | Starkenburg                          |
| (18516) | 1996 TL <sub>29</sub> | 1996 10 07 | 691 | Spacewatch                           | (18568) | 1997 TL <sub>2</sub>  | 1997 10 03 | 910 | ODAS                                 |
| (18517) | 1996 VG <sub>2</sub>  | 1996 11 06 | 411 | Kobayashi, T.                        | (18569) | 1997 UC <sub>11</sub> | 1997 10 26 | 385 | Urata, T.                            |
| (18518) | 1996 VT <sub>3</sub>  | 1996 11 02 | 327 | Beijing Schmidt CCD Asteroid Program | (18570) | 1997 VB <sub>6</sub>  | 1997 11 09 | 411 | Kobayashi, T.                        |
| (18519) | 1996 VH <sub>4</sub>  | 1996 11 08 | 327 | Beijing Schmidt CCD Asteroid Program | (18571) | 1997 WQ <sub>21</sub> | 1997 11 30 | 411 | Kobayashi, T.                        |
| (18520) | 1996 VK <sub>4</sub>  | 1996 11 06 | 369 | Sato, N.                             | (18572) | 1997 WQ <sub>22</sub> | 1997 11 28 | 910 | ODAS                                 |
| (18521) | 1996 VV <sub>5</sub>  | 1996 11 14 | 411 | Kobayashi, T.                        | (18573) | 1997 WM <sub>23</sub> | 1997 11 28 | 910 | ODAS                                 |
| (18522) | 1996 VA <sub>6</sub>  | 1996 11 15 | 411 | Kobayashi, T.                        | (18574) | 1997 WO <sub>23</sub> | 1997 11 28 | 910 | ODAS                                 |
| (18523) | 1996 VA <sub>7</sub>  | 1996 11 02 | 327 | Beijing Schmidt CCD Asteroid Program | (18575) | 1997 WS <sub>31</sub> | 1997 11 29 | 704 | LINEAR                               |
| (18524) | 1996 VE <sub>8</sub>  | 1996 11 06 | 400 | Endate, K., Watanabe, K.             | (18576) | 1997 WA <sub>42</sub> | 1997 11 29 | 704 | LINEAR                               |
| (18525) | 1996 VO <sub>8</sub>  | 1996 11 07 | 399 | Ueda, S., Kaneda, H.                 | (18577) | 1997 XH               | 1997 12 03 | 910 | ODAS                                 |
| (18526) | 1996 VB <sub>30</sub> | 1996 11 07 | 399 | Ueda, S., Kaneda, H.                 | (18578) | 1997 XP               | 1997 12 03 | 411 | Kobayashi, T.                        |
| (18527) | 1996 VJ <sub>30</sub> | 1996 11 07 | 399 | Ueda, S., Kaneda, H.                 | (18579) | 1997 XY <sub>6</sub>  | 1997 12 05 | 910 | ODAS                                 |
| (18528) | 1996 VX <sub>30</sub> | 1996 11 02 | 327 | Beijing Schmidt CCD Asteroid Program | (18580) | 1997 XN <sub>8</sub>  | 1997 12 07 | 910 | ODAS                                 |
| (18529) | 1996 WK <sub>3</sub>  | 1996 11 28 | 327 | Beijing Schmidt CCD Asteroid Program | (18581) | 1997 XV <sub>8</sub>  | 1997 12 07 | 910 | ODAS                                 |
| (18530) | 1996 XS <sub>1</sub>  | 1996 12 02 | 411 | Kobayashi, T.                        | (18582) | 1997 XK <sub>9</sub>  | 1997 12 04 | 327 | Beijing Schmidt CCD Asteroid Program |
| (18531) | 1996 XM <sub>2</sub>  | 1996 12 04 | 046 | Kleť                                 | (18583) | 1997 XN <sub>10</sub> | 1997 12 07 | 098 | Boattini, A., Tombelli, M.           |
| (18532) | 1996 XW <sub>2</sub>  | 1996 12 03 | 411 | Kobayashi, T.                        | (18584) | 1997 YB <sub>2</sub>  | 1997 12 21 | 411 | Kobayashi, T.                        |
| (18533) | 1996 XJ <sub>6</sub>  | 1996 12 03 | 905 | Shimizu, Y., Urata, T.               | (18585) | 1997 YE <sub>2</sub>  | 1997 12 21 | 411 | Kobayashi, T.                        |
| (18534) | 1996 XE <sub>12</sub> | 1996 12 04 | 691 | Spacewatch                           | (18586) | 1997 YD <sub>3</sub>  | 1997 12 24 | 411 | Kobayashi, T.                        |
| (18535) | 1996 XQ <sub>13</sub> | 1996 12 09 | 046 | Kleť                                 | (18587) | 1997 YR <sub>5</sub>  | 1997 12 25 | 411 | Kobayashi, T.                        |

|         |                       |            |     |                                      |         |                        |            |     |                                      |
|---------|-----------------------|------------|-----|--------------------------------------|---------|------------------------|------------|-----|--------------------------------------|
| (18588) | 1997 YO <sub>9</sub>  | 1997 12 25 | 566 | JPL/GEODSS NEAT                      | (18640) | 1998 EF <sub>9</sub>   | 1998 03 07 | 327 | Beijing Schmidt CCD Asteroid Program |
| (18589) | 1997 YL <sub>10</sub> | 1997 12 28 | 411 | Kobayashi, T.                        | (18641) | 1998 EG <sub>10</sub>  | 1998 03 06 | 888 | Kagawa, T.                           |
| (18590) | 1997 YO <sub>10</sub> | 1997 12 28 | 411 | Kobayashi, T.                        | (18642) | 1998 EF <sub>12</sub>  | 1998 03 01 | 809 | Elst, E. W.                          |
| (18591) | 1997 YT <sub>11</sub> | 1997 12 30 | 411 | Kobayashi, T.                        | (18643) | 1998 EK <sub>12</sub>  | 1998 03 01 | 809 | Elst, E. W.                          |
| (18592) | 1997 YO <sub>18</sub> | 1997 12 24 | 327 | Beijing Schmidt CCD Asteroid Program | (18644) | 1998 EX <sub>14</sub>  | 1998 03 02 | 372 | Seki, T.                             |
| (18593) | 1998 AG <sub>11</sub> | 1998 01 05 | 327 | Beijing Schmidt CCD Asteroid Program | (18645) | 1998 EM <sub>19</sub>  | 1998 03 03 | 809 | Elst, E. W.                          |
| (18594) | 1998 BJ               | 1998 01 16 | 905 | Shimizu, Y., Urata, T.               | (18646) | 1998 ED <sub>21</sub>  | 1998 03 03 | 809 | Elst, E. W.                          |
| (18595) | 1998 BR <sub>1</sub>  | 1998 01 19 | 411 | Kobayashi, T.                        | (18647) | 1998 FD <sub>2</sub>   | 1998 03 21 | 557 | Pravec, P.                           |
| (18596) | 1998 BA <sub>4</sub>  | 1998 01 21 | 596 | Casulli, V. S.                       | (18648) | 1998 FW <sub>9</sub>   | 1998 03 24 | 910 | ODAS                                 |
| (18597) | 1998 BE <sub>8</sub>  | 1998 01 25 | 411 | Kobayashi, T.                        | (18649) | 1998 FU <sub>10</sub>  | 1998 03 24 | 910 | ODAS                                 |
| (18598) | 1998 BH <sub>8</sub>  | 1998 01 25 | 411 | Kobayashi, T.                        | (18650) | 1998 FX <sub>10</sub>  | 1998 03 24 | 910 | ODAS                                 |
| (18599) | 1998 BK <sub>8</sub>  | 1998 01 25 | 411 | Kobayashi, T.                        | (18651) | 1998 FP <sub>11</sub>  | 1998 03 22 | 905 | Shimizu, Y., Urata, T.               |
| (18600) | 1998 BK <sub>10</sub> | 1998 01 24 | 426 | Zoltowski, F. B.                     | (18652) | 1998 FD <sub>15</sub>  | 1998 03 21 | 399 | Ueda, S., Kaneda, H.                 |
| (18601) | 1998 BL <sub>11</sub> | 1998 01 23 | 704 | LINEAR                               | (18653) | 1998 FW <sub>15</sub>  | 1998 03 28 | 611 | Starkenburg                          |
| (18602) | 1998 BX <sub>12</sub> | 1998 01 23 | 704 | LINEAR                               | (18654) | 1998 FR <sub>22</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18603) | 1998 BM <sub>25</sub> | 1998 01 28 | 411 | Kobayashi, T.                        | (18655) | 1998 FS <sub>26</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18604) | 1998 BK <sub>26</sub> | 1998 01 28 | 910 | ODAS                                 | (18656) | 1998 FW <sub>29</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18605) | 1998 BL <sub>26</sub> | 1998 01 28 | 910 | ODAS                                 | (18657) | 1998 FE <sub>30</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18606) | 1998 BS <sub>33</sub> | 1998 01 31 | 411 | Kobayashi, T.                        | (18658) | 1998 FX <sub>31</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18607) | 1998 BT <sub>33</sub> | 1998 01 31 | 411 | Kobayashi, T.                        | (18659) | 1998 FD <sub>33</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18608) | 1998 BU <sub>45</sub> | 1998 01 25 | 691 | Spacewatch                           | (18660) | 1998 FL <sub>34</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18609) | 1998 BN <sub>48</sub> | 1998 01 30 | 372 | Seki, T.                             | (18661) | 1998 FT <sub>34</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18610) | 1998 CC <sub>2</sub>  | 1998 02 07 | 611 | Starkenburg                          | (18662) | 1998 FV <sub>42</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18611) | 1998 CB <sub>3</sub>  | 1998 02 06 | 809 | Elst, E. W.                          | (18663) | 1998 FW <sub>42</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18612) | 1998 CK <sub>3</sub>  | 1998 02 06 | 809 | Elst, E. W.                          | (18664) | 1998 FA <sub>43</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18613) | 1998 DR               | 1998 02 19 | 046 | Klet                                 | (18665) | 1998 FK <sub>49</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18614) | 1998 DN <sub>2</sub>  | 1998 02 20 | 910 | ODAS                                 | (18666) | 1998 FT <sub>53</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18615) | 1998 DJ <sub>5</sub>  | 1998 02 22 | 566 | JPL/GEODSS NEAT                      | (18667) | 1998 FF <sub>62</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18616) | 1998 DR <sub>5</sub>  | 1998 02 22 | 566 | JPL/GEODSS NEAT                      | (18668) | 1998 FU <sub>62</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18617) | 1998 DY <sub>9</sub>  | 1998 02 24 | 133 | Boeuf, M.                            | (18669) | 1998 FP <sub>63</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18618) | 1998 DD <sub>10</sub> | 1998 02 22 | 566 | JPL/GEODSS NEAT                      | (18670) | 1998 FM <sub>64</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18619) | 1998 DG <sub>10</sub> | 1998 02 22 | 566 | JPL/GEODSS NEAT                      | (18671) | 1998 FX <sub>64</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18620) | 1998 DS <sub>10</sub> | 1998 02 24 | 566 | JPL/GEODSS NEAT                      | (18672) | 1998 FY <sub>65</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18621) | 1998 DD <sub>12</sub> | 1998 02 23 | 691 | Spacewatch                           | (18673) | 1998 FH <sub>66</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18622) | 1998 DN <sub>13</sub> | 1998 02 25 | 566 | JPL/GEODSS NEAT                      | (18674) | 1998 FG <sub>69</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18623) | 1998 DR <sub>13</sub> | 1998 02 27 | 122 | Pises                                | (18675) | 1998 FJ <sub>70</sub>  | 1998 03 20 | 704 | LINEAR                               |
| (18624) | 1998 DV <sub>13</sub> | 1998 02 27 | 910 | ODAS                                 | (18676) | 1998 FE <sub>73</sub>  | 1998 03 30 | 557 | Pravec, P.                           |
| (18625) | 1998 DZ <sub>13</sub> | 1998 02 27 | 910 | ODAS                                 | (18677) | 1998 FZ <sub>83</sub>  | 1998 03 24 | 704 | LINEAR                               |
| (18626) | 1998 DO <sub>23</sub> | 1998 02 27 | 910 | ODAS                                 | (18678) | 1998 FS <sub>85</sub>  | 1998 03 24 | 704 | LINEAR                               |
| (18627) | 1998 DH <sub>33</sub> | 1998 02 27 | 098 | Munari, U., Tombelli, M.             | (18679) | 1998 FW <sub>102</sub> | 1998 03 31 | 704 | LINEAR                               |
| (18628) | 1998 DJ <sub>33</sub> | 1998 02 27 | 098 | Forti, G., Tombelli, M.              | (18680) | 1998 FS <sub>103</sub> | 1998 03 31 | 704 | LINEAR                               |
| (18629) | 1998 DZ <sub>33</sub> | 1998 02 27 | 809 | Elst, E. W.                          | (18681) | 1998 FW <sub>103</sub> | 1998 03 31 | 704 | LINEAR                               |
| (18630) | 1998 DT <sub>34</sub> | 1998 02 27 | 809 | Elst, E. W.                          | (18682) | 1998 FH <sub>107</sub> | 1998 03 31 | 704 | LINEAR                               |
| (18631) | 1998 DQ <sub>35</sub> | 1998 02 27 | 098 | Boattini, A., Tombelli, M.           | (18683) | 1998 FB <sub>111</sub> | 1998 03 31 | 704 | LINEAR                               |
| (18632) | 1998 DN <sub>37</sub> | 1998 02 28 | 809 | Lagerkvist, C.-I.                    | (18684) | 1998 FW <sub>116</sub> | 1998 03 31 | 704 | LINEAR                               |
| (18633) | 1998 EU               | 1998 03 02 | 910 | ODAS                                 | (18685) | 1998 FL <sub>117</sub> | 1998 03 31 | 704 | LINEAR                               |
| (18634) | 1998 EQ <sub>1</sub>  | 1998 03 02 | 910 | ODAS                                 | (18686) | 1998 FZ <sub>119</sub> | 1998 03 20 | 704 | LINEAR                               |
| (18635) | 1998 EX <sub>1</sub>  | 1998 03 02 | 910 | ODAS                                 | (18687) | 1998 FA <sub>120</sub> | 1998 03 20 | 704 | LINEAR                               |
| (18636) | 1998 EF <sub>2</sub>  | 1998 03 02 | 910 | ODAS                                 | (18688) | 1998 FA <sub>123</sub> | 1998 03 20 | 704 | LINEAR                               |
| (18637) | 1998 EJ <sub>2</sub>  | 1998 03 02 | 910 | ODAS                                 | (18689) | 1998 FR <sub>124</sub> | 1998 03 24 | 704 | LINEAR                               |
| (18638) | 1998 EP <sub>3</sub>  | 1998 03 02 | 910 | ODAS                                 | (18690) | 1998 GB <sub>10</sub>  | 1998 04 02 | 704 | LINEAR                               |
| (18639) | 1998 ER <sub>8</sub>  | 1998 03 05 | 327 | Beijing Schmidt CCD Asteroid Program | (18691) | 1998 HE <sub>1</sub>   | 1998 04 17 | 327 | Beijing Schmidt CCD Asteroid Program |

|         |                        |            |     |                      |         |                       |            |     |                                      |
|---------|------------------------|------------|-----|----------------------|---------|-----------------------|------------|-----|--------------------------------------|
| (18692) | 1998 HJ <sub>14</sub>  | 1998 04 22 | 566 | JPL/GEODSS NEAT      | (18744) | 1999 AU               | 1999 01 07 | 411 | Kobayashi, T.                        |
| (18693) | 1998 HS <sub>19</sub>  | 1998 04 29 | 566 | JPL/GEODSS NEAT      | (18745) | 1999 BJ <sub>14</sub> | 1999 01 23 | 910 | ODAS                                 |
| (18694) | 1998 HQ <sub>24</sub>  | 1998 04 23 | 120 | Višnjan              | (18746) | 1999 FT <sub>20</sub> | 1999 03 19 | 691 | Spacewatch                           |
| (18695) | 1998 HH <sub>27</sub>  | 1998 04 21 | 691 | Spacewatch           | (18747) | 1999 FN <sub>21</sub> | 1999 03 26 | 428 | Broughton, J.                        |
| (18696) | 1998 HB <sub>34</sub>  | 1998 04 20 | 704 | LINEAR               | (18748) | 1999 GV               | 1999 04 05 | 120 | Korlević, K.                         |
| (18697) | 1998 HB <sub>39</sub>  | 1998 04 20 | 704 | LINEAR               | (18749) | 1999 GA <sub>8</sub>  | 1999 04 09 | 699 | LONEOS                               |
| (18698) | 1998 HX <sub>39</sub>  | 1998 04 20 | 704 | LINEAR               | (18750) | 1999 GA <sub>9</sub>  | 1999 04 10 | 699 | LONEOS                               |
| (18699) | 1998 HL <sub>45</sub>  | 1998 04 20 | 704 | LINEAR               | (18751) | 1999 GO <sub>9</sub>  | 1999 04 15 | 699 | LONEOS                               |
| (18700) | 1998 HK <sub>54</sub>  | 1998 04 21 | 704 | LINEAR               | (18752) | 1999 GZ <sub>16</sub> | 1999 04 15 | 704 | LINEAR                               |
| (18701) | 1998 HB <sub>57</sub>  | 1998 04 21 | 704 | LINEAR               | (18753) | 1999 GE <sub>17</sub> | 1999 04 15 | 704 | LINEAR                               |
| (18702) | 1998 HG <sub>68</sub>  | 1998 04 21 | 704 | LINEAR               | (18754) | 1999 GL <sub>21</sub> | 1999 04 15 | 704 | LINEAR                               |
| (18703) | 1998 HN <sub>68</sub>  | 1998 04 21 | 704 | LINEAR               | (18755) | 1999 GS <sub>21</sub> | 1999 04 15 | 704 | LINEAR                               |
| (18704) | 1998 HF <sub>87</sub>  | 1998 04 21 | 704 | LINEAR               | (18756) | 1999 GY <sub>34</sub> | 1999 04 06 | 704 | LINEAR                               |
| (18705) | 1998 HX <sub>88</sub>  | 1998 04 21 | 704 | LINEAR               | (18757) | 1999 HT               | 1999 04 18 | 426 | Zoltowski, F. B.                     |
| (18706) | 1998 HV <sub>93</sub>  | 1998 04 21 | 704 | LINEAR               | (18758) | 1999 HD <sub>2</sub>  | 1999 04 19 | 120 | Korlević, K., Jurić, M.              |
| (18707) | 1998 HO <sub>96</sub>  | 1998 04 21 | 704 | LINEAR               | (18759) | 1999 HO <sub>2</sub>  | 1999 04 20 | 860 | Holvorcem, P. R.                     |
| (18708) | 1998 HT <sub>97</sub>  | 1998 04 21 | 704 | LINEAR               | (18760) | 1999 HY <sub>7</sub>  | 1999 04 19 | 691 | Spacewatch                           |
| (18709) | 1998 HE <sub>99</sub>  | 1998 04 21 | 704 | LINEAR               | (18761) | 1999 HA <sub>8</sub>  | 1999 04 20 | 691 | Spacewatch                           |
| (18710) | 1998 HF <sub>100</sub> | 1998 04 21 | 704 | LINEAR               | (18762) | 1999 HC <sub>9</sub>  | 1999 04 17 | 704 | LINEAR                               |
| (18711) | 1998 HL <sub>100</sub> | 1998 04 21 | 704 | LINEAR               | (18763) | 1999 JV <sub>2</sub>  | 1999 05 08 | 327 | Beijing Schmidt CCD Asteroid Program |
| (18712) | 1998 HN <sub>108</sub> | 1998 04 23 | 704 | LINEAR               | (18764) | 1999 JA <sub>12</sub> | 1999 05 13 | 704 | LINEAR                               |
| (18713) | 1998 HM <sub>114</sub> | 1998 04 23 | 704 | LINEAR               | (18765) | 1999 JN <sub>17</sub> | 1999 05 14 | 704 | LINEAR                               |
| (18714) | 1998 HQ <sub>114</sub> | 1998 04 23 | 704 | LINEAR               | (18766) | 1999 JA <sub>22</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18715) | 1998 HE <sub>121</sub> | 1998 04 23 | 704 | LINEAR               | (18767) | 1999 JD <sub>22</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18716) | 1998 HV <sub>121</sub> | 1998 04 23 | 704 | LINEAR               | (18768) | 1999 JE <sub>22</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18717) | 1998 HZ <sub>127</sub> | 1998 04 18 | 704 | LINEAR               | (18769) | 1999 JS <sub>24</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18718) | 1998 HJ <sub>128</sub> | 1998 04 19 | 704 | LINEAR               | (18770) | 1999 JN <sub>25</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18719) | 1998 HH <sub>138</sub> | 1998 04 21 | 704 | LINEAR               | (18771) | 1999 JA <sub>26</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18720) | 1998 HP <sub>145</sub> | 1998 04 21 | 704 | LINEAR               | (18772) | 1999 JR <sub>34</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18721) | 1998 HC <sub>146</sub> | 1998 04 21 | 704 | LINEAR               | (18773) | 1999 JY <sub>36</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18722) | 1998 HF <sub>148</sub> | 1998 04 25 | 809 | Elst, E. W.          | (18774) | 1999 JT <sub>38</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18723) | 1998 JO <sub>1</sub>   | 1998 05 01 | 566 | JPL/GEODSS NEAT      | (18775) | 1999 JD <sub>39</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18724) | 1998 JV <sub>1</sub>   | 1998 05 01 | 566 | JPL/GEODSS NEAT      | (18776) | 1999 JP <sub>39</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18725) | 1998 JL <sub>3</sub>   | 1998 05 02 | 910 | ODAS                 | (18777) | 1999 JA <sub>41</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18726) | 1998 KC <sub>2</sub>   | 1998 05 22 | 704 | LINEAR               | (18778) | 1999 JW <sub>43</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18727) | 1998 KW <sub>3</sub>   | 1998 05 22 | 699 | LONEOS               | (18779) | 1999 JN <sub>44</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18728) | 1998 KZ <sub>3</sub>   | 1998 05 22 | 699 | LONEOS               | (18780) | 1999 JY <sub>44</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18729) | 1998 KJ <sub>4</sub>   | 1998 05 22 | 699 | LONEOS               | (18781) | 1999 JH <sub>45</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18730) | 1998 KV <sub>7</sub>   | 1998 05 23 | 699 | LONEOS               | (18782) | 1999 JJ <sub>46</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18731) | 1998 KW <sub>7</sub>   | 1998 05 23 | 699 | LONEOS               | (18783) | 1999 JL <sub>47</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18732) | 1998 KP <sub>19</sub>  | 1998 05 22 | 704 | LINEAR               | (18784) | 1999 JS <sub>47</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18733) | 1998 KV <sub>31</sub>  | 1998 05 22 | 704 | LINEAR               | (18785) | 1999 JV <sub>48</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18734) | 1998 MY <sub>1</sub>   | 1998 06 20 | 684 | Comba, P. G.         | (18786) | 1999 JS <sub>53</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18735) | 1998 MH <sub>46</sub>  | 1998 06 23 | 699 | LONEOS               | (18787) | 1999 JV <sub>53</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18736) | 1998 NU                | 1998 07 02 | 691 | Spacewatch           | (18788) | 1999 JX <sub>53</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18737) | 1998 QP <sub>79</sub>  | 1998 08 24 | 704 | LINEAR               | (18789) | 1999 JV <sub>56</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18738) | 1998 SN <sub>22</sub>  | 1998 09 23 | 120 | Višnjan              | (18790) | 1999 JG <sub>57</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18739) | 1998 SH <sub>79</sub>  | 1998 09 26 | 704 | LINEAR               | (18791) | 1999 JF <sub>58</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18740) | 1998 VH <sub>31</sub>  | 1998 11 14 | 411 | Kobayashi, T.        | (18792) | 1999 JL <sub>60</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18741) | 1998 WB <sub>6</sub>   | 1998 11 18 | 399 | Ueda, S., Kaneda, H. | (18793) | 1999 JW <sub>60</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18742) | 1998 XX <sub>30</sub>  | 1998 12 14 | 704 | LINEAR               | (18794) | 1999 JG <sub>62</sub> | 1999 05 10 | 704 | LINEAR                               |
| (18743) | 1998 YD <sub>5</sub>   | 1998 12 18 | 910 | ODAS                 | (18795) | 1999 JT <sub>63</sub> | 1999 05 10 | 704 | LINEAR                               |

|         |                       |            |     |                             |
|---------|-----------------------|------------|-----|-----------------------------|
| (18796) | 1999 JH <sub>64</sub> | 1999 05 10 | 704 | LINEAR                      |
| (18797) | 1999 JT <sub>64</sub> | 1999 05 10 | 704 | LINEAR                      |
| (18798) | 1999 JG <sub>65</sub> | 1999 05 12 | 704 | LINEAR                      |
| (18799) | 1999 JZ <sub>73</sub> | 1999 05 12 | 704 | LINEAR                      |
| (18800) | 1999 JL <sub>76</sub> | 1999 05 10 | 704 | LINEAR                      |
| (18801) | 1999 JO <sub>76</sub> | 1999 05 10 | 704 | LINEAR                      |
| (18802) | 1999 JR <sub>76</sub> | 1999 05 10 | 704 | LINEAR                      |
| (18803) | 1999 JH <sub>77</sub> | 1999 05 12 | 704 | LINEAR                      |
| (18804) | 1999 JS <sub>77</sub> | 1999 05 12 | 704 | LINEAR                      |
| (18805) | 1999 JX <sub>77</sub> | 1999 05 12 | 704 | LINEAR                      |
| (18806) | 1999 JX <sub>79</sub> | 1999 05 13 | 704 | LINEAR                      |
| (18807) | 1999 JL <sub>85</sub> | 1999 05 14 | 704 | LINEAR                      |
| (18808) | 1999 JP <sub>85</sub> | 1999 05 15 | 704 | LINEAR                      |
| (18809) | 1999 JP <sub>86</sub> | 1999 05 12 | 704 | LINEAR                      |
| (18810) | 1999 JF <sub>96</sub> | 1999 05 12 | 704 | LINEAR                      |
| (18811) | 1999 KJ <sub>1</sub>  | 1999 05 18 | 120 | Korlević, K.                |
| (18812) | 1999 KT <sub>13</sub> | 1999 05 18 | 704 | LINEAR                      |
| (18813) | 1999 KH <sub>15</sub> | 1999 05 20 | 704 | LINEAR                      |
| (18814) | 1999 KJ <sub>17</sub> | 1999 05 20 | 699 | LONEOS                      |
| (18815) | 1999 LT <sub>8</sub>  | 1999 06 08 | 704 | LINEAR                      |
| (18816) | 1999 LW <sub>25</sub> | 1999 06 09 | 704 | LINEAR                      |
| (18817) | 1999 LF <sub>32</sub> | 1999 06 15 | 691 | Spacewatch                  |
| (18818) | 1999 MB <sub>2</sub>  | 1999 06 21 | 358 | Okuni, T.                   |
| (18819) | 1999 NK <sub>8</sub>  | 1999 07 13 | 704 | LINEAR                      |
| (18820) | 1999 NS <sub>9</sub>  | 1999 07 13 | 704 | LINEAR                      |
| (18821) | 1999 NW <sub>9</sub>  | 1999 07 13 | 704 | LINEAR                      |
| (18822) | 1999 NL <sub>19</sub> | 1999 07 14 | 704 | LINEAR                      |
| (18823) | 1999 NS <sub>20</sub> | 1999 07 14 | 704 | LINEAR                      |
| (18824) | 1999 NF <sub>23</sub> | 1999 07 14 | 704 | LINEAR                      |
| (18825) | 1999 NO <sub>23</sub> | 1999 07 14 | 704 | LINEAR                      |
| (18826) | 1999 NG <sub>24</sub> | 1999 07 14 | 704 | LINEAR                      |
| (18827) | 1999 NA <sub>26</sub> | 1999 07 14 | 704 | LINEAR                      |
| (18828) | 1999 NT <sub>27</sub> | 1999 07 14 | 704 | LINEAR                      |
| (18829) | 1999 NE <sub>30</sub> | 1999 07 14 | 704 | LINEAR                      |
| (18830) | 1999 NZ <sub>35</sub> | 1999 07 14 | 704 | LINEAR                      |
| (18831) | 1999 NP <sub>37</sub> | 1999 07 14 | 704 | LINEAR                      |
| (18832) | 1999 NV <sub>42</sub> | 1999 07 14 | 704 | LINEAR                      |
| (18833) | 1999 NT <sub>53</sub> | 1999 07 12 | 704 | LINEAR                      |
| (18834) | 1999 NN <sub>55</sub> | 1999 07 12 | 704 | LINEAR                      |
| (18835) | 1999 NK <sub>56</sub> | 1999 07 12 | 704 | LINEAR                      |
| (18836) | 1999 NM <sub>62</sub> | 1999 07 13 | 704 | LINEAR                      |
| (18837) | 1999 NY <sub>62</sub> | 1999 07 13 | 704 | LINEAR                      |
| (18838) | 1999 OQ               | 1999 07 18 | 557 | Šarounová, L., Kušnirák, P. |
| (18839) | 1999 PG               | 1999 08 05 | 428 | Broughton, J.               |
| (18840) | 1999 PT <sub>4</sub>  | 1999 08 08 | 358 | Okuni, T.                   |
| (18841) | 1999 RL <sub>3</sub>  | 1999 09 06 | 046 | Kleť                        |
| (18842) | 1999 RB <sub>22</sub> | 1999 09 07 | 704 | LINEAR                      |
| (18843) | 1999 RK <sub>22</sub> | 1999 09 07 | 704 | LINEAR                      |
| (18844) | 1999 RU <sub>27</sub> | 1999 09 08 | 120 | Korlević, K.                |
| (18845) | 1999 RY <sub>27</sub> | 1999 09 07 | 106 | Mikuž, H.                   |
| (18846) | 1999 RB <sub>28</sub> | 1999 09 08 | 046 | Kleť                        |
| (18847) | 1999 RJ <sub>32</sub> | 1999 09 09 | 120 | Korlević, K.                |

|         |                        |            |     |              |
|---------|------------------------|------------|-----|--------------|
| (18848) | 1999 RH <sub>41</sub>  | 1999 09 13 | 704 | LINEAR       |
| (18849) | 1999 RK <sub>55</sub>  | 1999 09 07 | 704 | LINEAR       |
| (18850) | 1999 RO <sub>81</sub>  | 1999 09 07 | 704 | LINEAR       |
| (18851) | 1999 RP <sub>84</sub>  | 1999 09 07 | 704 | LINEAR       |
| (18852) | 1999 RP <sub>91</sub>  | 1999 09 07 | 704 | LINEAR       |
| (18853) | 1999 RO <sub>92</sub>  | 1999 09 07 | 704 | LINEAR       |
| (18854) | 1999 RJ <sub>102</sub> | 1999 09 08 | 704 | LINEAR       |
| (18855) | 1999 RQ <sub>112</sub> | 1999 09 09 | 704 | LINEAR       |
| (18856) | 1999 RT <sub>116</sub> | 1999 09 09 | 704 | LINEAR       |
| (18857) | 1999 RE <sub>117</sub> | 1999 09 09 | 704 | LINEAR       |
| (18858) | 1999 RO <sub>117</sub> | 1999 09 09 | 704 | LINEAR       |
| (18859) | 1999 RM <sub>130</sub> | 1999 09 09 | 704 | LINEAR       |
| (18860) | 1999 RL <sub>133</sub> | 1999 09 09 | 704 | LINEAR       |
| (18861) | 1999 RW <sub>166</sub> | 1999 09 09 | 704 | LINEAR       |
| (18862) | 1999 RE <sub>183</sub> | 1999 09 09 | 704 | LINEAR       |
| (18863) | 1999 RC <sub>191</sub> | 1999 09 11 | 704 | LINEAR       |
| (18864) | 1999 RQ <sub>195</sub> | 1999 09 08 | 704 | LINEAR       |
| (18865) | 1999 RQ <sub>204</sub> | 1999 09 08 | 704 | LINEAR       |
| (18866) | 1999 RA <sub>208</sub> | 1999 09 08 | 704 | LINEAR       |
| (18867) | 1999 RX <sub>223</sub> | 1999 09 07 | 703 | CSS          |
| (18868) | 1999 TD <sub>101</sub> | 1999 10 02 | 704 | LINEAR       |
| (18869) | 1999 TU <sub>222</sub> | 1999 10 02 | 704 | LINEAR       |
| (18870) | 1999 US <sub>13</sub>  | 1999 10 29 | 703 | CSS          |
| (18871) | 1999 VQ <sub>12</sub>  | 1999 11 11 | 678 | Juels, C. W. |
| (18872) | 1999 VR <sub>20</sub>  | 1999 11 08 | 143 | Sposetti, S. |
| (18873) | 1999 VJ <sub>22</sub>  | 1999 11 13 | 849 | Everstar     |
| (18874) | 1999 VZ <sub>22</sub>  | 1999 11 08 | 143 | Sposetti, S. |
| (18875) | 1999 VT <sub>39</sub>  | 1999 11 11 | 691 | Spacewatch   |
| (18876) | 1999 XM                | 1999 12 02 | 732 | Roe, J.      |
| (18877) | 1999 XP <sub>7</sub>   | 1999 12 04 | 678 | Juels, C. W. |
| (18878) | 1999 XD <sub>118</sub> | 1999 12 05 | 703 | CSS          |
| (18879) | 1999 XJ <sub>143</sub> | 1999 12 15 | 678 | Juels, C. W. |
| (18880) | 1999 XM <sub>166</sub> | 1999 12 10 | 704 | LINEAR       |
| (18881) | 1999 XL <sub>195</sub> | 1999 12 12 | 704 | LINEAR       |
| (18882) | 1999 YN <sub>4</sub>   | 1999 12 28 | 704 | LINEAR       |
| (18883) | 1999 YT <sub>8</sub>   | 1999 12 31 | 849 | Everstar     |
| (18884) | 1999 YE <sub>9</sub>   | 1999 12 30 | 120 | Korlević, K. |
| (18885) | 2000 AH <sub>80</sub>  | 2000 01 05 | 704 | LINEAR       |
| (18886) | 2000 AN <sub>164</sub> | 2000 01 05 | 704 | LINEAR       |
| (18887) | 2000 AP <sub>181</sub> | 2000 01 07 | 704 | LINEAR       |
| (18888) | 2000 AV <sub>246</sub> | 2000 01 07 | 691 | Spacewatch   |
| (18889) | 2000 CC <sub>28</sub>  | 2000 02 08 | 704 | LINEAR       |
| (18890) | 2000 EV <sub>26</sub>  | 2000 03 09 | 704 | LINEAR       |
| (18891) | 2000 EF <sub>40</sub>  | 2000 03 08 | 704 | LINEAR       |
| (18892) | 2000 ET <sub>137</sub> | 2000 03 09 | 704 | LINEAR       |
| (18893) | 2000 GH <sub>1</sub>   | 2000 04 02 | 611 | Starkenbourg |
| (18894) | 2000 GF <sub>42</sub>  | 2000 04 05 | 704 | LINEAR       |
| (18895) | 2000 GJ <sub>108</sub> | 2000 04 07 | 704 | LINEAR       |
| (18896) | 2000 GN <sub>113</sub> | 2000 04 06 | 704 | LINEAR       |
| (18897) | 2000 HG <sub>30</sub>  | 2000 04 28 | 704 | LINEAR       |
| (18898) | 2000 JX                | 2000 05 01 | 704 | LINEAR       |
| (18899) | 2000 JQ <sub>2</sub>   | 2000 05 03 | 120 | Korlević, K. |

|         |                       |            |     |               |         |                        |            |     |              |
|---------|-----------------------|------------|-----|---------------|---------|------------------------|------------|-----|--------------|
| (18900) | 2000 LD <sub>12</sub> | 2000 06 04 | 704 | LINEAR        | (18952) | 2000 QF <sub>105</sub> | 2000 08 28 | 704 | LINEAR       |
| (18901) | 2000 MR <sub>5</sub>  | 2000 06 24 | 704 | LINEAR        | (18953) | 2000 QR <sub>114</sub> | 2000 08 24 | 704 | LINEAR       |
| (18902) | 2000 NN <sub>5</sub>  | 2000 07 07 | 704 | LINEAR        | (18954) | 2000 QT <sub>119</sub> | 2000 08 25 | 704 | LINEAR       |
| (18903) | 2000 ND <sub>29</sub> | 2000 07 10 | 392 | Watanabe, K.  | (18955) | 2000 QY <sub>122</sub> | 2000 08 25 | 704 | LINEAR       |
| (18904) | 2000 OY <sub>8</sub>  | 2000 07 31 | 704 | LINEAR        | (18956) | 2000 QK <sub>126</sub> | 2000 08 31 | 704 | LINEAR       |
| (18905) | 2000 OF <sub>10</sub> | 2000 07 23 | 704 | LINEAR        | (18957) | 2000 QE <sub>128</sub> | 2000 08 24 | 704 | LINEAR       |
| (18906) | 2000 OJ <sub>19</sub> | 2000 07 29 | 704 | LINEAR        | (18958) | 2000 QL <sub>128</sub> | 2000 08 24 | 704 | LINEAR       |
| (18907) | 2000 OW <sub>20</sub> | 2000 07 31 | 704 | LINEAR        | (18959) | 2000 QG <sub>129</sub> | 2000 08 31 | 704 | LINEAR       |
| (18908) | 2000 OC <sub>21</sub> | 2000 07 31 | 704 | LINEAR        | (18960) | 2000 QE <sub>130</sub> | 2000 08 31 | 704 | LINEAR       |
| (18909) | 2000 OE <sub>21</sub> | 2000 07 31 | 704 | LINEAR        | (18961) | 2000 QR <sub>140</sub> | 2000 08 31 | 704 | LINEAR       |
| (18910) | 2000 OR <sub>22</sub> | 2000 07 31 | 704 | LINEAR        | (18962) | 2000 QV <sub>140</sub> | 2000 08 31 | 704 | LINEAR       |
| (18911) | 2000 OY <sub>31</sub> | 2000 07 30 | 704 | LINEAR        | (18963) | 2000 QB <sub>141</sub> | 2000 08 31 | 704 | LINEAR       |
| (18912) | 2000 OM <sub>32</sub> | 2000 07 30 | 704 | LINEAR        | (18964) | 2000 QJ <sub>142</sub> | 2000 08 31 | 704 | LINEAR       |
| (18913) | 2000 OU <sub>32</sub> | 2000 07 30 | 704 | LINEAR        | (18965) | 2000 QR <sub>142</sub> | 2000 08 31 | 704 | LINEAR       |
| (18914) | 2000 OT <sub>35</sub> | 2000 07 31 | 704 | LINEAR        | (18966) | 2000 QO <sub>145</sub> | 2000 08 31 | 704 | LINEAR       |
| (18915) | 2000 OR <sub>38</sub> | 2000 07 30 | 704 | LINEAR        | (18967) | 2000 QP <sub>151</sub> | 2000 08 25 | 704 | LINEAR       |
| (18916) | 2000 OG <sub>44</sub> | 2000 07 30 | 704 | LINEAR        | (18968) | 2000 QX <sub>152</sub> | 2000 08 29 | 704 | LINEAR       |
| (18917) | 2000 OG <sub>48</sub> | 2000 07 31 | 704 | LINEAR        | (18969) | 2000 QY <sub>152</sub> | 2000 08 29 | 704 | LINEAR       |
| (18918) | 2000 OB <sub>50</sub> | 2000 07 31 | 704 | LINEAR        | (18970) | 2000 QU <sub>168</sub> | 2000 08 31 | 704 | LINEAR       |
| (18919) | 2000 OJ <sub>52</sub> | 2000 07 31 | 704 | LINEAR        | (18971) | 2000 QY <sub>177</sub> | 2000 08 31 | 704 | LINEAR       |
| (18920) | 2000 OU <sub>52</sub> | 2000 07 31 | 704 | LINEAR        | (18972) | 2000 QD <sub>190</sub> | 2000 08 26 | 704 | LINEAR       |
| (18921) | 2000 PT <sub>7</sub>  | 2000 08 02 | 704 | LINEAR        | (18973) | 2000 QJ <sub>193</sub> | 2000 08 29 | 704 | LINEAR       |
| (18922) | 2000 PU <sub>12</sub> | 2000 08 08 | 704 | LINEAR        | (18974) | 2000 QX <sub>195</sub> | 2000 08 28 | 704 | LINEAR       |
| (18923) | 2000 PC <sub>23</sub> | 2000 08 02 | 704 | LINEAR        | (18975) | 2000 QZ <sub>200</sub> | 2000 08 29 | 704 | LINEAR       |
| (18924) | 2000 PV <sub>24</sub> | 2000 08 03 | 704 | LINEAR        | (18976) | 2000 QH <sub>206</sub> | 2000 08 31 | 704 | LINEAR       |
| (18925) | 2000 PY <sub>25</sub> | 2000 08 04 | 608 | JPL/NEAT      | (18977) | 2000 QK <sub>217</sub> | 2000 08 31 | 704 | LINEAR       |
| (18926) | 2000 PO <sub>26</sub> | 2000 08 05 | 608 | JPL/NEAT      | (18978) | 2000 QH <sub>232</sub> | 2000 08 31 | 704 | LINEAR       |
| (18927) | 2000 PQ <sub>26</sub> | 2000 08 05 | 608 | JPL/NEAT      | (18979) | 2000 RC <sub>2</sub>   | 2000 09 01 | 704 | LINEAR       |
| (18928) | 2000 QH <sub>9</sub>  | 2000 08 25 | 126 | Monte Viseggi | (18980) | 2000 RY <sub>2</sub>   | 2000 09 01 | 704 | LINEAR       |
| (18929) | 2000 QU <sub>25</sub> | 2000 08 26 | 704 | LINEAR        | (18981) | 2000 RT <sub>3</sub>   | 2000 09 01 | 704 | LINEAR       |
| (18930) | 2000 QW <sub>27</sub> | 2000 08 24 | 704 | LINEAR        | (18982) | 2000 RH <sub>5</sub>   | 2000 09 01 | 704 | LINEAR       |
| (18931) | 2000 QX <sub>31</sub> | 2000 08 26 | 704 | LINEAR        | (18983) | 2000 RG <sub>6</sub>   | 2000 09 01 | 704 | LINEAR       |
| (18932) | 2000 QH <sub>35</sub> | 2000 08 28 | 428 | Broughton, J. | (18984) | 2000 RA <sub>8</sub>   | 2000 09 02 | 739 | Robinson, L. |
| (18933) | 2000 QW <sub>36</sub> | 2000 08 24 | 704 | LINEAR        | (18985) | 2000 RR <sub>21</sub>  | 2000 09 01 | 704 | LINEAR       |
| (18934) | 2000 QY <sub>36</sub> | 2000 08 24 | 704 | LINEAR        | (18986) | 2000 RF <sub>22</sub>  | 2000 09 01 | 704 | LINEAR       |
| (18935) | 2000 QE <sub>37</sub> | 2000 08 24 | 704 | LINEAR        | (18987) | 2000 RU <sub>23</sub>  | 2000 09 01 | 704 | LINEAR       |
| (18936) | 2000 QA <sub>42</sub> | 2000 08 24 | 704 | LINEAR        | (18988) | 2000 RB <sub>24</sub>  | 2000 09 01 | 704 | LINEAR       |
| (18937) | 2000 QF <sub>42</sub> | 2000 08 24 | 704 | LINEAR        | (18989) | 2000 RV <sub>26</sub>  | 2000 09 01 | 704 | LINEAR       |
| (18938) | 2000 QU <sub>44</sub> | 2000 08 24 | 704 | LINEAR        | (18990) | 2000 RW <sub>31</sub>  | 2000 09 01 | 704 | LINEAR       |
| (18939) | 2000 QZ <sub>48</sub> | 2000 08 24 | 704 | LINEAR        | (18991) | 2000 RD <sub>35</sub>  | 2000 09 01 | 704 | LINEAR       |
| (18940) | 2000 QV <sub>49</sub> | 2000 08 24 | 704 | LINEAR        | (18992) | 2000 RK <sub>40</sub>  | 2000 09 03 | 704 | LINEAR       |
| (18941) | 2000 QX <sub>50</sub> | 2000 08 24 | 704 | LINEAR        | (18993) | 2000 RB <sub>43</sub>  | 2000 09 03 | 704 | LINEAR       |
| (18942) | 2000 QE <sub>54</sub> | 2000 08 25 | 704 | LINEAR        | (18994) | 2000 RO <sub>50</sub>  | 2000 09 05 | 704 | LINEAR       |
| (18943) | 2000 QA <sub>55</sub> | 2000 08 25 | 704 | LINEAR        | (18995) | 2000 RF <sub>53</sub>  | 2000 09 05 | 120 | Korlević, K. |
| (18944) | 2000 QG <sub>61</sub> | 2000 08 28 | 704 | LINEAR        | (18996) | 2000 RR <sub>53</sub>  | 2000 09 04 | 392 | Watanabe, K. |
| (18945) | 2000 QH <sub>71</sub> | 2000 08 24 | 704 | LINEAR        | (18997) | 2000 RG <sub>54</sub>  | 2000 09 01 | 704 | LINEAR       |
| (18946) | 2000 QM <sub>75</sub> | 2000 08 24 | 704 | LINEAR        | (18998) | 2000 RH <sub>55</sub>  | 2000 09 03 | 704 | LINEAR       |
| (18947) | 2000 QV <sub>76</sub> | 2000 08 24 | 704 | LINEAR        | (18999) | 2000 RC <sub>60</sub>  | 2000 09 08 | 120 | Korlević, K. |
| (18948) | 2000 QT <sub>79</sub> | 2000 08 24 | 704 | LINEAR        | (19000) | 2000 RM <sub>60</sub>  | 2000 09 03 | 704 | LINEAR       |
| (18949) | 2000 QX <sub>85</sub> | 2000 08 25 | 704 | LINEAR        | (19001) | 2000 RV <sub>60</sub>  | 2000 09 06 | 704 | LINEAR       |
| (18950) | 2000 QX <sub>95</sub> | 2000 08 26 | 704 | LINEAR        | (19002) | 2000 RD <sub>61</sub>  | 2000 09 01 | 704 | LINEAR       |
| (18951) | 2000 QQ <sub>98</sub> | 2000 08 28 | 704 | LINEAR        | (19003) | 2000 RL <sub>61</sub>  | 2000 09 01 | 704 | LINEAR       |

|         |                        |            |     |                      |
|---------|------------------------|------------|-----|----------------------|
| (19004) | 2000 RU <sub>62</sub>  | 2000 09 02 | 704 | LINEAR               |
| (19005) | 2000 RY <sub>64</sub>  | 2000 09 01 | 704 | LINEAR               |
| (19006) | 2000 RY <sub>65</sub>  | 2000 09 01 | 704 | LINEAR               |
| (19007) | 2000 RD <sub>68</sub>  | 2000 09 02 | 704 | LINEAR               |
| (19008) | 2000 RV <sub>70</sub>  | 2000 09 02 | 704 | LINEAR               |
| (19009) | 2000 RF <sub>72</sub>  | 2000 09 02 | 704 | LINEAR               |
| (19010) | 2000 RT <sub>72</sub>  | 2000 09 02 | 704 | LINEAR               |
| (19011) | 2000 RU <sub>75</sub>  | 2000 09 03 | 704 | LINEAR               |
| (19012) | 2000 RZ <sub>75</sub>  | 2000 09 03 | 704 | LINEAR               |
| (19013) | 2000 RN <sub>76</sub>  | 2000 09 04 | 704 | LINEAR               |
| (19014) | 2000 RW <sub>77</sub>  | 2000 09 09 | 120 | Korlević, K.         |
| (19015) | 2000 RX <sub>77</sub>  | 2000 09 09 | 120 | Korlević, K.         |
| (19016) | 2000 RY <sub>78</sub>  | 2000 09 11 | 106 | Crni Vrh             |
| (19017) | 2000 RH <sub>93</sub>  | 2000 09 04 | 699 | LONEOS               |
| (19018) | 2000 RL <sub>100</sub> | 2000 09 05 | 699 | LONEOS               |
| (19019) | 2000 SB                | 2000 09 17 | 739 | Robinson, L.         |
| (19020) | 2000 SC <sub>6</sub>   | 2000 09 20 | 704 | LINEAR               |
| (19021) | 2000 SC <sub>8</sub>   | 2000 09 20 | 704 | LINEAR               |
| (19022) | 2000 SR <sub>44</sub>  | 2000 09 26 | 113 | Kandler, J.          |
| (19023) | 2000 SH <sub>111</sub> | 2000 09 24 | 704 | LINEAR               |
| (19024) | 2000 SS <sub>112</sub> | 2000 09 24 | 704 | LINEAR               |
| (19025) | 2000 SC <sub>117</sub> | 2000 09 24 | 704 | LINEAR               |
| (19026) | 2000 SR <sub>145</sub> | 2000 09 24 | 704 | LINEAR               |
| (19027) | 2000 SZ <sub>149</sub> | 2000 09 24 | 704 | LINEAR               |
| (19028) | 2000 SC <sub>165</sub> | 2000 09 23 | 704 | LINEAR               |
| (19029) | 2000 SR <sub>205</sub> | 2000 09 24 | 704 | LINEAR               |
| (19030) | 2000 SJ <sub>276</sub> | 2000 09 30 | 704 | LINEAR               |
| (19031) | 2000 SU <sub>295</sub> | 2000 09 27 | 704 | LINEAR               |
| (19032) | 2053 P-L               | 1960 09 24 | 675 | van Houten & Gehrels |
| (19033) | 2157 P-L               | 1960 09 24 | 675 | van Houten & Gehrels |
| (19034) | 2554 P-L               | 1960 09 24 | 675 | van Houten & Gehrels |
| (19035) | 4634 P-L               | 1960 09 24 | 675 | van Houten & Gehrels |
| (19036) | 4642 P-L               | 1960 09 24 | 675 | van Houten & Gehrels |
| (19037) | 4663 P-L               | 1960 09 24 | 675 | van Houten & Gehrels |
| (19038) | 4764 P-L               | 1960 09 24 | 675 | van Houten & Gehrels |
| (19039) | 4844 P-L               | 1960 09 24 | 675 | van Houten & Gehrels |
| (19040) | 4875 P-L               | 1960 09 26 | 675 | van Houten & Gehrels |
| (19041) | 6055 P-L               | 1960 09 24 | 675 | van Houten & Gehrels |
| (19042) | 6104 P-L               | 1960 09 24 | 675 | van Houten & Gehrels |
| (19043) | 6214 P-L               | 1960 09 24 | 675 | van Houten & Gehrels |
| (19044) | 6516 P-L               | 1960 09 24 | 675 | van Houten & Gehrels |
| (19045) | 6593 P-L               | 1960 09 24 | 675 | van Houten & Gehrels |
| (19046) | 7607 P-L               | 1960 10 17 | 675 | van Houten & Gehrels |
| (19047) | 9516 P-L               | 1960 10 22 | 675 | van Houten & Gehrels |
| (19048) | 9567 P-L               | 1960 10 17 | 675 | van Houten & Gehrels |
| (19049) | 1105 T-1               | 1971 03 25 | 675 | van Houten & Gehrels |
| (19050) | 1162 T-1               | 1971 03 25 | 675 | van Houten & Gehrels |
| (19051) | 3210 T-1               | 1971 03 26 | 675 | van Houten & Gehrels |
| (19052) | 1017 T-2               | 1973 09 29 | 675 | van Houten & Gehrels |
| (19053) | 1054 T-2               | 1973 09 29 | 675 | van Houten & Gehrels |
| (19054) | 1058 T-2               | 1973 09 29 | 675 | van Houten & Gehrels |
| (19055) | 1066 T-2               | 1973 09 29 | 675 | van Houten & Gehrels |

|         |          |            |     |                      |
|---------|----------|------------|-----|----------------------|
| (19056) | 1162 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (19057) | 1166 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (19058) | 1331 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (19059) | 1352 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (19060) | 2176 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (19061) | 2261 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (19062) | 2289 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (19063) | 3147 T-2 | 1973 09 30 | 675 | van Houten & Gehrels |
| (19064) | 3176 T-2 | 1973 09 30 | 675 | van Houten & Gehrels |
| (19065) | 3351 T-2 | 1973 09 25 | 675 | van Houten & Gehrels |
| (19066) | 4068 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (19067) | 4087 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (19068) | 4232 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (19069) | 5149 T-2 | 1973 09 25 | 675 | van Houten & Gehrels |
| (19070) | 5491 T-2 | 1973 09 30 | 675 | van Houten & Gehrels |
| (19071) | 1047 T-3 | 1977 10 17 | 675 | van Houten & Gehrels |
| (19072) | 1222 T-3 | 1977 10 17 | 675 | van Houten & Gehrels |
| (19073) | 3157 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (19074) | 4236 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (19075) | 4288 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (19076) | 5002 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (19077) | 5123 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (19078) | 5187 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |

Orbital elements for the newly-numbered objects listed above at the current 200-day standard epoch (2000 Sept. 13.0 TT):

| Object  | <i>H</i> | <i>M</i>  | $\omega$  | $\Omega$  | <i>i</i> | <i>e</i>  | <i>a</i>  | <i>MPO</i> |
|---------|----------|-----------|-----------|-----------|----------|-----------|-----------|------------|
| (18284) | 15.0     | 64.92601  | 344.27018 | 331.14650 | 4.28144  | 0.2510498 | 2.2100871 | 5149       |
| (18285) | 12.3     | 204.82499 | 142.17599 | 36.16988  | 12.38770 | 0.1246753 | 2.6711464 | 5149       |
| (18286) | 15.1     | 333.95983 | 75.00507  | 48.11177  | 3.27221  | 0.1565664 | 2.4197977 | 5149       |
| (18287) | 13.5     | 74.49044  | 10.06891  | 44.90529  | 8.81351  | 0.0503162 | 2.2695148 | 5150       |
| (18288) | 13.2     | 4.54290   | 349.45525 | 58.95199  | 8.28801  | 0.1705162 | 2.8890333 | 5150       |
| (18289) | 14.0     | 58.96184  | 299.28771 | 37.70788  | 12.19863 | 0.1800580 | 2.8154687 | 5150       |
| (18290) | 14.5     | 159.07210 | 252.12731 | 344.70218 | 6.73101  | 0.0839954 | 2.3238717 | 5151       |
| (18291) | 14.7     | 219.38421 | 214.01537 | 356.20587 | 4.44408  | 0.2331788 | 2.5767969 | 5151       |
| (18292) | 14.9     | 276.58068 | 307.65748 | 150.58970 | 2.68277  | 0.0769754 | 2.9504977 | 5151       |
| (18293) | 14.4     | 23.82652  | 38.04593  | 354.54037 | 4.50024  | 0.2220492 | 2.3497375 | 5151       |
| (18294) | 15.1     | 164.50122 | 307.61416 | 32.34562  | 6.49032  | 0.1985582 | 2.2759025 | 5152       |
| (18295) | 13.6     | 40.99322  | 257.16297 | 85.20425  | 10.42504 | 0.2609437 | 2.6662483 | 5152       |
| (18296) | 14.8     | 265.91761 | 355.57874 | 134.76550 | 1.73533  | 0.1557269 | 3.1679348 | 5152       |
| (18297) | 14.9     | 182.43999 | 137.04392 | 57.93661  | 3.40282  | 0.0098323 | 2.7206305 | 5153       |
| (18298) | 15.2     | 38.52137  | 197.74085 | 123.47095 | 8.61785  | 0.1973051 | 2.5648402 | 5153       |
| (18299) | 13.8     | 310.24090 | 245.41628 | 224.96747 | 4.80984  | 0.1082397 | 2.8831244 | 5153       |
| (18300) | 14.6     | 72.18935  | 65.66420  | 227.96901 | 12.11080 | 0.2621347 | 2.5588696 | 5153       |
| (18301) | 13.7     | 88.42117  | 30.19571  | 310.43379 | 3.24936  | 0.1790121 | 2.2534018 | 5154       |
| (18302) | 13.7     | 164.44085 | 8.17571   | 182.14294 | 9.02215  | 0.1089843 | 2.7501346 | 5154       |
| (18303) | 14.8     | 95.09610  | 56.38393  | 223.07916 | 4.26416  | 0.2051875 | 2.1918589 | 5154       |
| (18304) | 13.0     | 16.33696  | 107.14324 | 280.17860 | 7.22801  | 0.1956080 | 3.0600195 | 5155       |
| (18305) | 14.1     | 9.65027   | 35.65334  | 322.98824 | 13.89583 | 0.1397576 | 3.1380501 | 5155       |
| (18306) | 14.3     | 195.50812 | 260.85356 | 284.10624 | 3.98278  | 0.1058253 | 2.3076006 | 5155       |
| (18307) | 15.6     | 61.89144  | 97.85371  | 255.88734 | 2.23361  | 0.1515837 | 2.2820073 | 5155       |
| (18308) | 15.6     | 187.77064 | 234.21341 | 328.73447 | 3.74799  | 0.0562798 | 2.3020951 | 5156       |

|         |      |           |           |           |          |           |           |      |         |      |           |           |           |          |           |           |      |
|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|
| (18309) | 13.5 | 84.72623  | 70.24347  | 207.36342 | 9.97098  | 0.1673714 | 3.1788855 | 5156 | (18361) | 14.8 | 252.54051 | 348.01112 | 142.54879 | 6.67011  | 0.0448730 | 2.2671907 | 5171 |
| (18310) | 16.2 | 102.01331 | 285.51870 | 343.79259 | 6.50977  | 0.1016677 | 2.3269930 | 5156 | (18362) | 13.9 | 12.26610  | 250.20593 | 101.83284 | 11.23816 | 0.1128760 | 2.9819190 | 5171 |
| (18311) | 15.9 | 53.42291  | 345.51683 | 312.16319 | 5.94140  | 0.1609080 | 2.3470296 | 5156 | (18363) | 13.8 | 88.25762  | 238.72090 | 222.89729 | 12.96045 | 0.1636392 | 2.5892553 | 5171 |
| (18312) | 15.8 | 19.98601  | 32.17888  | 351.11263 | 5.58639  | 0.1184639 | 2.2827418 | 5157 | (18364) | 13.6 | 211.80040 | 48.82815  | 95.59618  | 11.99292 | 0.1502444 | 3.1399946 | 5172 |
| (18313) | 14.2 | 231.52755 | 326.17473 | 24.92665  | 2.70342  | 0.2105576 | 2.4399737 | 5157 | (18365) | 12.0 | 138.57913 | 161.99696 | 57.98729  | 11.17416 | 0.0422971 | 3.0114448 | 5172 |
| (18314) | 15.7 | 104.90260 | 57.65686  | 156.27389 | 0.30030  | 0.1609911 | 2.3643295 | 5157 | (18366) | 12.9 | 326.29146 | 271.59965 | 174.34771 | 4.96038  | 0.1623280 | 3.0949036 | 5172 |
| (18315) | 14.8 | 62.47763  | 291.45842 | 28.95713  | 4.07814  | 0.2154465 | 2.3179655 | 5158 | (18367) | 14.6 | 142.10401 | 178.49092 | 51.59180  | 0.41532  | 0.1515386 | 2.4216459 | 5172 |
| (18316) | 14.0 | 167.35286 | 15.75523  | 195.41541 | 9.02739  | 0.0869471 | 2.6422219 | 5158 | (18368) | 14.6 | 225.86488 | 105.93043 | 48.35157  | 23.79777 | 0.0547546 | 1.9275946 | 5173 |
| (18317) | 14.0 | 22.14837  | 37.65761  | 340.79174 | 5.93984  | 0.1767543 | 3.0663943 | 5158 | (18369) | 13.1 | 60.34613  | 191.29871 | 103.50025 | 16.54794 | 0.0866532 | 2.5684196 | 5173 |
| (18318) | 15.1 | 203.01951 | 340.43770 | 191.01928 | 27.69671 | 0.1082759 | 3.1157202 | 5158 | (18370) | 13.6 | 111.77457 | 97.65644  | 185.57241 | 7.66625  | 0.1708307 | 2.5542159 | 5173 |
| (18319) | 15.0 | 356.59832 | 270.49153 | 130.39351 | 2.80619  | 0.1888567 | 2.3991421 | 5159 | (18371) | 13.7 | 9.85089   | 275.97808 | 116.18435 | 1.67317  | 0.1509210 | 2.6191209 | 5173 |
| (18320) | 14.9 | 310.63549 | 190.95797 | 294.38393 | 1.66846  | 0.1604576 | 2.3998166 | 5159 | (18372) | 14.5 | 39.75138  | 290.93477 | 63.04933  | 4.07648  | 0.1353359 | 2.6335343 | 5174 |
| (18321) | 14.2 | 341.84193 | 59.93088  | 24.98563  | 3.34792  | 0.2790847 | 2.7042017 | 5159 | (18373) | 14.9 | 36.76692  | 259.22796 | 72.21027  | 4.10198  | 0.1536032 | 2.6818971 | 5174 |
| (18322) | 14.0 | 42.53724  | 154.57432 | 206.28909 | 5.33188  | 0.1619696 | 2.7061131 | 5159 | (18374) | 14.6 | 0.50889   | 154.37669 | 215.88062 | 3.04952  | 0.1333164 | 2.6880626 | 5174 |
| (18323) | 14.2 | 46.94998  | 215.32247 | 112.95256 | 8.88861  | 0.1988516 | 2.5738587 | 5160 | (18375) | 13.5 | 34.25131  | 343.80881 | 28.23844  | 13.63353 | 0.1778051 | 2.6372592 | 5174 |
| (18324) | 13.5 | 50.72194  | 332.07719 | 255.48762 | 7.81397  | 0.3092004 | 3.0155250 | 5160 | (18376) | 14.4 | 349.22549 | 323.05392 | 39.06804  | 10.48219 | 0.2314059 | 2.7254960 | 5175 |
| (18325) | 13.6 | 337.41554 | 162.83170 | 206.87680 | 26.37188 | 0.1590856 | 2.5495708 | 5160 | (18377) | 13.5 | 104.10222 | 198.06703 | 74.32986  | 14.06450 | 0.1973042 | 2.5741230 | 5175 |
| (18326) | 13.6 | 252.05795 | 108.72239 | 44.15944  | 1.92809  | 0.1307899 | 3.2156551 | 5161 | (18378) | 13.8 | 180.37599 | 227.11983 | 44.51193  | 16.09965 | 0.0698610 | 2.5608926 | 5175 |
| (18327) | 15.3 | 201.63177 | 330.24400 | 220.23671 | 2.56748  | 0.0786482 | 2.2305061 | 5161 | (18379) | 13.8 | 353.11147 | 181.90247 | 194.26756 | 10.40554 | 0.1385893 | 2.7908527 | 5176 |
| (18328) | 14.3 | 310.18006 | 16.54394  | 48.78356  | 10.44443 | 0.1851308 | 2.4277669 | 5161 | (18380) | 15.0 | 23.21940  | 316.06970 | 59.89297  | 6.84623  | 0.1533335 | 2.6879375 | 5176 |
| (18329) | 14.6 | 41.91624  | 338.56002 | 358.39652 | 4.36757  | 0.1862037 | 2.2611455 | 5162 | (18381) | 13.8 | 310.49121 | 322.93556 | 138.38916 | 6.61369  | 0.1433269 | 2.8012638 | 5176 |
| (18330) | 15.5 | 342.95396 | 211.35010 | 243.55030 | 3.99464  | 0.1550333 | 2.3118548 | 5162 | (18382) | 14.8 | 87.46769  | 225.63044 | 96.82834  | 5.15959  | 0.1752825 | 2.1704194 | 5176 |
| (18331) | 12.2 | 318.67384 | 15.53200  | 352.85779 | 16.02809 | 0.0744393 | 3.1074490 | 5162 | (18383) | 14.3 | 37.45480  | 220.82384 | 108.92066 | 2.50893  | 0.1493587 | 3.1065661 | 5177 |
| (18332) | 14.3 | 52.16573  | 153.34164 | 158.61918 | 13.88617 | 0.1958087 | 2.5999513 | 5163 | (18384) | 14.2 | 95.26443  | 304.62706 | 21.36811  | 2.62096  | 0.0194559 | 2.9158078 | 5177 |
| (18333) | 14.4 | 51.20296  | 149.92755 | 191.09736 | 8.47587  | 0.1740698 | 2.5725560 | 5163 | (18385) | 13.5 | 33.64265  | 186.54426 | 163.03708 | 10.42680 | 0.0921338 | 3.0375860 | 5177 |
| (18334) | 13.7 | 82.45007  | 167.10346 | 139.93025 | 4.35382  | 0.2409849 | 2.5727136 | 5163 | (18386) | 15.1 | 67.64200  | 154.48284 | 175.90499 | 5.47979  | 0.1594747 | 2.2678378 | 5178 |
| (18335) | 14.4 | 18.19760  | 261.98631 | 139.67909 | 5.35327  | 0.2556024 | 2.5882987 | 5163 | (18387) | 15.1 | 57.12933  | 288.13335 | 6.69228   | 2.23064  | 0.2356317 | 2.3626090 | 5178 |
| (18336) | 13.3 | 30.32932  | 253.03226 | 72.18592  | 15.20939 | 0.1464765 | 2.4334901 | 5164 | (18388) | 14.6 | 160.97057 | 173.34374 | 38.88857  | 4.15320  | 0.0970620 | 2.2783798 | 5178 |
| (18337) | 14.0 | 354.98992 | 246.23116 | 162.94074 | 0.94438  | 0.2040825 | 3.1844679 | 5164 | (18389) | 14.6 | 130.02981 | 125.51187 | 211.71403 | 5.19224  | 0.2303220 | 2.1851072 | 5178 |
| (18338) | 14.2 | 158.26909 | 262.66899 | 282.08208 | 7.91493  | 0.0965349 | 2.7777302 | 5164 | (18390) | 14.1 | 176.83029 | 158.78535 | 48.20218  | 6.63301  | 0.1119216 | 2.2682072 | 5179 |
| (18339) | 14.4 | 244.44930 | 297.12100 | 217.00384 | 6.08252  | 0.1659430 | 2.7012542 | 5164 | (18391) | 15.6 | 64.46674  | 20.51798  | 299.55168 | 3.12180  | 0.2475181 | 2.3983934 | 5179 |
| (18340) | 13.5 | 64.96750  | 289.23493 | 26.10140  | 17.08366 | 0.2855520 | 2.9417217 | 5165 | (18392) | 14.3 | 83.43933  | 152.83709 | 135.20603 | 9.59256  | 0.1720594 | 2.4138742 | 5180 |
| (18341) | 13.6 | 164.88551 | 183.21582 | 47.97009  | 7.13863  | 0.0710308 | 2.3422413 | 5165 | (18393) | 14.4 | 80.70069  | 243.64038 | 55.75335  | 24.11677 | 0.2240317 | 2.3721673 | 5180 |
| (18342) | 15.9 | 29.05057  | 315.62543 | 19.50616  | 2.27939  | 0.2355483 | 2.3506524 | 5165 | (18394) | 14.2 | 271.00017 | 39.02308  | 88.64216  | 4.05409  | 0.1793116 | 2.4539867 | 5180 |
| (18343) | 14.4 | 9.05346   | 222.45554 | 98.85148  | 3.52310  | 0.1906565 | 2.4144990 | 5166 | (18395) | 14.1 | 68.35617  | 301.56489 | 32.68480  | 4.78889  | 0.1126442 | 2.4131970 | 5180 |
| (18344) | 14.6 | 29.30524  | 347.44100 | 10.40800  | 6.57775  | 0.1758275 | 2.3403071 | 5166 | (18396) | 14.7 | 11.61045  | 298.03114 | 126.65440 | 2.97294  | 0.1849098 | 2.3905969 | 5181 |
| (18345) | 12.9 | 338.20952 | 31.96960  | 353.02793 | 1.14677  | 0.1898364 | 3.1686748 | 5166 | (18397) | 13.9 | 334.45376 | 140.93597 | 228.56662 | 18.03456 | 0.3093884 | 2.5780932 | 5181 |
| (18346) | 14.4 | 18.00068  | 295.38505 | 86.05882  | 5.68310  | 0.1991579 | 2.3637886 | 5166 | (18398) | 14.8 | 133.63595 | 101.38614 | 219.98831 | 7.82474  | 0.3107411 | 2.3061951 | 5181 |
| (18347) | 14.2 | 75.01373  | 174.30376 | 270.37477 | 4.95829  | 0.1547581 | 2.2319366 | 5167 | (18399) | 12.1 | 154.65508 | 324.74583 | 76.36615  | 18.18033 | 0.2070107 | 3.1551705 | 5182 |
| (18348) | 13.6 | 357.23587 | 316.89715 | 120.45188 | 25.30585 | 0.2422922 | 2.3560601 | 5167 | (18400) | 14.4 | 57.64546  | 224.46629 | 91.32189  | 10.26500 | 0.0960877 | 2.5663605 | 5182 |
| (18349) | 14.1 | 353.05711 | 70.36541  | 282.10555 | 16.36747 | 0.2267141 | 2.8911694 | 5167 | (18401) | 13.4 | 11.14011  | 305.29394 | 68.23105  | 16.50631 | 0.1886494 | 2.5293004 | 5182 |
| (18350) | 15.6 | 355.93888 | 0.99396   | 34.23018  | 1.54981  | 0.1598189 | 2.1919151 | 5168 | (18402) | 14.4 | 332.32209 | 199.37928 | 227.99517 | 4.02423  | 0.2654439 | 2.5749798 | 5182 |
| (18351) | 13.6 | 18.69101  | 40.57426  | 345.46734 | 8.63358  | 0.1757522 | 2.7913764 | 5168 | (18403) | 14.6 | 281.55670 | 310.57870 | 174.91390 | 3.64170  | 0.3072374 | 2.6336162 | 5183 |
| (18352) | 14.3 | 289.77341 | 329.88963 | 150.99218 | 6.53991  | 0.0540378 | 2.7605204 | 5168 | (18404) | 12.8 | 237.99637 | 141.44248 | 25.67303  | 9.90599  | 0.1717036 | 2.7642287 | 5183 |
| (18353) | 13.6 | 233.56994 | 12.96515  | 149.81612 | 15.34288 | 0.1125990 | 2.7867727 | 5168 | (18405) | 12.8 | 161.70519 | 67.59644  | 164.71261 | 9.45007  | 0.0737739 | 2.8503464 | 5183 |
| (18354) | 14.0 | 37.43321  | 119.71297 | 208.24711 | 4.69035  | 0.2647389 | 2.8666313 | 5169 | (18406) | 14.3 | 329.72139 | 343.88652 | 131.67907 | 5.53947  | 0.2455604 | 2.5969741 | 5184 |
| (18355) | 13.2 | 93.50366  | 72.75335  | 304.98096 | 10.90116 | 0.2501569 | 2.6469888 | 5169 | (18407) | 13.2 | 51.41140  | 152.00861 | 201.86399 | 7.89889  | 0.1241035 | 2.8104745 | 5184 |
| (18356) | 13.6 | 358.28721 | 145.90532 | 265.41732 | 3.60698  | 0.1789846 | 2.8441869 | 5169 | (18408) | 13.3 | 48.07255  | 66.08270  | 225.03436 | 7.31776  | 0.0693701 | 3.0567719 | 5184 |
| (18357) | 14.4 | 67.08184  | 279.76291 | 32.65779  | 4.74070  | 0.1956396 | 2.1885930 | 5170 | (18409) | 16.2 | 73.99534  | 88.38626  | 171.70795 | 6.15578  | 0.0715903 | 2.1460041 | 5185 |
| (18358) | 15.0 | 19.16840  | 82.18377  | 284.95111 | 4.45906  | 0.1747230 | 2.1955871 | 5170 | (18410) | 14.8 | 13.27075  | 48.19747  | 320.87873 | 1.21748  | 0.0714315 | 2.8599718 | 5185 |
| (18359) | 14.7 | 310.16406 | 232.91590 | 214.09566 | 1.17831  | 0.0975475 | 2.9251588 | 5170 | (18411) | 13.8 | 41.75928  | 133.91209 | 172.90261 | 8.02459  | 0.1008183 | 3.0143680 | 5185 |
| (18360) | 14.8 | 111.00416 | 95.35319  | 225.31809 | 8.29500  | 0.1865946 | 2.7377396 | 5170 | (18412) | 14.6 | 174.45918 | 241.11053 | 301.37028 | 11.71719 | 0.0925444 | 3.0330849 | 5185 |

|         |      |           |           |           |          |           |           |      |         |      |           |           |           |          |           |           |      |
|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|
| (18413) | 14.4 | 59.82453  | 337.79689 | 336.06391 | 11.16572 | 0.1119989 | 3.0572397 | 5186 | (18465) | 14.8 | 153.42214 | 56.42096  | 168.54210 | 4.54857  | 0.0106936 | 2.7917848 | 5200 |
| (18414) | 14.6 | 37.96345  | 148.51248 | 121.42110 | 6.15614  | 0.2203650 | 2.2967107 | 5186 | (18466) | 14.4 | 214.48861 | 176.66817 | 353.67510 | 13.53960 | 0.1279852 | 2.7725358 | 5200 |
| (18415) | 14.5 | 316.13840 | 217.24580 | 226.83735 | 2.91409  | 0.1127494 | 2.2078987 | 5186 | (18467) | 12.8 | 48.41137  | 92.21706  | 237.57252 | 3.34437  | 0.1772628 | 2.8137002 | 5200 |
| (18416) | 14.4 | 39.39912  | 160.84312 | 157.23015 | 25.57463 | 0.2277520 | 2.2657205 | 5187 | (18468) | 13.5 | 212.70426 | 171.54204 | 35.88988  | 8.32514  | 0.0595686 | 2.8110057 | 5201 |
| (18417) | 15.7 | 70.55750  | 156.30797 | 139.69966 | 5.08269  | 0.1437854 | 2.2443337 | 5187 | (18469) | 14.7 | 258.78494 | 83.22160  | 40.91803  | 2.40929  | 0.0579594 | 2.9322250 | 5201 |
| (18418) | 14.1 | 36.43635  | 317.37400 | 42.34841  | 9.13601  | 0.2021528 | 2.2482940 | 5187 | (18470) | 13.8 | 315.31116 | 47.40721  | 23.12351  | 1.91410  | 0.0864780 | 2.9524844 | 5201 |
| (18419) | 15.3 | 104.34561 | 118.32767 | 147.07601 | 2.23372  | 0.1111078 | 2.2846298 | 5187 | (18471) | 14.0 | 259.64425 | 315.58528 | 204.33576 | 9.33397  | 0.1586772 | 2.7563634 | 5202 |
| (18420) | 15.1 | 266.19381 | 356.66254 | 87.49843  | 3.59744  | 0.1311285 | 2.3830782 | 5188 | (18472) | 14.7 | 346.23294 | 114.88670 | 311.54063 | 1.50610  | 0.2336247 | 2.8507071 | 5202 |
| (18421) | 15.1 | 349.13882 | 357.61532 | 86.05158  | 0.97522  | 0.0703761 | 2.1956376 | 5188 | (18473) | 14.0 | 3.39982   | 101.07897 | 335.60799 | 1.79787  | 0.0726907 | 2.7291052 | 5202 |
| (18422) | 15.1 | 48.26453  | 178.30387 | 146.75289 | 6.06447  | 0.1897758 | 2.2816062 | 5188 | (18474) | 12.7 | 266.44556 | 233.71633 | 286.85294 | 18.17352 | 0.2151663 | 3.0001864 | 5202 |
| (18423) | 14.8 | 10.08974  | 266.93826 | 145.69577 | 4.52946  | 0.1106716 | 2.2286963 | 5188 | (18475) | 13.9 | 16.30254  | 305.61624 | 77.86857  | 10.05847 | 0.1188230 | 2.9796565 | 5203 |
| (18424) | 14.2 | 356.71737 | 138.47560 | 286.40617 | 2.80271  | 0.1411460 | 2.3110215 | 5189 | (18476) | 12.7 | 351.29264 | 119.02231 | 263.20548 | 8.13940  | 0.0903145 | 3.1629089 | 5203 |
| (18425) | 14.8 | 195.25753 | 122.59851 | 79.76166  | 3.23947  | 0.1578804 | 2.3900799 | 5189 | (18477) | 14.3 | 30.36487  | 251.98021 | 56.69795  | 10.58534 | 0.2082500 | 3.1664294 | 5203 |
| (18426) | 15.6 | 291.93015 | 202.99554 | 254.36386 | 2.83138  | 0.1738186 | 2.3795808 | 5189 | (18478) | 13.8 | 8.40493   | 351.32258 | 27.26457  | 2.20394  | 0.0859129 | 2.8859052 | 5204 |
| (18427) | 14.6 | 341.63285 | 180.33717 | 238.30167 | 1.54421  | 0.1926706 | 2.3590232 | 5190 | (18479) | 12.8 | 203.88070 | 326.09853 | 245.86477 | 9.07066  | 0.0366328 | 2.9930284 | 5204 |
| (18428) | 14.9 | 340.67142 | 104.27903 | 301.41067 | 8.01943  | 0.1917554 | 2.3692789 | 5190 | (18480) | 13.7 | 117.00773 | 239.20070 | 96.92312  | 13.06331 | 0.2370562 | 2.6488499 | 5204 |
| (18429) | 13.2 | 267.90913 | 190.51768 | 287.19298 | 11.38639 | 0.1071889 | 2.4487763 | 5190 | (18481) | 12.5 | 54.94151  | 94.80482  | 252.55602 | 8.83235  | 0.1282276 | 2.9894618 | 5204 |
| (18430) | 14.4 | 292.71737 | 264.33216 | 213.64456 | 6.61256  | 0.1014409 | 2.3916639 | 5190 | (18482) | 12.7 | 348.81084 | 297.29529 | 109.24076 | 10.36623 | 0.0854236 | 3.1739366 | 5205 |
| (18431) | 14.5 | 336.06730 | 112.04163 | 316.72799 | 6.02771  | 0.1149601 | 2.4045874 | 5191 | (18483) | 12.2 | 16.97569  | 269.52346 | 100.27128 | 10.79278 | 0.2392160 | 3.1434256 | 5205 |
| (18432) | 14.5 | 161.28137 | 84.64584  | 130.96339 | 7.66893  | 0.1363200 | 2.5654341 | 5191 | (18484) | 13.6 | 330.05992 | 343.85400 | 96.85563  | 2.64227  | 0.1844428 | 3.0870201 | 5205 |
| (18433) | 14.3 | 147.38079 | 230.82580 | 22.82051  | 12.89436 | 0.1472482 | 2.5763926 | 5191 | (18485) | 13.1 | 331.02735 | 136.31919 | 299.01026 | 2.53808  | 0.1394212 | 3.1936956 | 5206 |
| (18434) | 13.4 | 264.10162 | 29.02015  | 134.18622 | 24.90617 | 0.2327132 | 2.4434442 | 5191 | (18486) | 13.9 | 329.99180 | 48.84489  | 38.88703  | 2.00532  | 0.1884515 | 3.1506599 | 5206 |
| (18435) | 14.3 | 281.54000 | 97.28455  | 62.02786  | 7.70934  | 0.1855595 | 2.4396381 | 5192 | (18487) | 11.7 | 180.91453 | 195.62577 | 133.94069 | 15.11624 | 0.1807510 | 2.6404927 | 5206 |
| (18436) | 14.2 | 175.87666 | 171.54211 | 50.17449  | 8.73130  | 0.1493414 | 2.6231260 | 5192 | (18488) | 11.9 | 2.66103   | 258.44232 | 138.25522 | 17.66620 | 0.2698956 | 3.1781134 | 5206 |
| (18437) | 13.4 | 161.28194 | 168.79294 | 82.80057  | 15.09432 | 0.1193938 | 2.5891993 | 5192 | (18489) | 12.7 | 78.25544  | 333.49387 | 116.79639 | 16.09670 | 0.1125956 | 2.5761301 | 5207 |
| (18438) | 14.5 | 296.52030 | 21.32096  | 58.96669  | 6.01628  | 0.2027653 | 2.7185174 | 5193 | (18490) | 13.6 | 343.32506 | 69.10365  | 344.34702 | 7.11056  | 0.2264727 | 2.7928709 | 5207 |
| (18439) | 12.8 | 201.32648 | 93.70212  | 84.30583  | 12.31114 | 0.0251220 | 2.6875742 | 5193 | (18491) | 13.8 | 89.43659  | 51.79249  | 130.31838 | 7.24840  | 0.1217668 | 2.3210673 | 5207 |
| (18440) | 14.9 | 64.75952  | 158.90913 | 129.04995 | 6.45265  | 0.2792388 | 3.0370706 | 5193 | (18492) | 14.4 | 34.58845  | 94.39846  | 159.93786 | 7.38144  | 0.1474431 | 2.2446470 | 5207 |
| (18441) | 14.2 | 57.14151  | 14.57423  | 298.01559 | 10.03841 | 0.0843129 | 3.0944280 | 5193 | (18493) | 11.0 | 54.48505  | 88.80840  | 215.61378 | 17.19645 | 0.0918152 | 5.3152927 | 5208 |
| (18442) | 13.8 | 336.07273 | 121.43872 | 321.30998 | 1.37455  | 0.0741447 | 2.9145785 | 5193 | (18494) | 16.2 | 65.01968  | 101.04133 | 198.82774 | 3.27051  | 0.1128548 | 2.1675441 | 5208 |
| (18443) | 13.5 | 322.69059 | 109.17549 | 332.56154 | 8.64714  | 0.0503085 | 2.9780367 | 5194 | (18495) | 14.9 | 50.05362  | 257.51637 | 71.12504  | 4.27944  | 0.2079874 | 2.1770520 | 5208 |
| (18444) | 13.9 | 33.42068  | 6.72278   | 323.77786 | 2.80327  | 0.1756620 | 3.1449101 | 5194 | (18496) | 14.6 | 8.49862   | 70.06503  | 233.51373 | 1.66000  | 0.1892021 | 2.4104807 | 5209 |
| (18445) | 13.7 | 113.86589 | 285.17130 | 321.07180 | 12.86711 | 0.1184988 | 3.1161512 | 5194 | (18497) | 14.7 | 38.82087  | 244.70914 | 75.80062  | 8.14593  | 0.1428427 | 2.2788949 | 5209 |
| (18446) | 13.9 | 340.60056 | 78.41343  | 324.41465 | 1.02413  | 0.2126075 | 3.1693239 | 5195 | (18498) | 15.8 | 61.96136  | 49.24070  | 263.69578 | 5.93661  | 0.1458974 | 2.2701763 | 5209 |
| (18447) | 14.8 | 6.61796   | 220.53105 | 150.65960 | 2.12730  | 0.0284574 | 3.1004802 | 5195 | (18499) | 16.3 | 39.40302  | 193.48159 | 134.82238 | 4.28066  | 0.3491857 | 2.3929134 | 5210 |
| (18448) | 14.4 | 58.79675  | 175.22699 | 136.74275 | 0.79716  | 0.1821807 | 3.0922881 | 5195 | (18500) | 14.8 | 218.98396 | 207.33472 | 311.50769 | 4.72614  | 0.0475938 | 2.3130427 | 5210 |
| (18449) | 13.1 | 62.00449  | 119.95560 | 183.41260 | 1.83398  | 0.1677642 | 3.1176583 | 5195 | (18501) | 14.8 | 67.66774  | 63.11383  | 240.55706 | 3.05489  | 0.0376315 | 2.2859359 | 5210 |
| (18450) | 13.8 | 224.22995 | 26.77418  | 131.82451 | 1.39554  | 0.1459701 | 3.0431655 | 5196 | (18502) | 16.3 | 0.24101   | 222.26060 | 144.02116 | 3.16108  | 0.1943225 | 2.4447107 | 5210 |
| (18451) | 13.9 | 275.77296 | 353.44583 | 126.70466 | 2.98898  | 0.1386849 | 3.0345468 | 5196 | (18503) | 14.8 | 125.53711 | 68.76951  | 151.69586 | 23.89989 | 0.2646681 | 2.3592946 | 5211 |
| (18452) | 14.3 | 298.33041 | 273.28042 | 166.78251 | 5.60837  | 0.1707465 | 3.1437671 | 5196 | (18504) | 15.3 | 25.35318  | 85.41821  | 305.66841 | 3.32915  | 0.1715996 | 2.2577704 | 5211 |
| (18453) | 14.3 | 158.45220 | 33.11727  | 358.37188 | 5.94500  | 0.2332993 | 2.5460596 | 5197 | (18505) | 15.3 | 131.95242 | 62.60964  | 190.53407 | 4.17544  | 0.1257577 | 2.2380661 | 5211 |
| (18454) | 13.8 | 180.78930 | 274.28358 | 296.59788 | 4.01358  | 0.0766325 | 2.2021148 | 5197 | (18506) | 14.8 | 67.22364  | 283.70569 | 30.21076  | 23.20993 | 0.2326333 | 2.3108836 | 5212 |
| (18455) | 15.4 | 229.00453 | 55.52006  | 117.06559 | 4.50976  | 0.1465148 | 2.2358297 | 5197 | (18507) | 15.4 | 313.28408 | 231.61138 | 195.19816 | 6.80232  | 0.0982917 | 2.3088942 | 5212 |
| (18456) | 15.0 | 275.83290 | 106.51435 | 0.68691   | 7.13990  | 0.0972336 | 2.2609809 | 5198 | (18508) | 15.6 | 331.01584 | 263.78813 | 182.60081 | 6.20704  | 0.0753094 | 2.2998884 | 5212 |
| (18457) | 14.4 | 186.64375 | 133.34270 | 69.17105  | 0.57376  | 0.1484594 | 2.2854876 | 5198 | (18509) | 13.0 | 304.11966 | 137.33481 | 288.56881 | 12.24101 | 0.1370940 | 2.6099316 | 5213 |
| (18458) | 15.0 | 177.99425 | 219.50223 | 353.97572 | 5.88222  | 0.1376544 | 2.3001131 | 5198 | (18510) | 15.8 | 104.80599 | 169.80850 | 44.80277  | 2.79032  | 0.1389581 | 2.6604768 | 5213 |
| (18459) | 14.7 | 144.27634 | 241.90445 | 347.94663 | 1.83144  | 0.1650719 | 2.3816058 | 5198 | (18511) | 15.1 | 274.71923 | 72.17040  | 39.36603  | 28.85456 | 0.0441967 | 2.6297847 | 5213 |
| (18460) | 15.2 | 344.05993 | 123.78792 | 332.48580 | 14.55314 | 0.1387239 | 2.5505207 | 5199 | (18512) | 14.5 | 31.23568  | 68.69316  | 286.66687 | 1.29059  | 0.2226925 | 2.3850438 | 5213 |
| (18461) | 14.6 | 106.20698 | 331.66176 | 314.43247 | 13.71480 | 0.1109276 | 2.6517404 | 5199 | (18513) | 14.0 | 297.64004 | 216.34463 | 297.57057 | 23.62028 | 0.1885800 | 2.2754008 | 5214 |
| (18462) | 14.7 | 335.63338 | 204.58864 | 162.87265 | 2.30087  | 0.0858322 | 2.9015725 | 5199 | (18514) | 15.8 | 326.69961 | 261.90669 | 176.44415 | 24.96509 | 0.4719209 | 2.5686680 | 5214 |
| (18463) | 14.7 | 221.72273 | 338.15304 | 171.19913 | 0.26935  | 0.0884824 | 2.8542830 | 5199 | (18515) | 13.8 | 324.73429 | 11.97556  | 2.84567   | 11.75623 | 0.1214835 | 2.7036759 | 5214 |
| (18464) | 14.5 | 335.14363 | 40.71561  | 24.60272  | 9.06914  | 0.1458227 | 2.8114124 | 5200 | (18516) | 14.6 | 9.13382   | 196.11425 | 214.33715 | 4.18020  | 0.1946368 | 2.3922481 | 5214 |

|         |      |           |           |           |          |           |           |      |         |      |           |           |           |          |           |           |      |
|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|
| (18517) | 14.4 | 19.25145  | 209.50862 | 192.44349 | 1.90032  | 0.2056797 | 2.4078872 | 5215 | (18569) | 13.8 | 351.87245 | 264.14749 | 7.54697   | 23.20089 | 0.2095808 | 2.3613239 | 5230 |
| (18518) | 14.8 | 284.26541 | 25.73663  | 45.63028  | 8.16601  | 0.0615814 | 2.7002170 | 5215 | (18570) | 15.3 | 344.18466 | 140.50957 | 250.03117 | 1.83149  | 0.1131057 | 2.1889710 | 5230 |
| (18519) | 13.8 | 233.78686 | 93.31856  | 77.51396  | 13.70506 | 0.1229291 | 2.6914420 | 5215 | (18571) | 13.3 | 58.75436  | 11.04467  | 275.39723 | 12.12313 | 0.1812166 | 2.4737522 | 5231 |
| (18520) | 15.1 | 237.36379 | 277.02375 | 237.54526 | 3.57069  | 0.1849977 | 2.6798988 | 5216 | (18572) | 15.4 | 12.88322  | 67.22945  | 310.48815 | 1.82769  | 0.1771945 | 2.2618677 | 5231 |
| (18521) | 14.6 | 42.49903  | 147.98031 | 207.55906 | 5.69709  | 0.1003614 | 2.5328701 | 5216 | (18573) | 14.2 | 315.06941 | 253.90433 | 113.02030 | 3.26922  | 0.0924353 | 2.8367494 | 5231 |
| (18522) | 13.9 | 349.09338 | 327.77928 | 84.75218  | 14.38586 | 0.1410661 | 2.5622047 | 5216 | (18574) | 14.8 | 187.05430 | 50.98409  | 111.93401 | 7.66007  | 0.1278867 | 2.7505335 | 5231 |
| (18523) | 14.5 | 209.03994 | 324.60594 | 209.82800 | 3.89830  | 0.0903268 | 2.5795493 | 5216 | (18575) | 15.5 | 268.42858 | 219.36755 | 233.44584 | 7.61667  | 0.0929992 | 2.2556829 | 5232 |
| (18524) | 13.2 | 354.01571 | 152.88287 | 255.22299 | 5.49362  | 0.0704033 | 2.4856711 | 5217 | (18576) | 15.0 | 51.02567  | 211.25655 | 103.92685 | 6.60337  | 0.1220008 | 2.1771309 | 5232 |
| (18525) | 14.2 | 4.12860   | 352.41031 | 72.70369  | 3.28180  | 0.1868682 | 2.3720901 | 5217 | (18577) | 14.3 | 205.09264 | 273.45785 | 319.30082 | 5.61736  | 0.1421979 | 2.2290175 | 5232 |
| (18526) | 15.1 | 44.85954  | 195.65066 | 150.44993 | 2.61385  | 0.2358723 | 2.4315292 | 5217 | (18578) | 14.9 | 45.39087  | 257.15252 | 70.00330  | 8.36240  | 0.1896274 | 2.2390504 | 5232 |
| (18527) | 13.7 | 65.29687  | 104.55183 | 243.68570 | 5.44074  | 0.1447548 | 2.3998513 | 5218 | (18579) | 14.5 | 316.77799 | 186.18043 | 133.19772 | 0.80316  | 0.1487046 | 2.6014303 | 5233 |
| (18528) | 15.3 | 278.16084 | 80.26733  | 46.70813  | 9.84280  | 0.1932332 | 2.5411381 | 5218 | (18580) | 14.7 | 337.25312 | 116.89296 | 311.62304 | 3.60496  | 0.0860009 | 2.2300252 | 5233 |
| (18529) | 15.2 | 322.30092 | 250.90061 | 230.92979 | 4.06282  | 0.1554724 | 2.3478888 | 5218 | (18581) | 14.1 | 222.55880 | 224.25855 | 309.63900 | 6.69282  | 0.0474019 | 2.3559953 | 5233 |
| (18530) | 13.8 | 34.78376  | 62.54802  | 289.63494 | 4.35794  | 0.1321044 | 2.7019442 | 5218 | (18582) | 13.1 | 119.72996 | 39.78067  | 238.35441 | 21.32977 | 0.0672550 | 1.8589528 | 5234 |
| (18531) | 14.6 | 144.34823 | 248.85198 | 82.74576  | 5.01111  | 0.2407015 | 2.2113553 | 5219 | (18583) | 15.5 | 248.20170 | 29.12487  | 67.09597  | 3.08691  | 0.1752055 | 2.4255595 | 5234 |
| (18532) | 14.3 | 276.88841 | 52.00680  | 74.30692  | 13.15815 | 0.1264761 | 2.6676660 | 5219 | (18584) | 15.4 | 129.88234 | 350.29796 | 281.32354 | 1.84952  | 0.1072317 | 2.2323546 | 5234 |
| (18533) | 14.7 | 356.46037 | 349.56864 | 83.77984  | 7.38876  | 0.2263704 | 2.4439640 | 5219 | (18585) | 14.7 | 308.64350 | 15.26592  | 75.46932  | 5.60912  | 0.1064086 | 2.1960517 | 5234 |
| (18534) | 14.3 | 28.35324  | 303.18274 | 42.42068  | 2.58519  | 0.1054961 | 2.9017639 | 5220 | (18586) | 13.8 | 207.49248 | 33.50143  | 131.37396 | 6.48158  | 0.1764334 | 2.4721334 | 5235 |
| (18535) | 13.8 | 49.13631  | 90.98561  | 241.17558 | 11.54328 | 0.1165351 | 2.6314138 | 5220 | (18587) | 14.8 | 65.26880  | 220.46485 | 110.01467 | 3.69067  | 0.0638854 | 2.2468359 | 5235 |
| (18536) | 14.8 | 11.42795  | 280.49233 | 91.37250  | 3.02746  | 0.0794652 | 2.7820021 | 5220 | (18588) | 14.7 | 172.51832 | 27.16510  | 177.98379 | 6.44281  | 0.0909243 | 2.4379020 | 5235 |
| (18537) | 13.6 | 327.72346 | 300.03026 | 122.96759 | 10.27981 | 0.1603040 | 2.7747157 | 5221 | (18589) | 15.1 | 1.16878   | 357.15895 | 27.92778  | 3.19603  | 0.1296951 | 2.2465603 | 5236 |
| (18538) | 14.1 | 349.47604 | 209.88400 | 231.36269 | 2.89493  | 0.1671432 | 2.4465806 | 5221 | (18590) | 12.1 | 133.78782 | 208.08882 | 60.22031  | 6.21101  | 0.1301565 | 2.2914805 | 5236 |
| (18539) | 14.1 | 345.67130 | 183.72030 | 241.31202 | 3.65351  | 0.2137685 | 2.5996837 | 5221 | (18591) | 13.3 | 241.06904 | 7.19821   | 121.25704 | 14.55050 | 0.0819975 | 2.6215697 | 5236 |
| (18540) | 14.3 | 339.37483 | 247.82730 | 162.78741 | 3.08021  | 0.2545145 | 2.6773612 | 5221 | (18592) | 15.3 | 147.93393 | 255.99876 | 342.58803 | 6.96903  | 0.1462891 | 2.4859118 | 5236 |
| (18541) | 14.4 | 309.67183 | 326.12061 | 101.65009 | 3.45249  | 0.0217280 | 2.9154643 | 5222 | (18593) | 15.1 | 108.81499 | 182.42097 | 76.78080  | 2.87851  | 0.0794475 | 2.4395888 | 5237 |
| (18542) | 13.8 | 135.27431 | 179.19189 | 63.83917  | 15.01776 | 0.0641250 | 2.5823844 | 5222 | (18594) | 14.9 | 337.51747 | 119.84095 | 284.31298 | 6.35491  | 0.1893781 | 2.2334146 | 5237 |
| (18543) | 13.6 | 94.42282  | 357.12818 | 311.70018 | 7.45836  | 0.1241421 | 2.7218266 | 5222 | (18595) | 13.8 | 0.53079   | 312.14355 | 43.97231  | 5.83648  | 0.2566955 | 2.3675491 | 5237 |
| (18544) | 13.7 | 267.24581 | 132.85335 | 28.77908  | 2.82386  | 0.1408717 | 2.6860743 | 5222 | (18596) | 16.0 | 247.84004 | 13.65887  | 125.13121 | 3.34700  | 0.1167229 | 2.3736844 | 5238 |
| (18545) | 13.4 | 268.88389 | 13.15243  | 92.60269  | 11.80834 | 0.0727512 | 2.9766497 | 5223 | (18597) | 14.6 | 0.28254   | 64.99472  | 343.06819 | 4.06044  | 0.1538546 | 2.2058443 | 5238 |
| (18546) | 13.9 | 331.32584 | 308.78480 | 198.56317 | 1.50387  | 0.1519454 | 2.4264212 | 5223 | (18598) | 13.3 | 77.84457  | 163.85447 | 122.58314 | 11.02750 | 0.1270049 | 2.6734717 | 5238 |
| (18547) | 13.4 | 239.51098 | 158.68764 | 349.67885 | 9.61003  | 0.0482105 | 2.9758665 | 5223 | (18599) | 15.3 | 236.39737 | 97.84688  | 84.54530  | 3.56228  | 0.0968643 | 2.2820857 | 5238 |
| (18548) | 14.6 | 230.36865 | 324.48888 | 205.79497 | 7.38606  | 0.0402598 | 2.5774865 | 5224 | (18600) | 14.4 | 350.23316 | 283.02444 | 57.04608  | 6.90934  | 0.2287623 | 2.5553119 | 5239 |
| (18549) | 14.0 | 248.64720 | 125.08381 | 93.61113  | 12.13609 | 0.2502672 | 2.5946596 | 5224 | (18601) | 15.5 | 177.24356 | 110.37451 | 98.43413  | 3.23574  | 0.1497686 | 2.4080684 | 5239 |
| (18550) | 13.7 | 290.53299 | 195.12193 | 256.27742 | 6.78131  | 0.0423131 | 2.9986248 | 5224 | (18602) | 14.3 | 180.62575 | 103.77614 | 102.58461 | 3.68382  | 0.1279524 | 2.4239007 | 5239 |
| (18551) | 13.9 | 39.10079  | 47.28413  | 294.20729 | 5.45689  | 0.1962354 | 2.8032041 | 5225 | (18603) | 14.7 | 269.54025 | 157.17179 | 342.20464 | 5.96094  | 0.1357172 | 2.3120406 | 5239 |
| (18552) | 14.1 | 307.11996 | 344.50261 | 114.27614 | 10.18280 | 0.1106664 | 2.7688205 | 5225 | (18604) | 15.7 | 191.55249 | 120.72060 | 159.87690 | 5.82345  | 0.1548931 | 2.2273414 | 5240 |
| (18553) | 13.6 | 123.50286 | 243.62133 | 19.07426  | 1.04131  | 0.1288781 | 3.1200801 | 5225 | (18605) | 15.2 | 154.42524 | 89.50465  | 143.11850 | 3.02145  | 0.0333425 | 2.7408967 | 5240 |
| (18554) | 13.0 | 4.54288   | 314.12367 | 59.63187  | 2.40213  | 0.0828346 | 2.9703278 | 5226 | (18606) | 14.5 | 224.23765 | 62.34141  | 116.73816 | 6.41794  | 0.1362852 | 2.4651964 | 5240 |
| (18555) | 14.8 | 338.17984 | 103.17738 | 333.18222 | 1.24749  | 0.0393090 | 2.8348973 | 5226 | (18607) | 14.2 | 3.30702   | 309.57457 | 81.80071  | 6.06945  | 0.1555907 | 2.3354622 | 5241 |
| (18556) | 13.6 | 68.02898  | 189.27783 | 125.34478 | 10.11841 | 0.0075657 | 3.0560040 | 5226 | (18608) | 15.3 | 241.26729 | 191.44243 | 320.87947 | 1.65395  | 0.1537364 | 2.3791865 | 5241 |
| (18557) | 14.1 | 296.49246 | 123.42017 | 334.18924 | 1.33815  | 0.0310746 | 2.8717817 | 5226 | (18609) | 13.7 | 18.75617  | 238.73593 | 133.31433 | 5.71031  | 0.1401869 | 2.2890540 | 5241 |
| (18558) | 13.7 | 175.80952 | 146.24296 | 63.42230  | 6.34134  | 0.1014771 | 3.1418773 | 5227 | (18610) | 14.4 | 260.03766 | 138.63428 | 319.79807 | 5.57273  | 0.2131688 | 2.5477524 | 5242 |
| (18559) | 13.6 | 237.97356 | 3.03187   | 164.86022 | 10.28674 | 0.1111109 | 3.1385185 | 5227 | (18611) | 14.7 | 11.71877  | 42.49037  | 327.53800 | 2.43941  | 0.1947850 | 2.4451610 | 5242 |
| (18560) | 12.9 | 98.25431  | 322.05098 | 330.06462 | 9.19361  | 0.1716711 | 3.1678253 | 5227 | (18612) | 14.3 | 168.63280 | 239.82731 | 1.33185   | 2.35588  | 0.1395139 | 2.4624731 | 5242 |
| (18561) | 14.6 | 356.12654 | 285.52350 | 110.23909 | 3.14246  | 0.0889788 | 2.8998217 | 5228 | (18613) | 14.6 | 37.89557  | 218.80582 | 101.51921 | 6.28263  | 0.1667481 | 2.7491249 | 5243 |
| (18562) | 13.7 | 134.56336 | 243.75179 | 36.25638  | 1.62306  | 0.0772002 | 3.2225838 | 5228 | (18614) | 14.2 | 62.58495  | 312.90988 | 9.10567   | 28.49549 | 0.1154992 | 2.6455432 | 5243 |
| (18563) | 14.3 | 68.33190  | 154.95741 | 218.25323 | 0.86125  | 0.1346891 | 2.9285202 | 5228 | (18615) | 14.0 | 79.64112  | 186.76027 | 114.22686 | 12.95433 | 0.1626958 | 2.5723370 | 5243 |
| (18564) | 13.7 | 249.81089 | 128.42278 | 55.43548  | 0.10894  | 0.1090370 | 3.1188102 | 5229 | (18616) | 13.3 | 121.11686 | 319.16503 | 310.31826 | 14.71337 | 0.1753914 | 2.6266057 | 5243 |
| (18565) | 14.1 | 305.65560 | 281.68793 | 203.16660 | 4.96623  | 0.1292519 | 3.1005875 | 5229 | (18617) | 13.9 | 282.10376 | 210.73000 | 303.55666 | 3.08524  | 0.0644486 | 2.1409850 | 5244 |
| (18566) | 13.8 | 141.52593 | 73.95480  | 22.58973  | 5.09339  | 0.1005796 | 3.0520659 | 5229 | (18618) | 14.4 | 343.05383 | 183.08665 | 265.48753 | 5.63945  | 0.0459126 | 2.2329137 | 5244 |
| (18567) | 14.4 | 276.07145 | 76.13487  | 242.23016 | 3.35212  | 0.0681356 | 2.7789318 | 5229 | (18619) | 14.7 | 29.96685  | 199.21153 | 187.93774 | 4.62539  | 0.1270059 | 2.2810010 | 5244 |
| (18568) | 12.2 | 207.42124 | 156.44522 | 202.54149 | 21.84876 | 0.0709611 | 3.1327797 | 5230 | (18620) | 16.1 | 304.43225 | 347.44622 | 104.03806 | 3.01020  | 0.3305807 | 2.2816557 | 5245 |

|         |      |           |           |           |          |           |           |      |
|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|
| (18621) | 15.4 | 319.70114 | 291.69696 | 152.29535 | 7.09916  | 0.0984356 | 2.4228912 | 5245 |
| (18622) | 13.8 | 295.71484 | 357.61848 | 69.08801  | 3.57454  | 0.1304441 | 2.8049023 | 5245 |
| (18623) | 14.3 | 109.99647 | 204.40085 | 58.98191  | 2.71767  | 0.0262288 | 2.8389810 | 5245 |
| (18624) | 13.5 | 117.27462 | 57.67955  | 177.78697 | 19.02128 | 0.0555815 | 3.1114476 | 5246 |
| (18625) | 15.6 | 178.43039 | 183.77935 | 103.16281 | 1.59190  | 0.1864280 | 2.2838178 | 5246 |
| (18626) | 14.7 | 103.72189 | 52.92464  | 10.36945  | 19.84146 | 0.0858828 | 1.9129899 | 5246 |
| (18627) | 13.8 | 34.54295  | 300.52593 | 52.73730  | 9.33058  | 0.0732995 | 2.3690452 | 5247 |
| (18628) | 14.8 | 258.72492 | 54.48288  | 110.00238 | 5.76398  | 0.1085949 | 2.2760693 | 5247 |
| (18629) | 14.7 | 211.88613 | 14.01836  | 165.69685 | 12.17589 | 0.1454533 | 2.5773411 | 5247 |
| (18630) | 15.2 | 137.41482 | 302.24766 | 16.19947  | 5.36653  | 0.1840262 | 2.2209615 | 5248 |
| (18631) | 13.1 | 120.17132 | 288.97928 | 327.72212 | 11.67131 | 0.1431231 | 2.6672158 | 5248 |
| (18632) | 14.5 | 20.73748  | 218.42336 | 127.86654 | 3.80480  | 0.1226983 | 2.9330137 | 5248 |
| (18633) | 14.1 | 104.41882 | 45.41576  | 180.94338 | 9.09978  | 0.0192998 | 3.1543738 | 5248 |
| (18634) | 14.4 | 255.58467 | 306.53297 | 188.76509 | 14.36949 | 0.0918750 | 2.6665205 | 5249 |
| (18635) | 14.7 | 32.10118  | 325.84861 | 56.24363  | 0.77054  | 0.1815519 | 2.5413690 | 5249 |
| (18636) | 14.5 | 63.34493  | 152.50409 | 167.06601 | 2.56336  | 0.0437555 | 2.9144928 | 5249 |
| (18637) | 14.9 | 96.07130  | 136.09680 | 188.69090 | 12.02312 | 0.1866650 | 2.6882482 | 5250 |
| (18638) | 13.4 | 107.19247 | 300.84687 | 6.77251   | 9.40888  | 0.1773683 | 2.6536129 | 5250 |
| (18639) | 15.2 | 127.21817 | 349.71945 | 253.17924 | 2.51726  | 0.0203652 | 2.6922057 | 5250 |
| (18640) | 13.4 | 198.40593 | 256.03979 | 262.64037 | 20.36633 | 0.2961641 | 2.4273931 | 5251 |
| (18641) | 13.6 | 348.94787 | 103.50597 | 308.56935 | 7.15924  | 0.1036644 | 2.3572971 | 5251 |
| (18642) | 15.2 | 268.70528 | 121.91180 | 36.95516  | 4.93256  | 0.1547904 | 2.2947966 | 5251 |
| (18643) | 12.9 | 31.74426  | 315.52953 | 27.45370  | 10.39639 | 0.0946059 | 2.7033264 | 5251 |
| (18644) | 13.9 | 163.37772 | 46.71065  | 187.00000 | 5.71524  | 0.0700332 | 2.4455828 | 5252 |
| (18645) | 13.9 | 89.18740  | 351.71837 | 259.43287 | 0.33590  | 0.1536266 | 3.1033190 | 5252 |
| (18646) | 15.1 | 306.07089 | 296.38488 | 157.49026 | 8.89251  | 0.1067034 | 2.3622757 | 5252 |
| (18647) | 15.5 | 217.05377 | 39.81493  | 141.45604 | 3.71043  | 0.0446649 | 2.5395397 | 5253 |
| (18648) | 16.3 | 196.30561 | 62.84803  | 194.83578 | 12.68021 | 0.1816365 | 2.3220291 | 5253 |
| (18649) | 14.0 | 98.66797  | 298.10821 | 357.34139 | 8.64507  | 0.1374220 | 2.7855880 | 5253 |
| (18650) | 14.2 | 331.37284 | 58.40560  | 352.31229 | 5.24635  | 0.0176075 | 2.7437746 | 5253 |
| (18651) | 14.3 | 235.66736 | 26.00149  | 168.18865 | 5.96554  | 0.1126757 | 2.4024863 | 5254 |
| (18652) | 14.1 | 212.86604 | 24.82519  | 215.49628 | 2.30724  | 0.1626891 | 2.3069194 | 5254 |
| (18653) | 14.9 | 231.34798 | 141.59616 | 59.67053  | 10.45592 | 0.1649967 | 2.3881519 | 5255 |
| (18654) | 13.6 | 291.04831 | 261.40410 | 169.77812 | 14.32050 | 0.1804779 | 2.5920543 | 5255 |
| (18655) | 13.6 | 80.72094  | 135.78041 | 160.60091 | 13.38749 | 0.0766200 | 2.7244710 | 5255 |
| (18656) | 14.4 | 345.35999 | 97.46490  | 327.93345 | 6.50770  | 0.0870826 | 2.3662262 | 5255 |
| (18657) | 14.0 | 102.45548 | 341.23521 | 290.42505 | 2.79009  | 0.0613738 | 2.7865213 | 5256 |
| (18658) | 15.3 | 306.85472 | 224.71717 | 226.43493 | 1.53438  | 0.1858539 | 2.3868297 | 5256 |
| (18659) | 14.2 | 81.59824  | 158.51489 | 135.74586 | 2.18391  | 0.0491714 | 2.7596768 | 5256 |
| (18660) | 14.0 | 180.82920 | 342.84776 | 212.24686 | 3.94088  | 0.0144766 | 2.7351211 | 5257 |
| (18661) | 15.2 | 184.40426 | 32.36370  | 198.16653 | 6.01106  | 0.0957715 | 2.4890213 | 5257 |
| (18662) | 14.4 | 71.46351  | 55.49477  | 242.74180 | 1.26675  | 0.0252676 | 2.8357498 | 5257 |
| (18663) | 15.0 | 307.94003 | 266.98560 | 192.85936 | 5.83800  | 0.1084897 | 2.4066076 | 5258 |
| (18664) | 14.8 | 108.96550 | 25.35258  | 233.40780 | 1.11261  | 0.1172607 | 2.9730407 | 5258 |
| (18665) | 14.6 | 206.33562 | 351.29834 | 198.21094 | 2.23224  | 0.1224022 | 2.6157762 | 5258 |
| (18666) | 13.3 | 53.57765  | 357.22245 | 348.94001 | 12.12494 | 0.1758648 | 2.6426024 | 5259 |
| (18667) | 14.4 | 132.73473 | 267.35331 | 357.51439 | 10.84896 | 0.0681358 | 2.7099330 | 5259 |
| (18668) | 14.1 | 351.83932 | 80.26488  | 309.55239 | 1.47881  | 0.0711733 | 2.7657667 | 5259 |
| (18669) | 14.7 | 112.46301 | 130.60568 | 123.99424 | 2.93006  | 0.1362046 | 3.0929568 | 5259 |
| (18670) | 14.1 | 110.25685 | 100.32991 | 156.70039 | 1.20376  | 0.1390665 | 3.1045460 | 5260 |
| (18671) | 14.4 | 25.32469  | 20.95325  | 10.76561  | 5.38040  | 0.1112309 | 2.4618217 | 5260 |
| (18672) | 14.5 | 278.15848 | 200.77920 | 280.83001 | 1.48951  | 0.0771482 | 2.5782482 | 5260 |

|         |      |           |           |           |          |           |           |      |
|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|
| (18673) | 13.8 | 79.21120  | 22.37779  | 255.22713 | 0.22128  | 0.0997853 | 3.2400972 | 5261 |
| (18674) | 12.5 | 48.79066  | 133.36562 | 196.57919 | 10.21416 | 0.1086993 | 2.9911265 | 5261 |
| (18675) | 14.1 | 346.36110 | 292.25984 | 116.76296 | 2.65503  | 0.0990609 | 2.6389755 | 5262 |
| (18676) | 14.9 | 287.40448 | 2.04331   | 77.97789  | 4.91096  | 0.0801029 | 2.6112669 | 5262 |
| (18677) | 12.8 | 97.01491  | 265.37899 | 18.03879  | 9.52984  | 0.1531474 | 2.7490905 | 5262 |
| (18678) | 13.8 | 143.88191 | 123.66765 | 104.24400 | 4.94852  | 0.0616108 | 2.7489224 | 5262 |
| (18679) | 14.5 | 246.90984 | 307.26343 | 254.48124 | 5.12000  | 0.0899806 | 2.2671541 | 5263 |
| (18680) | 15.5 | 339.95748 | 209.16809 | 232.99845 | 6.29170  | 0.0767951 | 2.3655372 | 5263 |
| (18681) | 15.0 | 29.81759  | 172.68844 | 224.53228 | 6.75706  | 0.1026823 | 2.3505746 | 5263 |
| (18682) | 13.6 | 41.51475  | 84.60832  | 242.07732 | 8.45292  | 0.0873983 | 2.9849373 | 5264 |
| (18683) | 13.5 | 119.50136 | 329.71829 | 293.75645 | 7.15619  | 0.1870073 | 3.1137926 | 5264 |
| (18684) | 13.5 | 46.31064  | 99.39689  | 236.65127 | 10.05671 | 0.1130480 | 2.9919622 | 5264 |
| (18685) | 14.5 | 223.58127 | 333.12068 | 217.80919 | 13.25068 | 0.0906638 | 2.5488270 | 5264 |
| (18686) | 13.3 | 92.61412  | 349.04183 | 291.20912 | 3.61345  | 0.0775922 | 2.8138606 | 5265 |
| (18687) | 13.5 | 46.21612  | 113.53190 | 193.92050 | 9.89930  | 0.0927017 | 3.0137928 | 5265 |
| (18688) | 14.2 | 109.06260 | 134.37522 | 120.06870 | 3.32712  | 0.1466149 | 3.1986114 | 5265 |
| (18689) | 14.2 | 47.49578  | 193.31947 | 149.75801 | 2.54828  | 0.0815499 | 2.8346049 | 5266 |
| (18690) | 13.3 | 136.33072 | 182.53425 | 43.71760  | 24.21121 | 0.0611933 | 3.0375338 | 5266 |
| (18691) | 13.6 | 93.02321  | 267.67746 | 12.44160  | 7.68249  | 0.1215223 | 3.1961635 | 5266 |
| (18692) | 13.7 | 102.75037 | 150.24995 | 122.87570 | 11.79922 | 0.0927041 | 3.0654018 | 5267 |
| (18693) | 14.5 | 346.37095 | 327.70925 | 118.81131 | 6.30463  | 0.1227443 | 2.4435928 | 5267 |
| (18694) | 14.3 | 197.74671 | 321.20640 | 236.83107 | 3.88884  | 0.1381903 | 2.7909621 | 5267 |
| (18695) | 14.4 | 349.98937 | 295.62482 | 124.05751 | 4.58015  | 0.0869412 | 2.7791306 | 5267 |
| (18696) | 13.5 | 327.39533 | 195.51775 | 201.80641 | 10.72693 | 0.1115381 | 2.9921281 | 5268 |
| (18697) | 14.4 | 56.85030  | 307.15283 | 11.08086  | 1.19262  | 0.1213883 | 3.1113088 | 5268 |
| (18698) | 15.5 | 298.70814 | 70.59547  | 52.73013  | 2.98857  | 0.1003904 | 2.4229727 | 5268 |
| (18699) | 14.5 | 249.43645 | 173.19651 | 329.06620 | 3.90795  | 0.0286556 | 2.7620974 | 5269 |
| (18700) | 13.8 | 96.74064  | 64.73994  | 220.11843 | 9.86074  | 0.0659407 | 2.9756181 | 5269 |
| (18701) | 13.7 | 42.18419  | 131.14133 | 203.42160 | 6.95753  | 0.0543211 | 3.0189485 | 5269 |
| (18702) | 14.6 | 292.78675 | 131.47845 | 337.24644 | 4.20948  | 0.1822231 | 2.5531617 | 5270 |
| (18703) | 14.1 | 94.67802  | 5.91017   | 272.53158 | 3.27464  | 0.1102854 | 3.2088546 | 5270 |
| (18704) | 14.1 | 353.76201 | 145.59959 | 237.60827 | 6.02702  | 0.0279076 | 3.0603885 | 5270 |
| (18705) | 13.9 | 90.01427  | 249.41034 | 36.23999  | 1.65525  | 0.1240883 | 3.2562599 | 5270 |
| (18706) | 13.4 | 132.23769 | 272.94227 | 336.15102 | 3.28778  | 0.0496878 | 3.0773127 | 5271 |
| (18707) | 14.1 | 280.00610 | 62.70929  | 64.63252  | 6.85564  | 0.1860168 | 2.5561724 | 5271 |
| (18708) | 14.2 | 214.62000 | 142.19825 | 19.55393  | 7.32076  | 0.0638197 | 3.0397695 | 5271 |
| (18709) | 14.7 | 341.23114 | 237.99689 | 198.86306 | 8.24098  | 0.0280962 | 2.6364098 | 5272 |
| (18710) | 13.3 | 227.89064 | 55.94056  | 123.25533 | 4.67245  | 0.1534989 | 2.6703619 | 5272 |
| (18711) | 14.7 | 261.86650 | 297.87417 | 204.87953 | 12.79106 | 0.1150456 | 2.6698156 | 5272 |
| (18712) | 13.6 | 146.61888 | 174.79394 | 87.35099  | 9.30500  | 0.1742462 | 2.7785146 | 5272 |
| (18713) | 13.8 | 60.85523  | 227.32346 | 93.27936  | 10.86895 | 0.0750974 | 3.0599395 | 5273 |
| (18714) | 14.3 | 137.94761 | 149.75713 | 89.70359  | 12.41712 | 0.0984379 | 3.0571759 | 5273 |
| (18715) | 12.9 | 336.58396 | 320.84549 | 85.16994  | 11.74019 | 0.0833524 | 3.0036089 | 5273 |
| (18716) | 13.2 | 28.73300  | 244.39064 | 116.46390 | 10.92098 | 0.0969308 | 3.0286513 | 5274 |
| (18717) | 15.0 | 109.65356 | 52.23367  | 200.91546 | 0.96066  | 0.1248877 | 3.1926222 | 5274 |
| (18718) | 13.2 | 339.66758 | 247.34277 | 160.12520 | 14.57962 | 0.0948633 | 2.6041777 | 5274 |
| (18719) | 13.7 | 151.49724 | 152.29556 | 65.82606  | 11.02128 | 0.0453542 | 2.9788918 | 5274 |
| (18720) | 14.1 | 159.23545 | 346.68701 | 225.83140 | 9.69321  | 0.1624916 | 3.1484550 | 5275 |
| (18721) | 14.0 | 129.53428 | 136.52289 | 106.40282 | 7.19899  | 0.0619777 | 3.1997903 | 5275 |
| (18722) | 13.5 | 49.94526  | 154.72217 | 185.76470 | 2.22195  | 0.0645202 | 3.2008036 | 5275 |
| (18723) | 13.3 | 93.95121  | 229.68109 | 59.84213  | 2.10334  | 0.1329727 | 3.2444894 | 5275 |
| (18724) | 13.0 | 129.50998 | 127.79054 | 122.39771 | 7.38980  | 0.0886637 | 3.1716829 | 5276 |

|         |      |           |           |           |          |           |           |      |         |      |           |           |           |          |           |           |      |
|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|
| (18725) | 12.8 | 333.46712 | 243.95635 | 197.25204 | 8.81707  | 0.1344275 | 2.7601235 | 5276 | (18777) | 15.1 | 78.17207  | 178.92197 | 105.57310 | 4.31807  | 0.1832996 | 2.5621745 | 5292 |
| (18726) | 15.3 | 279.21548 | 290.21553 | 219.74190 | 20.89382 | 0.3144149 | 2.3621440 | 5276 | (18778) | 12.2 | 14.39718  | 52.77420  | 270.08439 | 9.49143  | 0.1008647 | 3.0043140 | 5292 |
| (18727) | 13.7 | 141.45607 | 64.46479  | 180.79483 | 5.37188  | 0.1071193 | 3.1367520 | 5277 | (18779) | 14.8 | 219.66435 | 104.30862 | 37.65786  | 7.31550  | 0.0630883 | 2.3213696 | 5293 |
| (18728) | 13.9 | 281.70365 | 8.01278   | 112.61331 | 5.41962  | 0.1953705 | 2.6940262 | 5277 | (18780) | 15.3 | 26.17638  | 313.98669 | 48.37874  | 4.29664  | 0.1271580 | 2.2296151 | 5293 |
| (18729) | 14.5 | 87.31483  | 220.67205 | 102.89409 | 3.44398  | 0.0836313 | 2.9385628 | 5277 | (18781) | 14.9 | 86.41350  | 86.67914  | 203.14235 | 1.78285  | 0.1743969 | 2.4069030 | 5293 |
| (18730) | 14.3 | 118.11139 | 138.35515 | 149.76856 | 2.91625  | 0.0482379 | 2.9692137 | 5277 | (18782) | 15.6 | 75.31375  | 138.85671 | 161.10466 | 3.84352  | 0.1313253 | 2.3997019 | 5294 |
| (18731) | 12.5 | 241.43059 | 289.73523 | 220.81087 | 8.97888  | 0.0461403 | 3.0356698 | 5278 | (18783) | 15.0 | 51.90853  | 53.24049  | 261.35368 | 0.96325  | 0.1662865 | 2.5946707 | 5294 |
| (18732) | 12.7 | 92.84776  | 70.78343  | 217.60993 | 23.01422 | 0.0961821 | 3.2478606 | 5278 | (18784) | 15.5 | 56.74136  | 34.08048  | 299.67621 | 1.33895  | 0.2159056 | 2.3668469 | 5294 |
| (18733) | 13.7 | 118.40588 | 225.72313 | 68.49736  | 13.52126 | 0.0326865 | 2.8741885 | 5279 | (18785) | 14.2 | 1.90300   | 142.00005 | 240.19075 | 4.06014  | 0.1489568 | 2.2712191 | 5294 |
| (18734) | 14.7 | 299.77941 | 260.92105 | 231.60775 | 11.34665 | 0.1147455 | 2.6481820 | 5279 | (18786) | 14.1 | 241.39198 | 269.16560 | 194.46778 | 4.75010  | 0.1309912 | 2.5181557 | 5295 |
| (18735) | 13.9 | 189.68545 | 242.51962 | 359.94645 | 0.32021  | 0.1473514 | 3.0213474 | 5279 | (18787) | 14.9 | 138.12493 | 156.09763 | 63.37681  | 9.67295  | 0.1995696 | 2.4219851 | 5295 |
| (18736) | 16.1 | 319.18803 | 220.77268 | 298.82104 | 2.85896  | 0.4875986 | 2.3553224 | 5279 | (18788) | 15.3 | 333.84132 | 314.55322 | 82.66574  | 5.58319  | 0.1211535 | 2.3954298 | 5295 |
| (18737) | 14.3 | 153.63318 | 196.16324 | 197.13385 | 8.36587  | 0.1000674 | 2.2821919 | 5280 | (18789) | 15.1 | 91.60232  | 176.96433 | 124.78026 | 3.77802  | 0.1906861 | 2.2876765 | 5296 |
| (18738) | 13.6 | 38.61679  | 309.80389 | 191.45059 | 13.05659 | 0.0994707 | 2.6858145 | 5280 | (18790) | 14.6 | 51.47988  | 166.74156 | 142.03826 | 4.13767  | 0.0704015 | 2.6060258 | 5296 |
| (18739) | 14.7 | 224.37966 | 254.78208 | 76.60621  | 4.73189  | 0.1513935 | 2.2890163 | 5280 | (18791) | 13.8 | 21.51656  | 328.11236 | 37.56093  | 5.69145  | 0.1503926 | 2.3799268 | 5296 |
| (18740) | 14.7 | 210.63509 | 324.37377 | 62.18465  | 1.91253  | 0.2092838 | 2.3411954 | 5281 | (18792) | 13.7 | 126.24686 | 314.61464 | 265.54267 | 11.49553 | 0.1298494 | 2.6829844 | 5297 |
| (18741) | 13.8 | 119.13762 | 251.49241 | 243.85630 | 5.93957  | 0.0884378 | 2.2706828 | 5281 | (18793) | 13.5 | 13.60056  | 267.20008 | 83.57764  | 12.22176 | 0.3015258 | 3.1003993 | 5297 |
| (18742) | 13.9 | 78.12753  | 135.20658 | 30.87137  | 5.69699  | 0.2044377 | 2.6218893 | 5281 | (18794) | 14.6 | 134.63332 | 113.12018 | 125.70035 | 2.07686  | 0.0411313 | 2.3834403 | 5297 |
| (18743) | 12.6 | 133.69478 | 328.31600 | 123.26627 | 19.12423 | 0.1278201 | 3.2177667 | 5282 | (18795) | 14.6 | 145.90054 | 110.07776 | 136.55389 | 4.67760  | 0.0997644 | 2.1812251 | 5297 |
| (18744) | 13.2 | 66.71029  | 280.48779 | 310.71026 | 12.79324 | 0.1486560 | 2.3545870 | 5282 | (18796) | 14.8 | 153.48194 | 160.92700 | 63.80056  | 5.75215  | 0.1574954 | 2.2856710 | 5298 |
| (18745) | 12.6 | 272.30986 | 237.85275 | 166.26157 | 14.97998 | 0.1039680 | 2.6006063 | 5282 | (18797) | 14.6 | 43.80240  | 234.97812 | 106.92975 | 4.20091  | 0.2318485 | 2.5944724 | 5298 |
| (18746) | 15.9 | 48.31513  | 296.40759 | 7.16369   | 4.32241  | 0.2825606 | 2.4393640 | 5282 | (18798) | 14.8 | 55.19816  | 234.03419 | 57.36855  | 5.21500  | 0.2131553 | 2.6721370 | 5298 |
| (18747) | 15.7 | 133.02610 | 296.47576 | 306.60732 | 3.31488  | 0.1207829 | 2.1690199 | 5283 | (18799) | 13.8 | 77.18703  | 201.67269 | 70.36259  | 10.24181 | 0.2448406 | 2.7390644 | 5299 |
| (18748) | 15.0 | 193.56793 | 113.98720 | 62.46980  | 7.46221  | 0.0166667 | 2.2031060 | 5283 | (18800) | 14.3 | 24.71354  | 238.55814 | 93.75453  | 5.17924  | 0.1022761 | 2.6911773 | 5299 |
| (18749) | 16.5 | 160.67093 | 290.61423 | 250.30079 | 3.91588  | 0.0955825 | 2.2178753 | 5283 | (18801) | 14.3 | 93.02446  | 163.28696 | 125.92820 | 6.85386  | 0.1405147 | 2.3772024 | 5299 |
| (18750) | 15.0 | 65.17350  | 195.45412 | 100.52444 | 5.63368  | 0.2351888 | 2.6053354 | 5284 | (18802) | 14.4 | 78.75857  | 73.24765  | 212.78710 | 11.72581 | 0.1567600 | 2.6871977 | 5300 |
| (18751) | 14.7 | 82.81341  | 328.45952 | 343.90906 | 4.64123  | 0.2509728 | 2.2289711 | 5284 | (18803) | 14.4 | 137.22698 | 125.23797 | 110.29789 | 6.04390  | 0.1315970 | 2.2825208 | 5300 |
| (18752) | 16.0 | 88.59029  | 164.09247 | 111.65771 | 3.66271  | 0.1356669 | 2.1882768 | 5284 | (18804) | 13.7 | 48.17891  | 220.28284 | 114.19263 | 7.49255  | 0.1150576 | 2.3604198 | 5300 |
| (18753) | 13.5 | 39.96747  | 275.43105 | 20.46050  | 8.40362  | 0.2736980 | 2.7422374 | 5284 | (18805) | 14.7 | 113.48835 | 108.74675 | 163.14317 | 7.45357  | 0.0417092 | 2.2329047 | 5300 |
| (18754) | 13.5 | 68.61764  | 252.01717 | 39.39698  | 7.27972  | 0.1135043 | 2.3948776 | 5285 | (18806) | 14.4 | 105.26563 | 83.09219  | 161.01356 | 4.96781  | 0.1085194 | 2.7460010 | 5301 |
| (18755) | 15.2 | 118.63382 | 143.60813 | 101.87514 | 7.08424  | 0.0799570 | 2.2505664 | 5285 | (18807) | 14.1 | 354.68725 | 217.61178 | 171.38060 | 26.52444 | 0.1894493 | 2.3679281 | 5301 |
| (18756) | 15.4 | 68.74527  | 108.68485 | 193.66710 | 5.69852  | 0.1864815 | 2.1758555 | 5285 | (18808) | 14.1 | 151.22120 | 38.95986  | 173.58498 | 10.33105 | 0.0617124 | 2.5415218 | 5301 |
| (18757) | 14.6 | 56.25254  | 108.27417 | 210.03603 | 1.76865  | 0.2026399 | 2.4494996 | 5286 | (18809) | 15.5 | 149.86099 | 83.03439  | 111.92004 | 2.23100  | 0.1271537 | 2.4007175 | 5302 |
| (18758) | 14.9 | 354.41003 | 247.39245 | 129.07594 | 5.73775  | 0.1847607 | 2.1883083 | 5286 | (18810) | 13.9 | 216.26199 | 338.15573 | 135.24282 | 13.80251 | 0.1263815 | 2.6758898 | 5302 |
| (18759) | 15.1 | 62.31503  | 306.45145 | 14.46337  | 4.75591  | 0.2429281 | 2.3389523 | 5286 | (18811) | 14.4 | 65.31256  | 226.79781 | 77.14276  | 9.73921  | 0.2495353 | 2.8043042 | 5302 |
| (18760) | 15.0 | 41.75642  | 260.51165 | 72.43396  | 2.29455  | 0.1903327 | 2.4047565 | 5287 | (18812) | 14.3 | 73.97730  | 77.59002  | 238.43247 | 6.20494  | 0.1243845 | 2.3695974 | 5302 |
| (18761) | 15.0 | 93.68911  | 211.84300 | 37.89151  | 0.41111  | 0.1891460 | 2.4279048 | 5287 | (18813) | 13.0 | 140.59038 | 32.27489  | 213.01824 | 13.00630 | 0.1363337 | 2.5925941 | 5303 |
| (18762) | 15.3 | 32.75827  | 45.06933  | 304.13111 | 1.98051  | 0.1879057 | 2.1247225 | 5287 | (18814) | 14.8 | 165.31812 | 48.27646  | 202.41011 | 4.72285  | 0.1092520 | 2.2773189 | 5303 |
| (18763) | 14.6 | 120.10090 | 68.60033  | 169.26373 | 12.91792 | 0.1404415 | 2.5422530 | 5287 | (18815) | 13.5 | 90.26792  | 43.95267  | 192.39907 | 9.51578  | 0.0862222 | 3.1539953 | 5303 |
| (18764) | 13.4 | 111.51492 | 154.47892 | 105.93760 | 24.78544 | 0.1794155 | 2.3329926 | 5288 | (18816) | 13.3 | 42.58196  | 80.54367  | 270.45911 | 9.66200  | 0.1870623 | 2.5768131 | 5304 |
| (18765) | 14.6 | 128.47779 | 79.24391  | 216.08041 | 4.27131  | 0.2087964 | 2.2367110 | 5288 | (18817) | 15.1 | 337.14121 | 332.19645 | 112.81809 | 2.84335  | 0.1709628 | 2.3551437 | 5304 |
| (18766) | 15.0 | 60.16699  | 0.98054   | 290.11736 | 1.08896  | 0.1076070 | 2.5330964 | 5288 | (18818) | 13.9 | 188.14516 | 87.01466  | 130.04983 | 6.08294  | 0.1358451 | 2.2860939 | 5304 |
| (18767) | 15.0 | 328.56980 | 39.60562  | 1.01991   | 5.50926  | 0.1123658 | 2.1713166 | 5289 | (18819) | 13.8 | 333.85533 | 158.99299 | 280.90326 | 3.28592  | 0.0907804 | 2.7006273 | 5304 |
| (18768) | 15.4 | 139.26138 | 243.79623 | 336.47503 | 4.60746  | 0.1287237 | 2.3242780 | 5289 | (18820) | 13.0 | 153.81822 | 93.54043  | 145.18421 | 9.62578  | 0.1000538 | 2.7968942 | 5305 |
| (18769) | 12.4 | 60.99660  | 237.79965 | 28.21103  | 13.73611 | 0.1317330 | 2.9733840 | 5289 | (18821) | 14.1 | 18.11064  | 230.75127 | 160.76602 | 2.35453  | 0.1079044 | 2.9425738 | 5305 |
| (18770) | 14.9 | 90.92329  | 298.14921 | 2.24975   | 2.16551  | 0.1782168 | 2.2061196 | 5290 | (18822) | 14.6 | 159.05753 | 88.48722  | 121.70688 | 11.74446 | 0.0522467 | 2.9682197 | 5305 |
| (18771) | 15.4 | 44.13082  | 120.09507 | 209.03560 | 2.14075  | 0.1885515 | 2.4014723 | 5290 | (18823) | 14.6 | 238.00543 | 125.80586 | 29.49786  | 2.64024  | 0.1458790 | 2.4173798 | 5306 |
| (18772) | 15.1 | 22.34971  | 6.84227   | 1.45094   | 2.84137  | 0.1345016 | 2.1665051 | 5290 | (18824) | 15.1 | 179.55711 | 350.31453 | 221.83697 | 1.89104  | 0.1628438 | 2.3855616 | 5306 |
| (18773) | 15.2 | 104.36232 | 219.07436 | 53.29584  | 0.98291  | 0.0685570 | 2.2559520 | 5291 | (18825) | 15.1 | 82.55514  | 28.02972  | 276.14527 | 2.65574  | 0.0681203 | 2.8024109 | 5306 |
| (18774) | 14.7 | 136.78065 | 202.84181 | 16.89796  | 2.80477  | 0.1192863 | 2.4037226 | 5291 | (18826) | 14.8 | 341.05907 | 3.14250   | 76.77291  | 2.88714  | 0.1742150 | 2.4190687 | 5306 |
| (18775) | 14.8 | 63.03881  | 24.29005  | 288.11267 | 3.05752  | 0.0949208 | 2.3422359 | 5291 | (18827) | 12.7 | 38.31131  | 239.19966 | 107.30990 | 15.18215 | 0.1090854 | 3.0581564 | 5307 |
| (18776) | 14.8 | 12.09573  | 39.81143  | 333.90700 | 1.05417  | 0.1692256 | 2.2428619 | 5292 | (18828) | 13.7 | 83.80928  | 206.02540 | 77.77416  | 1.94668  | 0.1147939 | 3.2494120 | 5307 |

|         |      |           |           |           |          |           |           |      |
|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|
| (18829) | 13.6 | 301.06784 | 337.37482 | 119.39337 | 10.30519 | 0.1223990 | 2.7785159 | 5307 |
| (18830) | 14.8 | 263.33588 | 224.51664 | 291.26782 | 2.76761  | 0.1166093 | 2.2502165 | 5307 |
| (18831) | 13.2 | 200.85957 | 236.46298 | 303.56144 | 9.71573  | 0.0572772 | 2.9984546 | 5308 |
| (18832) | 13.7 | 135.74815 | 269.29934 | 341.13118 | 10.16250 | 0.1185567 | 2.9890032 | 5308 |
| (18833) | 13.6 | 146.69802 | 34.36550  | 210.27477 | 11.21370 | 0.1420442 | 2.6727981 | 5308 |
| (18834) | 15.2 | 130.51706 | 40.90181  | 243.97667 | 13.20768 | 0.0594598 | 2.5749513 | 5308 |
| (18835) | 11.9 | 139.11664 | 3.23784   | 264.63385 | 12.07231 | 0.1336665 | 2.6434147 | 5309 |
| (18836) | 15.3 | 218.77462 | 296.87767 | 261.86886 | 3.79097  | 0.0812131 | 2.2229073 | 5309 |
| (18837) | 14.5 | 344.04908 | 192.52555 | 258.29825 | 12.53157 | 0.1926004 | 2.4443902 | 5309 |
| (18838) | 14.5 | 26.39590  | 169.24376 | 216.99541 | 1.28340  | 0.0838927 | 2.8677539 | 5310 |
| (18839) | 14.6 | 59.23214  | 248.46443 | 73.30684  | 10.61109 | 0.0753696 | 2.9838811 | 5310 |
| (18840) | 14.0 | 331.71659 | 213.88903 | 263.88800 | 2.63186  | 0.0099793 | 2.3891859 | 5310 |
| (18841) | 13.0 | 47.78523  | 69.83579  | 36.21922  | 15.39644 | 0.0785031 | 2.5868906 | 5310 |
| (18842) | 13.0 | 254.17455 | 167.88886 | 13.42782  | 8.74254  | 0.0601389 | 2.7719993 | 5311 |
| (18843) | 14.3 | 338.03697 | 62.81972  | 46.44641  | 1.50172  | 0.1731483 | 3.0043581 | 5311 |
| (18844) | 13.5 | 352.04738 | 80.69093  | 356.67908 | 15.25940 | 0.1109936 | 3.2295055 | 5311 |
| (18845) | 12.7 | 193.56568 | 228.29791 | 353.30411 | 12.57226 | 0.1218998 | 2.6411741 | 5312 |
| (18846) | 12.9 | 96.40127  | 142.60851 | 165.03653 | 15.59746 | 0.0399606 | 2.6596852 | 5312 |
| (18847) | 12.9 | 64.66164  | 0.40781   | 357.01195 | 8.12114  | 0.0831083 | 3.1705613 | 5313 |
| (18848) | 12.7 | 109.79820 | 161.56448 | 155.60442 | 23.92519 | 0.1271621 | 2.7894853 | 5313 |
| (18849) | 13.6 | 74.74602  | 200.08023 | 115.71625 | 2.82954  | 0.0893555 | 3.2603749 | 5313 |
| (18850) | 12.8 | 260.76925 | 226.29262 | 292.79124 | 1.34993  | 0.0896981 | 3.1195327 | 5314 |
| (18851) | 14.3 | 277.17587 | 264.92150 | 272.65523 | 3.58618  | 0.1689152 | 2.3782160 | 5314 |
| (18852) | 13.0 | 116.38423 | 235.41795 | 57.13484  | 1.45927  | 0.1427734 | 3.2022350 | 5314 |
| (18853) | 13.7 | 14.41687  | 270.62178 | 154.85231 | 3.93383  | 0.1077067 | 3.0588273 | 5314 |
| (18854) | 14.0 | 191.94148 | 1.62310   | 207.36112 | 12.82076 | 0.0801119 | 2.9688790 | 5315 |
| (18855) | 14.3 | 129.37380 | 61.64382  | 218.34289 | 4.51366  | 0.1712410 | 2.4386870 | 5315 |
| (18856) | 13.7 | 181.91731 | 313.75734 | 258.36648 | 4.44894  | 0.1967391 | 2.5354084 | 5315 |
| (18857) | 14.5 | 355.58310 | 158.87297 | 284.46117 | 5.89652  | 0.0747436 | 2.3355452 | 5316 |
| (18858) | 14.4 | 215.38403 | 288.58089 | 262.89465 | 9.97858  | 0.1308333 | 2.5585052 | 5316 |
| (18859) | 13.9 | 215.59203 | 221.75848 | 324.81724 | 5.76023  | 0.1236901 | 2.8609230 | 5316 |
| (18860) | 13.0 | 227.92924 | 331.77175 | 198.60039 | 12.74889 | 0.1005202 | 3.2257455 | 5317 |
| (18861) | 14.7 | 189.71330 | 119.54647 | 110.78700 | 6.63498  | 0.1227398 | 2.5805687 | 5317 |
| (18862) | 15.5 | 293.06065 | 71.13913  | 88.64581  | 1.85128  | 0.1491135 | 2.4575896 | 5317 |
| (18863) | 12.9 | 73.13838  | 359.41012 | 331.10998 | 12.51593 | 0.1731579 | 2.6710559 | 5317 |
| (18864) | 13.3 | 335.79087 | 237.44867 | 203.46555 | 15.51710 | 0.1193960 | 3.1393980 | 5318 |
| (18865) | 13.0 | 15.31384  | 144.95559 | 277.14059 | 9.59764  | 0.0564043 | 3.0633634 | 5318 |
| (18866) | 14.2 | 197.68825 | 10.65483  | 237.42913 | 11.65837 | 0.1554622 | 2.4288363 | 5318 |
| (18867) | 13.5 | 258.60453 | 309.64459 | 225.95091 | 12.21817 | 0.1287741 | 2.7067233 | 5319 |
| (18868) | 13.0 | 18.96228  | 306.86368 | 116.48013 | 12.75168 | 0.0447209 | 3.2131973 | 5319 |
| (18869) | 13.4 | 262.73435 | 141.96328 | 52.50708  | 16.37283 | 0.2327980 | 2.8630116 | 5319 |
| (18870) | 14.3 | 275.87106 | 255.67706 | 287.03518 | 3.70824  | 0.1502386 | 2.5517010 | 5319 |
| (18871) | 12.4 | 319.21492 | 321.61107 | 218.16637 | 11.91364 | 0.1080367 | 2.6671117 | 5320 |
| (18872) | 13.9 | 250.25889 | 15.23939  | 223.05552 | 14.24671 | 0.0709564 | 2.5950773 | 5320 |
| (18873) | 15.6 | 156.35973 | 189.27307 | 118.17988 | 9.21697  | 0.2126402 | 2.4057572 | 5320 |
| (18874) | 15.5 | 118.46179 | 273.55925 | 103.67273 | 4.47105  | 0.1067735 | 2.2726555 | 5321 |
| (18875) | 14.1 | 253.97167 | 151.57043 | 32.60397  | 2.95470  | 0.1140552 | 3.1144472 | 5321 |
| (18876) | 14.1 | 78.14811  | 356.78927 | 75.72280  | 8.84731  | 0.2424212 | 2.4119292 | 5321 |
| (18877) | 13.5 | 74.56265  | 19.69236  | 66.10007  | 7.97437  | 0.2527379 | 2.5607009 | 5322 |
| (18878) | 14.3 | 169.91503 | 282.74640 | 37.71440  | 5.02692  | 0.1391222 | 2.1914349 | 5322 |
| (18879) | 13.4 | 138.20374 | 135.14857 | 200.24304 | 13.55680 | 0.2090382 | 2.6642400 | 5322 |
| (18880) | 14.3 | 57.20374  | 30.53377  | 20.05496  | 9.66088  | 0.1915964 | 3.1957095 | 5323 |

|         |      |           |           |           |          |           |           |      |
|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|
| (18881) | 12.6 | 278.68573 | 291.38376 | 311.52787 | 14.25350 | 0.0953442 | 2.5645067 | 5323 |
| (18882) | 16.3 | 44.93499  | 242.65086 | 291.77625 | 36.81898 | 0.2315954 | 1.6852377 | 5323 |
| (18883) | 13.7 | 130.31543 | 44.72798  | 316.20957 | 8.56964  | 0.1068153 | 3.0614422 | 5323 |
| (18884) | 13.3 | 221.91594 | 27.34041  | 284.74692 | 12.28760 | 0.2021812 | 2.5813598 | 5324 |
| (18885) | 15.0 | 155.25735 | 189.54070 | 177.71075 | 3.51687  | 0.1612188 | 2.1924750 | 5324 |
| (18886) | 13.8 | 81.76698  | 178.30656 | 317.77473 | 14.03109 | 0.0882839 | 2.6065576 | 5324 |
| (18887) | 14.5 | 186.01696 | 162.84702 | 180.05256 | 6.70803  | 0.1685697 | 2.3032822 | 5325 |
| (18888) | 13.6 | 195.53906 | 179.50870 | 131.35148 | 0.25511  | 0.2608220 | 3.2303482 | 5325 |
| (18889) | 13.1 | 86.28713  | 112.12535 | 27.97966  | 11.89527 | 0.1387845 | 2.6523042 | 5325 |
| (18890) | 14.4 | 154.91437 | 265.69753 | 184.51597 | 22.97287 | 0.0738904 | 1.9172154 | 5325 |
| (18891) | 15.4 | 224.00421 | 16.04477  | 349.62187 | 3.83636  | 0.1186307 | 2.4255706 | 5326 |
| (18892) | 13.9 | 352.80033 | 200.26292 | 80.36384  | 13.29983 | 0.1731858 | 2.6681186 | 5326 |
| (18893) | 13.3 | 73.18555  | 120.76609 | 20.69504  | 16.39318 | 0.0658403 | 3.1767847 | 5326 |
| (18894) | 14.0 | 108.52090 | 101.66261 | 4.94195   | 4.94982  | 0.1347699 | 3.1186164 | 5327 |
| (18895) | 11.6 | 125.77842 | 265.19131 | 190.04985 | 18.35364 | 0.1630066 | 3.2188212 | 5327 |
| (18896) | 13.5 | 170.61543 | 42.54110  | 49.60417  | 10.88840 | 0.0710580 | 2.3523981 | 5327 |
| (18897) | 11.9 | 328.95771 | 191.49820 | 101.34371 | 15.04447 | 0.1395281 | 2.6211633 | 5328 |
| (18898) | 12.5 | 167.01580 | 285.62857 | 112.36536 | 26.29341 | 0.3134571 | 3.1803449 | 5328 |
| (18899) | 14.6 | 340.12489 | 110.02422 | 222.09410 | 22.64328 | 0.3744914 | 2.2999601 | 5328 |
| (18900) | 12.5 | 39.27657  | 5.61011   | 260.25551 | 16.51772 | 0.1611790 | 3.0902985 | 5329 |
| (18901) | 12.4 | 325.92612 | 162.32156 | 239.53741 | 21.79107 | 0.1114626 | 3.0908767 | 5329 |
| (18902) | 13.5 | 21.33079  | 342.83137 | 341.43191 | 8.77084  | 0.1523674 | 2.7728681 | 5329 |
| (18903) | 13.3 | 4.59240   | 147.32302 | 164.98952 | 9.27250  | 0.1973481 | 2.5581548 | 5329 |
| (18904) | 14.6 | 355.91887 | 64.24722  | 316.09099 | 1.44318  | 0.2199525 | 2.3840060 | 5330 |
| (18905) | 15.4 | 315.88672 | 191.05362 | 173.60440 | 1.54937  | 0.1070615 | 2.2826865 | 5330 |
| (18906) | 14.3 | 357.74816 | 79.87571  | 249.23786 | 3.71263  | 0.2922552 | 2.4383117 | 5330 |
| (18907) | 14.6 | 356.59895 | 31.86909  | 345.41411 | 6.25185  | 0.1369720 | 2.4029340 | 5331 |
| (18908) | 14.8 | 33.88114  | 272.37530 | 49.94292  | 2.83771  | 0.2196851 | 2.4501816 | 5331 |
| (18909) | 13.9 | 327.97567 | 236.99905 | 182.54370 | 6.10283  | 0.1878547 | 3.1384336 | 5331 |
| (18910) | 14.3 | 18.39394  | 221.71713 | 131.76399 | 3.84609  | 0.1733490 | 2.2228276 | 5332 |
| (18911) | 13.3 | 16.25830  | 139.09686 | 154.94273 | 18.49113 | 0.0977589 | 3.0750496 | 5332 |
| (18912) | 14.4 | 286.34716 | 238.92892 | 180.91360 | 8.97520  | 0.1506818 | 2.8135364 | 5332 |
| (18913) | 13.8 | 265.93078 | 270.68275 | 175.96999 | 8.73901  | 0.2011936 | 2.7588605 | 5332 |
| (18914) | 14.6 | 9.98033   | 202.44360 | 155.18444 | 13.29840 | 0.2016630 | 2.5719478 | 5333 |
| (18915) | 13.9 | 236.58767 | 232.58124 | 230.94799 | 14.43271 | 0.1557931 | 3.0381946 | 5333 |
| (18916) | 14.3 | 348.14534 | 96.84398  | 302.90947 | 7.32620  | 0.5808866 | 3.8758028 | 5333 |
| (18917) | 13.9 | 294.70900 | 274.87541 | 176.97213 | 11.45564 | 0.1615418 | 2.3548286 | 5334 |
| (18918) | 14.5 | 44.02253  | 247.14761 | 58.00511  | 6.32823  | 0.1846627 | 2.2686726 | 5334 |
| (18919) | 15.4 | 21.64695  | 331.75938 | 346.19125 | 7.18106  | 0.4294017 | 2.5784075 | 5334 |
| (18920) | 14.1 | 7.12942   | 326.65653 | 47.70931  | 4.83892  | 0.2114019 | 2.4397084 | 5335 |
| (18921) | 13.0 | 325.16770 | 284.65143 | 123.74142 | 11.65064 | 0.0965096 | 2.9954370 | 5335 |
| (18922) | 12.7 | 289.02486 | 175.85281 | 278.91371 | 12.33264 | 0.1345142 | 2.5904651 | 5335 |
| (18923) | 15.0 | 77.50810  | 214.90281 | 19.39536  | 6.77593  | 0.1695187 | 2.3026571 | 5336 |
| (18924) | 15.1 | 51.95357  | 132.70558 | 151.98424 | 6.74689  | 0.1285613 | 2.3778407 | 5336 |
| (18925) | 13.7 | 345.35098 | 117.50270 | 271.36180 | 11.47133 | 0.0420810 | 2.8128864 | 5336 |
| (18926) | 15.8 | 35.30022  | 160.52474 | 169.20160 | 4.10497  | 0.1070704 | 2.2043323 | 5336 |
| (18927) | 14.0 | 353.77419 | 145.28631 | 237.56136 | 10.66533 | 0.0632883 | 2.7354207 | 5337 |
| (18928) | 13.5 | 325.48568 | 56.52296  | 318.43410 | 9.76720  | 0.1103983 | 3.0185350 | 5337 |
| (18929) | 15.2 | 266.20050 | 85.64200  | 8.56102   | 21.68080 | 0.0911867 | 1.9199943 | 5337 |
| (18930) | 14.6 | 187.08078 | 144.18983 | 19.08854  | 2.01201  | 0.0067624 | 2.8386918 | 5337 |
| (18931) | 14.6 | 323.32453 | 283.06715 | 118.96439 | 8.28520  | 0.2740519 | 2.9242490 | 5338 |
| (18932) | 15.2 | 22.83182  | 275.22333 | 37.46195  | 2.58464  | 0.2346687 | 2.3500979 | 5338 |

|         |      |           |           |           |          |           |           |      |         |      |           |           |           |          |           |           |      |
|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|
| (18933) | 15.3 | 312.84859 | 166.58032 | 233.96258 | 1.13519  | 0.2038034 | 2.3571347 | 5338 | (18985) | 15.2 | 66.12385  | 299.38700 | 318.99498 | 4.91787  | 0.2734376 | 2.3478466 | 5353 |
| (18934) | 14.7 | 300.45861 | 154.65801 | 245.66865 | 2.72626  | 0.1064176 | 3.2197016 | 5339 | (18986) | 14.4 | 186.76973 | 303.49077 | 232.83444 | 3.74042  | 0.2060409 | 2.6799073 | 5353 |
| (18935) | 15.4 | 320.59544 | 220.19636 | 166.86881 | 2.88448  | 0.1519407 | 2.2169387 | 5339 | (18987) | 16.2 | 343.06986 | 100.15417 | 284.70511 | 1.36518  | 0.1706859 | 2.2231944 | 5353 |
| (18936) | 13.5 | 83.30132  | 268.27316 | 333.99009 | 9.85584  | 0.0732181 | 2.9815905 | 5339 | (18988) | 14.1 | 175.43080 | 354.74587 | 194.05144 | 12.27991 | 0.1127354 | 2.6960595 | 5354 |
| (18937) | 14.0 | 118.56233 | 244.47535 | 327.02255 | 9.59325  | 0.0486154 | 2.9652316 | 5339 | (18989) | 12.6 | 317.69474 | 187.89090 | 227.53302 | 10.85025 | 0.1698724 | 2.9779554 | 5354 |
| (18938) | 14.9 | 329.70063 | 27.00493  | 351.74568 | 3.91815  | 0.1520390 | 2.7085771 | 5340 | (18990) | 13.8 | 211.17841 | 187.11207 | 331.11554 | 9.52725  | 0.0572385 | 3.0160565 | 5354 |
| (18939) | 14.2 | 137.73497 | 330.61264 | 224.02923 | 0.14473  | 0.1113726 | 3.1171537 | 5340 | (18991) | 15.0 | 192.57738 | 203.38675 | 337.52235 | 5.00809  | 0.0719575 | 2.2768867 | 5355 |
| (18940) | 11.4 | 347.49303 | 221.00439 | 133.65881 | 3.69695  | 0.0739222 | 5.3015851 | 5340 | (18992) | 14.1 | 294.42010 | 148.45772 | 284.38874 | 8.68510  | 0.0169533 | 2.9827182 | 5355 |
| (18941) | 13.9 | 232.96902 | 338.56118 | 140.46029 | 6.01780  | 0.1195700 | 3.1331987 | 5340 | (18993) | 12.5 | 342.52807 | 125.80614 | 268.25314 | 7.61178  | 0.0861301 | 2.9885420 | 5355 |
| (18942) | 13.7 | 47.18918  | 298.35069 | 350.55297 | 14.83238 | 0.0620259 | 2.6525706 | 5341 | (18994) | 14.9 | 20.44881  | 327.30729 | 35.71386  | 7.42150  | 0.1527796 | 2.3696688 | 5355 |
| (18943) | 14.6 | 308.63441 | 38.76454  | 4.81032   | 6.43278  | 0.1197835 | 2.3954820 | 5341 | (18995) | 15.4 | 29.95621  | 226.02836 | 113.26440 | 2.30705  | 0.2033929 | 2.4278584 | 5356 |
| (18944) | 14.5 | 3.45269   | 230.53187 | 114.36520 | 3.45296  | 0.0891167 | 3.0712815 | 5341 | (18996) | 11.9 | 262.22919 | 227.97847 | 241.46407 | 20.55071 | 0.0361465 | 3.1986260 | 5356 |
| (18945) | 15.0 | 93.99199  | 3.81667   | 216.87670 | 2.56636  | 0.2067430 | 2.4220258 | 5342 | (18997) | 14.6 | 89.02332  | 169.11011 | 144.32239 | 2.81221  | 0.0855943 | 2.5668341 | 5356 |
| (18946) | 14.4 | 329.48232 | 47.07647  | 341.15335 | 0.52272  | 0.1740083 | 3.0491895 | 5342 | (18998) | 13.9 | 62.99809  | 31.38238  | 285.58353 | 7.37503  | 0.1339562 | 2.3514057 | 5357 |
| (18947) | 15.2 | 232.45873 | 157.00540 | 328.36284 | 1.99648  | 0.1405479 | 2.3905535 | 5342 | (18999) | 14.1 | 348.05858 | 336.24859 | 69.05651  | 5.41471  | 0.2054576 | 2.8033356 | 5357 |
| (18948) | 14.5 | 342.09946 | 28.82080  | 346.75633 | 1.80711  | 0.1150686 | 2.6343905 | 5342 | (19000) | 13.1 | 2.90078   | 97.67368  | 271.16206 | 7.79057  | 0.1754504 | 2.7663625 | 5357 |
| (18949) | 14.1 | 109.58310 | 46.90122  | 176.49894 | 6.85713  | 0.0684288 | 2.2983423 | 5343 | (19001) | 13.1 | 231.65266 | 172.72814 | 340.76260 | 11.95092 | 0.0305728 | 2.6915656 | 5357 |
| (18950) | 14.8 | 335.79606 | 21.47061  | 4.09890   | 5.04282  | 0.0613670 | 2.7387280 | 5343 | (19002) | 15.1 | 45.24031  | 279.71614 | 72.55655  | 7.38807  | 0.1267818 | 2.3951079 | 5358 |
| (18951) | 15.2 | 313.53871 | 319.05765 | 105.18329 | 3.15938  | 0.2158746 | 2.4658206 | 5343 | (19003) | 14.4 | 342.37243 | 239.02779 | 196.72350 | 3.59063  | 0.0820738 | 2.7998052 | 5358 |
| (18952) | 11.8 | 107.06450 | 177.96022 | 77.18749  | 9.64527  | 0.0396063 | 3.0332226 | 5343 | (19004) | 15.9 | 1.04406   | 128.32028 | 190.81143 | 1.56143  | 0.1751278 | 2.2291489 | 5358 |
| (18953) | 15.3 | 329.76364 | 350.71412 | 38.07963  | 2.39269  | 0.0902963 | 2.7105725 | 5344 | (19005) | 14.6 | 62.97194  | 68.95171  | 225.08643 | 1.17795  | 0.0436095 | 2.8632622 | 5359 |
| (18954) | 14.3 | 95.27531  | 330.04607 | 274.85280 | 5.09453  | 0.1500463 | 2.2353621 | 5344 | (19006) | 14.1 | 282.36519 | 306.58946 | 166.00567 | 11.84243 | 0.1437908 | 2.6391012 | 5359 |
| (18955) | 13.2 | 80.35740  | 73.52926  | 202.77843 | 16.54483 | 0.0851863 | 3.0064282 | 5344 | (19007) | 15.1 | 18.95160  | 301.75642 | 359.35455 | 5.08864  | 0.1598024 | 2.2662217 | 5359 |
| (18956) | 15.7 | 327.57194 | 293.14277 | 111.19033 | 3.43209  | 0.1409337 | 2.2715903 | 5345 | (19008) | 14.3 | 310.55354 | 0.02562   | 63.15461  | 2.85566  | 0.0523258 | 2.9056206 | 5359 |
| (18957) | 14.6 | 37.46123  | 301.10872 | 31.28560  | 5.78338  | 0.1544005 | 2.2207144 | 5345 | (19009) | 14.2 | 6.28822   | 3.11889   | 12.67601  | 7.19888  | 0.1633442 | 2.6900309 | 5360 |
| (18958) | 11.9 | 48.60156  | 284.01964 | 48.41822  | 14.15424 | 0.1713911 | 3.4140822 | 5345 | (19010) | 13.0 | 327.16505 | 217.78425 | 211.95840 | 21.08554 | 0.0439170 | 3.2035727 | 5360 |
| (18959) | 13.4 | 270.68255 | 239.33173 | 206.32468 | 9.29775  | 0.0578489 | 3.5016584 | 5345 | (19011) | 15.4 | 84.00884  | 91.07211  | 204.30756 | 24.62718 | 0.0392379 | 1.9314311 | 5360 |
| (18960) | 13.9 | 19.77560  | 9.95288   | 19.89640  | 5.90335  | 0.1570045 | 2.2942724 | 5346 | (19012) | 13.0 | 267.74637 | 165.59218 | 335.93620 | 12.50215 | 0.0903954 | 2.6112163 | 5361 |
| (18961) | 15.4 | 312.75833 | 49.48995  | 18.25927  | 2.47087  | 0.1887508 | 2.3957098 | 5346 | (19013) | 13.6 | 65.91513  | 275.75414 | 9.96132   | 6.81637  | 0.1865704 | 2.5618055 | 5361 |
| (18962) | 15.4 | 89.21480  | 241.39209 | 20.39948  | 1.64799  | 0.0978216 | 2.1336838 | 5346 | (19014) | 13.7 | 332.70702 | 341.89288 | 80.93170  | 5.22670  | 0.0924731 | 2.7983788 | 5361 |
| (18963) | 13.3 | 161.83641 | 30.72007  | 167.96522 | 8.32124  | 0.1549985 | 2.7881817 | 5347 | (19015) | 13.8 | 26.98644  | 173.16865 | 179.35455 | 9.34395  | 0.1630079 | 2.7926592 | 5361 |
| (18964) | 14.8 | 307.93375 | 275.38282 | 157.53445 | 2.84985  | 0.1616121 | 2.4617178 | 5347 | (19016) | 13.6 | 12.16987  | 149.07605 | 212.66677 | 10.78066 | 0.0743774 | 2.7450880 | 5362 |
| (18965) | 14.5 | 74.07267  | 192.58984 | 91.16680  | 2.54943  | 0.0541182 | 2.2748298 | 5347 | (19017) | 15.3 | 234.12966 | 246.70316 | 237.74982 | 1.00783  | 0.0323784 | 2.8946858 | 5362 |
| (18966) | 16.0 | 80.68745  | 216.65080 | 38.22900  | 4.74299  | 0.2017966 | 2.2393335 | 5348 | (19018) | 11.3 | 12.89396  | 121.98845 | 231.31463 | 27.77055 | 0.1009357 | 5.1610273 | 5362 |
| (18967) | 13.8 | 63.16880  | 42.86245  | 271.74224 | 8.03159  | 0.1541002 | 2.7710323 | 5348 | (19019) | 14.5 | 349.13178 | 161.90258 | 220.24853 | 4.87252  | 0.1783921 | 2.5460547 | 5363 |
| (18968) | 13.8 | 121.36754 | 33.83536  | 173.87377 | 8.18383  | 0.0355353 | 3.2458570 | 5348 | (19020) | 10.4 | 37.16736  | 223.48130 | 93.23264  | 17.09828 | 0.1122395 | 5.2235264 | 5363 |
| (18969) | 15.5 | 124.44988 | 320.19144 | 242.90700 | 2.78572  | 0.0875616 | 2.2864927 | 5348 | (19021) | 13.6 | 318.82912 | 286.50878 | 182.36186 | 46.63424 | 0.3049857 | 2.6792362 | 5363 |
| (18970) | 15.5 | 141.58288 | 276.76199 | 282.90939 | 3.50714  | 0.1050719 | 2.4117368 | 5348 | (19022) | 15.1 | 315.94686 | 60.38615  | 11.50057  | 2.18455  | 0.0837709 | 2.5360890 | 5364 |
| (18971) | 11.7 | 116.12407 | 42.64675  | 190.03772 | 14.01187 | 0.1178996 | 5.2269730 | 5349 | (19023) | 14.5 | 260.19648 | 333.36973 | 156.12043 | 2.56763  | 0.1499333 | 2.6597200 | 5364 |
| (18972) | 12.8 | 339.06787 | 334.34572 | 40.78631  | 6.15319  | 0.2157661 | 3.1788540 | 5349 | (19024) | 13.3 | 13.87228  | 335.39506 | 22.10431  | 2.91397  | 0.1305756 | 3.0773051 | 5364 |
| (18973) | 15.1 | 244.96860 | 345.29734 | 114.27570 | 5.72285  | 0.0446589 | 2.7382092 | 5349 | (19025) | 14.8 | 162.24531 | 40.19801  | 173.56464 | 6.41742  | 0.0863310 | 2.4398728 | 5364 |
| (18974) | 16.1 | 1.99652   | 237.10735 | 111.83112 | 3.79133  | 0.1660498 | 2.4272884 | 5350 | (19026) | 13.2 | 253.58971 | 252.95920 | 235.22580 | 1.74085  | 0.0482425 | 3.0700648 | 5365 |
| (18975) | 14.5 | 243.99862 | 319.31655 | 148.61200 | 15.73499 | 0.0757476 | 2.6690548 | 5350 | (19027) | 13.4 | 283.15168 | 83.61791  | 23.57074  | 10.59692 | 0.0741350 | 2.9776259 | 5365 |
| (18976) | 15.8 | 104.11631 | 249.82246 | 352.20710 | 4.25464  | 0.1043758 | 2.2943686 | 5350 | (19028) | 12.3 | 99.21670  | 338.25656 | 284.17083 | 11.96112 | 0.0067035 | 3.1299991 | 5365 |
| (18977) | 13.1 | 75.89141  | 278.34873 | 43.26743  | 14.18433 | 0.1920797 | 2.6155149 | 5350 | (19029) | 15.0 | 229.35474 | 137.14482 | 22.36629  | 2.75575  | 0.1580531 | 2.3958919 | 5366 |
| (18978) | 14.5 | 178.37745 | 227.49002 | 299.62352 | 10.80605 | 0.1271767 | 2.5592098 | 5350 | (19030) | 12.9 | 352.26324 | 139.58874 | 229.28074 | 15.90785 | 0.1726231 | 3.2232471 | 5366 |
| (18979) | 14.2 | 165.13898 | 18.28712  | 181.35303 | 3.78290  | 0.0274829 | 2.6016224 | 5351 | (19031) | 13.3 | 44.18390  | 323.10891 | 31.88027  | 15.98657 | 0.1202519 | 2.6313297 | 5366 |
| (18980) | 14.8 | 69.65762  | 83.58980  | 193.97818 | 3.35246  | 0.1653342 | 2.2696444 | 5351 | (19032) | 13.9 | 173.39753 | 359.74715 | 223.79318 | 3.14484  | 0.1532331 | 2.6839078 | 5367 |
| (18981) | 13.4 | 74.27232  | 255.44154 | 22.15165  | 10.57549 | 0.1627043 | 2.6752691 | 5351 | (19033) | 13.8 | 323.52004 | 234.47031 | 193.84475 | 20.56688 | 0.1510046 | 3.1823208 | 5367 |
| (18982) | 14.8 | 43.48680  | 84.68983  | 220.46307 | 1.57760  | 0.2100859 | 2.3788357 | 5352 | (19034) | 12.3 | 350.45250 | 359.49067 | 50.70470  | 3.53719  | 0.2431640 | 3.9758536 | 5367 |
| (18983) | 14.2 | 21.22519  | 336.75559 | 11.43282  | 2.74024  | 0.1800589 | 2.4119696 | 5352 | (19035) | 15.0 | 353.55544 | 306.17899 | 15.98798  | 4.79135  | 0.1968949 | 2.2420150 | 5367 |
| (18984) | 13.3 | 153.11007 | 247.18126 | 322.02954 | 14.01273 | 0.0438170 | 3.2453876 | 5353 | (19036) | 16.3 | 42.42807  | 268.61920 | 43.04723  | 1.13308  | 0.2453067 | 2.3600668 | 5368 |

|         |      |           |           |           |          |           |           |      |
|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|
| (19037) | 16.2 | 31.83083  | 187.77400 | 142.90438 | 2.74485  | 0.2227644 | 2.3590191 | 5368 |
| (19038) | 14.3 | 223.37618 | 46.86044  | 152.12323 | 2.24356  | 0.0303812 | 2.8880655 | 5368 |
| (19039) | 16.0 | 204.42043 | 21.59340  | 148.83973 | 3.14433  | 0.0915279 | 2.2276704 | 5369 |
| (19040) | 14.8 | 275.94130 | 63.60415  | 52.92957  | 3.24557  | 0.1648011 | 2.3594304 | 5369 |
| (19041) | 16.3 | 354.20283 | 76.88090  | 327.24931 | 1.87246  | 0.2139716 | 2.3546970 | 5369 |
| (19042) | 14.2 | 338.69478 | 206.92379 | 199.65666 | 3.64960  | 0.0837093 | 3.1736357 | 5369 |
| (19043) | 15.7 | 299.53662 | 226.36786 | 222.10416 | 4.32984  | 0.1155407 | 2.3579131 | 5370 |
| (19044) | 15.9 | 9.81001   | 2.16351   | 13.23398  | 6.45574  | 0.2437571 | 2.2238124 | 5370 |
| (19045) | 15.6 | 91.21019  | 115.03152 | 155.81544 | 3.16048  | 0.1850473 | 2.2223200 | 5370 |
| (19046) | 15.4 | 311.19375 | 340.54477 | 99.39964  | 3.40728  | 0.2067926 | 2.3609019 | 5370 |
| (19047) | 16.3 | 81.06390  | 125.64154 | 171.24730 | 2.35294  | 0.0723799 | 2.2213022 | 5371 |
| (19048) | 13.9 | 93.77126  | 254.06219 | 30.46808  | 9.47773  | 0.0456693 | 3.1737385 | 5371 |
| (19049) | 13.4 | 276.52565 | 285.79663 | 186.97449 | 6.66308  | 0.0868273 | 2.7114810 | 5371 |
| (19050) | 14.3 | 142.95419 | 240.38246 | 345.72095 | 10.67904 | 0.0984761 | 3.0675161 | 5371 |
| (19051) | 15.9 | 280.82397 | 124.61374 | 341.82681 | 1.70096  | 0.1388668 | 2.4676073 | 5372 |
| (19052) | 14.0 | 272.10483 | 270.12266 | 182.76163 | 9.47410  | 0.0149129 | 3.0693747 | 5372 |
| (19053) | 13.6 | 4.17998   | 163.64516 | 187.09138 | 3.58568  | 0.1951837 | 3.0759104 | 5372 |
| (19054) | 13.8 | 229.18342 | 315.60922 | 205.18677 | 5.33788  | 0.0732095 | 3.0478917 | 5373 |
| (19055) | 14.4 | 54.39749  | 142.83328 | 199.55066 | 3.87629  | 0.1167385 | 3.0328946 | 5373 |
| (19056) | 15.1 | 17.43812  | 3.23141   | 24.66054  | 2.85522  | 0.1204568 | 2.6928396 | 5373 |
| (19057) | 15.3 | 81.08781  | 283.28655 | 356.34968 | 7.12452  | 0.1880512 | 2.4461963 | 5373 |
| (19058) | 14.9 | 35.89987  | 71.81036  | 267.01811 | 1.63125  | 0.0826021 | 2.7119458 | 5374 |
| (19059) | 14.7 | 214.01566 | 317.68513 | 216.57486 | 0.53912  | 0.1248050 | 2.4446960 | 5374 |
| (19060) | 15.0 | 58.05018  | 338.63273 | 2.84821   | 13.83805 | 0.1156833 | 2.6937710 | 5374 |
| (19061) | 14.4 | 5.12402   | 70.40354  | 349.80497 | 2.10889  | 0.1683482 | 2.4293624 | 5375 |
| (19062) | 13.1 | 1.68123   | 178.89565 | 199.56898 | 9.42446  | 0.1051597 | 3.0607915 | 5375 |
| (19063) | 14.3 | 255.67565 | 28.94718  | 104.63852 | 3.38661  | 0.1026801 | 3.0529388 | 5375 |
| (19064) | 15.2 | 288.19794 | 103.13891 | 25.92751  | 4.16287  | 0.0582897 | 2.4270504 | 5376 |
| (19065) | 14.6 | 324.19280 | 47.22714  | 68.44927  | 2.73892  | 0.1582269 | 2.4176659 | 5376 |
| (19066) | 15.0 | 310.97988 | 19.30271  | 52.00235  | 3.63721  | 0.0660813 | 2.7133518 | 5376 |
| (19067) | 15.5 | 83.95265  | 179.32715 | 115.07601 | 1.88609  | 0.2069196 | 3.0437715 | 5376 |
| (19068) | 14.3 | 352.39116 | 328.38433 | 69.85215  | 3.97681  | 0.1738469 | 2.4470551 | 5377 |
| (19069) | 14.0 | 343.01488 | 163.27937 | 239.18210 | 9.51360  | 0.0835236 | 3.0571751 | 5377 |
| (19070) | 13.4 | 142.79390 | 259.50436 | 329.53422 | 12.13941 | 0.0294879 | 3.0704906 | 5377 |
| (19071) | 14.6 | 58.88206  | 40.05312  | 272.53993 | 6.34761  | 0.1238241 | 2.7541455 | 5377 |
| (19072) | 13.9 | 0.24523   | 72.50512  | 329.28671 | 5.94540  | 0.1566345 | 3.1786674 | 5378 |
| (19073) | 15.4 | 192.83926 | 139.53951 | 59.84427  | 3.78271  | 0.1111590 | 2.1987588 | 5378 |
| (19074) | 13.8 | 201.83359 | 152.61600 | 67.31846  | 6.39663  | 0.0962701 | 3.1531499 | 5378 |
| (19075) | 14.5 | 115.53623 | 147.72453 | 128.53529 | 5.70032  | 0.0789722 | 2.7409016 | 5379 |
| (19076) | 14.9 | 171.42218 | 123.05313 | 93.27015  | 7.07239  | 0.0415881 | 2.7492460 | 5379 |
| (19077) | 15.3 | 342.05405 | 321.45302 | 107.67299 | 7.15843  | 0.0860340 | 2.4264613 | 5379 |
| (19078) | 13.0 | 285.30607 | 82.18463  | 65.27312  | 17.68902 | 0.1281690 | 3.1573834 | 5379 |

## SUMMARY OF IDENTIFICATIONS

The following identifications are invalid:

|                       |                         |                        |                  |
|-----------------------|-------------------------|------------------------|------------------|
| 1988 DX <sub>1</sub>  | = 1985 SG <sub>5</sub>  |                        | <i>MPC</i> 32218 |
| 1995 UR <sub>47</sub> | = 1995 WW <sub>41</sub> |                        | <i>MPC</i> 26379 |
| 1996 RP <sub>15</sub> | = 1989 TV <sub>4</sub>  |                        | <i>MPC</i> 27925 |
| 1996 TJ <sub>2</sub>  | = 1999 BA <sub>28</sub> |                        | <i>MPO</i> 4336  |
| 1997 UC <sub>2</sub>  | = 1986 ER <sub>3</sub>  | = 1991 KT <sub>1</sub> | <i>MPC</i> 35944 |

|                        |                          |           |
|------------------------|--------------------------|-----------|
| 1998 KQ <sub>32</sub>  | = 1998 HA <sub>151</sub> | MPC 36125 |
| 1999 GA <sub>40</sub>  | = 1996 SD <sub>3</sub>   | MPO 2041  |
| 1999 JL <sub>53</sub>  | = 1991 PD <sub>31</sub>  | MPO 4472  |
| 1999 JL <sub>53</sub>  | = 1991 PD <sub>13</sub>  | MPO 4472  |
| 1999 JB <sub>67</sub>  | = 1989 YJ <sub>7</sub>   | MPC 35016 |
| 1999 NG <sub>42</sub>  | = 1983 QW                | MPC 36016 |
| 2000 GB <sub>51</sub>  | = 1997 RP                | MPO 1272  |
| 2000 QF <sub>138</sub> | = 1999 LU                | MPO 3822  |
| 4147 P-L               | = 1998 BC <sub>36</sub>  | MPO 2581  |
| 7637 P-L               | = 1986 VP <sub>7</sub>   | MPC 18642 |
| 1019 T-1               | = 1993 BX <sub>6</sub>   | MPC 24403 |
| 3179 T-1               | = 2000 AE <sub>192</sub> | MPC 38738 |
| 1147 T-2               | = 2000 BD <sub>8</sub>   | MPC 38740 |
| 5076 T-3               | = 1998 KT <sub>4</sub>   | MPC 37254 |

Further details, orbital elements and residuals for the identifications listed below are given in the *Minor Planet Circulars Orbit Supplement*.

|                       |                          |                                                                         |
|-----------------------|--------------------------|-------------------------------------------------------------------------|
| A900 MA               | = 1999 CC <sub>53</sub>  | = 2000 TO <sub>50</sub>                                                 |
| 1978 NR               | = 2000 EJ <sub>200</sub> |                                                                         |
| 1978 RW <sub>6</sub>  | = 1998 EH <sub>18</sub>  |                                                                         |
| 1978 UV <sub>4</sub>  | = 2000 UO <sub>73</sub>  |                                                                         |
| 1978 UD <sub>5</sub>  | = 2000 SY <sub>286</sub> | = 2000 SB <sub>321</sub>                                                |
| 1978 VN <sub>3</sub>  | = 3068 T-1               | = 2000 SQ <sub>17</sub>                                                 |
| 1978 VW <sub>3</sub>  | = 2000 UC <sub>79</sub>  |                                                                         |
| 1978 VR <sub>6</sub>  | = 1996 VQ <sub>17</sub>  |                                                                         |
| 1978 VS <sub>9</sub>  | = 2000 SA <sub>151</sub> |                                                                         |
| 1978 VB <sub>10</sub> | = 2000 SX <sub>91</sub>  |                                                                         |
| 1978 XX               | = 1976 JS <sub>2</sub>   | = 1980 FT <sub>11</sub> = 1998 KR <sub>45</sub> = 2000 RJ <sub>61</sub> |
| 1979 ME <sub>1</sub>  | = 1979 OD <sub>1</sub>   | = 2000 VX <sub>53</sub>                                                 |
| 1979 MC <sub>3</sub>  | = 2000 VQ <sub>20</sub>  |                                                                         |
| 1979 MN <sub>7</sub>  | = 2000 VX <sub>36</sub>  |                                                                         |
| 1979 OE <sub>10</sub> | = 1999 XB <sub>154</sub> |                                                                         |
| 1979 QE <sub>1</sub>  | = 2000 SG <sub>155</sub> |                                                                         |
| 1981 ES <sub>2</sub>  | = 2000 UY <sub>94</sub>  |                                                                         |
| 1981 EM <sub>29</sub> | = 2000 UB <sub>96</sub>  |                                                                         |
| 1981 EY <sub>34</sub> | = 2000 SU <sub>339</sub> |                                                                         |
| 1981 EV <sub>40</sub> | = 2000 SM <sub>12</sub>  |                                                                         |
| 1981 ED <sub>41</sub> | = 2000 SQ <sub>203</sub> |                                                                         |
| 1981 EK <sub>42</sub> | = 2000 SV <sub>256</sub> |                                                                         |
| 1981 EJ <sub>44</sub> | = 2000 SS <sub>108</sub> |                                                                         |
| 1981 QM <sub>2</sub>  | = 1999 TO <sub>252</sub> | = 2000 BD <sub>8</sub>                                                  |
| 1982 UW <sub>2</sub>  | = 2000 AV <sub>199</sub> |                                                                         |
| 1983 RY <sub>2</sub>  | = 2000 QK <sub>59</sub>  |                                                                         |
| 1983 VD <sub>7</sub>  | = 1998 FJ <sub>93</sub>  |                                                                         |
| 1985 QL <sub>3</sub>  | = 2000 NW <sub>9</sub>   |                                                                         |
| 1985 SG <sub>2</sub>  | = 2000 SW <sub>293</sub> |                                                                         |
| 1986 QD <sub>1</sub>  | = 2000 SU <sub>221</sub> |                                                                         |
| 1986 RY               | = 1999 RW <sub>120</sub> |                                                                         |
| 1986 TD               | = 1955 FA <sub>2</sub>   | = 1972 TN <sub>7</sub> = 1995 XG <sub>2</sub> = 2000 SK <sub>24</sub>   |
| 1986 TP <sub>1</sub>  | = 1979 WF <sub>7</sub>   | = 2000 MY <sub>3</sub>                                                  |
| 1987 QH <sub>10</sub> | = 1971 QG                | = 2000 SZ <sub>295</sub>                                                |
| 1987 RU               | = 2000 RY <sub>50</sub>  |                                                                         |

1987 YR<sub>1</sub> = 1998 KY<sub>23</sub> = 2000 ST<sub>305</sub>  
 1988 DX<sub>1</sub> = 1998 FS<sub>112</sub>  
 1988 GS = 1970 ES = 1995 DN<sub>2</sub> = 2000 SN<sub>170</sub>  
 1988 WA = 1999 XA<sub>191</sub>  
 1989 LL = 2000 UF<sub>2</sub>  
 1989 SC<sub>3</sub> = 2000 UH<sub>5</sub>  
 1989 SE<sub>5</sub> = 1993 RY<sub>13</sub> = 1997 RP = 2000 GH<sub>177</sub>  
 1989 TQ<sub>2</sub> = 1978 VW<sub>15</sub> = 2000 TA<sub>20</sub>  
 1989 TE<sub>3</sub> = 2000 VL<sub>27</sub>  
 1989 TE<sub>5</sub> = 1991 EN<sub>7</sub> = 2000 SX<sub>121</sub>  
 1989 WF<sub>2</sub> = 2000 UL<sub>16</sub>  
 1990 EK<sub>2</sub> = 2000 VO<sub>54</sub>  
 1990 HY<sub>5</sub> = 1995 WH<sub>39</sub> = 1999 VW<sub>112</sub>  
 1990 QN<sub>1</sub> = 2000 OX<sub>67</sub>  
 1990 QB<sub>3</sub> = 2000 UA<sub>55</sub>  
 1990 SS<sub>12</sub> = 2000 HX<sub>104</sub>  
 1990 TT<sub>3</sub> = 2000 SD<sub>2</sub>  
 1990 TQ<sub>10</sub> = 2000 SM<sub>50</sub>  
 1990 VA<sub>5</sub> = 2000 CU<sub>21</sub>  
 1990 VL<sub>5</sub> = 1992 CB<sub>6</sub> = 2000 TS<sub>58</sub>  
 1990 WE<sub>5</sub> = 1999 JU<sub>119</sub> = 2000 SJ<sub>126</sub>  
 1990 WM<sub>6</sub> = 1993 RN<sub>18</sub> = 1998 EY<sub>17</sub>  
 1991 BC<sub>1</sub> = 1984 BM<sub>4</sub> = 1998 BQ<sub>12</sub>  
 1991 CD = 1986 TW<sub>6</sub> = 1986 VJ<sub>5</sub> = 2000 SV<sub>295</sub>  
 1991 CH<sub>2</sub> = 1999 CW<sub>10</sub> = 2000 SZ<sub>271</sub>  
 1991 EH<sub>1</sub> = 1996 DS<sub>7</sub> = 2000 UO<sub>55</sub>  
 1991 NS<sub>6</sub> = 1999 JO<sub>95</sub> = 2000 QB<sub>62</sub>  
 1991 PR<sub>2</sub> = 2000 SA<sub>319</sub>  
 1991 SE<sub>3</sub> = 2000 HL<sub>104</sub>  
 1991 TM<sub>8</sub> = 1998 HC<sub>130</sub> = 2000 SD<sub>244</sub>  
 1991 VP<sub>5</sub> = 2000 UJ  
 1992 DT<sub>5</sub> = 1999 TA<sub>162</sub>  
 1992 EA<sub>14</sub> = 2000 UD<sub>70</sub>  
 1992 EY<sub>26</sub> = 2000 AD<sub>105</sub>  
 1992 EG<sub>27</sub> = 2000 SZ<sub>125</sub>  
 1992 GS<sub>1</sub> = 2000 TD<sub>16</sub>  
 1992 HJ<sub>2</sub> = 1997 WY<sub>43</sub> = 2000 SJ<sub>209</sub>  
 1992 PZ = 1997 WD<sub>39</sub> = 2000 KF<sub>31</sub>  
 1992 PN<sub>2</sub> = 2000 VK<sub>34</sub>  
 1992 SN<sub>5</sub> = 2000 UJ<sub>61</sub>  
 1992 SR<sub>9</sub> = 2000 VO<sub>40</sub>  
 1993 AM = 2000 SO<sub>136</sub>  
 1993 BV<sub>7</sub> = 1996 TQ<sub>22</sub> = 1999 GC<sub>35</sub>  
 1993 BM<sub>14</sub> = 2000 RR<sub>93</sub>  
 1993 FX<sub>4</sub> = 2000 QF<sub>244</sub>  
 1993 FW<sub>5</sub> = 2000 SY<sub>109</sub>  
 1993 FE<sub>11</sub> = 2000 VD<sub>33</sub>  
 1993 FE<sub>13</sub> = 1998 JQ<sub>4</sub>  
 1993 FW<sub>16</sub> = 1998 FG<sub>51</sub> = 2000 SM<sub>116</sub>  
 1993 FC<sub>17</sub> = 2000 KP<sub>63</sub>  
 1993 FF<sub>23</sub> = 2000 QT<sub>168</sub>  
 1993 FR<sub>29</sub> = 2000 UO<sub>7</sub>

1993 FU<sub>29</sub> = 1995 UG<sub>45</sub> = 2000 SE<sub>47</sub>  
 1993 FV<sub>41</sub> = 2000 NK<sub>6</sub>  
 1993 FJ<sub>51</sub> = 1991 RX<sub>32</sub> = 1999 BX<sub>19</sub>  
 1993 FP<sub>76</sub> = 1994 NB<sub>4</sub> = 2000 SR<sub>329</sub>  
 1993 FO<sub>77</sub> = 2000 SG<sub>101</sub>  
 1993 JY = 1998 VU<sub>13</sub>  
 1993 QK<sub>1</sub> = 1974 HE = 1998 YF<sub>16</sub> = 2000 OY<sub>9</sub>  
 1993 QH<sub>7</sub> = 2000 VB<sub>13</sub>  
 1993 RS<sub>5</sub> = 2000 RH<sub>72</sub>  
 1993 RU<sub>5</sub> = 2000 VB<sub>43</sub>  
 1993 RK<sub>6</sub> = 2000 EN<sub>89</sub>  
 1993 RE<sub>7</sub> = 2000 VH<sub>46</sub>  
 1993 RH<sub>16</sub> = 1997 WA<sub>44</sub> = 2000 SV<sub>11</sub>  
 1993 SH<sub>5</sub> = 1994 WA<sub>10</sub>  
 1993 SC<sub>6</sub> = 1992 EJ<sub>18</sub> = 1999 LV<sub>20</sub>  
 1993 SN<sub>10</sub> = 2000 PM<sub>17</sub>  
 1993 SW<sub>13</sub> = 2000 SH<sub>193</sub>  
 1993 TM<sub>14</sub> = 2000 UF<sub>4</sub>  
 1993 TX<sub>15</sub> = 1998 BN<sub>45</sub> = 2000 SA<sub>207</sub> = 2000 SZ<sub>239</sub>  
 1993 TG<sub>20</sub> = 1997 WL<sub>53</sub>  
 1993 TR<sub>23</sub> = 2000 UE<sub>3</sub>  
 1993 TJ<sub>32</sub> = 1993 TO<sub>48</sub> = 1999 CN<sub>123</sub>  
 1993 TT<sub>38</sub> = 2000 UL<sub>107</sub>  
 1993 UW<sub>3</sub> = 1999 GQ<sub>42</sub> = 2000 SM<sub>121</sub>  
 1993 UR<sub>5</sub> = 2000 SW<sub>210</sub>  
 1993 VU = 2000 RT<sub>75</sub>  
 1993 XU<sub>1</sub> = 2000 SB<sub>288</sub>  
 1994 AV<sub>5</sub> = 2000 OJ<sub>69</sub>  
 1994 AH<sub>6</sub> = 1999 OK<sub>1</sub>  
 1994 AG<sub>7</sub> = 2000 SH<sub>73</sub>  
 1994 BB<sub>4</sub> = 2000 SM<sub>91</sub>  
 1994 CN<sub>3</sub> = 2000 SC<sub>257</sub>  
 1994 GB<sub>5</sub> = 2000 SF<sub>216</sub>  
 1994 GQ<sub>5</sub> = 2000 SF<sub>179</sub>  
 1994 HZ = 2000 SU<sub>229</sub>  
 1994 JL<sub>5</sub> = 2000 SQ<sub>242</sub>  
 1994 JZ<sub>5</sub> = 2000 SG<sub>74</sub>  
 1994 JK<sub>6</sub> = 2000 SL<sub>7</sub>  
 1994 PC<sub>6</sub> = 2000 SF<sub>300</sub>  
 1994 PM<sub>6</sub> = 2000 QZ<sub>100</sub>  
 1994 PW<sub>6</sub> = 2000 UW<sub>40</sub>  
 1994 PL<sub>7</sub> = 2000 SE<sub>167</sub>  
 1994 PH<sub>8</sub> = 2000 UN<sub>7</sub>  
 1994 PX<sub>8</sub> = 2000 SQ<sub>104</sub>  
 1994 PB<sub>9</sub> = 1998 JF<sub>1</sub> = 2000 UH<sub>61</sub>  
 1994 PV<sub>9</sub> = 2000 UO<sub>2</sub>  
 1994 PS<sub>13</sub> = 2000 SO<sub>293</sub>  
 1994 PU<sub>14</sub> = 2000 UN<sub>37</sub>  
 1994 PS<sub>17</sub> = 2000 UA<sub>45</sub>  
 1994 PE<sub>19</sub> = 2000 SC<sub>308</sub>  
 1994 PS<sub>24</sub> = 2000 SX<sub>151</sub>  
 1994 PF<sub>26</sub> = 2000 TJ<sub>41</sub>

1994 PM<sub>29</sub> = 2000 UD<sub>71</sub>  
 1994 PX<sub>32</sub> = 2000 SF<sub>282</sub>  
 1994 PV<sub>33</sub> = 2000 SC<sub>169</sub>  
 1994 PY<sub>36</sub> = 1977 RL<sub>17</sub> = 2000 SE<sub>342</sub>  
 1994 PE<sub>38</sub> = 2000 UO<sub>59</sub>  
 1994 PQ<sub>38</sub> = 2000 UA<sub>49</sub>  
 1994 RX<sub>4</sub> = 1998 UH<sub>11</sub>  
 1994 RK<sub>5</sub> = 1997 HQ<sub>9</sub>  
 1994 RQ<sub>16</sub> = 2000 VK<sub>35</sub>  
 1994 RF<sub>25</sub> = 1999 UC<sub>7</sub> = 2000 SM<sub>139</sub>  
 1994 SW<sub>10</sub> = 2000 VZ<sub>47</sub>  
 1994 SD<sub>11</sub> = 2000 UT<sub>7</sub>  
 1994 TF<sub>10</sub> = 2000 FO<sub>64</sub>  
 1994 UH<sub>3</sub> = 2000 UY<sub>35</sub>  
 1994 VG<sub>2</sub> = 2000 LK<sub>24</sub>  
 1995 BB<sub>15</sub> = 2000 SV<sub>217</sub>  
 1995 CC<sub>4</sub> = 2000 QO<sub>231</sub>  
 1995 DB<sub>13</sub> = 2000 KN<sub>73</sub>  
 1995 FL<sub>1</sub> = 2000 UV<sub>60</sub>  
 1995 FP<sub>4</sub> = 2000 SR<sub>267</sub>  
 1995 FK<sub>7</sub> = 1999 FU<sub>41</sub>  
 1995 FX<sub>12</sub> = 2000 ST<sub>198</sub>  
 1995 GQ<sub>1</sub> = 1972 TF<sub>10</sub> = 1998 FE = 1999 NR<sub>63</sub>  
 1995 GB<sub>5</sub> = 1993 TY<sub>45</sub> = 2000 TK<sub>68</sub>  
 1995 OC = 1982 QL<sub>1</sub>  
 1995 OA<sub>10</sub> = 1999 XW<sub>139</sub>  
 1995 QK<sub>1</sub> = 2000 UB<sub>83</sub>  
 1995 RR = 2000 UR<sub>17</sub>  
 1995 SM<sub>10</sub> = 1998 FK<sub>148</sub>  
 1995 SV<sub>30</sub> = 2000 UG<sub>60</sub>  
 1995 SJ<sub>52</sub> = 2000 US<sub>28</sub>  
 1995 SC<sub>53</sub> = 2000 SQ<sub>72</sub>  
 1995 TO<sub>5</sub> = 1998 RV<sub>21</sub>  
 1995 UN<sub>6</sub> = 1995 WW<sub>41</sub> = 1995 WO<sub>43</sub> = 2000 OU<sub>66</sub>  
 1995 UD<sub>7</sub> = 2000 SJ<sub>45</sub>  
 1995 UJ<sub>10</sub> = 2000 TS<sub>25</sub>  
 1995 UT<sub>10</sub> = 2000 SC<sub>60</sub>  
 1995 UW<sub>25</sub> = 1997 GV<sub>43</sub> = 2000 ER<sub>75</sub>  
 1995 UX<sub>34</sub> = 2000 SB<sub>252</sub>  
 1995 VK<sub>2</sub> = 1998 HE<sub>96</sub> = 2000 SY<sub>218</sub>  
 1995 VF<sub>9</sub> = 2000 TN<sub>44</sub>  
 1995 VX<sub>13</sub> = 1999 TG<sub>259</sub>  
 1995 WJ<sub>4</sub> = 2000 UH<sub>24</sub>  
 1995 WG<sub>26</sub> = 1999 XQ<sub>258</sub>  
 1995 WC<sub>31</sub> = 2000 SR<sub>87</sub>  
 1995 WM<sub>35</sub> = 2000 EQ<sub>146</sub>  
 1995 WC<sub>37</sub> = 1999 XT<sub>245</sub>  
 1995 XA<sub>1</sub> = 1998 MN<sub>45</sub>  
 1995 XF<sub>1</sub> = 2000 UB<sub>48</sub>  
 1995 XS<sub>4</sub> = 2000 SM<sub>336</sub>  
 1995 YD = 2000 UR<sub>30</sub>  
 1995 YU<sub>6</sub> = 2000 UY<sub>4</sub>

1995 YN<sub>12</sub> = 2000 SJ<sub>161</sub>  
 1996 AG = 1999 RK<sub>217</sub> = 1999 RN<sub>243</sub>  
 1996 AU<sub>5</sub> = 2000 UL<sub>25</sub>  
 1996 BQ<sub>5</sub> = 2000 EB<sub>78</sub>  
 1996 BR<sub>14</sub> = 2000 FH<sub>62</sub>  
 1996 FH = 1999 CD<sub>19</sub> = 2000 OT<sub>24</sub>  
 1996 FV<sub>4</sub> = 1999 BR<sub>20</sub>  
 1996 FN<sub>18</sub> = 1999 CP<sub>86</sub>  
 1996 HZ<sub>12</sub> = 1999 AN<sub>1</sub>  
 1996 JE<sub>16</sub> = 1988 SY<sub>4</sub> = 2000 GQ<sub>157</sub>  
 1996 PS = 2000 SC<sub>167</sub>  
 1996 PB<sub>8</sub> = 1996 NR<sub>3</sub>  
 1996 QY = 2000 SD<sub>321</sub> = 2000 SF<sub>272</sub>  
 1996 RU = 2000 UB<sub>10</sub>  
 1996 RB<sub>25</sub> = 2000 VZ<sub>5</sub>  
 1996 SG<sub>6</sub> = 2000 US<sub>10</sub>  
 1996 TU<sub>5</sub> = 2000 UJ<sub>35</sub>  
 1996 TM<sub>12</sub> = 2000 SY<sub>300</sub>  
 1996 TA<sub>18</sub> = 2000 UO<sub>47</sub>  
 1996 TM<sub>28</sub> = 2000 VF<sub>33</sub>  
 1996 TL<sub>32</sub> = 2000 KY<sub>59</sub>  
 1996 TJ<sub>35</sub> = 2000 SC<sub>344</sub>  
 1996 TP<sub>39</sub> = 2000 VV<sub>29</sub>  
 1996 TH<sub>46</sub> = 2000 UE<sub>13</sub>  
 1996 TC<sub>63</sub> = 2000 SO<sub>225</sub>  
 1996 UX<sub>1</sub> = 2000 UC<sub>99</sub>  
 1996 UU<sub>3</sub> = 1998 HJ<sub>69</sub> = 1999 RZ<sub>216</sub>  
 1996 VH<sub>3</sub> = 2000 SQ<sub>59</sub>  
 1996 VS<sub>3</sub> = 2000 US<sub>6</sub>  
 1996 VJ<sub>10</sub> = 2000 SL<sub>289</sub>  
 1996 VC<sub>15</sub> = 1998 FV<sub>133</sub> = 2000 SQ<sub>111</sub>  
 1996 VT<sub>22</sub> = 2000 VX<sub>48</sub>  
 1996 VL<sub>38</sub> = 2000 VZ<sub>55</sub>  
 1996 VD<sub>39</sub> = 1998 FQ<sub>30</sub> = 1999 SW<sub>20</sub>  
 1996 WA<sub>2</sub> = 2000 SD<sub>6</sub>  
 1996 WB<sub>2</sub> = 2000 SC<sub>248</sub>  
 1996 XA = 2000 UU<sub>70</sub>  
 1996 XA<sub>1</sub> = 2000 UH<sub>79</sub>  
 1996 XH<sub>2</sub> = 2000 SB<sub>293</sub>  
 1996 XG<sub>4</sub> = 1998 DJ<sub>29</sub>  
 1996 XO<sub>6</sub> = 2000 VJ<sub>52</sub>  
 1996 XO<sub>7</sub> = 2000 SW<sub>56</sub>  
 1996 XY<sub>7</sub> = 1990 HO<sub>5</sub> = 1998 FL<sub>93</sub> = 2000 SY<sub>210</sub>  
 1996 XL<sub>10</sub> = 2000 SB<sub>290</sub>  
 1996 XP<sub>13</sub> = 2000 UC<sub>86</sub>  
 1996 XB<sub>26</sub> = 2000 SW<sub>299</sub>  
 1996 XL<sub>29</sub> = 2000 VE<sub>1</sub>  
 1997 AH<sub>2</sub> = 2000 VA<sub>57</sub>  
 1997 AQ<sub>2</sub> = 2000 SF<sub>288</sub>  
 1997 AW<sub>8</sub> = 1990 YD<sub>1</sub> = 2000 SR<sub>47</sub>  
 1997 AX<sub>9</sub> = 2000 VU<sub>10</sub>  
 1997 AQ<sub>11</sub> = 2000 VM<sub>56</sub>

1997 AX<sub>12</sub> = 2000 TW<sub>19</sub>  
 1997 AF<sub>14</sub> = 2000 VU<sub>37</sub>  
 1997 BD = 2000 SS<sub>323</sub>  
 1997 BD<sub>1</sub> = 2000 SY<sub>157</sub>  
 1997 BO<sub>6</sub> = 2000 VG<sub>21</sub>  
 1997 BH<sub>9</sub> = 2000 UE<sub>37</sub>  
 1997 CA = 2000 SK<sub>300</sub>  
 1997 CQ<sub>7</sub> = 1998 MR<sub>48</sub>  
 1997 CS<sub>13</sub> = 2000 SR<sub>28</sub>  
 1997 CE<sub>27</sub> = 1998 KD<sub>26</sub> = 1999 VN<sub>172</sub>  
 1997 EL<sub>4</sub> = 2000 UC<sub>46</sub>  
 1997 EX<sub>10</sub> = 2000 UF<sub>3</sub>  
 1997 EP<sub>13</sub> = 6347 P-L = 2000 SY<sub>196</sub>  
 1997 EA<sub>18</sub> = 2000 TE<sub>18</sub>  
 1997 ES<sub>26</sub> = 2000 UL<sub>3</sub>  
 1997 EE<sub>30</sub> = 1999 TW<sub>282</sub>  
 1997 ET<sub>32</sub> = 2000 VG<sub>17</sub>  
 1997 EB<sub>36</sub> = 1998 KZ<sub>39</sub> = 1999 RN<sub>68</sub>  
 1997 FO<sub>1</sub> = 2000 VE<sub>17</sub>  
 1997 GF<sub>8</sub> = 1976 JZ<sub>4</sub>  
 1997 GJ<sub>10</sub> = 1995 VS<sub>6</sub>  
 1997 GE<sub>11</sub> = 1999 TP<sub>313</sub>  
 1997 GF<sub>11</sub> = 2000 UO<sub>102</sub>  
 1997 GV<sub>15</sub> = 1990 SJ<sub>9</sub>  
 1997 GH<sub>32</sub> = 2000 SM<sub>147</sub>  
 1997 JS<sub>12</sub> = 1977 RY<sub>18</sub> = 1978 WS<sub>4</sub> = 1999 RS<sub>228</sub> = 1999 SZ<sub>21</sub>  
 1997 MX<sub>3</sub> = 1976 KW<sub>2</sub> = 2000 AH<sub>34</sub>  
 1997 OL<sub>2</sub> = 1976 SR<sub>1</sub> = 1998 YP<sub>23</sub>  
 1997 QF<sub>5</sub> = 1986 WF<sub>9</sub> = 1999 CL<sub>150</sub>  
 1997 RJ<sub>4</sub> = 2000 SC<sub>244</sub>  
 1997 SB = 2000 SB<sub>340</sub>  
 1997 TB<sub>2</sub> = 1989 GU<sub>5</sub>  
 1997 TE<sub>9</sub> = 2000 HY<sub>17</sub>  
 1997 TE<sub>13</sub> = 2000 GD<sub>13</sub>  
 1997 TC<sub>23</sub> = 1989 GD<sub>6</sub> = 2000 HR<sub>20</sub>  
 1997 UF<sub>1</sub> = 1990 WC<sub>12</sub>  
 1997 WL<sub>2</sub> = 1975 TN<sub>3</sub> = 2000 VL<sub>32</sub>  
 1997 WS<sub>2</sub> = 2000 RO<sub>95</sub>  
 1997 WM<sub>3</sub> = 2000 SG<sub>181</sub>  
 1997 WK<sub>5</sub> = 2000 SY<sub>249</sub>  
 1997 WH<sub>13</sub> = 2000 SA<sub>297</sub>  
 1997 WB<sub>30</sub> = 2000 PJ<sub>19</sub>  
 1997 WN<sub>35</sub> = 2000 QO<sub>160</sub> = 2000 SM<sub>344</sub>  
 1997 WJ<sub>38</sub> = 1981 XP<sub>1</sub> = 2000 SF<sub>209</sub>  
 1997 XW<sub>3</sub> = 1985 UZ<sub>2</sub> = 1999 JH<sub>126</sub>  
 1997 YV<sub>17</sub> = 2000 SJ<sub>291</sub>  
 1997 YX<sub>17</sub> = 2000 SU<sub>307</sub>  
 1998 AM = 2000 UE<sub>95</sub>  
 1998 AT<sub>4</sub> = 2000 VE<sub>30</sub>  
 1998 AP<sub>5</sub> = 2000 SH<sub>319</sub>  
 1998 AW<sub>6</sub> = 2000 SD<sub>61</sub>  
 1998 BG<sub>1</sub> = 2000 SX<sub>335</sub>  
 1998 BW<sub>4</sub> = 2000 VS<sub>39</sub>  
 1998 BO<sub>7</sub> = 2000 SB<sub>216</sub>  
 1998 BK<sub>12</sub> = 2000 SA<sub>270</sub>  
 1998 BZ<sub>15</sub> = 2000 SV<sub>166</sub>  
 1998 BZ<sub>20</sub> = 1976 UD<sub>17</sub> = 1993 BM<sub>8</sub>  
 1998 BJ<sub>25</sub> = 2000 VQ<sub>49</sub>  
 1998 BJ<sub>26</sub> = 2000 VD<sub>31</sub>  
 1998 BH<sub>30</sub> = 2000 SH<sub>291</sub>  
 1998 BE<sub>31</sub> = 2000 SJ<sub>78</sub>  
 1998 BF<sub>31</sub> = 2000 SV<sub>277</sub>  
 1998 BA<sub>38</sub> = 2000 UQ<sub>109</sub>  
 1998 BC<sub>41</sub> = 2000 SP<sub>287</sub>  
 1998 BQ<sub>42</sub> = 1998 FP<sub>9</sub> = 2000 UT<sub>76</sub>  
 1998 BC<sub>44</sub> = 2000 SH<sub>266</sub>  
 1998 BA<sub>48</sub> = 2000 RK<sub>22</sub>  
 1998 CD = 2000 UL<sub>39</sub>  
 1998 CP = 2000 UY<sub>14</sub>  
 1998 CW<sub>1</sub> = 2000 UW<sub>26</sub>  
 1998 CO<sub>2</sub> = 1990 VX<sub>7</sub>  
 1998 DY = 2000 TX<sub>45</sub>  
 1998 DF<sub>1</sub> = 2000 SF<sub>156</sub>  
 1998 DB<sub>3</sub> = 2000 VR<sub>29</sub>  
 1998 DT<sub>4</sub> = 2000 SB<sub>260</sub>  
 1998 DF<sub>6</sub> = 1999 LT<sub>27</sub>  
 1998 DM<sub>7</sub> = 2000 SU<sub>103</sub>  
 1998 DQ<sub>7</sub> = 2000 UC<sub>15</sub>  
 1998 DM<sub>10</sub> = 2000 SX<sub>273</sub>  
 1998 DO<sub>10</sub> = 2000 SO<sub>100</sub>  
 1998 DQ<sub>12</sub> = 2000 SX<sub>205</sub>  
 1998 DC<sub>13</sub> = 1983 TQ<sub>2</sub>  
 1998 DT<sub>13</sub> = 2000 UD<sub>41</sub>  
 1998 DE<sub>14</sub> = 2000 VA<sub>47</sub>  
 1998 DK<sub>15</sub> = 2000 UN<sub>73</sub>  
 1998 DS<sub>15</sub> = 2000 TK<sub>20</sub>  
 1998 DM<sub>16</sub> = 2000 UT<sub>50</sub>  
 1998 DD<sub>17</sub> = 1999 NN<sub>12</sub> = 2000 SX<sub>318</sub>  
 1998 DJ<sub>19</sub> = 2000 VW<sub>51</sub>  
 1998 DO<sub>19</sub> = 2000 SD<sub>236</sub>  
 1998 DX<sub>21</sub> = 2000 SG<sub>237</sub>  
 1998 DX<sub>29</sub> = 2000 TF<sub>41</sub>  
 1998 DE<sub>32</sub> = 2000 SQ<sub>267</sub>  
 1998 DD<sub>35</sub> = 2000 UJ<sub>48</sub>  
 1998 DL<sub>35</sub> = 2000 UV<sub>70</sub>  
 1998 DS<sub>35</sub> = 2000 SY<sub>336</sub>  
 1998 EC<sub>4</sub> = 1989 TF<sub>8</sub> = 2000 UW<sub>53</sub>  
 1998 EO<sub>6</sub> = 2000 UC<sub>4</sub>  
 1998 ER<sub>9</sub> = 1977 DM<sub>8</sub>  
 1998 EV<sub>9</sub> = 2000 VF<sub>13</sub>  
 1998 EN<sub>10</sub> = 2000 SR<sub>118</sub>  
 1998 EA<sub>11</sub> = 2000 SU<sub>332</sub>  
 1998 ED<sub>11</sub> = 2000 TD<sub>37</sub>  
 1998 EE<sub>11</sub> = 2000 TA<sub>19</sub>

1998 EG<sub>11</sub> = 1999 OH<sub>5</sub> = 2000 UD<sub>27</sub>  
 1998 EY<sub>12</sub> = 2000 QG<sub>201</sub>  
 1998 EZ<sub>12</sub> = 2000 SP<sub>278</sub>  
 1998 EM<sub>13</sub> = 2000 VU<sub>18</sub>  
 1998 FL<sub>1</sub> = 2000 TX<sub>19</sub>  
 1998 FW<sub>2</sub> = 2000 ST<sub>273</sub>  
 1998 FK<sub>3</sub> = 2000 SP<sub>279</sub>  
 1998 FP<sub>4</sub> = 2000 SM<sub>106</sub>  
 1998 FK<sub>6</sub> = 2000 UM<sub>43</sub>  
 1998 FA<sub>8</sub> = 1976 JZ<sub>3</sub> = 1980 DT<sub>2</sub>  
 1998 FL<sub>11</sub> = 1979 UB<sub>1</sub> = 2000 VX<sub>58</sub>  
 1998 FR<sub>14</sub> = 2000 SY<sub>339</sub>  
 1998 FF<sub>15</sub> = 2000 UZ<sub>101</sub>  
 1998 FB<sub>28</sub> = 2000 VA<sub>55</sub>  
 1998 FD<sub>28</sub> = 2000 VP<sub>9</sub>  
 1998 FE<sub>28</sub> = 2000 VL<sub>29</sub>  
 1998 FL<sub>28</sub> = 1998 FS<sub>147</sub> = 2000 SL<sub>104</sub>  
 1998 FX<sub>29</sub> = 2000 UX<sub>4</sub>  
 1998 FM<sub>30</sub> = 2000 TF<sub>62</sub>  
 1998 FZ<sub>31</sub> = 2000 SZ<sub>287</sub>  
 1998 FE<sub>32</sub> = 2000 VK<sub>58</sub>  
 1998 FU<sub>32</sub> = 1998 FR<sub>146</sub> = 2000 SP<sub>156</sub>  
 1998 FT<sub>33</sub> = 2000 SH<sub>128</sub>  
 1998 FW<sub>38</sub> = 2000 SN<sub>107</sub>  
 1998 FA<sub>40</sub> = 1999 TD<sub>159</sub>  
 1998 FK<sub>40</sub> = 1999 TM<sub>303</sub>  
 1998 FX<sub>40</sub> = 1999 RE<sub>175</sub>  
 1998 FX<sub>41</sub> = 2000 UE<sub>33</sub>  
 1998 FU<sub>43</sub> = 2000 SP<sub>145</sub>  
 1998 FP<sub>45</sub> = 1989 YJ<sub>7</sub>  
 1998 FB<sub>47</sub> = 2000 SS<sub>121</sub>  
 1998 FW<sub>47</sub> = 2000 VT<sub>24</sub>  
 1998 FK<sub>48</sub> = 2000 VY<sub>35</sub>  
 1998 FR<sub>50</sub> = 2000 SV<sub>194</sub>  
 1998 FE<sub>51</sub> = 2000 UK<sub>61</sub>  
 1998 FV<sub>52</sub> = 2000 TS<sub>5</sub>  
 1998 FE<sub>53</sub> = 2000 VL<sub>56</sub>  
 1998 FU<sub>55</sub> = 2000 VG<sub>10</sub>  
 1998 FV<sub>55</sub> = 2000 VC<sub>33</sub>  
 1998 FB<sub>56</sub> = 2000 SU<sub>82</sub>  
 1998 FD<sub>56</sub> = 1978 TU<sub>4</sub> = 2000 UG<sub>5</sub>  
 1998 FL<sub>56</sub> = 2000 SA<sub>37</sub>  
 1998 FY<sub>57</sub> = 2000 SU<sub>301</sub>  
 1998 FF<sub>58</sub> = 2000 SV<sub>340</sub>  
 1998 FY<sub>59</sub> = 2000 UM<sub>86</sub>  
 1998 FT<sub>64</sub> = 2000 UC<sub>45</sub>  
 1998 FN<sub>65</sub> = 2000 UM<sub>20</sub>  
 1998 FU<sub>66</sub> = 1980 FG<sub>8</sub>  
 1998 FX<sub>67</sub> = 2000 UB<sub>28</sub>  
 1998 FG<sub>68</sub> = 2000 UU<sub>95</sub>  
 1998 FU<sub>69</sub> = 1990 RZ<sub>13</sub> = 2000 US<sub>99</sub>  
 1998 FP<sub>71</sub> = 2000 TJ<sub>13</sub>

1998 FV<sub>71</sub> = 2000 UY<sub>99</sub>  
 1998 FC<sub>72</sub> = 2000 UK<sub>1</sub>  
 1998 FM<sub>72</sub> = 2000 VX<sub>32</sub>  
 1998 FX<sub>72</sub> = 2000 SW<sub>286</sub>  
 1998 FD<sub>75</sub> = 1977 DO<sub>5</sub>  
 1998 FR<sub>77</sub> = 2000 VR<sub>18</sub>  
 1998 FN<sub>78</sub> = 2000 SX<sub>22</sub>  
 1998 FW<sub>78</sub> = 2000 SY<sub>209</sub>  
 1998 FS<sub>84</sub> = 1999 NJ<sub>44</sub>  
 1998 FG<sub>90</sub> = 2000 VY<sub>32</sub>  
 1998 FW<sub>99</sub> = 2000 UT<sub>80</sub>  
 1998 FU<sub>105</sub> = 2000 TJ<sub>66</sub>  
 1998 FM<sub>106</sub> = 1981 NV = 2000 UO<sub>71</sub>  
 1998 FE<sub>109</sub> = 1989 WD<sub>7</sub>  
 1998 FR<sub>109</sub> = 2000 UH<sub>64</sub>  
 1998 FZ<sub>112</sub> = 2000 UB<sub>35</sub>  
 1998 FM<sub>115</sub> = 2000 VG<sub>47</sub>  
 1998 FP<sub>115</sub> = 2000 SU<sub>329</sub>  
 1998 FA<sub>118</sub> = 2000 TW<sub>22</sub>  
 1998 FL<sub>126</sub> = 2000 TA<sub>25</sub>  
 1998 FO<sub>127</sub> = 2000 SZ<sub>73</sub>  
 1998 FC<sub>128</sub> = 2000 SA<sub>245</sub>  
 1998 FT<sub>129</sub> = 2000 TM<sub>55</sub>  
 1998 FQ<sub>132</sub> = 2000 SJ<sub>148</sub>  
 1998 FR<sub>136</sub> = 2000 SD<sub>207</sub>  
 1998 FN<sub>138</sub> = 1999 TW<sub>271</sub>  
 1998 FF<sub>140</sub> = 1981 QF<sub>4</sub> = 1999 UC<sub>43</sub>  
 1998 FJ<sub>145</sub> = 1964 EP = 1999 VQ<sub>203</sub>  
 1998 GE = 2000 SQ<sub>343</sub>  
 1998 GA<sub>1</sub> = 2000 VR<sub>26</sub>  
 1998 GX<sub>7</sub> = 2000 TO<sub>55</sub>  
 1998 GF<sub>9</sub> = 2000 VG<sub>37</sub>  
 1998 GX<sub>10</sub> = 2000 UV<sub>49</sub>  
 1998 HH<sub>2</sub> = 1998 DD<sub>32</sub> = 2000 TW<sub>15</sub>  
 1998 HN<sub>5</sub> = 2000 UO<sub>41</sub>  
 1998 HR<sub>6</sub> = 2000 VL<sub>18</sub>  
 1998 HE<sub>11</sub> = 2000 SE<sub>217</sub>  
 1998 HE<sub>12</sub> = 2000 VS<sub>46</sub>  
 1998 HJ<sub>12</sub> = 2000 VU<sub>41</sub>  
 1998 HD<sub>16</sub> = 1993 BO<sub>2</sub> = 2000 TT<sub>3</sub>  
 1998 HZ<sub>16</sub> = 1991 PE<sub>25</sub> = 2000 SG<sub>178</sub>  
 1998 HG<sub>17</sub> = 2000 VP<sub>36</sub>  
 1998 HF<sub>18</sub> = 2000 UK<sub>41</sub>  
 1998 HO<sub>18</sub> = 2000 SV<sub>290</sub>  
 1998 HL<sub>19</sub> = 2000 UH<sub>89</sub>  
 1998 HJ<sub>20</sub> = 2000 VO<sub>33</sub>  
 1998 HE<sub>22</sub> = 2000 US<sub>38</sub>  
 1998 HC<sub>24</sub> = 2000 VS<sub>35</sub>  
 1998 HY<sub>29</sub> = 2000 US<sub>43</sub>  
 1998 HZ<sub>29</sub> = 2000 VS<sub>13</sub>  
 1998 HY<sub>34</sub> = 2000 VV<sub>8</sub>  
 1998 HL<sub>36</sub> = 1975 TF<sub>4</sub>

1998 HG<sub>39</sub> = 2000 SB<sub>294</sub>  
 1998 HH<sub>41</sub> = 2000 SQ<sub>156</sub>  
 1998 HQ<sub>42</sub> = 2000 TP<sub>60</sub>  
 1998 HZ<sub>43</sub> = 2000 SB<sub>286</sub>  
 1998 HD<sub>45</sub> = 1993 BX<sub>6</sub> = 2000 TR<sub>32</sub>  
 1998 HY<sub>45</sub> = 2000 SB<sub>34</sub>  
 1998 HZ<sub>50</sub> = 2000 SC<sub>282</sub>  
 1998 HZ<sub>51</sub> = 2000 SJ<sub>124</sub>  
 1998 HE<sub>59</sub> = 1977 PL<sub>2</sub> = 1981 SR<sub>6</sub> = 2000 VM<sub>36</sub>  
 1998 HV<sub>60</sub> = 2000 VN<sub>51</sub>  
 1998 HC<sub>63</sub> = 1996 YJ<sub>1</sub> = 2000 SJ<sub>279</sub>  
 1998 HZ<sub>72</sub> = 2000 UZ<sub>13</sub>  
 1998 HQ<sub>86</sub> = 1998 HR<sub>153</sub> = 1999 QC<sub>3</sub>  
 1998 HR<sub>92</sub> = 2000 UG<sub>51</sub>  
 1998 HG<sub>93</sub> = 2000 SM<sub>295</sub>  
 1998 HR<sub>99</sub> = 2000 VS<sub>16</sub>  
 1998 HZ<sub>100</sub> = 2000 TZ<sub>38</sub>  
 1998 HA<sub>102</sub> = 2000 TG<sub>20</sub>  
 1998 HL<sub>102</sub> = 1981 GQ<sub>1</sub>  
 1998 HW<sub>102</sub> = 2000 SA<sub>61</sub>  
 1998 HK<sub>118</sub> = 2000 TR<sub>60</sub>  
 1998 HO<sub>119</sub> = 2000 SV<sub>216</sub>  
 1998 HZ<sub>120</sub> = 2000 TP<sub>55</sub>  
 1998 HW<sub>122</sub> = 1982 YE<sub>4</sub> = 2000 UB<sub>26</sub>  
 1998 HL<sub>126</sub> = 2000 UB<sub>45</sub>  
 1998 HT<sub>127</sub> = 2000 VA<sub>49</sub>  
 1998 HN<sub>130</sub> = 2000 SL<sub>342</sub>  
 1998 HC<sub>132</sub> = 2000 SO<sub>250</sub>  
 1998 HD<sub>139</sub> = 2000 SD<sub>221</sub>  
 1998 HB<sub>143</sub> = 2000 SP<sub>69</sub> = 2000 SE<sub>344</sub>  
 1998 HP<sub>144</sub> = 2000 VA<sub>23</sub>  
 1998 HS<sub>145</sub> = 2000 UU<sub>17</sub>  
 1998 HC<sub>150</sub> = 1983 VD<sub>2</sub> = 1987 UJ<sub>1</sub> = 2000 UK<sub>2</sub>  
 1998 HG<sub>153</sub> = 1991 RJ<sub>24</sub> = 2000 SY<sub>279</sub>  
 1998 KE<sub>1</sub> = 2000 UG<sub>47</sub>  
 1998 KH<sub>4</sub> = 1999 RT<sub>63</sub>  
 1998 KF<sub>7</sub> = 2000 UO<sub>9</sub>  
 1998 KM<sub>7</sub> = 2000 SB<sub>336</sub>  
 1998 KN<sub>8</sub> = 2000 TS<sub>59</sub>  
 1998 KV<sub>10</sub> = 2000 TX<sub>50</sub>  
 1998 KZ<sub>15</sub> = 1995 MM  
 1998 KN<sub>18</sub> = 2000 SV<sub>100</sub>  
 1998 KX<sub>31</sub> = 1998 HA<sub>151</sub> = 1998 JN<sub>4</sub>  
 1998 KN<sub>42</sub> = 1999 SO<sub>7</sub>  
 1998 KQ<sub>42</sub> = 2000 AV<sub>175</sub>  
 1998 KP<sub>45</sub> = 2000 SD<sub>20</sub>  
 1998 KW<sub>48</sub> = 2000 VE<sub>29</sub>  
 1998 KM<sub>57</sub> = 2000 VJ<sub>58</sub>  
 1998 LZ<sub>2</sub> = 2000 UU<sub>58</sub>  
 1998 MC<sub>3</sub> = 2000 UL<sub>54</sub>  
 1998 MU<sub>30</sub> = 2000 VG<sub>28</sub>  
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1998 QP<sub>10</sub> = 1998 RS<sub>20</sub>  
 1998 QY<sub>69</sub> = 2000 AZ<sub>179</sub>  
 1998 QL<sub>87</sub> = 1999 XC<sub>250</sub>  
 1998 QK<sub>108</sub> = 2000 AL<sub>115</sub>  
 1998 QR<sub>108</sub> = 2000 AB<sub>180</sub>  
 1998 QT<sub>108</sub> = 1997 LR<sub>6</sub>  
 1998 QB<sub>109</sub> = 1997 EG<sub>33</sub> = 2000 AY<sub>75</sub>  
 1998 QJ<sub>109</sub> = 2000 DZ<sub>22</sub>  
 1998 QY<sub>109</sub> = 2000 AV<sub>132</sub>  
 1998 RE<sub>7</sub> = 1999 VC<sub>169</sub>  
 1998 RV<sub>41</sub> = 1997 LK<sub>7</sub>  
 1998 RV<sub>53</sub> = 1985 XT<sub>2</sub>  
 1998 SO<sub>13</sub> = 2000 AS<sub>188</sub>  
 1998 SW<sub>72</sub> = 2000 EB<sub>180</sub>  
 1998 SF<sub>97</sub> = 1998 VO<sub>45</sub> = 1977 UO<sub>4</sub>  
 1998 SW<sub>146</sub> = 1998 UH<sub>42</sub>  
 1998 SJ<sub>162</sub> = 1987 SD<sub>25</sub>  
 1998 UZ<sub>44</sub> = 2000 AS<sub>184</sub>  
 1998 WY<sub>16</sub> = 1982 VR<sub>3</sub>  
 1998 WW<sub>36</sub> = 1997 HU<sub>6</sub>  
 1998 XX<sub>6</sub> = 1997 TS<sub>10</sub>  
 1998 XE<sub>65</sub> = 1982 BF<sub>14</sub>  
 1998 YE<sub>14</sub> = 1998 YC<sub>21</sub>  
 1998 YY<sub>31</sub> = 2000 KV<sub>34</sub>  
 1999 AF<sub>21</sub> = 1999 CQ<sub>59</sub>  
 1999 AC<sub>25</sub> = 1999 GZ<sub>47</sub> = 1979 QQ  
 1999 AU<sub>25</sub> = 1992 ER<sub>32</sub> = 2000 SD<sub>51</sub>  
 1999 BB<sub>32</sub> = 1984 BN<sub>5</sub>  
 1999 BV<sub>34</sub> = 2000 KG<sub>24</sub>  
 1999 CD<sub>29</sub> = 2000 QB<sub>16</sub>  
 1999 CU<sub>49</sub> = 2000 MS<sub>3</sub>  
 1999 CA<sub>80</sub> = 2000 SH<sub>51</sub>  
 1999 CS<sub>95</sub> = 1997 TR<sub>27</sub>  
 1999 CB<sub>107</sub> = 2000 NG<sub>6</sub>  
 1999 CL<sub>111</sub> = 2000 OF<sub>9</sub>  
 1999 CU<sub>117</sub> = 2000 SQ<sub>46</sub>  
 1999 DD<sub>2</sub> = 2000 SC<sub>229</sub>  
 1999 DW<sub>3</sub> = 2000 SD<sub>312</sub>  
 1999 EV<sub>2</sub> = 1990 SU<sub>21</sub>  
 1999 EG<sub>13</sub> = 1999 FD<sub>17</sub> = 2000 PN<sub>21</sub>  
 1999 FH = 2000 SY<sub>275</sub>  
 1999 FQ<sub>1</sub> = 2000 KZ<sub>80</sub>  
 1999 FR<sub>28</sub> = 2000 SD<sub>288</sub>  
 1999 FH<sub>32</sub> = 1986 OE = 2000 UM<sub>9</sub>  
 1999 FK<sub>32</sub> = 2000 UF<sub>99</sub>  
 1999 GB<sub>1</sub> = 2000 MV<sub>6</sub> = 2000 ON<sub>11</sub>  
 1999 GA<sub>2</sub> = 1990 VL<sub>16</sub> = 1990 WV<sub>10</sub> = 2000 SP<sub>126</sub>  
 1999 GM<sub>3</sub> = 2000 VZ<sub>42</sub>  
 1999 GW<sub>4</sub> = 2000 SJ<sub>2</sub>  
 1999 GM<sub>7</sub> = 1993 PW<sub>2</sub> = 2000 UB<sub>42</sub>  
 1999 GZ<sub>8</sub> = 2000 SH<sub>342</sub>  
 1999 GO<sub>10</sub> = 2000 SZ<sub>202</sub>

1999 GO<sub>12</sub> = 2000 UB<sub>53</sub>  
 1999 GG<sub>13</sub> = 2000 SW<sub>188</sub>  
 1999 GE<sub>16</sub> = 2000 TH<sub>12</sub>  
 1999 GQ<sub>23</sub> = 1989 MP = 1989 NZ<sub>1</sub> = 2000 SU<sub>179</sub>  
 1999 GR<sub>23</sub> = 1997 TX<sub>27</sub>  
 1999 GK<sub>24</sub> = 2000 SA<sub>117</sub>  
 1999 GK<sub>25</sub> = 2000 SL<sub>83</sub>  
 1999 GP<sub>29</sub> = 2000 SK<sub>37</sub>  
 1999 GA<sub>31</sub> = 2000 VN<sub>21</sub>  
 1999 GL<sub>33</sub> = 2000 UY<sub>87</sub>  
 1999 GA<sub>34</sub> = 2000 TD<sub>34</sub>  
 1999 GQ<sub>34</sub> = 2000 SQ<sub>339</sub>  
 1999 GR<sub>35</sub> = 2000 SV<sub>144</sub>  
 1999 GM<sub>41</sub> = 2000 SV<sub>213</sub>  
 1999 GM<sub>50</sub> = 2000 SG<sub>269</sub>  
 1999 GW<sub>50</sub> = 2000 OX<sub>39</sub>  
 1999 HR = 2000 UV<sub>47</sub>  
 1999 HV = 2000 VN<sub>34</sub>  
 1999 HQ<sub>1</sub> = 2000 SR<sub>278</sub>  
 1999 HQ<sub>2</sub> = 2000 UU<sub>6</sub>  
 1999 HF<sub>3</sub> = 1987 SL<sub>18</sub>  
 1999 HX<sub>7</sub> = 2000 VC<sub>18</sub>  
 1999 HR<sub>9</sub> = 2000 TW<sub>9</sub>  
 1999 HF<sub>12</sub> = 1994 HL = 2000 OC<sub>37</sub>  
 1999 JD<sub>2</sub> = 2000 SR<sub>86</sub>  
 1999 JE<sub>2</sub> = 2000 SZ<sub>87</sub>  
 1999 JT<sub>4</sub> = 2000 SP<sub>227</sub>  
 1999 JX<sub>4</sub> = 2000 UD<sub>76</sub>  
 1999 JS<sub>5</sub> = 2000 UN<sub>81</sub>  
 1999 JU<sub>5</sub> = 2000 UN<sub>29</sub>  
 1999 JH<sub>8</sub> = 2000 UK<sub>16</sub>  
 1999 JT<sub>8</sub> = 2000 UZ<sub>95</sub>  
 1999 JB<sub>12</sub> = 2000 UP<sub>29</sub>  
 1999 JY<sub>13</sub> = 2000 UU<sub>30</sub>  
 1999 JG<sub>15</sub> = 2000 SW<sub>320</sub>  
 1999 JK<sub>15</sub> = 2000 SM<sub>255</sub>  
 1999 JM<sub>18</sub> = 2000 SZ<sub>205</sub>  
 1999 JA<sub>19</sub> = 2000 UA<sub>60</sub>  
 1999 JU<sub>20</sub> = 1986 PW<sub>5</sub> = 1986 QU<sub>3</sub> = 1986 SU<sub>1</sub> = 2000 UL<sub>10</sub>  
 1999 JD<sub>21</sub> = 2000 VO<sub>3</sub>  
 1999 JL<sub>22</sub> = 2000 SF<sub>243</sub>  
 1999 JT<sub>23</sub> = 2000 OP<sub>9</sub>  
 1999 JK<sub>24</sub> = 2000 SH<sub>263</sub>  
 1999 JD<sub>25</sub> = 2000 UC<sub>97</sub>  
 1999 JF<sub>25</sub> = 2000 UM<sub>65</sub>  
 1999 JT<sub>26</sub> = 2000 SL<sub>193</sub>  
 1999 JC<sub>29</sub> = 2000 UQ<sub>96</sub>  
 1999 JB<sub>30</sub> = 2000 VD<sub>11</sub>  
 1999 JR<sub>30</sub> = 1990 VH<sub>13</sub> = 2000 SO<sub>295</sub>  
 1999 JE<sub>31</sub> = 2000 VM<sub>34</sub>  
 1999 JG<sub>31</sub> = 2000 UQ<sub>8</sub>  
 1999 JH<sub>32</sub> = 2000 SV<sub>286</sub>

1999 JQ<sub>33</sub> = 2000 SS<sub>285</sub>  
 1999 JV<sub>34</sub> = 2000 UU<sub>10</sub>  
 1999 JG<sub>36</sub> = 2000 SF<sub>318</sub>  
 1999 JJ<sub>36</sub> = 2000 SD<sub>210</sub>  
 1999 JS<sub>36</sub> = 2000 VG<sub>6</sub>  
 1999 JG<sub>37</sub> = 2000 VA<sub>24</sub>  
 1999 JR<sub>37</sub> = 2000 TZ<sub>2</sub>  
 1999 JL<sub>39</sub> = 2000 VC<sub>26</sub>  
 1999 JN<sub>39</sub> = 2000 VK<sub>48</sub>  
 1999 JV<sub>40</sub> = 2000 UQ<sub>45</sub>  
 1999 JX<sub>40</sub> = 1990 WH<sub>8</sub> = 2000 VA<sub>17</sub>  
 1999 JE<sub>41</sub> = 2000 UG<sub>87</sub>  
 1999 JR<sub>41</sub> = 2000 SD<sub>308</sub>  
 1999 JZ<sub>41</sub> = 2000 TZ<sub>14</sub>  
 1999 JG<sub>43</sub> = 2000 ST<sub>68</sub>  
 1999 JJ<sub>43</sub> = 2000 UP<sub>52</sub>  
 1999 JT<sub>43</sub> = 2000 SC<sub>296</sub>  
 1999 JN<sub>45</sub> = 2000 US<sub>41</sub>  
 1999 JH<sub>46</sub> = 2000 SN<sub>130</sub>  
 1999 JE<sub>48</sub> = 1981 RY<sub>1</sub>  
 1999 JN<sub>48</sub> = 2000 UR<sub>3</sub>  
 1999 JO<sub>48</sub> = 1996 WB<sub>3</sub> = 2000 SW<sub>276</sub>  
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 1999 JX<sub>48</sub> = 2000 SG<sub>343</sub>  
 1999 JZ<sub>48</sub> = 2000 UJ<sub>10</sub>  
 1999 JH<sub>50</sub> = 2000 TN<sub>25</sub>  
 1999 JP<sub>50</sub> = 2000 SQ<sub>275</sub>  
 1999 JC<sub>51</sub> = 2000 UM<sub>56</sub>  
 1999 JT<sub>51</sub> = 2000 VY<sub>45</sub>  
 1999 JD<sub>52</sub> = 2000 SL<sub>107</sub>  
 1999 JQ<sub>52</sub> = 2000 UR<sub>52</sub>  
 1999 JH<sub>53</sub> = 2000 UU<sub>54</sub>  
 1999 JL<sub>53</sub> = 2000 ST<sub>41</sub>  
 1999 JH<sub>54</sub> = 2000 UU<sub>85</sub>  
 1999 JY<sub>54</sub> = 2000 UY<sub>73</sub>  
 1999 JC<sub>55</sub> = 2000 UB<sub>4</sub>  
 1999 JH<sub>55</sub> = 2000 UA<sub>34</sub>  
 1999 JL<sub>55</sub> = 2000 UB<sub>107</sub>  
 1999 JZ<sub>55</sub> = 2000 SH<sub>286</sub> = 2000 TF<sub>22</sub>  
 1999 JD<sub>56</sub> = 2000 SZ<sub>337</sub>  
 1999 JM<sub>56</sub> = 2000 VJ<sub>17</sub>  
 1999 JL<sub>57</sub> = 2000 VZ<sub>17</sub>  
 1999 JD<sub>58</sub> = 2000 UE<sub>100</sub>  
 1999 JK<sub>58</sub> = 2000 UQ<sub>79</sub>  
 1999 JN<sub>58</sub> = 1989 TM<sub>12</sub> = 2000 UA<sub>9</sub>  
 1999 JP<sub>58</sub> = 2000 SH<sub>301</sub>  
 1999 JG<sub>59</sub> = 2000 ST<sub>211</sub>  
 1999 JN<sub>59</sub> = 2000 VV<sub>16</sub>  
 1999 JQ<sub>59</sub> = 2000 VF<sub>27</sub>  
 1999 JD<sub>61</sub> = 2000 VQ<sub>29</sub>  
 1999 JE<sub>61</sub> = 2000 UH<sub>27</sub>  
 1999 JF<sub>61</sub> = 2000 VB<sub>18</sub>

1999 JK<sub>61</sub> = 2000 VF<sub>35</sub>  
 1999 JU<sub>62</sub> = 2000 UO<sub>21</sub>  
 1999 JW<sub>62</sub> = 1999 LC<sub>23</sub>  
 1999 JE<sub>63</sub> = 2000 TN<sub>28</sub>  
 1999 JC<sub>64</sub> = 1987 SV<sub>5</sub> = 2000 UM<sub>49</sub>  
 1999 JW<sub>64</sub> = 2000 UQ<sub>60</sub>  
 1999 JU<sub>65</sub> = 1999 GC<sub>49</sub> = 2000 VY<sub>19</sub>  
 1999 JX<sub>65</sub> = 2000 UT<sub>9</sub>  
 1999 JB<sub>67</sub> = 2000 SO<sub>13</sub>  
 1999 JD<sub>68</sub> = 2000 UP<sub>28</sub>  
 1999 JJ<sub>68</sub> = 1998 BZ<sub>45</sub> = 2000 RP<sub>7</sub>  
 1999 JR<sub>68</sub> = 2000 UV<sub>42</sub>  
 1999 JW<sub>68</sub> = 2000 SU<sub>144</sub>  
 1999 JY<sub>68</sub> = 1988 GB<sub>2</sub> = 1990 WR<sub>10</sub>  
 1999 JO<sub>70</sub> = 2000 UR<sub>85</sub>  
 1999 JY<sub>70</sub> = 2000 SN<sub>253</sub>  
 1999 JG<sub>71</sub> = 2000 VH  
 1999 JK<sub>71</sub> = 2000 UM<sub>17</sub>  
 1999 JQ<sub>72</sub> = 2000 TT<sub>66</sub>  
 1999 JA<sub>73</sub> = 2000 SB<sub>259</sub>  
 1999 JE<sub>73</sub> = 2000 TU<sub>58</sub>  
 1999 JG<sub>74</sub> = 2000 UP<sub>25</sub>  
 1999 JN<sub>76</sub> = 2000 UO<sub>107</sub>  
 1999 JB<sub>78</sub> = 1982 HT<sub>1</sub>  
 1999 JH<sub>78</sub> = 2000 UV<sub>8</sub>  
 1999 JW<sub>78</sub> = 2000 VZ<sub>24</sub>  
 1999 JY<sub>78</sub> = 2000 TS<sub>19</sub>  
 1999 JP<sub>79</sub> = 2000 UR<sub>82</sub>  
 1999 JA<sub>80</sub> = 1999 LT<sub>11</sub> = 2000 SN<sub>339</sub>  
 1999 JV<sub>81</sub> = 2000 TH<sub>19</sub>  
 1999 JW<sub>82</sub> = 2000 TD<sub>57</sub>  
 1999 JT<sub>85</sub> = 2000 TY<sub>24</sub>  
 1999 JC<sub>86</sub> = 2000 TV<sub>38</sub>  
 1999 JK<sub>88</sub> = 2000 SY<sub>213</sub>  
 1999 JU<sub>90</sub> = 2000 TS<sub>26</sub>  
 1999 JW<sub>90</sub> = 2000 SE<sub>95</sub>  
 1999 JZ<sub>90</sub> = 2000 RX<sub>80</sub>  
 1999 JZ<sub>92</sub> = 2000 TB<sub>60</sub>  
 1999 JW<sub>93</sub> = 2000 UX<sub>26</sub>  
 1999 JY<sub>95</sub> = 2000 TZ<sub>61</sub>  
 1999 JP<sub>97</sub> = 2000 TJ<sub>44</sub>  
 1999 JQ<sub>97</sub> = 2000 SW<sub>279</sub>  
 1999 JR<sub>107</sub> = 2000 VL<sub>34</sub>  
 1999 JT<sub>107</sub> = 2000 SZ<sub>206</sub>  
 1999 JN<sub>108</sub> = 2000 SA<sub>254</sub>  
 1999 JS<sub>108</sub> = 2000 UQ<sub>105</sub>  
 1999 JA<sub>113</sub> = 2000 UG<sub>103</sub>  
 1999 JC<sub>114</sub> = 2000 US<sub>40</sub>  
 1999 JW<sub>114</sub> = 2000 VR<sub>52</sub>  
 1999 JA<sub>116</sub> = 2000 SR<sub>300</sub>  
 1999 JB<sub>117</sub> = 2000 TT<sub>14</sub>  
 1999 JD<sub>117</sub> = 2000 UF<sub>10</sub>

1999 JS<sub>117</sub> = 2000 QH<sub>45</sub>  
 1999 JV<sub>117</sub> = 2000 SU<sub>132</sub>  
 1999 JQ<sub>119</sub> = 2000 UA<sub>25</sub>  
 1999 JR<sub>119</sub> = 2000 UA<sub>53</sub>  
 1999 JZ<sub>119</sub> = 2000 VC<sub>11</sub>  
 1999 JC<sub>120</sub> = 2000 UO<sub>50</sub>  
 1999 JO<sub>120</sub> = 2000 VL<sub>20</sub>  
 1999 JJ<sub>122</sub> = 1999 LQ<sub>18</sub>  
 1999 JN<sub>122</sub> = 2000 VY<sub>46</sub>  
 1999 JO<sub>122</sub> = 1999 LK<sub>23</sub>  
 1999 JB<sub>123</sub> = 2000 VY  
 1999 JX<sub>123</sub> = 2000 UQ<sub>50</sub>  
 1999 JN<sub>126</sub> = 2000 SD<sub>84</sub>  
 1999 KL<sub>7</sub> = 2000 UQ<sub>110</sub>  
 1999 KQ<sub>10</sub> = 2000 US<sub>48</sub>  
 1999 KU<sub>10</sub> = 2000 UA<sub>48</sub>  
 1999 KS<sub>11</sub> = 2000 VY<sub>6</sub>  
 1999 KJ<sub>13</sub> = 2000 SV<sub>313</sub>  
 1999 KU<sub>13</sub> = 1999 LZ<sub>18</sub> = 2000 SJ<sub>288</sub>  
 1999 KF<sub>15</sub> = 2000 UQ<sub>77</sub>  
 1999 LN = 2000 UA<sub>81</sub>  
 1999 LW = 2000 UT<sub>6</sub>  
 1999 LL<sub>2</sub> = 2000 UK<sub>20</sub>  
 1999 LT<sub>2</sub> = 2000 SF<sub>245</sub>  
 1999 LC<sub>6</sub> = 2000 SV<sub>278</sub>  
 1999 LE<sub>11</sub> = 1995 DQ<sub>13</sub> = 1996 PP<sub>6</sub> = 2000 SG<sub>265</sub>  
 1999 LZ<sub>11</sub> = 2000 TB<sub>30</sub>  
 1999 LJ<sub>13</sub> = 2000 TT<sub>51</sub>  
 1999 LL<sub>13</sub> = 2000 VX<sub>39</sub>  
 1999 LS<sub>13</sub> = 2000 UL<sub>52</sub>  
 1999 LN<sub>16</sub> = 2095 T-1 = 2000 QS<sub>96</sub>  
 1999 LC<sub>19</sub> = 2000 SJ<sub>336</sub>  
 1999 LR<sub>19</sub> = 2000 SD<sub>310</sub>  
 1999 LY<sub>20</sub> = 2000 TF<sub>20</sub>  
 1999 LF<sub>27</sub> = 2000 UM<sub>110</sub>  
 1999 LD<sub>28</sub> = 2000 SG<sub>92</sub>  
 1999 LW<sub>29</sub> = 1998 EK<sub>20</sub>  
 1999 LA<sub>30</sub> = 2000 TO<sub>24</sub>  
 1999 LM<sub>32</sub> = 2000 OX<sub>41</sub>  
 1999 LA<sub>35</sub> = 2000 RU<sub>52</sub>  
 1999 MW<sub>1</sub> = 2000 AL<sub>92</sub>  
 1999 NO<sub>1</sub> = 2000 TL<sub>33</sub>  
 1999 NJ<sub>6</sub> = 2000 SU<sub>100</sub>  
 1999 NA<sub>7</sub> = 1998 FP<sub>33</sub> = 2000 RD<sub>56</sub>  
 1999 NH<sub>11</sub> = 2000 SN<sub>182</sub>  
 1999 NP<sub>11</sub> = 2000 SY<sub>287</sub>  
 1999 NR<sub>13</sub> = 2000 SO<sub>314</sub>  
 1999 NO<sub>16</sub> = 2000 SA<sub>174</sub>  
 1999 ND<sub>19</sub> = 2000 VC<sub>20</sub>  
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 1999 ND<sub>42</sub> = 2000 VV<sub>10</sub>

1999 NG<sub>55</sub> = 2000 VJ<sub>36</sub>  
 1999 NH<sub>55</sub> = 2000 VY<sub>55</sub>  
 1999 NO<sub>56</sub> = 2000 UD<sub>79</sub>  
 1999 NS<sub>59</sub> = 2000 VW<sub>50</sub>  
 1999 PO<sub>1</sub> = 2000 UY<sub>60</sub>  
 1999 PJ<sub>4</sub> = 2000 SX<sub>161</sub>  
 1999 PF<sub>6</sub> = 1997 EB<sub>21</sub>  
 1999 QU = 1996 BW<sub>10</sub>  
 1999 RR = 2000 VQ<sub>37</sub>  
 1999 RJ<sub>1</sub> = 2000 UF<sub>9</sub>  
 1999 RE<sub>2</sub> = 1988 VD<sub>13</sub>  
 1999 RM<sub>2</sub> = 2000 VN<sub>47</sub>  
 1999 RJ<sub>10</sub> = 1976 SG<sub>8</sub> = 1982 SN<sub>11</sub> = 1998 EC<sub>22</sub>  
 1999 RE<sub>12</sub> = 1998 EF<sub>1</sub>  
 1999 RC<sub>13</sub> = 2000 SZ<sub>184</sub>  
 1999 RV<sub>17</sub> = 2000 VF<sub>47</sub>  
 1999 RP<sub>46</sub> = 2000 RB<sub>55</sub>  
 1999 RD<sub>48</sub> = 1999 QD<sub>3</sub> = 1972 TE<sub>11</sub> = 1978 VN<sub>11</sub> = 1997 GY<sub>43</sub> = 1998 LK<sub>1</sub>  
 1999 RO<sub>48</sub> = 1991 HV = 2000 UW<sub>52</sub>  
 1999 RD<sub>50</sub> = 2000 UM<sub>12</sub>  
 1999 RY<sub>53</sub> = 1996 VP<sub>31</sub>  
 1999 RW<sub>54</sub> = 1984 SF<sub>8</sub>  
 1999 RD<sub>56</sub> = 1979 SN<sub>14</sub>  
 1999 RD<sub>59</sub> = 2000 SR<sub>294</sub>  
 1999 RL<sub>61</sub> = 2000 VH<sub>14</sub>  
 1999 RA<sub>63</sub> = 1999 VN<sub>135</sub>  
 1999 RN<sub>73</sub> = 2000 VK<sub>47</sub>  
 1999 RU<sub>96</sub> = 1993 FN<sub>61</sub>  
 1999 RT<sub>98</sub> = 1999 TK<sub>93</sub>  
 1999 RT<sub>100</sub> = 1982 UF<sub>12</sub>  
 1999 RG<sub>102</sub> = 1999 VP<sub>177</sub>  
 1999 RR<sub>102</sub> = 1989 SU<sub>13</sub>  
 1999 RH<sub>107</sub> = 1996 AP<sub>10</sub>  
 1999 RV<sub>107</sub> = 1974 HY = 2000 UE<sub>5</sub>  
 1999 RO<sub>111</sub> = 1987 QL<sub>2</sub> = 1987 RP  
 1999 RS<sub>111</sub> = 1998 HL<sub>33</sub>  
 1999 RC<sub>112</sub> = 1990 KB = 1991 PO<sub>20</sub> = 1994 JP<sub>1</sub> = 1998 HB<sub>106</sub> = 2000 SH<sub>221</sub>  
 1999 RM<sub>112</sub> = 1983 VF<sub>4</sub>  
 1999 RT<sub>113</sub> = 1993 FP<sub>65</sub>  
 1999 RC<sub>114</sub> = 2000 UE<sub>10</sub>  
 1999 RL<sub>114</sub> = 1998 HS<sub>63</sub>  
 1999 RB<sub>116</sub> = 1981 SV  
 1999 RY<sub>116</sub> = 2000 SO<sub>287</sub>  
 1999 RZ<sub>117</sub> = 2000 SU<sub>293</sub>  
 1999 RS<sub>118</sub> = 1991 GS<sub>14</sub>  
 1999 RM<sub>125</sub> = 1991 TV<sub>5</sub> = 1997 AK<sub>15</sub>  
 1999 RT<sub>125</sub> = 2000 SK<sub>232</sub>  
 1999 RC<sub>129</sub> = 2000 SM<sub>287</sub>  
 1999 RM<sub>135</sub> = 1953 RB<sub>2</sub>  
 1999 RV<sub>135</sub> = 1998 FT<sub>114</sub>  
 1999 RJ<sub>143</sub> = 1989 TV<sub>4</sub>  
 1999 RL<sub>145</sub> = 1997 XS<sub>4</sub>

1999 RT<sub>145</sub> = 1978 WC<sub>21</sub>  
 1999 RB<sub>148</sub> = 1998 HG<sub>94</sub>  
 1999 RU<sub>148</sub> = 1994 CO<sub>6</sub>  
 1999 RW<sub>148</sub> = 1993 FB<sub>69</sub>  
 1999 RK<sub>149</sub> = 1992 HW<sub>3</sub>  
 1999 RR<sub>149</sub> = 2000 QP<sub>217</sub>  
 1999 RS<sub>150</sub> = 2000 SB<sub>99</sub>  
 1999 RU<sub>151</sub> = 1996 TF<sub>36</sub>  
 1999 RS<sub>152</sub> = 1997 EV<sub>55</sub>  
 1999 RK<sub>153</sub> = 1998 FJ<sub>123</sub>  
 1999 RS<sub>154</sub> = 2000 VJ<sub>38</sub>  
 1999 RZ<sub>156</sub> = 1993 FB<sub>60</sub>  
 1999 RE<sub>162</sub> = 1989 YQ<sub>3</sub> = 1998 KV<sub>4</sub>  
 1999 RY<sub>163</sub> = 1985 YJ<sub>2</sub>  
 1999 RH<sub>167</sub> = 1981 UF<sub>6</sub>  
 1999 RW<sub>167</sub> = 2000 VL<sub>28</sub>  
 1999 RG<sub>172</sub> = 1981 WL<sub>3</sub>  
 1999 RL<sub>174</sub> = 1998 FR<sub>7</sub>  
 1999 RM<sub>174</sub> = 1997 AB<sub>23</sub>  
 1999 RN<sub>175</sub> = 1991 GJ<sub>9</sub> = 1998 HX<sub>82</sub>  
 1999 RW<sub>178</sub> = 1999 RU<sub>255</sub> = 2000 UC<sub>49</sub>  
 1999 RS<sub>180</sub> = 1998 HP<sub>48</sub>  
 1999 RA<sub>186</sub> = 1986 EK<sub>4</sub> = 2000 SN<sub>332</sub>  
 1999 RH<sub>187</sub> = 1998 HZ<sub>19</sub>  
 1999 RP<sub>189</sub> = 1998 HB<sub>10</sub>  
 1999 RY<sub>193</sub> = 1990 AW  
 1999 RE<sub>196</sub> = 1989 SQ<sub>12</sub>  
 1999 RE<sub>202</sub> = 2000 VS<sub>36</sub>  
 1999 RR<sub>204</sub> = 1989 UZ  
 1999 RV<sub>204</sub> = 1995 YU<sub>22</sub>  
 1999 RV<sub>207</sub> = 1999 UW<sub>44</sub>  
 1999 RA<sub>210</sub> = 2000 AB<sub>146</sub>  
 1999 RN<sub>226</sub> = 2000 VB  
 1999 RS<sub>230</sub> = 1998 HF<sub>111</sub>  
 1999 RV<sub>230</sub> = 1998 MV<sub>18</sub>  
 1999 RQ<sub>231</sub> = 1996 XA<sub>35</sub>  
 1999 RN<sub>232</sub> = 1996 DA<sub>2</sub>  
 1999 RR<sub>232</sub> = 1998 HM<sub>45</sub>  
 1999 RZ<sub>234</sub> = 1999 SJ<sub>23</sub>  
 1999 RG<sub>235</sub> = 1993 KD<sub>1</sub>  
 1999 RY<sub>235</sub> = 1998 HY<sub>125</sub> = 1999 VX<sub>202</sub>  
 1999 RC<sub>239</sub> = 1998 FN<sub>145</sub>  
 1999 RV<sub>240</sub> = 1999 VD<sub>203</sub>  
 1999 RY<sub>245</sub> = 1997 AU<sub>15</sub>  
 1999 RB<sub>246</sub> = 1998 HX<sub>135</sub>  
 1999 SY<sub>4</sub> = 2000 SZ<sub>276</sub>  
 1999 SK<sub>6</sub> = 2000 VR<sub>50</sub>  
 1999 SN<sub>13</sub> = 1993 FO<sub>76</sub> = 1998 KE<sub>31</sub>  
 1999 SJ<sub>14</sub> = 2000 SD<sub>280</sub>  
 1999 SP<sub>16</sub> = 1998 MR<sub>41</sub> = 2000 RK<sub>74</sub>  
 1999 SW<sub>24</sub> = 1991 VJ<sub>7</sub>  
 1999 TH = 2000 VJ<sub>33</sub>

1999 TP<sub>7</sub> = 1999 OU<sub>2</sub>  
 1999 TK<sub>14</sub> = 1988 VY<sub>12</sub>  
 1999 TB<sub>90</sub> = 1988 PS<sub>2</sub>  
 1999 TG<sub>91</sub> = 1998 FY<sub>120</sub>  
 1999 TM<sub>101</sub> = 2000 UR<sub>28</sub>  
 1999 TL<sub>102</sub> = 2000 AB<sub>245</sub>  
 1999 TP<sub>103</sub> = 1978 UU<sub>4</sub>  
 1999 TX<sub>105</sub> = 1999 TM<sub>248</sub>  
 1999 TE<sub>107</sub> = 1992 AM<sub>6</sub> = 2000 VT<sub>36</sub>  
 1999 TQ<sub>136</sub> = 1998 MP<sub>14</sub>  
 1999 TR<sub>142</sub> = 1993 FZ<sub>69</sub>  
 1999 TS<sub>151</sub> = 1982 EC  
 1999 TZ<sub>164</sub> = 1998 FQ<sub>146</sub>  
 1999 TA<sub>166</sub> = 1995 WH<sub>16</sub>  
 1999 TM<sub>175</sub> = 1998 HR<sub>141</sub>  
 1999 TU<sub>184</sub> = 2000 VG<sub>36</sub>  
 1999 TH<sub>207</sub> = 2000 VF<sub>37</sub>  
 1999 TP<sub>216</sub> = 1993 BJ<sub>12</sub>  
 1999 TL<sub>244</sub> = 1997 EK<sub>51</sub>  
 1999 TP<sub>247</sub> = 1995 YM<sub>8</sub>  
 1999 TH<sub>254</sub> = 1994 RJ<sub>24</sub>  
 1999 TX<sub>258</sub> = 1996 BD<sub>15</sub> = 1997 EU<sub>47</sub>  
 1999 TL<sub>261</sub> = 2000 AH<sub>200</sub>  
 1999 TG<sub>265</sub> = 2000 VP<sub>57</sub>  
 1999 TV<sub>276</sub> = 1990 EB<sub>4</sub>  
 1999 TP<sub>284</sub> = 1998 HC<sub>107</sub>  
 1999 TQ<sub>284</sub> = 1998 KW<sub>56</sub>  
 1999 TN<sub>290</sub> = 1998 QS<sub>65</sub>  
 1999 UT<sub>3</sub> = 1969 VK  
 1999 UP<sub>45</sub> = 2000 VE<sub>37</sub>  
 1999 VM<sub>2</sub> = 1993 KN  
 1999 VQ<sub>4</sub> = 2000 CZ<sub>65</sub>  
 1999 VX<sub>11</sub> = 1975 XP<sub>4</sub> = 1991 AH<sub>4</sub> = 2000 VU<sub>36</sub>  
 1999 VC<sub>49</sub> = 1985 SN<sub>5</sub>  
 1999 VF<sub>51</sub> = 1995 QU<sub>6</sub>  
 1999 VR<sub>95</sub> = 1995 VU<sub>2</sub>  
 1999 VK<sub>97</sub> = 1995 YA<sub>8</sub>  
 1999 VO<sub>99</sub> = 1998 QT<sub>81</sub>  
 1999 VZ<sub>121</sub> = 1995 UF<sub>2</sub>  
 1999 VV<sub>123</sub> = 1990 ET<sub>6</sub>  
 1999 VE<sub>127</sub> = 2000 VC<sub>36</sub>  
 1999 VA<sub>133</sub> = 1999 TH<sub>227</sub>  
 1999 VG<sub>133</sub> = 1997 KG<sub>1</sub>  
 1999 VJ<sub>161</sub> = 1995 UN<sub>42</sub>  
 1999 VX<sub>167</sub> = 1997 JL<sub>11</sub>  
 1999 VM<sub>168</sub> = 1998 QO<sub>96</sub>  
 1999 VP<sub>168</sub> = 1991 TQ<sub>5</sub>  
 1999 VO<sub>169</sub> = 1993 RZ<sub>11</sub>  
 1999 VU<sub>169</sub> = 1978 RL<sub>8</sub>  
 1999 VO<sub>173</sub> = 1997 EX<sub>48</sub>  
 1999 VA<sub>200</sub> = 1998 GS<sub>7</sub>  
 1999 WS<sub>3</sub> = 1978 VC<sub>16</sub>

1999 WZ<sub>3</sub> = 1992 LH<sub>2</sub>  
 1999 XG<sub>7</sub> = 1981 JG<sub>4</sub>  
 1999 XZ<sub>15</sub> = 1991 UP  
 1999 XT<sub>17</sub> = 1979 UU<sub>3</sub> = 1979 VH  
 1999 XW<sub>32</sub> = 1990 DH<sub>8</sub>  
 1999 XJ<sub>33</sub> = 1983 XR  
 1999 XF<sub>34</sub> = 1982 BL<sub>6</sub>  
 1999 XQ<sub>38</sub> = 1978 EY<sub>3</sub>  
 1999 XJ<sub>93</sub> = 1971 BM<sub>2</sub>  
 1999 XS<sub>104</sub> = 1989 XR<sub>2</sub>  
 1999 XL<sub>127</sub> = 1971 TR<sub>1</sub> = 1977 AG<sub>1</sub>  
 1999 XA<sub>160</sub> = 1978 AJ  
 1999 XT<sub>164</sub> = 1987 AR  
 1999 XJ<sub>174</sub> = 1985 UR<sub>4</sub> = 1985 VK<sub>4</sub>  
 1999 XK<sub>176</sub> = 1978 EF<sub>4</sub>  
 1999 XL<sub>176</sub> = 1978 GX<sub>4</sub>  
 1999 XZ<sub>191</sub> = 1979 QP<sub>5</sub>  
 1999 XH<sub>205</sub> = 1998 RN<sub>30</sub>  
 1999 XB<sub>212</sub> = 1998 SM<sub>82</sub>  
 1999 XB<sub>214</sub> = 2000 VR<sub>58</sub>  
 1999 XS<sub>241</sub> = 1983 CO<sub>4</sub> = 1990 DD<sub>3</sub>  
 1999 XN<sub>243</sub> = 1980 TJ<sub>5</sub>  
 1999 XF<sub>245</sub> = 1998 SQ<sub>5</sub>  
 1999 YQ = 1990 HW<sub>2</sub>  
 1999 YE<sub>5</sub> = 1979 BF<sub>1</sub>  
 2000 AE = 1985 VV<sub>4</sub>  
 2000 AW<sub>10</sub> = 1997 EY<sub>35</sub>  
 2000 AL<sub>12</sub> = 1998 MM<sub>41</sub>  
 2000 AY<sub>20</sub> = 1981 EC<sub>46</sub> = 1998 QV<sub>35</sub>  
 2000 AR<sub>23</sub> = 1989 TB<sub>7</sub>  
 2000 AP<sub>27</sub> = 1998 SG<sub>155</sub>  
 2000 AC<sub>40</sub> = 1981 JE<sub>4</sub>  
 2000 AN<sub>46</sub> = 1992 SB<sub>9</sub> = 1998 SK<sub>70</sub>  
 2000 AZ<sub>76</sub> = 1998 QT<sub>33</sub>  
 2000 AA<sub>86</sub> = 1998 SO<sub>52</sub>  
 2000 AL<sub>104</sub> = 1949 NB = 1980 FV<sub>10</sub> = 1981 US<sub>19</sub> = 1984 MS = 1987 FT = 1988 VE<sub>8</sub>  
                     = 1998 MH<sub>11</sub>  
 2000 AV<sub>110</sub> = 1998 XN<sub>30</sub>  
 2000 AA<sub>136</sub> = 1997 EM<sub>5</sub>  
 2000 AA<sub>174</sub> = 1998 QA<sub>109</sub>  
 2000 AR<sub>184</sub> = 1998 XL<sub>60</sub>  
 2000 AW<sub>208</sub> = 1997 CW<sub>13</sub>  
 2000 AW<sub>209</sub> = 1991 LV<sub>5</sub>  
 2000 AJ<sub>234</sub> = 1997 EC<sub>16</sub>  
 2000 AH<sub>235</sub> = 1999 XW<sub>227</sub>  
 2000 AZ<sub>240</sub> = 1986 PD<sub>5</sub>  
 2000 AB<sub>248</sub> = 1978 ST  
 2000 BP = 1998 SZ<sub>61</sub>  
 2000 BJ<sub>2</sub> = 1996 FJ<sub>2</sub>  
 2000 CA<sub>1</sub> = 1993 OR<sub>10</sub>  
 2000 CF<sub>3</sub> = 1991 RE<sub>32</sub>  
 2000 CF<sub>6</sub> = 1981 UX<sub>28</sub>

2000 CH<sub>18</sub> = 1997 HN<sub>12</sub>  
 2000 CT<sub>66</sub> = 1985 QH<sub>3</sub>  
 2000 CS<sub>68</sub> = 1998 UU<sub>8</sub>  
 2000 CU<sub>70</sub> = 1998 XR<sub>85</sub>  
 2000 CF<sub>83</sub> = 2000 AP<sub>242</sub> = 1988 SC<sub>4</sub> = 1998 XQ<sub>81</sub>  
 2000 CM<sub>126</sub> = 1993 FP<sub>60</sub>  
 2000 DP<sub>6</sub> = 1998 SV<sub>161</sub>  
 2000 DQ<sub>96</sub> = 2000 EU<sub>111</sub>  
 2000 ER<sub>10</sub> = 2000 CP<sub>110</sub>  
 2000 EJ<sub>14</sub> = 1980 FC<sub>8</sub> = 1982 SA<sub>11</sub>  
 2000 EO<sub>58</sub> = 1988 VR<sub>12</sub>  
 2000 FE<sub>26</sub> = 1977 RN<sub>20</sub> = 1991 UW<sub>1</sub> = 1998 XM<sub>30</sub>  
 2000 FZ<sub>29</sub> = 1978 WU<sub>10</sub>  
 2000 FM<sub>30</sub> = 1977 RB<sub>2</sub> = 1977 TX<sub>2</sub>  
 2000 FE<sub>73</sub> = 1998 WS<sub>26</sub>  
 2000 GG<sub>33</sub> = 1986 TZ<sub>8</sub>  
 2000 GZ<sub>96</sub> = 1985 SJ<sub>2</sub> = 1985 SG<sub>5</sub>  
 2000 GH<sub>100</sub> = 3056 T-1 = 1979 QY<sub>3</sub> = 1996 DD<sub>5</sub>  
 2000 GK<sub>160</sub> = 1977 EV<sub>7</sub>  
 2000 GO<sub>167</sub> = 2000 EF<sub>173</sub> = 1997 TM<sub>7</sub>  
 2000 GE<sub>177</sub> = 1997 MF<sub>8</sub>  
 2000 GR<sub>179</sub> = 1998 XK<sub>84</sub>  
 2000 HZ<sub>7</sub> = 2000 GF<sub>71</sub>  
 2000 HZ<sub>25</sub> = 1980 FM<sub>3</sub>  
 2000 HB<sub>44</sub> = 1976 UW<sub>13</sub>  
 2000 HQ<sub>44</sub> = 1982 BU<sub>5</sub>  
 2000 HH<sub>51</sub> = 1997 UC<sub>2</sub>  
 2000 HB<sub>55</sub> = 1995 FD<sub>19</sub>  
 2000 HN<sub>73</sub> = 1998 XJ<sub>81</sub>  
 2000 HJ<sub>81</sub> = 1998 XD<sub>48</sub>  
 2000 HV<sub>81</sub> = 1995 WC<sub>35</sub>  
 2000 HQ<sub>90</sub> = 1996 JP<sub>15</sub>  
 2000 HA<sub>91</sub> = 1998 XC<sub>93</sub>  
 2000 HD<sub>98</sub> = 1996 JG<sub>16</sub>  
 2000 HG<sub>103</sub> = 1998 XG<sub>91</sub>  
 2000 JU<sub>51</sub> = 1986 RM<sub>8</sub>  
 2000 JC<sub>52</sub> = 1986 NP  
 2000 KN<sub>7</sub> = 1990 HZ<sub>5</sub>  
 2000 KR<sub>17</sub> = 1987 YC<sub>6</sub>  
 2000 KP<sub>24</sub> = 1998 XN<sub>40</sub>  
 2000 KL<sub>41</sub> = 1976 SX<sub>8</sub>  
 2000 KD<sub>58</sub> = 1998 YK<sub>32</sub> = 1999 BZ<sub>34</sub>  
 2000 KZ<sub>64</sub> = 1998 XV<sub>52</sub>  
 2000 LM<sub>5</sub> = 1999 EM<sub>5</sub>  
 2000 LV<sub>13</sub> = 1979 MG  
 2000 LK<sub>19</sub> = 1990 VL<sub>9</sub>  
 2000 LL<sub>30</sub> = 1991 KA<sub>1</sub>  
 2000 LZ<sub>31</sub> = 1987 SN<sub>23</sub>  
 2000 LP<sub>32</sub> = 1980 WC<sub>2</sub>  
 2000 LU<sub>35</sub> = 1989 RR<sub>4</sub>  
 2000 MN<sub>1</sub> = 1996 LV  
 2000 MR<sub>1</sub> = 1991 PK<sub>26</sub>

2000 MQ<sub>5</sub> = 1987 SZ<sub>8</sub>  
 2000 NR = 1980 XY<sub>2</sub> = 1984 WU<sub>2</sub>  
 2000 ND<sub>7</sub> = 1993 FW<sub>63</sub>  
 2000 NM<sub>11</sub> = 1992 ES  
 2000 NM<sub>13</sub> = 1996 RU<sub>7</sub>  
 2000 NJ<sub>14</sub> = 1982 BH<sub>3</sub>  
 2000 NN<sub>14</sub> = 1995 EA<sub>2</sub>  
 2000 NY<sub>16</sub> = 1988 AH<sub>3</sub>  
 2000 NP<sub>19</sub> = 1987 SZ<sub>19</sub> = 1987 US<sub>2</sub>  
 2000 NZ<sub>20</sub> = 1991 PV<sub>3</sub> = 1991 PR<sub>20</sub>  
 2000 NQ<sub>23</sub> = 1949 PG = 1983 RS<sub>6</sub> = 1983 RK<sub>7</sub>  
 2000 NZ<sub>23</sub> = 1980 TL<sub>2</sub>  
 2000 NE<sub>27</sub> = 1969 TX<sub>6</sub>  
 2000 OQ<sub>2</sub> = 1978 WG<sub>3</sub>  
 2000 ON<sub>5</sub> = 1989 AZ<sub>7</sub>  
 2000 OR<sub>6</sub> = 1997 WD<sub>24</sub>  
 2000 OW<sub>8</sub> = 1986 RE<sub>3</sub>  
 2000 OW<sub>9</sub> = 1957 YX  
 2000 OZ<sub>9</sub> = 1987 SR<sub>2</sub>  
 2000 OC<sub>11</sub> = 1987 QH<sub>4</sub>  
 2000 OY<sub>16</sub> = 1990 OH<sub>5</sub>  
 2000 ON<sub>17</sub> = 1988 XB<sub>3</sub>  
 2000 OP<sub>18</sub> = 1985 SB<sub>5</sub> = 1985 SD<sub>7</sub> = 1985 TX<sub>2</sub>  
 2000 ON<sub>21</sub> = 1991 DF<sub>1</sub>  
 2000 OP<sub>22</sub> = 1999 LJ<sub>8</sub>  
 2000 OL<sub>27</sub> = 1999 JJ<sub>66</sub>  
 2000 OQ<sub>27</sub> = 1987 OJ<sub>1</sub>  
 2000 OX<sub>29</sub> = 1999 GM<sub>46</sub>  
 2000 OB<sub>30</sub> = 1990 AX  
 2000 OC<sub>30</sub> = 1997 WG<sub>34</sub>  
 2000 OE<sub>31</sub> = 1997 XH<sub>3</sub>  
 2000 OX<sub>40</sub> = 1995 UB<sub>20</sub>  
 2000 OM<sub>44</sub> = 1973 AT  
 2000 OV<sub>44</sub> = 1981 EN<sub>49</sub> = 1994 DX  
 2000 OG<sub>45</sub> = 1979 YL<sub>8</sub>  
 2000 OU<sub>46</sub> = 1978 RP<sub>10</sub> = 1999 JZ<sub>128</sub>  
 2000 OM<sub>48</sub> = 1978 VA<sub>15</sub> = 1989 TF<sub>13</sub>  
 2000 OJ<sub>50</sub> = 1991 RC<sub>24</sub> = 1993 BY<sub>7</sub> = 1999 NM<sub>57</sub>  
 2000 OK<sub>50</sub> = 1982 XT<sub>2</sub>  
 2000 OO<sub>50</sub> = 1999 GU<sub>44</sub>  
 2000 OU<sub>50</sub> = 1995 BX<sub>16</sub>  
 2000 OX<sub>50</sub> = 1985 YT<sub>1</sub> = 1998 FO<sub>145</sub>  
 2000 OC<sub>51</sub> = 1990 VW<sub>14</sub> = 1990 WW<sub>14</sub> = 1999 JU<sub>25</sub> = 2000 SG<sub>299</sub>  
 2000 OP<sub>51</sub> = 1971 QV<sub>2</sub> = 1974 CY = 1977 PV<sub>1</sub> = 1980 BQ<sub>2</sub> = 1985 BL<sub>2</sub>  
 2000 OL<sub>52</sub> = 1999 NM<sub>50</sub>  
 2000 OR<sub>52</sub> = 1981 RV<sub>5</sub>  
 2000 OT<sub>53</sub> = 1988 NV = 1999 NH<sub>13</sub>  
 2000 OV<sub>53</sub> = 1994 RG<sub>2</sub>  
 2000 OU<sub>54</sub> = 1998 EV<sub>18</sub>  
 2000 OT<sub>56</sub> = 1996 RT<sub>2</sub>  
 2000 OS<sub>59</sub> = 1993 PR<sub>3</sub>  
 2000 OV<sub>60</sub> = 1997 EV<sub>27</sub>

2000 PD<sub>1</sub> = 1993 TM<sub>13</sub> = 1999 GW<sub>45</sub>  
 2000 PN<sub>4</sub> = 1999 FL<sub>2</sub>  
 2000 PZ<sub>6</sub> = 1977 TV  
 2000 PU<sub>7</sub> = 1987 VW = 1987 YY<sub>3</sub> = 1998 GM<sub>4</sub>  
 2000 PW<sub>8</sub> = 1984 SV<sub>7</sub>  
 2000 PE<sub>15</sub> = 1980 VS<sub>3</sub>  
 2000 PE<sub>16</sub> = 1985 YM<sub>2</sub>  
 2000 PJ<sub>20</sub> = 1989 CM<sub>7</sub>  
 2000 PE<sub>23</sub> = 1999 LT<sub>16</sub>  
 2000 PC<sub>28</sub> = 1999 JW<sub>66</sub>  
 2000 PP<sub>28</sub> = 1980 TM<sub>9</sub>  
 2000 PD<sub>29</sub> = 1999 JP<sub>81</sub>  
 2000 PF<sub>30</sub> = 1999 OL<sub>4</sub>  
 2000 QG<sub>1</sub> = 1992 UW<sub>10</sub>  
 2000 QD<sub>7</sub> = 3006 P-L  
 2000 QT<sub>8</sub> = 1998 FV<sub>148</sub>  
 2000 QG<sub>10</sub> = 1992 EC<sub>28</sub> = 1999 JC<sub>16</sub>  
 2000 QJ<sub>10</sub> = 1999 GB<sub>56</sub>  
 2000 QA<sub>13</sub> = 1998 EG<sub>20</sub>  
 2000 QJ<sub>13</sub> = 1999 CN<sub>133</sub>  
 2000 QU<sub>13</sub> = 1996 TR<sub>59</sub>  
 2000 QL<sub>17</sub> = 1995 DK<sub>13</sub>  
 2000 QZ<sub>22</sub> = 2000 SG<sub>14</sub> = 1996 PW<sub>7</sub>  
 2000 QV<sub>24</sub> = 1985 VE<sub>6</sub>  
 2000 QQ<sub>26</sub> = 1976 UR<sub>18</sub>  
 2000 QG<sub>27</sub> = 6696 P-L  
 2000 QY<sub>37</sub> = 1999 JV<sub>129</sub>  
 2000 QT<sub>38</sub> = 1997 AX<sub>21</sub>  
 2000 QF<sub>44</sub> = 1990 QE<sub>19</sub>  
 2000 QD<sub>45</sub> = 1981 XO = 1998 HS<sub>38</sub>  
 2000 QW<sub>47</sub> = 3343 T-2  
 2000 QR<sub>48</sub> = 1949 WG<sub>1</sub> = 1978 RJ<sub>10</sub> = 1978 RS<sub>12</sub>  
 2000 QK<sub>49</sub> = 1987 BB<sub>1</sub>  
 2000 QS<sub>57</sub> = 4830 P-L  
 2000 QC<sub>58</sub> = 1999 JW<sub>30</sub>  
 2000 QJ<sub>62</sub> = 1995 GT<sub>7</sub>  
 2000 QM<sub>62</sub> = 1996 JX<sub>3</sub>  
 2000 QN<sub>62</sub> = 4320 T-2  
 2000 QK<sub>64</sub> = 1990 UM<sub>4</sub> = 1998 HR<sub>116</sub>  
 2000 QL<sub>64</sub> = 1989 UQ<sub>8</sub> = 1998 FL<sub>86</sub>  
 2000 QU<sub>64</sub> = 1999 JF<sub>99</sub>  
 2000 QE<sub>65</sub> = 1998 HB<sub>63</sub>  
 2000 QK<sub>65</sub> = 1998 HV<sub>109</sub>  
 2000 QM<sub>65</sub> = 1980 WB<sub>1</sub> = 1992 UC<sub>2</sub>  
 2000 QP<sub>65</sub> = 1998 BB<sub>23</sub>  
 2000 QD<sub>67</sub> = 1987 FZ = 1998 FG<sub>84</sub>  
 2000 QT<sub>67</sub> = 1989 XE<sub>1</sub>  
 2000 QK<sub>68</sub> = 1999 GA<sub>40</sub>  
 2000 QT<sub>68</sub> = 1990 VT<sub>13</sub> = 1994 NA<sub>7</sub> = 1995 UD<sub>12</sub> = 1998 HU<sub>69</sub>  
 2000 QQ<sub>69</sub> = 1998 FU<sub>147</sub>  
 2000 QF<sub>71</sub> = 1990 VH<sub>14</sub> = 1990 WM<sub>13</sub>  
 2000 QZ<sub>74</sub> = 6268 P-L

2000 QS<sub>80</sub> = 1988 VR<sub>13</sub>  
 2000 QJ<sub>81</sub> = 1998 FE<sub>120</sub> = 1999 ND<sub>45</sub>  
 2000 QP<sub>82</sub> = 1990 RX<sub>16</sub>  
 2000 QS<sub>82</sub> = 1998 FX<sub>75</sub>  
 2000 QC<sub>86</sub> = 1990 JM<sub>1</sub> = 1999 FQ<sub>44</sub>  
 2000 QZ<sub>87</sub> = 4094 P-L  
 2000 QG<sub>101</sub> = 1997 WW<sub>51</sub> = 1999 GY<sub>43</sub>  
 2000 QH<sub>102</sub> = 1993 SY<sub>14</sub>  
 2000 QA<sub>103</sub> = 1999 KU<sub>12</sub>  
 2000 QU<sub>103</sub> = 1978 RF<sub>9</sub> = 1978 RH<sub>12</sub>  
 2000 QA<sub>104</sub> = 1999 GS<sub>58</sub>  
 2000 QR<sub>104</sub> = 1990 WG<sub>7</sub> = 1998 HF<sub>139</sub>  
 2000 QS<sub>104</sub> = 1976 UM<sub>20</sub> = 1988 VA<sub>9</sub>  
 2000 QJ<sub>109</sub> = 1999 LV<sub>30</sub>  
 2000 QW<sub>113</sub> = 1995 FQ<sub>10</sub>  
 2000 QO<sub>114</sub> = 3179 T-1  
 2000 QB<sub>116</sub> = 1999 JC<sub>129</sub>  
 2000 QV<sub>116</sub> = 1972 AH = 1975 XQ<sub>4</sub> = 1989 CS<sub>4</sub> = 1991 PS<sub>30</sub> = 1998 FB<sub>78</sub>  
 2000 QG<sub>118</sub> = 3558 P-L  
 2000 QK<sub>119</sub> = 1991 CD<sub>6</sub>  
 2000 QS<sub>122</sub> = 4256 P-L  
 2000 QH<sub>123</sub> = 1986 VE<sub>4</sub>  
 2000 QP<sub>132</sub> = 1991 RS<sub>16</sub>  
 2000 QS<sub>136</sub> = 1998 FK<sub>23</sub>  
 2000 QX<sub>136</sub> = 1999 EC<sub>12</sub> = 1999 GM<sub>47</sub>  
 2000 QA<sub>142</sub> = 1991 EK<sub>1</sub>  
 2000 QO<sub>143</sub> = 1999 NU<sub>44</sub>  
 2000 QA<sub>147</sub> = 1991 PO<sub>23</sub>  
 2000 QD<sub>151</sub> = 1999 JY<sub>105</sub> = 1999 KE<sub>19</sub>  
 2000 QE<sub>152</sub> = 1995 MN<sub>3</sub>  
 2000 QJ<sub>152</sub> = 1998 AN<sub>11</sub>  
 2000 QO<sub>152</sub> = 1999 JW<sub>20</sub>  
 2000 QT<sub>153</sub> = 1999 CX<sub>11</sub>  
 2000 QF<sub>170</sub> = 3080 T-3  
 2000 QZ<sub>178</sub> = 1998 FH<sub>29</sub>  
 2000 QO<sub>181</sub> = 1989 WX<sub>1</sub> = 1998 HY<sub>126</sub>  
 2000 QP<sub>181</sub> = 1999 NZ<sub>60</sub>  
 2000 QL<sub>182</sub> = 1998 FF<sub>119</sub> = 1999 RH<sub>121</sub>  
 2000 QM<sub>182</sub> = 1999 TP<sub>201</sub>  
 2000 QO<sub>183</sub> = 1976 UF<sub>2</sub> = 1983 VA<sub>3</sub>  
 2000 QW<sub>188</sub> = 1997 XW<sub>6</sub>  
 2000 QN<sub>189</sub> = 1985 GX<sub>1</sub> = 1999 CX<sub>44</sub>  
 2000 QT<sub>191</sub> = 1993 OR<sub>13</sub>  
 2000 QU<sub>194</sub> = 1994 WV<sub>3</sub> = 1997 VK<sub>1</sub>  
 2000 QM<sub>195</sub> = 1990 UW<sub>9</sub>  
 2000 QQ<sub>197</sub> = 1999 GU<sub>37</sub>  
 2000 QA<sub>202</sub> = 1994 NG<sub>3</sub> = 1998 DC<sub>37</sub>  
 2000 QU<sub>202</sub> = 1997 RM<sub>2</sub>  
 2000 QG<sub>203</sub> = 1996 TP<sub>68</sub>  
 2000 QV<sub>203</sub> = 2000 SJ<sub>333</sub> = 1999 FT<sub>46</sub>  
 2000 QG<sub>204</sub> = 1999 JL<sub>112</sub>  
 2000 QR<sub>206</sub> = 1996 TJ<sub>2</sub>

2000 QC<sub>209</sub> = 1999 HD<sub>10</sub>  
 2000 QY<sub>210</sub> = 5463 T-2  
 2000 QQ<sub>211</sub> = 1998 DO<sub>27</sub>  
 2000 QN<sub>212</sub> = 1995 SS<sub>39</sub>  
 2000 QW<sub>214</sub> = 1995 FO<sub>2</sub>  
 2000 QA<sub>216</sub> = 1998 HT<sub>39</sub>  
 2000 QC<sub>216</sub> = 1998 HN<sub>141</sub>  
 2000 QM<sub>216</sub> = 1999 JN<sub>134</sub>  
 2000 QE<sub>217</sub> = 1997 RW<sub>3</sub>  
 2000 QJ<sub>217</sub> = 1998 FD<sub>22</sub>  
 2000 QM<sub>217</sub> = 1999 RV<sub>126</sub>  
 2000 QA<sub>219</sub> = 1981 UM<sub>7</sub>  
 2000 QG<sub>219</sub> = 1990 UE<sub>7</sub>  
 2000 QH<sub>219</sub> = 1986 EX<sub>1</sub>  
 2000 QM<sub>222</sub> = 1975 VO<sub>1</sub>  
 2000 QQ<sub>224</sub> = 1996 XV<sub>34</sub>  
 2000 QA<sub>225</sub> = 1999 CX<sub>62</sub>  
 2000 QD<sub>229</sub> = 1996 TB<sub>12</sub>  
 2000 QK<sub>236</sub> = 1998 YB<sub>5</sub> = 1999 AR<sub>29</sub>  
 2000 RF<sub>3</sub> = 1955 UY<sub>1</sub> = 1990 FX<sub>3</sub>  
 2000 RM<sub>5</sub> = 1985 SU<sub>4</sub> = 1999 JK<sub>106</sub>  
 2000 RQ<sub>7</sub> = 1998 KW<sub>66</sub> = 1999 NY<sub>32</sub>  
 2000 RW<sub>7</sub> = 1999 RE<sub>232</sub>  
 2000 RU<sub>8</sub> = 1998 FM<sub>86</sub>  
 2000 RA<sub>9</sub> = 1992 DS<sub>12</sub>  
 2000 RD<sub>9</sub> = 1998 DX<sub>5</sub>  
 2000 RT<sub>9</sub> = 1998 FA<sub>94</sub>  
 2000 RU<sub>9</sub> = 1981 RC<sub>7</sub>  
 2000 RE<sub>10</sub> = 1986 XE<sub>5</sub>  
 2000 RH<sub>10</sub> = 1999 LK<sub>25</sub>  
 2000 RU<sub>10</sub> = 1949 WU = 1986 XH<sub>5</sub>  
 2000 RG<sub>11</sub> = 1999 JC<sub>75</sub>  
 2000 RQ<sub>12</sub> = 1996 WM  
 2000 RY<sub>17</sub> = 1990 EB<sub>9</sub>  
 2000 RU<sub>18</sub> = 1999 CE<sub>11</sub>  
 2000 RT<sub>22</sub> = 1990 VE<sub>11</sub>  
 2000 RR<sub>26</sub> = 1989 OM<sub>1</sub>  
 2000 RM<sub>30</sub> = 1982 DQ  
 2000 RL<sub>31</sub> = 3059 P-L  
 2000 RY<sub>33</sub> = 1987 MP<sub>1</sub>  
 2000 RD<sub>41</sub> = 1991 YE<sub>2</sub>  
 2000 RC<sub>42</sub> = 1990 BC<sub>6</sub>  
 2000 RZ<sub>42</sub> = 1991 PM<sub>24</sub>  
 2000 RA<sub>43</sub> = 1999 JE<sub>81</sub>  
 2000 RU<sub>45</sub> = 1999 JO<sub>33</sub>  
 2000 RW<sub>45</sub> = 1987 SS<sub>24</sub>  
 2000 RZ<sub>45</sub> = 1998 AY<sub>9</sub>  
 2000 RG<sub>46</sub> = 1987 SZ<sub>20</sub> = 1998 HV<sub>82</sub>  
 2000 RO<sub>46</sub> = 1975 VQ<sub>6</sub> = 1997 WG<sub>50</sub>  
 2000 RP<sub>48</sub> = 1992 FJ<sub>2</sub>  
 2000 RQ<sub>48</sub> = 1999 LD<sub>34</sub>  
 2000 RP<sub>49</sub> = 1976 UZ<sub>19</sub>

2000 RR<sub>49</sub> = 1999 LG<sub>31</sub>  
 2000 RS<sub>49</sub> = 1999 GQ<sub>29</sub>  
 2000 RW<sub>49</sub> = 1991 VW<sub>12</sub>  
 2000 RY<sub>49</sub> = 1990 RW<sub>11</sub>  
 2000 RC<sub>50</sub> = 1979 SW<sub>7</sub> = 1979 TN<sub>1</sub> = 1986 UN<sub>2</sub>  
 2000 RJ<sub>50</sub> = 1989 SF<sub>13</sub>  
 2000 RQ<sub>50</sub> = 1999 RY<sub>229</sub>  
 2000 RR<sub>50</sub> = 1959 LC = 1993 SJ<sub>2</sub> = 1999 LE<sub>27</sub>  
 2000 RW<sub>50</sub> = 1998 HX<sub>142</sub>  
 2000 RX<sub>50</sub> = 1978 WV<sub>17</sub> = 1985 QY<sub>5</sub> = 1985 RD<sub>5</sub> = 1985 SQ<sub>1</sub>  
 2000 RP<sub>51</sub> = 1976 JX<sub>5</sub> = 1984 WJ<sub>5</sub> = 1997 GR<sub>33</sub>  
 2000 RT<sub>51</sub> = 1981 UM<sub>5</sub> = 1990 TS<sub>6</sub> = 1993 FE<sub>63</sub> = 1995 UW<sub>44</sub>  
 2000 RX<sub>51</sub> = 1977 XW<sub>1</sub> = 1983 YN = 1999 RU<sub>72</sub>  
 2000 RQ<sub>52</sub> = 1998 FY<sub>134</sub>  
 2000 RF<sub>55</sub> = 1987 KN = 1989 VX<sub>1</sub> = 1999 NE<sub>61</sub>  
 2000 RC<sub>61</sub> = 1999 NM<sub>12</sub>  
 2000 RE<sub>61</sub> = 1998 HF<sub>116</sub>  
 2000 RG<sub>61</sub> = 1999 RF<sub>149</sub>  
 2000 RW<sub>61</sub> = 1998 KT<sub>4</sub> = 1999 SZ<sub>7</sub>  
 2000 RB<sub>62</sub> = 1978 WM<sub>19</sub> = 1991 VT<sub>2</sub>  
 2000 RG<sub>62</sub> = 1999 GH<sub>41</sub>  
 2000 RH<sub>62</sub> = 1999 NS<sub>50</sub>  
 2000 RJ<sub>62</sub> = 1999 RU<sub>240</sub>  
 2000 RK<sub>62</sub> = 1998 GP<sub>6</sub>  
 2000 RM<sub>62</sub> = 1995 YJ<sub>23</sub>  
 2000 RO<sub>62</sub> = 1999 NQ<sub>39</sub>  
 2000 RB<sub>64</sub> = 1974 RV  
 2000 RZ<sub>64</sub> = 1981 UC<sub>4</sub>  
 2000 RL<sub>65</sub> = 1990 TQ<sub>14</sub>  
 2000 RC<sub>66</sub> = 1986 VN<sub>1</sub>  
 2000 RB<sub>67</sub> = 1998 EN<sub>7</sub>  
 2000 RQ<sub>67</sub> = 1999 GY<sub>33</sub>  
 2000 RT<sub>70</sub> = 1989 TH<sub>10</sub>  
 2000 RT<sub>71</sub> = 1989 SF<sub>7</sub>  
 2000 RZ<sub>71</sub> = 1983 WF = 1991 AQ<sub>4</sub>  
 2000 RD<sub>72</sub> = 1978 WW<sub>16</sub> = 1996 QH<sub>2</sub> = 1998 FQ<sub>29</sub>  
 2000 RJ<sub>72</sub> = 1987 KU<sub>3</sub> = 1997 WA<sub>32</sub>  
 2000 RP<sub>72</sub> = 1981 SF<sub>4</sub> = 1996 TK<sub>51</sub> = 1998 FR<sub>128</sub>  
 2000 RU<sub>72</sub> = 1990 WC<sub>11</sub> = 1993 QW<sub>2</sub> = 1998 BO<sub>45</sub>  
 2000 RZ<sub>73</sub> = 1998 BP<sub>3</sub>  
 2000 RT<sub>74</sub> = 1977 UD<sub>5</sub> = 1987 KR  
 2000 RW<sub>75</sub> = 1999 JE<sub>110</sub>  
 2000 RS<sub>76</sub> = 1999 LU  
 2000 RB<sub>77</sub> = 1995 FQ<sub>17</sub>  
 2000 RU<sub>77</sub> = 1992 SY<sub>7</sub>  
 2000 RS<sub>83</sub> = 1985 BJ<sub>1</sub> = 1991 PX<sub>28</sub>  
 2000 RJ<sub>84</sub> = 1997 WB<sub>10</sub>  
 2000 RM<sub>85</sub> = 1998 FE<sub>133</sub>  
 2000 RP<sub>85</sub> = 2000 QG<sub>243</sub> = 1990 SK<sub>22</sub>  
 2000 RZ<sub>85</sub> = 1995 FS<sub>1</sub>  
 2000 RM<sub>89</sub> = 1996 TP<sub>65</sub>  
 2000 RX<sub>90</sub> = 1990 HW<sub>5</sub> = 1995 SD<sub>28</sub>

2000 RQ<sub>93</sub> = 1997 WE<sub>51</sub>  
 2000 RX<sub>93</sub> = 1997 UY<sub>18</sub>  
 2000 RW<sub>96</sub> = 1999 NO<sub>52</sub>  
 2000 RC<sub>100</sub> = 1999 RW<sub>51</sub>  
 2000 RP<sub>100</sub> = 1987 QM<sub>6</sub>  
 2000 RX<sub>100</sub> = 1999 CS<sub>6</sub>  
 2000 RY<sub>102</sub> = 1979 YQ<sub>7</sub>  
 2000 RY<sub>103</sub> = 1989 SQ<sub>7</sub> = 1995 YK<sub>4</sub> = 1997 HU<sub>4</sub>  
 2000 RE<sub>105</sub> = 1995 LN  
 2000 SA<sub>2</sub> = 1999 CB<sub>125</sub>  
 2000 SM<sub>2</sub> = 1999 FX<sub>6</sub>  
 2000 SA<sub>4</sub> = 1999 GY<sub>46</sub>  
 2000 SH<sub>4</sub> = 1998 HE<sub>46</sub>  
 2000 ST<sub>4</sub> = 1999 CV<sub>15</sub>  
 2000 SO<sub>5</sub> = 1999 GT<sub>42</sub>  
 2000 SG<sub>6</sub> = 1999 KP<sub>13</sub>  
 2000 SA<sub>7</sub> = 1999 LV<sub>25</sub>  
 2000 SC<sub>7</sub> = 1998 HE<sub>62</sub>  
 2000 SF<sub>7</sub> = 1998 FM<sub>134</sub> = 1999 NX<sub>58</sub>  
 2000 SP<sub>8</sub> = 1996 TD<sub>27</sub>  
 2000 SK<sub>11</sub> = 1999 FK<sub>7</sub>  
 2000 SX<sub>11</sub> = 1993 FR<sub>68</sub> = 1997 SE<sub>34</sub> = 1998 YM<sub>13</sub>  
 2000 SK<sub>12</sub> = 1999 GR<sub>59</sub>  
 2000 SR<sub>12</sub> = 1999 JO<sub>136</sub>  
 2000 ST<sub>14</sub> = 1999 NR<sub>43</sub>  
 2000 SL<sub>15</sub> = 1999 LO<sub>10</sub>  
 2000 SP<sub>17</sub> = 1991 TE<sub>9</sub>  
 2000 SA<sub>19</sub> = 1994 AU<sub>5</sub> = 1998 BH<sub>38</sub>  
 2000 SO<sub>19</sub> = 1996 VT<sub>21</sub>  
 2000 SA<sub>21</sub> = 1998 HA<sub>129</sub>  
 2000 SC<sub>21</sub> = 1999 JU<sub>54</sub>  
 2000 ST<sub>22</sub> = 1999 JG<sub>20</sub>  
 2000 SV<sub>22</sub> = 1992 WX<sub>7</sub>  
 2000 SZ<sub>22</sub> = 1998 HZ<sub>44</sub>  
 2000 SH<sub>25</sub> = 1989 SA<sub>11</sub> = 1998 FY<sub>26</sub>  
 2000 SP<sub>25</sub> = 1978 WL<sub>4</sub>  
 2000 SV<sub>26</sub> = 1991 SV<sub>3</sub>  
 2000 SA<sub>27</sub> = 1998 HZ<sub>61</sub>  
 2000 SC<sub>27</sub> = 1995 WJ<sub>33</sub>  
 2000 SR<sub>27</sub> = 1998 DT<sub>30</sub>  
 2000 SD<sub>28</sub> = 2000 RX<sub>83</sub> = 1996 NE<sub>2</sub>  
 2000 SE<sub>28</sub> = 1998 FY<sub>98</sub>  
 2000 SZ<sub>29</sub> = 1999 JK<sub>109</sub>  
 2000 SK<sub>32</sub> = 1996 PJ<sub>4</sub> = 1999 FV<sub>49</sub>  
 2000 SM<sub>33</sub> = 1998 DD<sub>31</sub>  
 2000 SZ<sub>33</sub> = 2000 QC<sub>147</sub> = 1997 EF<sub>28</sub>  
 2000 SA<sub>34</sub> = 1999 JR<sub>35</sub>  
 2000 ST<sub>34</sub> = 1995 FQ<sub>11</sub>  
 2000 SY<sub>34</sub> = 1997 UZ<sub>13</sub>  
 2000 ST<sub>35</sub> = 1995 WN<sub>35</sub>  
 2000 SZ<sub>35</sub> = 2000 QH<sub>207</sub> = 1999 FG<sub>15</sub>  
 2000 SH<sub>36</sub> = 1999 KZ<sub>5</sub>

2000 SJ<sub>36</sub> = 1999 JU<sub>38</sub>  
 2000 SQ<sub>36</sub> = 1998 FE<sub>16</sub>  
 2000 SM<sub>37</sub> = 1997 UW<sub>12</sub> = 1999 GY<sub>38</sub>  
 2000 SQ<sub>37</sub> = 1995 YL<sub>22</sub>  
 2000 ST<sub>37</sub> = 1989 TM<sub>7</sub>  
 2000 SA<sub>38</sub> = 1998 HT<sub>80</sub>  
 2000 SC<sub>38</sub> = 1998 DS<sub>28</sub>  
 2000 SD<sub>38</sub> = 1979 MT<sub>7</sub>  
 2000 SM<sub>38</sub> = 1999 KK<sub>11</sub>  
 2000 SQ<sub>38</sub> = 1998 FJ<sub>83</sub>  
 2000 SC<sub>39</sub> = 1988 CW<sub>6</sub> = 1999 RM<sub>41</sub>  
 2000 SD<sub>39</sub> = 1998 HB<sub>90</sub>  
 2000 SE<sub>39</sub> = 1982 VH<sub>2</sub> = 1986 PC<sub>3</sub> = 1991 RH<sub>38</sub>  
 2000 SF<sub>39</sub> = 1999 JD<sub>62</sub>  
 2000 SX<sub>39</sub> = 1988 VD<sub>4</sub>  
 2000 SB<sub>40</sub> = 1999 JN<sub>63</sub>  
 2000 SE<sub>40</sub> = 1998 HM<sub>140</sub>  
 2000 SO<sub>40</sub> = 1995 JW  
 2000 SP<sub>40</sub> = 1990 VY<sub>15</sub>  
 2000 SQ<sub>41</sub> = 1998 HN<sub>35</sub>  
 2000 SF<sub>42</sub> = 1981 EA  
 2000 SL<sub>42</sub> = 1997 JM<sub>2</sub>  
 2000 SQ<sub>42</sub> = 1998 FQ<sub>54</sub>  
 2000 SX<sub>42</sub> = 1997 EE<sub>11</sub>  
 2000 SF<sub>45</sub> = 1999 GP<sub>27</sub>  
 2000 SX<sub>47</sub> = 1996 TH<sub>66</sub>  
 2000 SG<sub>48</sub> = 1996 VG<sub>24</sub>  
 2000 SM<sub>48</sub> = 1999 JC<sub>128</sub>  
 2000 SJ<sub>49</sub> = 1996 FL<sub>16</sub>  
 2000 SN<sub>49</sub> = 2000 RU<sub>87</sub> = 1999 JP<sub>47</sub>  
 2000 SR<sub>49</sub> = 1994 JR<sub>3</sub>  
 2000 SZ<sub>49</sub> = 1979 OK<sub>12</sub> = 1999 JY<sub>29</sub>  
 2000 SJ<sub>50</sub> = 1993 FE<sub>21</sub>  
 2000 SL<sub>51</sub> = 1999 CO<sub>79</sub>  
 2000 SA<sub>52</sub> = 1992 TT  
 2000 SS<sub>52</sub> = 1999 JN<sub>43</sub>  
 2000 SJ<sub>54</sub> = 1992 CD<sub>2</sub> = 1999 JG<sub>108</sub>  
 2000 SP<sub>54</sub> = 1993 FK<sub>50</sub>  
 2000 SA<sub>55</sub> = 1998 FX<sub>22</sub>  
 2000 SP<sub>55</sub> = 1998 EQ<sub>17</sub>  
 2000 SL<sub>57</sub> = 1993 RO<sub>1</sub>  
 2000 SP<sub>57</sub> = 1998 FU<sub>137</sub>  
 2000 SB<sub>58</sub> = 1993 FJ<sub>39</sub> = 1998 FD<sub>59</sub>  
 2000 SH<sub>58</sub> = 1993 FS<sub>60</sub>  
 2000 SX<sub>58</sub> = 1998 BT<sub>22</sub>  
 2000 SL<sub>59</sub> = 1998 FX<sub>136</sub>  
 2000 SO<sub>59</sub> = 1998 BZ<sub>21</sub>  
 2000 SX<sub>59</sub> = 1998 BZ<sub>23</sub>  
 2000 SL<sub>60</sub> = 1998 FB<sub>20</sub>  
 2000 SR<sub>60</sub> = 1995 SE<sub>8</sub>  
 2000 SX<sub>60</sub> = 1996 VR<sub>21</sub>  
 2000 SK<sub>61</sub> = 1998 FP<sub>20</sub>

2000 SS<sub>62</sub> = 1999 FH<sub>44</sub>  
 2000 SV<sub>62</sub> = 1995 DN<sub>9</sub>  
 2000 SJ<sub>63</sub> = 1998 BS<sub>45</sub>  
 2000 SP<sub>63</sub> = 1998 FU<sub>146</sub>  
 2000 SE<sub>64</sub> = 1995 BA<sub>7</sub>  
 2000 SA<sub>65</sub> = 1964 TK<sub>1</sub> = 1999 GG<sub>49</sub>  
 2000 SY<sub>65</sub> = 1994 PB<sub>27</sub>  
 2000 SW<sub>66</sub> = 1996 HK<sub>21</sub>  
 2000 SG<sub>67</sub> = 1998 GZ<sub>12</sub>  
 2000 SR<sub>67</sub> = 1999 FC<sub>14</sub>  
 2000 SA<sub>68</sub> = 1996 KW<sub>6</sub>  
 2000 SG<sub>68</sub> = 1992 EG<sub>7</sub>  
 2000 SY<sub>68</sub> = 1999 RQ<sub>68</sub>  
 2000 SG<sub>69</sub> = 1990 QF<sub>10</sub> = 1992 EG<sub>36</sub>  
 2000 SN<sub>69</sub> = 1991 PD<sub>31</sub> = 1991 RB<sub>40</sub> = 1998 GQ<sub>12</sub>  
 2000 SH<sub>70</sub> = 1999 GG<sub>26</sub>  
 2000 SQ<sub>70</sub> = 1996 RL<sub>18</sub>  
 2000 SS<sub>70</sub> = 1998 FN  
 2000 SX<sub>70</sub> = 1998 FN<sub>26</sub> = 1998 FT<sub>148</sub>  
 2000 SQ<sub>71</sub> = 1998 FX<sub>45</sub>  
 2000 SW<sub>71</sub> = 1999 JX<sub>125</sub>  
 2000 SZ<sub>71</sub> = 1998 FB<sub>148</sub>  
 2000 SH<sub>72</sub> = 1989 TR<sub>9</sub> = 1992 HV<sub>6</sub> = 1995 WA<sub>26</sub>  
 2000 ST<sub>72</sub> = 1982 VJ<sub>5</sub>  
 2000 SA<sub>73</sub> = 1998 HE<sub>82</sub>  
 2000 SO<sub>73</sub> = 1995 YU<sub>23</sub>  
 2000 SX<sub>73</sub> = 1996 TQ<sub>4</sub> = 1999 JA<sub>39</sub>  
 2000 SO<sub>74</sub> = 1998 DL<sub>19</sub>  
 2000 SU<sub>74</sub> = 1998 HP<sub>2</sub>  
 2000 SL<sub>75</sub> = 1997 VU<sub>5</sub>  
 2000 SP<sub>75</sub> = 1998 HV<sub>15</sub>  
 2000 ST<sub>75</sub> = 1999 GC<sub>41</sub>  
 2000 SG<sub>76</sub> = 1989 TP<sub>6</sub>  
 2000 SL<sub>76</sub> = 1993 TJ<sub>46</sub> = 1999 GU<sub>26</sub>  
 2000 SH<sub>77</sub> = 1996 SR<sub>1</sub>  
 2000 SN<sub>77</sub> = 1995 QJ<sub>1</sub>  
 2000 SC<sub>78</sub> = 1998 FA<sub>116</sub>  
 2000 SH<sub>78</sub> = 1995 EC<sub>9</sub>  
 2000 SU<sub>78</sub> = 1998 FC<sub>137</sub>  
 2000 SJ<sub>79</sub> = 1998 FN<sub>44</sub>  
 2000 SU<sub>80</sub> = 4852 P-L = 1998 KJ<sub>12</sub>  
 2000 SZ<sub>80</sub> = 1999 GY<sub>39</sub>  
 2000 SJ<sub>83</sub> = 1998 HC<sub>93</sub>  
 2000 SS<sub>83</sub> = 1998 FW<sub>44</sub>  
 2000 SF<sub>84</sub> = 1998 DZ<sub>36</sub>  
 2000 SV<sub>84</sub> = 1996 GT<sub>1</sub>  
 2000 SY<sub>84</sub> = 1977 RP<sub>14</sub> = 1994 PS<sub>21</sub>  
 2000 SB<sub>85</sub> = 1998 ER<sub>15</sub>  
 2000 SJ<sub>85</sub> = 1993 FH<sub>15</sub>  
 2000 SN<sub>85</sub> = 1978 VM<sub>10</sub> = 1998 DW<sub>37</sub>  
 2000 SQ<sub>85</sub> = 1994 LQ<sub>7</sub>  
 2000 SS<sub>85</sub> = 1998 HG<sub>132</sub>

2000 ST<sub>85</sub> = 1992 HA<sub>7</sub>  
 2000 SY<sub>85</sub> = 1996 XC<sub>7</sub>  
 2000 SZ<sub>85</sub> = 1998 HV<sub>73</sub>  
 2000 SC<sub>86</sub> = 1984 BP<sub>2</sub> = 1999 LF<sub>12</sub>  
 2000 SL<sub>86</sub> = 1978 VM<sub>5</sub> = 1998 LM<sub>3</sub>  
 2000 SO<sub>86</sub> = 1995 UP<sub>36</sub>  
 2000 SQ<sub>86</sub> = 1992 DC<sub>2</sub>  
 2000 SZ<sub>86</sub> = 1998 FP<sub>88</sub>  
 2000 SD<sub>87</sub> = 1993 BE<sub>1</sub>  
 2000 SF<sub>87</sub> = 1999 GN<sub>17</sub>  
 2000 SH<sub>87</sub> = 1995 KX<sub>3</sub> = 1996 WW<sub>2</sub>  
 2000 SK<sub>87</sub> = 1997 YE<sub>11</sub>  
 2000 SL<sub>87</sub> = 1989 TN<sub>7</sub>  
 2000 SM<sub>87</sub> = 1991 VD<sub>12</sub>  
 2000 SV<sub>87</sub> = 1978 WK<sub>7</sub>  
 2000 SE<sub>88</sub> = 1991 YM  
 2000 SG<sub>88</sub> = 1998 FU<sub>89</sub>  
 2000 SH<sub>88</sub> = 1965 VG = 1978 TL = 1987 WO  
 2000 SJ<sub>88</sub> = 1998 HF<sub>83</sub>  
 2000 SU<sub>88</sub> = 1994 RG<sub>20</sub>  
 2000 SP<sub>89</sub> = 1997 NG<sub>5</sub>  
 2000 SQ<sub>90</sub> = 1978 WV<sub>6</sub>  
 2000 SA<sub>93</sub> = 1999 JV<sub>103</sub>  
 2000 SC<sub>93</sub> = 1999 JJ<sub>34</sub>  
 2000 SE<sub>93</sub> = 1998 FA<sub>13</sub>  
 2000 SH<sub>93</sub> = 1993 RE<sub>3</sub>  
 2000 SC<sub>94</sub> = 1999 LF<sub>9</sub>  
 2000 SQ<sub>94</sub> = 1999 GH<sub>51</sub>  
 2000 SD<sub>95</sub> = 1999 GY<sub>50</sub>  
 2000 ST<sub>97</sub> = 1998 HV<sub>89</sub>  
 2000 SU<sub>97</sub> = 1998 EK<sub>1</sub>  
 2000 SV<sub>98</sub> = 1999 GD  
 2000 SQ<sub>99</sub> = 1995 WU<sub>37</sub>  
 2000 SZ<sub>99</sub> = 1976 UN<sub>8</sub>  
 2000 SN<sub>100</sub> = 1999 JU<sub>43</sub>  
 2000 SW<sub>100</sub> = 1995 QR<sub>7</sub>  
 2000 SZ<sub>100</sub> = 1999 JP<sub>48</sub>  
 2000 SD<sub>101</sub> = 1999 NH<sub>61</sub>  
 2000 SQ<sub>101</sub> = 1998 EH<sub>20</sub>  
 2000 SA<sub>102</sub> = 1998 FY<sub>25</sub>  
 2000 SJ<sub>102</sub> = 1996 PB<sub>6</sub>  
 2000 SO<sub>102</sub> = 1981 EH<sub>43</sub> = 1993 SF<sub>9</sub> = 1998 BC<sub>36</sub>  
 2000 SY<sub>103</sub> = 1998 KX<sub>66</sub>  
 2000 SD<sub>105</sub> = 1998 FM<sub>20</sub>  
 2000 SN<sub>105</sub> = 1998 FY<sub>39</sub>  
 2000 SB<sub>108</sub> = 1996 TN<sub>29</sub> = 1996 TA<sub>68</sub>  
 2000 SD<sub>108</sub> = 1997 CY<sub>20</sub>  
 2000 SR<sub>108</sub> = 1996 TW<sub>46</sub>  
 2000 SZ<sub>108</sub> = 1988 VP<sub>8</sub> = 1998 FO<sub>133</sub>  
 2000 SZ<sub>109</sub> = 1996 TR<sub>11</sub>  
 2000 SD<sub>110</sub> = 1993 FN<sub>73</sub>  
 2000 SE<sub>110</sub> = 1999 GX<sub>57</sub>

2000 SV<sub>110</sub> = 1999 JK<sub>107</sub>  
 2000 SJ<sub>111</sub> = 1992 GC<sub>4</sub>  
 2000 SM<sub>112</sub> = 1999 RK<sub>132</sub>  
 2000 SP<sub>112</sub> = 1997 EC<sub>33</sub> = 1998 HV<sub>153</sub>  
 2000 SE<sub>113</sub> = 1997 UH<sub>14</sub>  
 2000 SN<sub>113</sub> = 1978 WL<sub>1</sub>  
 2000 SO<sub>113</sub> = 1999 JD<sub>53</sub> = 1999 KG<sub>19</sub>  
 2000 SR<sub>113</sub> = 1997 AQ<sub>10</sub>  
 2000 SY<sub>114</sub> = 1994 GR<sub>3</sub> = 1998 HL<sub>21</sub>  
 2000 SJ<sub>115</sub> = 1999 RY<sub>68</sub>  
 2000 SC<sub>116</sub> = 1998 HX<sub>55</sub>  
 2000 SJ<sub>116</sub> = 1998 HA<sub>63</sub>  
 2000 SW<sub>116</sub> = 1998 FN<sub>83</sub>  
 2000 SY<sub>116</sub> = 1998 KC<sub>23</sub>  
 2000 SG<sub>117</sub> = 1998 HN<sub>40</sub>  
 2000 SJ<sub>117</sub> = 1992 HF<sub>1</sub>  
 2000 SM<sub>117</sub> = 1999 JS<sub>112</sub>  
 2000 SS<sub>117</sub> = 1998 GD<sub>12</sub>  
 2000 ST<sub>117</sub> = 1989 TZ<sub>5</sub>  
 2000 SV<sub>117</sub> = 1998 HM<sub>35</sub>  
 2000 SP<sub>118</sub> = 1999 JC<sub>119</sub>  
 2000 SX<sub>118</sub> = 1998 KK<sub>14</sub>  
 2000 SG<sub>119</sub> = 1998 HS<sub>125</sub>  
 2000 SJ<sub>119</sub> = 1999 JG<sub>131</sub>  
 2000 SV<sub>119</sub> = 1998 FW<sub>81</sub>  
 2000 SZ<sub>119</sub> = 1999 GF<sub>43</sub>  
 2000 SO<sub>120</sub> = 1978 VS<sub>11</sub>  
 2000 SR<sub>120</sub> = 1998 HM<sub>71</sub> = 1999 LG<sub>30</sub>  
 2000 ST<sub>120</sub> = 1990 RL<sub>16</sub> = 1994 NA<sub>5</sub> = 1998 HD<sub>71</sub>  
 2000 SY<sub>120</sub> = 1996 VJ<sub>25</sub>  
 2000 SZ<sub>120</sub> = 1998 BK<sub>41</sub>  
 2000 SA<sub>121</sub> = 1992 ES<sub>19</sub>  
 2000 SD<sub>121</sub> = 1999 GV<sub>26</sub>  
 2000 SE<sub>121</sub> = 1987 SY<sub>27</sub>  
 2000 SF<sub>121</sub> = 1996 RT<sub>17</sub>  
 2000 SL<sub>121</sub> = 1992 WT<sub>5</sub> = 1999 LP<sub>16</sub>  
 2000 SO<sub>121</sub> = 1996 TJ<sub>64</sub>  
 2000 SU<sub>121</sub> = 1994 JP<sub>7</sub>  
 2000 SV<sub>121</sub> = 1995 FA<sub>21</sub> = 1999 NJ<sub>57</sub>  
 2000 SW<sub>121</sub> = 1998 HV<sub>53</sub>  
 2000 SH<sub>122</sub> = 1997 CC  
 2000 SL<sub>122</sub> = 1998 HB<sub>76</sub>  
 2000 SX<sub>122</sub> = 1978 WW<sub>8</sub>  
 2000 SF<sub>123</sub> = 1999 GR<sub>26</sub>  
 2000 SG<sub>123</sub> = 1999 NH<sub>43</sub>  
 2000 SH<sub>123</sub> = 1999 JL<sub>73</sub>  
 2000 SO<sub>123</sub> = 1977 XB<sub>2</sub> = 1993 DR<sub>1</sub>  
 2000 SP<sub>123</sub> = 1996 VS<sub>23</sub>  
 2000 SS<sub>123</sub> = 1995 HD<sub>1</sub>  
 2000 SW<sub>123</sub> = 1998 KM<sub>33</sub>  
 2000 SF<sub>124</sub> = 1999 JQ<sub>13</sub>  
 2000 SN<sub>124</sub> = 1999 JB<sub>109</sub>

2000 SR<sub>124</sub> = 1999 KZ<sub>14</sub>  
 2000 SS<sub>124</sub> = 1998 KH<sub>22</sub>  
 2000 SU<sub>124</sub> = 1999 JL<sub>119</sub>  
 2000 SX<sub>124</sub> = 1989 XR = 1998 FC<sub>81</sub>  
 2000 SB<sub>125</sub> = 1953 GR  
 2000 SH<sub>125</sub> = 1998 FY<sub>81</sub>  
 2000 SW<sub>125</sub> = 1978 UM<sub>3</sub>  
 2000 SG<sub>126</sub> = 1998 GQ<sub>3</sub>  
 2000 SW<sub>126</sub> = 1994 PQ<sub>12</sub>  
 2000 SX<sub>126</sub> = 1999 JC<sub>68</sub>  
 2000 SZ<sub>126</sub> = 1996 RM<sub>17</sub>  
 2000 ST<sub>127</sub> = 1998 FN<sub>38</sub>  
 2000 SF<sub>128</sub> = 1995 UC<sub>35</sub>  
 2000 SL<sub>128</sub> = 1999 JT<sub>90</sub>  
 2000 SM<sub>128</sub> = 1993 TQ<sub>33</sub>  
 2000 SO<sub>128</sub> = 1996 PY = 1999 LF<sub>24</sub>  
 2000 SU<sub>128</sub> = 1998 DC<sub>32</sub>  
 2000 SH<sub>129</sub> = 1999 EY  
 2000 SO<sub>129</sub> = 1999 LP<sub>12</sub>  
 2000 SZ<sub>130</sub> = 1997 LC<sub>16</sub>  
 2000 SZ<sub>132</sub> = 1999 GS<sub>53</sub>  
 2000 SE<sub>133</sub> = 1997 WU<sub>38</sub>  
 2000 SN<sub>135</sub> = 1999 LM<sub>3</sub>  
 2000 SC<sub>136</sub> = 1999 NU<sub>47</sub>  
 2000 SE<sub>136</sub> = 1994 RJ<sub>13</sub> = 1998 FB<sub>112</sub>  
 2000 SG<sub>137</sub> = 1994 PH<sub>11</sub>  
 2000 SS<sub>137</sub> = 1984 BM<sub>7</sub>  
 2000 SX<sub>138</sub> = 1991 GT<sub>7</sub>  
 2000 SJ<sub>139</sub> = 1996 TP<sub>19</sub>  
 2000 SK<sub>139</sub> = 1996 XD<sub>5</sub>  
 2000 SP<sub>139</sub> = 1997 BD<sub>7</sub>  
 2000 SV<sub>139</sub> = 1995 EU<sub>2</sub>  
 2000 SD<sub>140</sub> = 1978 WB<sub>9</sub>  
 2000 SH<sub>140</sub> = 1998 HS<sub>27</sub>  
 2000 SL<sub>140</sub> = 1998 FE<sub>131</sub>  
 2000 SM<sub>140</sub> = 1979 OP<sub>1</sub>  
 2000 SC<sub>141</sub> = 1996 VD<sub>24</sub>  
 2000 SG<sub>141</sub> = 1999 FT<sub>7</sub>  
 2000 SM<sub>141</sub> = 1998 KX<sub>17</sub>  
 2000 SR<sub>141</sub> = 1996 TS<sub>58</sub>  
 2000 SH<sub>142</sub> = 1998 KF<sub>21</sub>  
 2000 SW<sub>142</sub> = 1999 LA<sub>20</sub>  
 2000 SZ<sub>142</sub> = 1999 KK  
 2000 SO<sub>143</sub> = 1996 VY<sub>23</sub>  
 2000 SQ<sub>143</sub> = 1998 FL<sub>113</sub>  
 2000 SH<sub>144</sub> = 1996 TG<sub>33</sub>  
 2000 SJ<sub>144</sub> = 1990 EZ<sub>4</sub> = 1998 FY<sub>135</sub>  
 2000 SL<sub>144</sub> = 6322 P-L = 1998 DB<sub>8</sub>  
 2000 SO<sub>144</sub> = 1983 QW = 1999 FC<sub>53</sub>  
 2000 SX<sub>144</sub> = 1984 LL = 1997 CR<sub>13</sub>  
 2000 SK<sub>145</sub> = 1953 RA<sub>2</sub> = 1992 YK<sub>2</sub> = 1998 FO<sub>28</sub>  
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2000 SZ<sub>145</sub> = 1996 FW<sub>15</sub>  
 2000 SK<sub>146</sub> = 1994 JN<sub>3</sub>  
 2000 ST<sub>146</sub> = 1999 GJ<sub>50</sub>  
 2000 SX<sub>146</sub> = 1998 HK<sub>79</sub>  
 2000 SG<sub>147</sub> = 1979 OG<sub>5</sub>  
 2000 SH<sub>147</sub> = 1993 FK<sub>7</sub>  
 2000 SJ<sub>147</sub> = 1995 OA<sub>5</sub>  
 2000 SO<sub>148</sub> = 1997 GZ<sub>29</sub>  
 2000 SV<sub>148</sub> = 1999 NO<sub>50</sub>  
 2000 SA<sub>149</sub> = 1994 RC<sub>18</sub>  
 2000 SE<sub>149</sub> = 1999 LB<sub>17</sub>  
 2000 SB<sub>150</sub> = 1988 LM = 1999 NT<sub>58</sub>  
 2000 SL<sub>150</sub> = 1997 GR<sub>27</sub>  
 2000 SM<sub>150</sub> = 1993 XE<sub>2</sub>  
 2000 SQ<sub>150</sub> = 1998 HD<sub>73</sub>  
 2000 SU<sub>150</sub> = 1999 LU<sub>27</sub>  
 2000 SZ<sub>150</sub> = 1996 TY<sub>17</sub>  
 2000 SD<sub>151</sub> = 1993 FD<sub>46</sub>  
 2000 SG<sub>151</sub> = 1999 JN<sub>19</sub>  
 2000 SM<sub>153</sub> = 1998 BM<sub>11</sub>  
 2000 SS<sub>153</sub> = 1998 FD<sub>1</sub>  
 2000 ST<sub>153</sub> = 1993 FY<sub>57</sub>  
 2000 SE<sub>154</sub> = 1998 BB<sub>43</sub>  
 2000 SM<sub>154</sub> = 1995 WV<sub>18</sub>  
 2000 SN<sub>154</sub> = 1996 QK<sub>3</sub>  
 2000 SO<sub>154</sub> = 1981 VK<sub>2</sub> = 1998 FS<sub>146</sub>  
 2000 SU<sub>154</sub> = 1985 UZ<sub>5</sub> = 1998 HA<sub>67</sub> = 1999 ND<sub>16</sub>  
 2000 SA<sub>155</sub> = 1998 HH<sub>47</sub>  
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 2000 SD<sub>155</sub> = 1998 BB<sub>28</sub> = 1999 KF<sub>19</sub>  
 2000 SJ<sub>155</sub> = 1998 FE<sub>148</sub>  
 2000 SO<sub>155</sub> = 1998 KR<sub>15</sub>  
 2000 SQ<sub>155</sub> = 1998 DK<sub>28</sub>  
 2000 SU<sub>155</sub> = 1997 EU<sub>49</sub> = 1999 RU<sub>246</sub>  
 2000 SW<sub>155</sub> = 1999 NK<sub>52</sub>  
 2000 SC<sub>156</sub> = 1998 HW<sub>62</sub>  
 2000 SG<sub>156</sub> = 1995 FM<sub>1</sub> = 1999 FD<sub>1</sub>  
 2000 SJ<sub>156</sub> = 1994 PM<sub>23</sub>  
 2000 SM<sub>156</sub> = 1998 KM<sub>52</sub>  
 2000 SN<sub>156</sub> = 1998 FE<sub>142</sub>  
 2000 SS<sub>156</sub> = 1998 KM<sub>34</sub>  
 2000 ST<sub>156</sub> = 1998 HD<sub>7</sub>  
 2000 SJ<sub>157</sub> = 1998 FL<sub>46</sub>  
 2000 SQ<sub>157</sub> = 1999 JU<sub>39</sub>  
 2000 SL<sub>158</sub> = 1993 RH<sub>11</sub>  
 2000 SN<sub>158</sub> = 1998 HA<sub>97</sub>  
 2000 SO<sub>158</sub> = 1998 FM<sub>52</sub>  
 2000 SU<sub>161</sub> = 1998 GP<sub>3</sub>  
 2000 SV<sub>161</sub> = 1990 WP<sub>5</sub>  
 2000 SQ<sub>162</sub> = 1999 JC<sub>96</sub>  
 2000 ST<sub>162</sub> = 1990 EA<sub>8</sub> = 1998 BC<sub>47</sub>  
 2000 SD<sub>163</sub> = 1998 HZ<sub>23</sub>

2000 SA<sub>164</sub> = 1999 GS<sub>59</sub>  
 2000 SE<sub>165</sub> = 1999 NE<sub>46</sub>  
 2000 SQ<sub>165</sub> = 1997 AF<sub>6</sub>  
 2000 SS<sub>165</sub> = 1978 VN<sub>8</sub> = 1998 MN<sub>13</sub>  
 2000 SG<sub>167</sub> = 1999 JM<sub>33</sub>  
 2000 SL<sub>167</sub> = 1998 ER<sub>4</sub>  
 2000 SN<sub>167</sub> = 1998 HO<sub>77</sub>  
 2000 SO<sub>167</sub> = 1998 FC<sub>99</sub>  
 2000 SS<sub>167</sub> = 1991 TY<sub>4</sub>  
 2000 SA<sub>168</sub> = 1996 QH<sub>1</sub> = 1997 YL<sub>9</sub>  
 2000 SR<sub>168</sub> = 1998 DK<sub>5</sub>  
 2000 SE<sub>169</sub> = 1998 BK<sub>46</sub>  
 2000 SK<sub>169</sub> = 1999 JG<sub>133</sub>  
 2000 SU<sub>169</sub> = 1999 NO<sub>51</sub>  
 2000 SA<sub>170</sub> = 1991 PG<sub>19</sub>  
 2000 SB<sub>170</sub> = 1998 FK<sub>142</sub>  
 2000 SC<sub>170</sub> = 1995 SD<sub>19</sub>  
 2000 SD<sub>170</sub> = 1977 RT<sub>15</sub> = 1998 EK<sub>16</sub>  
 2000 SM<sub>170</sub> = 1998 KH<sub>31</sub>  
 2000 SQ<sub>170</sub> = 1990 SB<sub>7</sub> = 1993 FC<sub>83</sub>  
 2000 SA<sub>171</sub> = 1996 XG<sub>7</sub> = 1999 JH<sub>130</sub>  
 2000 SJ<sub>171</sub> = 1998 KC<sub>29</sub>  
 2000 SL<sub>171</sub> = 1998 KX<sub>44</sub>  
 2000 SU<sub>172</sub> = 1991 GN<sub>4</sub> = 1999 TQ<sub>311</sub>  
 2000 SR<sub>173</sub> = 1998 KU<sub>7</sub>  
 2000 SL<sub>174</sub> = 1999 TB<sub>265</sub>  
 2000 SY<sub>174</sub> = 1992 YR<sub>1</sub>  
 2000 SD<sub>175</sub> = 1996 VL<sub>26</sub>  
 2000 SH<sub>175</sub> = 1995 AK<sub>2</sub>  
 2000 SK<sub>175</sub> = 1992 DR<sub>10</sub>  
 2000 SR<sub>175</sub> = 1999 NT<sub>42</sub>  
 2000 SS<sub>175</sub> = 1998 FV<sub>115</sub>  
 2000 SW<sub>175</sub> = 1997 YM<sub>17</sub>  
 2000 SH<sub>176</sub> = 1999 LA<sub>32</sub>  
 2000 SK<sub>176</sub> = 1999 GA<sub>41</sub>  
 2000 SL<sub>176</sub> = 1992 EZ<sub>34</sub>  
 2000 SW<sub>176</sub> = 1994 CO<sub>3</sub>  
 2000 SA<sub>177</sub> = 1989 AA<sub>6</sub> = 1998 KY<sub>12</sub>  
 2000 SD<sub>177</sub> = 1998 HY<sub>86</sub>  
 2000 SG<sub>177</sub> = 1996 RU<sub>1</sub>  
 2000 SK<sub>177</sub> = 1999 LZ<sub>16</sub>  
 2000 SN<sub>177</sub> = 1998 HT<sub>21</sub>  
 2000 SS<sub>177</sub> = 1999 RV<sub>229</sub>  
 2000 SN<sub>178</sub> = 1999 LV<sub>10</sub>  
 2000 SQ<sub>178</sub> = 1991 GQ<sub>7</sub> = 1999 RO<sub>55</sub>  
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 2000 SK<sub>179</sub> = 1981 UT<sub>28</sub>  
 2000 SN<sub>179</sub> = 1998 FM<sub>102</sub>  
 2000 SO<sub>179</sub> = 1978 WW<sub>9</sub>  
 2000 SR<sub>179</sub> = 1979 VR<sub>1</sub> = 1983 SQ = 1998 FD<sub>34</sub>  
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2000 SX<sub>179</sub> = 1997 EO<sub>52</sub>  
 2000 SZ<sub>179</sub> = 1998 FA<sub>113</sub>  
 2000 SJ<sub>180</sub> = 1997 WS<sub>42</sub>  
 2000 SP<sub>180</sub> = 1996 SE  
 2000 SS<sub>180</sub> = 1997 YK<sub>21</sub>  
 2000 ST<sub>183</sub> = 2000 QV<sub>96</sub> = 1987 WC<sub>2</sub> = 1990 RS<sub>3</sub>  
 2000 SF<sub>184</sub> = 1999 JE<sub>72</sub>  
 2000 SJ<sub>184</sub> = 1998 HV<sub>10</sub>  
 2000 SM<sub>184</sub> = 1993 FC<sub>56</sub>  
 2000 SR<sub>184</sub> = 1995 TW<sub>5</sub>  
 2000 SF<sub>185</sub> = 1998 FV<sub>82</sub>  
 2000 SD<sub>186</sub> = 1997 EH<sub>18</sub>  
 2000 SH<sub>186</sub> = 1998 FE<sub>108</sub>  
 2000 SC<sub>187</sub> = 1998 HT<sub>116</sub>  
 2000 SK<sub>187</sub> = 1998 FK<sub>38</sub>  
 2000 SR<sub>187</sub> = 1994 NH<sub>6</sub> = 1998 HJ<sub>153</sub>  
 2000 SS<sub>187</sub> = 1998 FJ<sub>77</sub>  
 2000 SV<sub>187</sub> = 1998 HY<sub>99</sub>  
 2000 SL<sub>188</sub> = 1998 FW<sub>13</sub>  
 2000 SD<sub>190</sub> = 1998 HS<sub>104</sub>  
 2000 SX<sub>192</sub> = 1994 PB<sub>13</sub> = 1994 PY<sub>30</sub> = 1998 KU<sub>30</sub>  
 2000 SK<sub>193</sub> = 1998 FY<sub>140</sub>  
 2000 SD<sub>194</sub> = 1998 BJ<sub>45</sub>  
 2000 SG<sub>194</sub> = 1996 VU  
 2000 SH<sub>195</sub> = 1995 FT<sub>11</sub>  
 2000 SP<sub>195</sub> = 1999 GM<sub>54</sub>  
 2000 SO<sub>197</sub> = 1995 OW<sub>8</sub>  
 2000 SN<sub>200</sub> = 1995 VU<sub>7</sub>  
 2000 SY<sub>200</sub> = 1979 OK<sub>8</sub> = 1999 FV<sub>35</sub>  
 2000 SX<sub>202</sub> = 1995 SX<sub>47</sub>  
 2000 SZ<sub>204</sub> = 1993 PD<sub>4</sub>  
 2000 ST<sub>205</sub> = 1995 UL<sub>50</sub>  
 2000 SA<sub>206</sub> = 1999 LX<sub>24</sub>  
 2000 SN<sub>206</sub> = 1993 SK<sub>11</sub>  
 2000 SC<sub>207</sub> = 1991 FR  
 2000 SR<sub>207</sub> = 1999 GN<sub>56</sub>  
 2000 SC<sub>208</sub> = 1999 JF<sub>108</sub>  
 2000 SK<sub>208</sub> = 1998 DZ<sub>27</sub>  
 2000 SN<sub>208</sub> = 1999 JG<sub>34</sub>  
 2000 SP<sub>208</sub> = 1996 TC<sub>45</sub>  
 2000 SQ<sub>208</sub> = 1999 JK<sub>128</sub>  
 2000 SO<sub>209</sub> = 1998 HE<sub>128</sub>  
 2000 SW<sub>209</sub> = 1981 RJ<sub>7</sub>  
 2000 SC<sub>210</sub> = 1996 BS<sub>13</sub> = 1998 HQ<sub>107</sub>  
 2000 SG<sub>210</sub> = 1998 FX<sub>86</sub>  
 2000 SO<sub>211</sub> = 1998 HV<sub>113</sub>  
 2000 SC<sub>212</sub> = 1999 JQ<sub>122</sub>  
 2000 SN<sub>212</sub> = 1999 NO<sub>25</sub>  
 2000 SP<sub>212</sub> = 1988 RE<sub>13</sub> = 1998 HZ<sub>106</sub>  
 2000 SS<sub>212</sub> = 1999 JJ<sub>102</sub>  
 2000 ST<sub>212</sub> = 1990 UL<sub>14</sub>  
 2000 SY<sub>212</sub> = 1998 HS<sub>142</sub>

2000 SU<sub>213</sub> = 1996 VV<sub>26</sub>  
 2000 SZ<sub>213</sub> = 1999 JG<sub>116</sub>  
 2000 SA<sub>214</sub> = 1992 WE<sub>6</sub>  
 2000 SB<sub>214</sub> = 1991 GT<sub>9</sub> = 1998 BL<sub>16</sub>  
 2000 SD<sub>214</sub> = 1996 SK<sub>2</sub>  
 2000 SD<sub>216</sub> = 1993 FL<sub>77</sub>  
 2000 SE<sub>216</sub> = 1996 HK<sub>6</sub> = 1999 CA<sub>13</sub>  
 2000 SL<sub>216</sub> = 1999 LX<sub>21</sub>  
 2000 SC<sub>217</sub> = 1998 HQ<sub>47</sub>  
 2000 SH<sub>217</sub> = 1990 RJ<sub>8</sub> = 1999 QB  
 2000 SW<sub>217</sub> = 1998 HP<sub>75</sub>  
 2000 SC<sub>218</sub> = 1993 TH<sub>29</sub> = 1999 GG<sub>38</sub>  
 2000 SG<sub>218</sub> = 1998 DX<sub>3</sub>  
 2000 SH<sub>218</sub> = 1996 PV<sub>1</sub>  
 2000 SK<sub>218</sub> = 1990 RP<sub>10</sub> = 1999 GV<sub>38</sub>  
 2000 SP<sub>218</sub> = 1999 LA<sub>9</sub>  
 2000 SH<sub>219</sub> = 1998 GJ<sub>8</sub>  
 2000 SL<sub>219</sub> = 1998 KS<sub>13</sub>  
 2000 SC<sub>220</sub> = 1987 WX<sub>4</sub> = 1998 HC<sub>139</sub>  
 2000 SE<sub>220</sub> = 1999 NQ<sub>5</sub>  
 2000 SK<sub>220</sub> = 1998 BM<sub>46</sub>  
 2000 SS<sub>220</sub> = 1998 BO<sub>2</sub>  
 2000 SU<sub>220</sub> = 1994 RH<sub>15</sub>  
 2000 SW<sub>220</sub> = 1998 HV<sub>108</sub>  
 2000 SC<sub>221</sub> = 1999 PN<sub>1</sub>  
 2000 SE<sub>221</sub> = 1998 HX<sub>104</sub>  
 2000 SF<sub>221</sub> = 1999 GT<sub>45</sub>  
 2000 SK<sub>221</sub> = 1998 KR<sub>58</sub>  
 2000 SE<sub>222</sub> = 1996 RS<sub>33</sub> = 1999 LO<sub>33</sub>  
 2000 SL<sub>222</sub> = 1999 NZ<sub>45</sub>  
 2000 SW<sub>222</sub> = 1996 XX<sub>15</sub>  
 2000 SJ<sub>223</sub> = 1995 UJ<sub>9</sub>  
 2000 SL<sub>223</sub> = 1990 JU<sub>1</sub>  
 2000 SD<sub>224</sub> = 1998 FS<sub>55</sub>  
 2000 SG<sub>224</sub> = 1994 PU<sub>25</sub>  
 2000 SN<sub>224</sub> = 1994 EK<sub>3</sub>  
 2000 ST<sub>224</sub> = 1998 FS<sub>47</sub>  
 2000 SV<sub>225</sub> = 1990 HP<sub>1</sub>  
 2000 SW<sub>225</sub> = 1999 RJ<sub>54</sub>  
 2000 SX<sub>225</sub> = 1989 VO<sub>1</sub>  
 2000 SG<sub>226</sub> = 1989 LV  
 2000 SH<sub>226</sub> = 1992 WF<sub>5</sub> = 1998 HY<sub>137</sub>  
 2000 SS<sub>226</sub> = 1995 QD<sub>5</sub> = 1998 HA<sub>145</sub>  
 2000 SV<sub>226</sub> = 1994 PQ<sub>35</sub>  
 2000 SF<sub>227</sub> = 1998 KL<sub>12</sub> = 1999 RP<sub>111</sub>  
 2000 SJ<sub>227</sub> = 1993 FL<sub>43</sub>  
 2000 SQ<sub>227</sub> = 1999 JH<sub>12</sub>  
 2000 SB<sub>228</sub> = 1997 AN<sub>24</sub> = 1998 HW<sub>52</sub>  
 2000 SC<sub>228</sub> = 1994 RX<sub>3</sub> = 1998 HS<sub>87</sub>  
 2000 SB<sub>229</sub> = 1998 FO<sub>46</sub>  
 2000 SG<sub>229</sub> = 1993 FZ<sub>73</sub>  
 2000 SK<sub>229</sub> = 1998 DE<sub>17</sub>

2000 SV<sub>229</sub> = 1996 RM<sub>23</sub> = 1998 FB<sub>129</sub>  
 2000 SA<sub>230</sub> = 1998 HE<sub>85</sub> = 1999 PP<sub>7</sub>  
 2000 SC<sub>230</sub> = 1998 GU<sub>11</sub>  
 2000 SJ<sub>230</sub> = 1993 FM<sub>43</sub>  
 2000 SK<sub>230</sub> = 2000 SC<sub>153</sub> = 1998 FU<sub>142</sub>  
 2000 SO<sub>230</sub> = 1998 DU<sub>21</sub>  
 2000 SQ<sub>230</sub> = 1998 EV<sub>5</sub>  
 2000 SL<sub>233</sub> = 1998 HD<sub>114</sub>  
 2000 SO<sub>233</sub> = 1999 JT<sub>118</sub>  
 2000 SX<sub>233</sub> = 1999 GJ<sub>41</sub>  
 2000 SB<sub>235</sub> = 1995 VS<sub>16</sub>  
 2000 SV<sub>235</sub> = 1998 HD<sub>79</sub>  
 2000 SK<sub>236</sub> = 1998 DA<sub>23</sub>  
 2000 SB<sub>237</sub> = 1997 GM<sub>2</sub> = 2000 TH<sub>68</sub>  
 2000 SE<sub>237</sub> = 1995 DD<sub>3</sub>  
 2000 SP<sub>237</sub> = 1998 HE<sub>114</sub> = 1999 NP<sub>35</sub>  
 2000 SX<sub>237</sub> = 1997 WA<sub>43</sub>  
 2000 SA<sub>238</sub> = 1998 HA<sub>112</sub>  
 2000 SO<sub>238</sub> = 1982 XB<sub>3</sub> = 1994 LN<sub>3</sub> = 1998 FV<sub>91</sub>  
 2000 SU<sub>238</sub> = 1992 EO<sub>1</sub> = 1993 OX<sub>12</sub>  
 2000 SV<sub>238</sub> = 1995 YE<sub>22</sub> = 1998 HH<sub>111</sub>  
 2000 SA<sub>239</sub> = 1999 GY<sub>32</sub>  
 2000 SL<sub>240</sub> = 1999 FE<sub>60</sub>  
 2000 SR<sub>241</sub> = 1993 UC<sub>5</sub>  
 2000 SF<sub>242</sub> = 1989 TQ<sub>16</sub>  
 2000 SB<sub>243</sub> = 1996 TX<sub>30</sub>  
 2000 SX<sub>243</sub> = 1999 GX<sub>43</sub>  
 2000 SD<sub>249</sub> = 1998 FL<sub>140</sub>  
 2000 SW<sub>249</sub> = 1998 EG<sub>5</sub>  
 2000 SJ<sub>251</sub> = 1998 DN<sub>36</sub>  
 2000 SO<sub>251</sub> = 1998 BS<sub>44</sub>  
 2000 ST<sub>251</sub> = 1992 EV<sub>27</sub> = 1998 FT<sub>132</sub>  
 2000 SG<sub>252</sub> = 1998 HY<sub>149</sub>  
 2000 SQ<sub>252</sub> = 1993 TW<sub>31</sub> = 1994 YC<sub>3</sub> = 1999 GH<sub>39</sub>  
 2000 SV<sub>257</sub> = 1999 HQ<sub>7</sub>  
 2000 SD<sub>258</sub> = 1994 GV<sub>2</sub>  
 2000 SQ<sub>258</sub> = 1996 TS<sub>1</sub>  
 2000 SS<sub>258</sub> = 1993 FY<sub>15</sub>  
 2000 SU<sub>258</sub> = 1993 UF<sub>4</sub>  
 2000 SW<sub>258</sub> = 1992 GD<sub>7</sub> = 1999 JE<sub>44</sub>  
 2000 SG<sub>259</sub> = 1998 HE<sub>63</sub>  
 2000 SY<sub>259</sub> = 1999 NF<sub>59</sub>  
 2000 SD<sub>260</sub> = 1996 XR<sub>11</sub>  
 2000 SG<sub>260</sub> = 1998 FL<sub>22</sub>  
 2000 SL<sub>260</sub> = 1998 HQ<sub>29</sub>  
 2000 SM<sub>260</sub> = 1998 GL<sub>3</sub>  
 2000 SO<sub>260</sub> = 1999 NR<sub>57</sub>  
 2000 SA<sub>261</sub> = 1998 FL<sub>132</sub>  
 2000 SD<sub>261</sub> = 1998 FV<sub>69</sub>  
 2000 SF<sub>261</sub> = 1986 RY<sub>1</sub>  
 2000 SL<sub>261</sub> = 1995 DB<sub>11</sub>  
 2000 SE<sub>262</sub> = 1997 CT<sub>23</sub>

2000 SR<sub>264</sub> = 1997 ES<sub>33</sub> = 1998 LE<sub>4</sub>  
 2000 SE<sub>265</sub> = 1999 LO<sub>19</sub>  
 2000 SX<sub>265</sub> = 1998 FX<sub>84</sub>  
 2000 SE<sub>266</sub> = 1965 VD = 1971 BA<sub>1</sub> = 1998 HT<sub>47</sub>  
 2000 SV<sub>266</sub> = 1999 JM<sub>27</sub>  
 2000 SO<sub>267</sub> = 1997 BC<sub>4</sub>  
 2000 SD<sub>268</sub> = 1996 NC<sub>4</sub>  
 2000 SG<sub>268</sub> = 1993 TT<sub>25</sub>  
 2000 SK<sub>268</sub> = 1998 HT<sub>1</sub>  
 2000 SO<sub>268</sub> = 1998 HX<sub>107</sub>  
 2000 SC<sub>269</sub> = 1998 KE<sub>7</sub>  
 2000 SF<sub>269</sub> = 1998 FR<sub>81</sub>  
 2000 SH<sub>269</sub> = 1993 FX<sub>53</sub>  
 2000 SJ<sub>269</sub> = 1995 EX<sub>3</sub>  
 2000 SB<sub>270</sub> = 1995 HX  
 2000 SC<sub>270</sub> = 1997 ED<sub>28</sub> = 1998 KX<sub>57</sub> = 1999 NZ<sub>32</sub>  
 2000 SE<sub>270</sub> = 1995 YM<sub>5</sub> = 1998 HJ<sub>140</sub>  
 2000 SL<sub>270</sub> = 1993 YB<sub>1</sub>  
 2000 SR<sub>270</sub> = 1998 HJ<sub>48</sub>  
 2000 SY<sub>270</sub> = 1995 JL<sub>1</sub>  
 2000 SE<sub>271</sub> = 1998 DK<sub>13</sub>  
 2000 SJ<sub>271</sub> = 1999 JT<sub>102</sub>  
 2000 SV<sub>271</sub> = 1994 SA<sub>6</sub>  
 2000 SN<sub>272</sub> = 1998 FA<sub>137</sub>  
 2000 SZ<sub>272</sub> = 1981 JK<sub>6</sub>  
 2000 SA<sub>273</sub> = 1979 OW<sub>5</sub> = 1997 WM<sub>55</sub> = 1999 JL<sub>120</sub>  
 2000 SU<sub>273</sub> = 1998 HP<sub>76</sub> = 1999 NO<sub>21</sub>  
 2000 SB<sub>274</sub> = 1998 HV<sub>51</sub>  
 2000 SF<sub>274</sub> = 1998 KE<sub>35</sub>  
 2000 SG<sub>274</sub> = 1999 JC<sub>26</sub> = 1999 KB<sub>19</sub>  
 2000 SM<sub>274</sub> = 1977 RT<sub>12</sub>  
 2000 SO<sub>274</sub> = 1999 GZ<sub>28</sub>  
 2000 SS<sub>274</sub> = 1995 EP<sub>5</sub>  
 2000 SU<sub>274</sub> = 1993 TL<sub>20</sub>  
 2000 SB<sub>275</sub> = 1998 HT<sub>35</sub>  
 2000 SJ<sub>275</sub> = 1998 GR<sub>1</sub>  
 2000 ST<sub>275</sub> = 1996 TB<sub>56</sub>  
 2000 SU<sub>275</sub> = 1998 HW<sub>58</sub>  
 2000 SW<sub>275</sub> = 1990 RU  
 2000 SA<sub>276</sub> = 1994 CR<sub>5</sub> = 1999 LF<sub>3</sub>  
 2000 SC<sub>276</sub> = 1999 GZ<sub>26</sub>  
 2000 SO<sub>276</sub> = 1981 EW<sub>35</sub>  
 2000 SP<sub>276</sub> = 1994 JN<sub>5</sub> = 1998 HP<sub>65</sub>  
 2000 SQ<sub>276</sub> = 1996 XE<sub>15</sub>  
 2000 SA<sub>277</sub> = 1990 SG<sub>7</sub>  
 2000 SF<sub>277</sub> = 1977 US<sub>3</sub>  
 2000 SL<sub>277</sub> = 1978 WM<sub>13</sub>  
 2000 SB<sub>278</sub> = 1995 EW<sub>7</sub> = 1999 HO<sub>5</sub>  
 2000 SD<sub>278</sub> = 1996 HG<sub>18</sub>  
 2000 SG<sub>278</sub> = 1998 HM<sub>86</sub>  
 2000 SL<sub>278</sub> = 1999 NH<sub>58</sub>  
 2000 ST<sub>278</sub> = 1998 JS<sub>4</sub>

2000 SA<sub>279</sub> = 1974 DO<sub>2</sub> = 1999 NN<sub>24</sub>  
 2000 SC<sub>279</sub> = 1992 EG<sub>1</sub>  
 2000 SL<sub>279</sub> = 1994 RT<sub>10</sub>  
 2000 SO<sub>279</sub> = 1998 HC<sub>145</sub> = 1999 NQ<sub>14</sub>  
 2000 SU<sub>279</sub> = 1999 LR<sub>14</sub>  
 2000 SB<sub>280</sub> = 1977 DF<sub>5</sub> = 1997 YB<sub>11</sub>  
 2000 SF<sub>280</sub> = 1998 FF<sub>115</sub> = 1999 RX<sub>111</sub>  
 2000 SL<sub>280</sub> = 1999 FV<sub>7</sub>  
 2000 SM<sub>280</sub> = 1998 HC<sub>53</sub>  
 2000 SO<sub>280</sub> = 1978 UG<sub>7</sub>  
 2000 SB<sub>285</sub> = 1999 LR<sub>9</sub>  
 2000 SJ<sub>285</sub> = 2000 SK<sub>344</sub> = 1998 HO<sub>65</sub>  
 2000 SQ<sub>285</sub> = 1998 HW<sub>153</sub> = 1999 RQ<sub>99</sub>  
 2000 ST<sub>285</sub> = 1998 FD<sub>13</sub>  
 2000 SD<sub>287</sub> = 1998 DG<sub>4</sub>  
 2000 SN<sub>287</sub> = 1992 YY<sub>2</sub>  
 2000 SA<sub>288</sub> = 1996 YL<sub>1</sub>  
 2000 SF<sub>289</sub> = 1999 FV<sub>1</sub>  
 2000 SO<sub>289</sub> = 1998 FM<sub>22</sub>  
 2000 SV<sub>289</sub> = 1999 RX<sub>63</sub>  
 2000 SK<sub>290</sub> = 1996 XU<sub>10</sub>  
 2000 SL<sub>290</sub> = 1998 FV<sub>21</sub>  
 2000 SX<sub>290</sub> = 1994 RM<sub>19</sub>  
 2000 SL<sub>291</sub> = 1998 FF<sub>146</sub>  
 2000 SU<sub>291</sub> = 1993 FA<sub>67</sub>  
 2000 SN<sub>292</sub> = 1999 RH<sub>60</sub>  
 2000 SS<sub>292</sub> = 1999 NZ<sub>48</sub>  
 2000 SV<sub>292</sub> = 1997 CE<sub>4</sub> = 1999 NR<sub>24</sub>  
 2000 SY<sub>292</sub> = 1999 NX<sub>62</sub>  
 2000 SD<sub>293</sub> = 1999 NT<sub>60</sub>  
 2000 SC<sub>294</sub> = 1993 SS<sub>11</sub>  
 2000 SV<sub>294</sub> = 1980 FD<sub>2</sub>  
 2000 SQ<sub>295</sub> = 1993 RF<sub>9</sub>  
 2000 ST<sub>295</sub> = 1999 NO<sub>12</sub>  
 2000 SA<sub>296</sub> = 1993 TY<sub>21</sub> = 1999 JU<sub>136</sub>  
 2000 SF<sub>296</sub> = 1998 KD<sub>2</sub>  
 2000 SR<sub>297</sub> = 1996 XK<sub>8</sub> = 1998 FE<sub>110</sub>  
 2000 SU<sub>298</sub> = 1993 BV<sub>6</sub> = 1998 FV<sub>100</sub> = 1999 NW<sub>29</sub>  
 2000 SM<sub>299</sub> = 1998 BU<sub>28</sub>  
 2000 SA<sub>300</sub> = 1995 UR<sub>24</sub>  
 2000 SN<sub>300</sub> = 1999 LG<sub>34</sub>  
 2000 SA<sub>302</sub> = 1998 HX<sub>65</sub>  
 2000 SF<sub>302</sub> = 1998 FQ<sub>68</sub>  
 2000 SJ<sub>302</sub> = 1999 JG<sub>117</sub>  
 2000 SB<sub>303</sub> = 1998 MU<sub>17</sub>  
 2000 SO<sub>305</sub> = 1993 XL<sub>2</sub>  
 2000 SP<sub>305</sub> = 1953 TU<sub>3</sub> = 1998 KU<sub>9</sub>  
 2000 SS<sub>305</sub> = 1987 QR<sub>6</sub>  
 2000 SR<sub>306</sub> = 1993 PY<sub>1</sub>  
 2000 SW<sub>306</sub> = 1999 ND<sub>2</sub>  
 2000 SD<sub>307</sub> = 1994 RX<sub>27</sub>  
 2000 SG<sub>307</sub> = 1994 RW<sub>23</sub>

2000 SL<sub>307</sub> = 1999 RA<sub>53</sub>  
 2000 SA<sub>308</sub> = 1998 BX<sub>34</sub> = 1999 NV<sub>50</sub>  
 2000 SP<sub>308</sub> = 1997 XV<sub>3</sub>  
 2000 SM<sub>309</sub> = 1972 TW<sub>1</sub> = 1979 WG<sub>7</sub> = 1993 VT<sub>4</sub>  
 2000 SP<sub>309</sub> = 1999 JN<sub>51</sub> = 1999 ME<sub>2</sub>  
 2000 SJ<sub>310</sub> = 1995 CB<sub>2</sub> = 1999 TN<sub>322</sub>  
 2000 SY<sub>310</sub> = 1982 DT<sub>2</sub>  
 2000 SB<sub>311</sub> = 1994 PO<sub>31</sub>  
 2000 SD<sub>311</sub> = 1977 UN<sub>2</sub> = 1994 RQ<sub>11</sub> = 1995 WA<sub>43</sub>  
 2000 SJ<sub>311</sub> = 1996 XU<sub>31</sub>  
 2000 SH<sub>315</sub> = 1995 SN<sub>31</sub>  
 2000 SD<sub>317</sub> = 1996 XY<sub>13</sub>  
 2000 SG<sub>318</sub> = 1999 JH<sub>129</sub>  
 2000 SM<sub>318</sub> = 1995 UZ<sub>51</sub>  
 2000 SW<sub>319</sub> = 1999 RL<sub>47</sub>  
 2000 SY<sub>319</sub> = 1989 YP<sub>9</sub> = 1999 RC<sub>246</sub>  
 2000 SD<sub>320</sub> = 1998 BL<sub>48</sub>  
 2000 SS<sub>320</sub> = 1993 FD<sub>39</sub>  
 2000 SV<sub>320</sub> = 1998 HH<sub>38</sub>  
 2000 SL<sub>323</sub> = 1991 EF<sub>9</sub> = 1999 NR<sub>22</sub>  
 2000 SF<sub>327</sub> = 1998 HA<sub>107</sub>  
 2000 SN<sub>327</sub> = 1982 BM<sub>10</sub> = 1990 DU<sub>5</sub>  
 2000 SP<sub>327</sub> = 1980 FY<sub>6</sub> = 1999 NY<sub>25</sub>  
 2000 SR<sub>327</sub> = 1998 EO<sub>1</sub>  
 2000 SC<sub>328</sub> = 1997 HC<sub>5</sub>  
 2000 SA<sub>329</sub> = 1998 HV<sub>22</sub>  
 2000 SF<sub>336</sub> = 1997 EG<sub>28</sub>  
 2000 SG<sub>336</sub> = 1998 FQ<sub>17</sub>  
 2000 SL<sub>336</sub> = 1989 SM<sub>5</sub>  
 2000 SR<sub>336</sub> = 1998 HY<sub>21</sub>  
 2000 SW<sub>336</sub> = 1996 TK<sub>4</sub> = 1999 NM  
 2000 SG<sub>339</sub> = 1996 XW<sub>35</sub>  
 2000 SR<sub>339</sub> = 1990 RR<sub>14</sub> = 1990 SP<sub>21</sub> = 1998 FD<sub>90</sub>  
 2000 ST<sub>339</sub> = 1996 TW<sub>58</sub>  
 2000 SV<sub>339</sub> = 1998 FY<sub>102</sub>  
 2000 SF<sub>343</sub> = 1998 HK<sub>73</sub>  
 2000 TA = 1999 RP<sub>99</sub>  
 2000 TB = 1998 FM<sub>23</sub>  
 2000 TC = 1998 HA<sub>45</sub>  
 2000 TL = 1987 QQ<sub>7</sub> = 1991 PR<sub>27</sub> = 1998 BP<sub>40</sub>  
 2000 TR = 1998 KR<sub>38</sub> = 1999 SY<sub>6</sub>  
 2000 TS = 1989 RZ<sub>2</sub> = 1995 XQ<sub>1</sub>  
 2000 TP<sub>1</sub> = 1998 FS<sub>80</sub>  
 2000 TC<sub>2</sub> = 1995 US<sub>44</sub>  
 2000 TO<sub>2</sub> = 1985 CR  
 2000 TR<sub>7</sub> = 1996 RU<sub>13</sub>  
 2000 TS<sub>7</sub> = 1999 FY<sub>13</sub>  
 2000 TL<sub>11</sub> = 1995 SY<sub>46</sub>  
 2000 TM<sub>13</sub> = 1995 WZ<sub>35</sub>  
 2000 TP<sub>13</sub> = 1996 PD<sub>7</sub>  
 2000 TQ<sub>13</sub> = 1998 HV<sub>79</sub>  
 2000 TJ<sub>14</sub> = 1997 CM<sub>25</sub>

2000 TB<sub>15</sub> = 2000 SZ<sub>236</sub> = 1997 ED<sub>46</sub>  
 2000 TY<sub>15</sub> = 1998 FF<sub>55</sub>  
 2000 TE<sub>17</sub> = 1996 TF<sub>29</sub>  
 2000 TM<sub>17</sub> = 1992 DA<sub>11</sub> = 1994 RU<sub>23</sub>  
 2000 TF<sub>18</sub> = 1998 HF<sub>57</sub>  
 2000 TL<sub>18</sub> = 1998 HR<sub>77</sub>  
 2000 TO<sub>18</sub> = 1998 HE<sub>58</sub>  
 2000 TQ<sub>18</sub> = 1998 FW<sub>31</sub>  
 2000 TD<sub>19</sub> = 1999 LO<sub>13</sub>  
 2000 TG<sub>19</sub> = 1999 GB<sub>43</sub>  
 2000 TN<sub>21</sub> = 1999 KN<sub>7</sub>  
 2000 TV<sub>22</sub> = 1997 CD<sub>19</sub>  
 2000 TP<sub>24</sub> = 1995 UB<sub>34</sub>  
 2000 TS<sub>24</sub> = 1998 HV<sub>25</sub>  
 2000 TE<sub>25</sub> = 1999 JZ<sub>116</sub>  
 2000 TG<sub>25</sub> = 1999 KU<sub>7</sub>  
 2000 TP<sub>25</sub> = 1998 HL<sub>135</sub>  
 2000 TQ<sub>25</sub> = 1994 JQ<sub>3</sub>  
 2000 TC<sub>27</sub> = 1998 KO<sub>10</sub>  
 2000 TU<sub>27</sub> = 1994 ND<sub>7</sub>  
 2000 TD<sub>28</sub> = 1999 LF<sub>17</sub>  
 2000 TQ<sub>28</sub> = 1976 UR<sub>8</sub>  
 2000 TL<sub>29</sub> = 1984 WK<sub>2</sub>  
 2000 TN<sub>29</sub> = 1996 XF<sub>4</sub>  
 2000 TA<sub>30</sub> = 1996 PX<sub>5</sub>  
 2000 TV<sub>32</sub> = 1993 BD<sub>7</sub>  
 2000 TB<sub>34</sub> = 1998 FR<sub>80</sub>  
 2000 TC<sub>34</sub> = 1991 TD<sub>3</sub>  
 2000 TF<sub>35</sub> = 1998 HB<sub>36</sub>  
 2000 TH<sub>36</sub> = 1994 PP<sub>8</sub>  
 2000 TO<sub>36</sub> = 1998 HQ<sub>62</sub>  
 2000 TP<sub>37</sub> = 1990 VS<sub>3</sub>  
 2000 TS<sub>37</sub> = 1999 CK<sub>97</sub>  
 2000 TO<sub>38</sub> = 1998 HD<sub>63</sub>  
 2000 TN<sub>39</sub> = 1998 HZ<sub>22</sub>  
 2000 TV<sub>39</sub> = 1996 XU<sub>36</sub> = 1999 LJ<sub>6</sub>  
 2000 TY<sub>41</sub> = 1999 JT<sub>89</sub>  
 2000 TD<sub>42</sub> = 1982 DJ<sub>4</sub> = 1999 NQ<sub>44</sub>  
 2000 TW<sub>44</sub> = 4670 T-3  
 2000 TH<sub>45</sub> = 1998 GU<sub>3</sub>  
 2000 TZ<sub>48</sub> = 1992 EV<sub>10</sub> = 1997 EY<sub>38</sub>  
 2000 TD<sub>50</sub> = 1999 NA<sub>47</sub>  
 2000 TV<sub>55</sub> = 1999 GK<sub>42</sub>  
 2000 TY<sub>56</sub> = 1999 LM<sub>21</sub>  
 2000 TO<sub>57</sub> = 1998 GE<sub>2</sub> = 1999 LA<sub>24</sub>  
 2000 TP<sub>58</sub> = 1998 AE<sub>6</sub>  
 2000 TT<sub>58</sub> = 1976 KU = 1978 WD<sub>17</sub> = 1987 HH = 1998 GY<sub>4</sub>  
 2000 TE<sub>60</sub> = 1999 JG<sub>91</sub>  
 2000 TL<sub>60</sub> = 1998 GC<sub>10</sub> = 1999 OU<sub>4</sub>  
 2000 TA<sub>61</sub> = 1994 PF<sub>21</sub>  
 2000 TH<sub>61</sub> = 1998 HR<sub>48</sub>  
 2000 TK<sub>62</sub> = 1995 EE<sub>4</sub> = 1999 JS<sub>33</sub>

2000 TV<sub>62</sub> = 1998 FL<sub>20</sub>  
 2000 TA<sub>65</sub> = 1995 WH<sub>32</sub>  
 2000 TD<sub>66</sub> = 1996 XJ<sub>25</sub>  
 2000 TS<sub>66</sub> = 1978 WM<sub>7</sub>  
 2000 TQ<sub>67</sub> = 1999 ND<sub>21</sub>  
 2000 TR<sub>67</sub> = 1993 RS<sub>19</sub>  
 2000 TT<sub>67</sub> = 1999 JQ<sub>114</sub>  
 2000 UK = 1992 EJ<sub>35</sub>  
 2000 US = 1994 LJ = 1998 FS<sub>86</sub>  
 2000 UT = 1998 FO<sub>45</sub>  
 2000 UV = 1977 UV<sub>4</sub> = 1994 VT<sub>7</sub>  
 2000 UB<sub>1</sub> = 1983 VF = 1999 NP<sub>62</sub>  
 2000 UD<sub>1</sub> = 1993 FJ<sub>6</sub>  
 2000 UD<sub>2</sub> = 1998 MX<sub>1</sub>  
 2000 UE<sub>2</sub> = 1999 NH<sub>26</sub>  
 2000 UH<sub>2</sub> = 1999 JU<sub>117</sub>  
 2000 UD<sub>3</sub> = 1998 HQ<sub>53</sub>  
 2000 UY<sub>3</sub> = 1996 RS<sub>1</sub>  
 2000 UD<sub>4</sub> = 1996 TC<sub>59</sub>  
 2000 UK<sub>4</sub> = 1999 JM<sub>13</sub>  
 2000 UP<sub>4</sub> = 1993 XE<sub>3</sub>  
 2000 UD<sub>5</sub> = 1998 FB<sub>139</sub>  
 2000 UU<sub>5</sub> = 1976 UE<sub>16</sub>  
 2000 UV<sub>5</sub> = 1997 AF<sub>9</sub> = 1999 NK<sub>23</sub>  
 2000 UZ<sub>5</sub> = 1999 JD<sub>14</sub>  
 2000 UE<sub>6</sub> = 1998 HT<sub>38</sub> = 1999 NN<sub>60</sub>  
 2000 UO<sub>6</sub> = 1983 VJ<sub>6</sub> = 1994 SB<sub>8</sub> = 1995 YY<sub>24</sub>  
 2000 UR<sub>6</sub> = 1977 TU = 1978 VS<sub>6</sub> = 1978 WB<sub>12</sub>  
 2000 UZ<sub>6</sub> = 1992 BW<sub>4</sub> = 1998 HE<sub>70</sub>  
 2000 UD<sub>7</sub> = 1993 TM<sub>2</sub>  
 2000 UJ<sub>7</sub> = 1995 WR<sub>42</sub>  
 2000 UV<sub>7</sub> = 1998 FT<sub>31</sub>  
 2000 UB<sub>8</sub> = 1998 HQ<sub>61</sub>  
 2000 UC<sub>8</sub> = 1991 FY<sub>5</sub> = 1993 YG<sub>2</sub> = 1998 CA<sub>3</sub>  
 2000 UD<sub>8</sub> = 1996 XJ<sub>35</sub>  
 2000 UH<sub>8</sub> = 1998 FP<sub>100</sub>  
 2000 UK<sub>8</sub> = 1989 SM<sub>2</sub> = 1999 RJ<sub>232</sub>  
 2000 UP<sub>8</sub> = 3559 P-L = 1981 JP<sub>3</sub> = 1999 NO<sub>45</sub>  
 2000 UT<sub>8</sub> = 1996 XC<sub>33</sub>  
 2000 UC<sub>9</sub> = 1999 RM<sub>153</sub>  
 2000 UG<sub>9</sub> = 1999 GH<sub>13</sub>  
 2000 UL<sub>9</sub> = 1998 FS<sub>97</sub>  
 2000 UQ<sub>9</sub> = 1993 TD<sub>32</sub>  
 2000 UH<sub>10</sub> = 1998 HZ<sub>70</sub>  
 2000 UP<sub>10</sub> = 1999 RW<sub>99</sub>  
 2000 UC<sub>11</sub> = 1986 TD<sub>8</sub> = 1986 VN<sub>5</sub> = 1986 XD<sub>2</sub> = 1999 LS<sub>19</sub>  
 2000 UF<sub>11</sub> = 1992 GX<sub>2</sub>  
 2000 UL<sub>12</sub> = 1997 GX<sub>37</sub>  
 2000 UF<sub>13</sub> = 1969 RL<sub>1</sub> = 1992 PV<sub>5</sub>  
 2000 UN<sub>13</sub> = 1998 HV<sub>72</sub>  
 2000 UJ<sub>14</sub> = 1994 RG<sub>10</sub> = 1996 BE<sub>13</sub>  
 2000 UM<sub>14</sub> = 1996 YZ<sub>1</sub>

2000 UZ<sub>14</sub> = 1996 TB<sub>42</sub>  
 2000 UE<sub>15</sub> = 1981 EX<sub>44</sub>  
 2000 UP<sub>16</sub> = 1993 TE<sub>12</sub>  
 2000 UG<sub>17</sub> = 1996 BY<sub>17</sub>  
 2000 UO<sub>17</sub> = 1994 RB<sub>9</sub>  
 2000 UT<sub>17</sub> = 1996 XX<sub>7</sub>  
 2000 UE<sub>18</sub> = 1998 BH<sub>13</sub>  
 2000 UT<sub>18</sub> = 1977 RO<sub>10</sub> = 1991 GR<sub>5</sub>  
 2000 UY<sub>18</sub> = 1997 YZ<sub>10</sub>  
 2000 UE<sub>19</sub> = 1998 JZ<sub>4</sub> = 1999 NT<sub>29</sub>  
 2000 UY<sub>19</sub> = 1995 YU<sub>8</sub>  
 2000 UA<sub>20</sub> = 1978 WE<sub>20</sub> = 1998 KV<sub>41</sub>  
 2000 UD<sub>20</sub> = 1999 HA<sub>5</sub>  
 2000 UF<sub>20</sub> = 1993 FF<sub>72</sub>  
 2000 UG<sub>20</sub> = 1991 VA<sub>10</sub>  
 2000 UN<sub>20</sub> = 1995 UX<sub>47</sub>  
 2000 UP<sub>20</sub> = 1996 RU<sub>9</sub>  
 2000 UD<sub>21</sub> = 1997 CR<sub>5</sub>  
 2000 UE<sub>21</sub> = 1989 SC<sub>6</sub>  
 2000 UJ<sub>21</sub> = 1994 PJ<sub>19</sub>  
 2000 UK<sub>21</sub> = 1993 FZ<sub>82</sub> = 1998 HL<sub>73</sub>  
 2000 US<sub>21</sub> = 1998 DW<sub>29</sub>  
 2000 UX<sub>21</sub> = 1998 HV<sub>144</sub>  
 2000 UZ<sub>21</sub> = 1996 VP<sub>29</sub>  
 2000 UK<sub>22</sub> = 1993 NG<sub>2</sub> = 1998 HQ<sub>96</sub>  
 2000 UP<sub>22</sub> = 1994 ET<sub>4</sub> = 1998 FT<sub>119</sub>  
 2000 UV<sub>22</sub> = 1998 FF<sub>85</sub>  
 2000 UZ<sub>22</sub> = 4109 T-3 = 1998 HF<sub>91</sub>  
 2000 UC<sub>23</sub> = 1993 FA<sub>83</sub>  
 2000 UD<sub>23</sub> = 1998 KH<sub>23</sub>  
 2000 UL<sub>23</sub> = 1998 HE<sub>143</sub>  
 2000 UP<sub>23</sub> = 1999 JK<sub>129</sub>  
 2000 UQ<sub>23</sub> = 1996 KV  
 2000 UC<sub>24</sub> = 1990 WE<sub>4</sub>  
 2000 UJ<sub>24</sub> = 1998 HP<sub>141</sub>  
 2000 UJ<sub>25</sub> = 1993 RJ<sub>13</sub>  
 2000 UZ<sub>25</sub> = 1998 KK<sub>42</sub> = 1999 RU<sub>198</sub>  
 2000 UE<sub>26</sub> = 1997 XP<sub>8</sub>  
 2000 UF<sub>26</sub> = 1974 QH<sub>3</sub> = 1998 KF<sub>20</sub>  
 2000 UL<sub>26</sub> = 1996 TA<sub>51</sub>  
 2000 UO<sub>26</sub> = 1999 JS<sub>128</sub>  
 2000 UV<sub>26</sub> = 1998 FC<sub>16</sub>  
 2000 UO<sub>33</sub> = 1987 KJ<sub>1</sub>  
 2000 UM<sub>34</sub> = 1992 SW<sub>8</sub>  
 2000 UU<sub>34</sub> = 1998 EG<sub>17</sub>  
 2000 UY<sub>34</sub> = 1998 HF<sub>55</sub>  
 2000 UA<sub>36</sub> = 1988 VF<sub>4</sub>  
 2000 UD<sub>37</sub> = 1998 BF<sub>6</sub>  
 2000 UG<sub>37</sub> = 1999 JQ<sub>127</sub>  
 2000 UL<sub>37</sub> = 1998 JY<sub>4</sub>  
 2000 UH<sub>39</sub> = 1999 NR<sub>6</sub>  
 2000 UR<sub>39</sub> = 1998 HC<sub>89</sub>

2000 UK<sub>40</sub> = 1999 NP<sub>61</sub>  
 2000 UQ<sub>40</sub> = 1992 EF<sub>19</sub>  
 2000 UL<sub>43</sub> = 1977 RT<sub>9</sub> = 1999 JW<sub>16</sub>  
 2000 UT<sub>43</sub> = 1978 WH<sub>6</sub>  
 2000 UB<sub>50</sub> = 1996 VA<sub>4</sub>  
 2000 UM<sub>50</sub> = 1999 LL<sub>22</sub>  
 2000 UB<sub>52</sub> = 1998 FP<sub>58</sub>  
 2000 UP<sub>53</sub> = 1999 NP<sub>24</sub>  
 2000 UT<sub>53</sub> = 1996 WD<sub>2</sub> = 1998 HD<sub>137</sub>  
 2000 UR<sub>58</sub> = 1999 JV<sub>29</sub>  
 2000 US<sub>58</sub> = 1991 BO<sub>4</sub> = 1999 NL<sub>22</sub>  
 2000 UJ<sub>59</sub> = 1998 HK<sub>65</sub>  
 2000 UW<sub>59</sub> = 1987 QL<sub>6</sub> = 1992 WN  
 2000 UY<sub>59</sub> = 1998 BV<sub>17</sub>  
 2000 UB<sub>60</sub> = 1999 CN<sub>149</sub>  
 2000 UH<sub>60</sub> = 1998 HV<sub>54</sub>  
 2000 UK<sub>60</sub> = 1997 XL<sub>3</sub>  
 2000 UP<sub>60</sub> = 1996 RL<sub>15</sub>  
 2000 UT<sub>60</sub> = 1996 PT<sub>7</sub>  
 2000 UX<sub>60</sub> = 1998 HA<sub>79</sub>  
 2000 UR<sub>61</sub> = 1995 QL<sub>7</sub>  
 2000 UB<sub>62</sub> = 1998 KU<sub>18</sub>  
 2000 UX<sub>62</sub> = 1998 DM<sub>36</sub>  
 2000 UD<sub>63</sub> = 1998 LR<sub>3</sub>  
 2000 UF<sub>63</sub> = 1999 LG<sub>17</sub>  
 2000 UR<sub>63</sub> = 1996 TW<sub>13</sub>  
 2000 UN<sub>64</sub> = 1998 BP<sub>31</sub>  
 2000 UF<sub>65</sub> = 1996 UE<sub>2</sub>  
 2000 UF<sub>66</sub> = 1998 CS<sub>4</sub>  
 2000 UR<sub>66</sub> = 1993 SF<sub>16</sub>  
 2000 UN<sub>67</sub> = 1997 CH<sub>21</sub> = 1998 HH<sub>68</sub> = 1999 NK<sub>24</sub>  
 2000 UJ<sub>69</sub> = 1993 UM<sub>2</sub>  
 2000 UA<sub>70</sub> = 1996 YM<sub>1</sub> = 1998 HS<sub>97</sub>  
 2000 UB<sub>70</sub> = 1994 RL<sub>21</sub> = 1997 ES<sub>15</sub>  
 2000 US<sub>70</sub> = 1994 LM<sub>4</sub> = 1998 FP<sub>99</sub>  
 2000 UZ<sub>70</sub> = 1991 PZ<sub>13</sub>  
 2000 UF<sub>71</sub> = 1998 BJ<sub>39</sub>  
 2000 UB<sub>72</sub> = 1983 VO<sub>3</sub> = 1998 FU<sub>5</sub>  
 2000 UG<sub>72</sub> = 1993 TE<sub>14</sub> = 1993 UD<sub>9</sub>  
 2000 UK<sub>72</sub> = 1998 HO<sub>93</sub>  
 2000 UQ<sub>73</sub> = 1998 FP<sub>50</sub> = 1999 NL<sub>35</sub>  
 2000 UF<sub>75</sub> = 1998 HQ<sub>26</sub>  
 2000 UM<sub>79</sub> = 1999 NO<sub>58</sub>  
 2000 UN<sub>79</sub> = 1978 WX<sub>2</sub>  
 2000 US<sub>79</sub> = 1995 WX<sub>41</sub> = 1998 FL<sub>112</sub> = 1999 ND<sub>48</sub>  
 2000 UU<sub>79</sub> = 1993 TP<sub>30</sub>  
 2000 UX<sub>79</sub> = 1998 HO<sub>133</sub>  
 2000 UU<sub>81</sub> = 1991 XA<sub>5</sub> = 1999 TE<sub>273</sub>  
 2000 UG<sub>82</sub> = 1994 CQ<sub>7</sub>  
 2000 VG<sub>3</sub> = 1999 KV<sub>8</sub>  
 2000 VJ<sub>3</sub> = 1996 TR<sub>58</sub> = 1999 NX<sub>22</sub>  
 2000 VD<sub>16</sub> = 1992 OU<sub>5</sub> = 1998 FY<sub>22</sub>

2000 VW<sub>23</sub> = 1996 VW<sub>34</sub> = 1999 RJ<sub>116</sub>  
 2000 VG<sub>38</sub> = 1991 YK<sub>2</sub> = 1999 RH<sub>119</sub>  
 2000 VZ<sub>38</sub> = 1998 BR<sub>37</sub> = 1999 LK<sub>13</sub>  
 2119 P-L = 2000 UV<sub>6</sub>  
 2132 P-L = 2000 SS<sub>304</sub>  
 2653 P-L = 2000 QZ<sub>196</sub>  
 2692 P-L = 2000 UM<sub>24</sub>  
 2700 P-L = 2000 SD<sub>274</sub>  
 2721 P-L = 1999 VF<sub>94</sub>  
 2766 P-L = 2000 RV<sub>69</sub>  
 2775 P-L = 2000 SW<sub>241</sub>  
 2793 P-L = 2000 SM<sub>42</sub>  
 2844 P-L = 1999 TM<sub>38</sub>  
 3019 P-L = 2000 SX<sub>136</sub>  
 3044 P-L = 2000 RS<sub>104</sub>  
 3085 P-L = 2000 RF<sub>31</sub>  
 3110 P-L = 2000 SW<sub>132</sub>  
 3116 P-L = 2000 RZ<sub>104</sub>  
 3528 P-L = 1991 TF<sub>12</sub> = 2000 SM<sub>175</sub>  
 3539 P-L = 2000 JN<sub>71</sub>  
 4076 P-L = 2000 RC<sub>9</sub>  
 4101 P-L = 1998 XP<sub>40</sub>  
 4125 P-L = 2000 QW<sub>154</sub>  
 4148 P-L = 1990 SG<sub>26</sub> = 1997 GV<sub>14</sub>  
 4178 P-L = 2000 SV<sub>234</sub>  
 4203 P-L = 2000 SF<sub>99</sub>  
 4236 P-L = 1993 FG<sub>66</sub>  
 4251 P-L = 2000 SG<sub>19</sub>  
 4280 P-L = 2000 SV<sub>146</sub>  
 4305 P-L = 1999 TO<sub>160</sub>  
 4509 P-L = 2000 AW<sub>111</sub>  
 4551 P-L = 1996 AZ<sub>8</sub>  
 4727 P-L = 2000 SE<sub>54</sub>  
 4739 P-L = 2000 VT<sub>54</sub>  
 4740 P-L = 2000 SK<sub>228</sub>  
 4748 P-L = 1998 QC<sub>21</sub>  
 4755 P-L = 1999 TA<sub>239</sub>  
 4757 P-L = 1977 RS<sub>12</sub> = 2000 TL<sub>9</sub>  
 4786 P-L = 2000 HL<sub>18</sub>  
 4791 P-L = 2000 SE<sub>224</sub>  
 4854 P-L = 2000 QW<sub>21</sub>  
 4857 P-L = 2000 QA<sub>195</sub>  
 4883 P-L = 2000 SF<sub>228</sub>  
 4894 P-L = 2000 SJ<sub>65</sub>  
 4900 P-L = 2000 OJ<sub>68</sub>  
 5570 P-L = 2000 QD<sub>128</sub>  
 6008 P-L = 1999 CO<sub>154</sub>  
 6096 P-L = 2000 UR<sub>14</sub>  
 6159 P-L = 2000 SP<sub>138</sub>  
 6192 P-L = 2000 HF<sub>87</sub>  
 6213 P-L = 2000 UU<sub>4</sub>  
 6218 P-L = 2000 QX<sub>114</sub>

6233 P-L = 2000 SA<sub>169</sub>  
 6296 P-L = 2000 SU<sub>50</sub>  
 6318 P-L = 2000 SQ<sub>299</sub>  
 6340 P-L = 1992 WV<sub>7</sub>  
 6362 P-L = 2000 SB<sub>189</sub>  
 6592 P-L = 2000 SE<sub>62</sub>  
 6632 P-L = 1987 BE<sub>1</sub> = 2000 VK<sub>17</sub>  
 6633 P-L = 2000 UY<sub>22</sub>  
 6689 P-L = 2000 SD<sub>127</sub>  
 6699 P-L = 2000 SA<sub>84</sub>  
 6711 P-L = 2000 SX  
 6714 P-L = 2000 TS<sub>31</sub>  
 6716 P-L = 1999 VS<sub>200</sub>  
 6752 P-L = 1999 JT<sub>56</sub>  
 6775 P-L = 2000 VK<sub>16</sub>  
 6780 P-L = 1977 RM<sub>9</sub> = 1997 ED<sub>18</sub> = 2000 SE<sub>252</sub>  
 6839 P-L = 2000 QM<sub>213</sub>  
 6857 P-L = 2000 QS<sub>49</sub>  
 6862 P-L = 2000 QA<sub>21</sub>  
 6865 P-L = 2000 SF<sub>164</sub>  
 7596 P-L = 2000 PA<sub>23</sub>  
 7637 P-L = 1959 GA = 1989 TP<sub>13</sub> = 2000 SM<sub>275</sub>  
 7642 P-L = 2000 SC<sub>3</sub>  
 9061 P-L = 2000 BJ<sub>10</sub>  
 9074 P-L = 2000 SA<sub>153</sub>  
 9524 P-L = 2000 EU<sub>194</sub>  
 9562 P-L = 2000 QA<sub>67</sub>  
 9589 P-L = 2000 RV<sub>2</sub>  
 9593 P-L = 2000 QX<sub>135</sub>  
 9618 P-L = 2000 QE<sub>214</sub>  
 1032 T-1 = 1999 RF<sub>114</sub>  
 1038 T-1 = 2000 OV<sub>26</sub>  
 1073 T-1 = 1997 TV<sub>20</sub>  
 1103 T-1 = 1995 QN<sub>5</sub>  
 1110 T-1 = 2000 SJ<sub>169</sub>  
 1218 T-1 = 2000 CM<sub>125</sub>  
 1223 T-1 = 2000 SJ<sub>341</sub>  
 2034 T-1 = 2000 ST<sub>36</sub>  
 2125 T-1 = 2000 VM<sub>53</sub>  
 2137 T-1 = 1995 SX<sub>13</sub>  
 2211 T-1 = 2000 RT<sub>50</sub>  
 2233 T-1 = 1976 JC<sub>5</sub> = 2000 RK<sub>94</sub>  
 2247 T-1 = 2000 UZ<sub>40</sub>  
 2257 T-1 = 1998 KX<sub>53</sub>  
 2265 T-1 = 2000 AS<sub>231</sub>  
 2288 T-1 = 1982 TV = 1998 HR<sub>30</sub> = 2000 SL<sub>115</sub>  
 3062 T-1 = 2000 SQ<sub>110</sub>  
 3313 T-1 = 2000 RR<sub>58</sub>  
 4065 T-1 = 2000 CM<sub>68</sub>  
 4117 T-1 = 2000 SV<sub>205</sub>  
 4189 T-1 = 1998 QR<sub>110</sub> = 2000 BC<sub>41</sub>  
 1014 T-2 = 2000 SJ<sub>272</sub>

1032 T-2 = 2000 QD<sub>84</sub>  
 1036 T-2 = 1997 LG<sub>7</sub> = 2000 ES<sub>187</sub>  
 1072 T-2 = 2000 QX<sub>207</sub>  
 1082 T-2 = 2000 SP<sub>115</sub>  
 1086 T-2 = 2000 UT<sub>47</sub>  
 1127 T-2 = 2000 SM<sub>257</sub>  
 1155 T-2 = 2000 RE<sub>6</sub>  
 1204 T-2 = 2000 UD<sub>38</sub>  
 1206 T-2 = 2000 SJ<sub>70</sub>  
 1219 T-2 = 1999 TL<sub>140</sub>  
 1244 T-2 = 1998 HQ<sub>119</sub> = 2000 SH<sub>127</sub>  
 1330 T-2 = 2000 QV<sub>204</sub>  
 1496 T-2 = 2000 SP<sub>223</sub>  
 1541 T-2 = 2000 SO<sub>273</sub>  
 1564 T-2 = 2000 SP<sub>162</sub>  
 1606 T-2 = 2000 SV<sub>177</sub>  
 2048 T-2 = 2000 SV<sub>155</sub>  
 2103 T-2 = 2000 QL<sub>89</sub>  
 2118 T-2 = 2000 SM<sub>66</sub>  
 2140 T-2 = 2000 SN<sub>242</sub>  
 2175 T-2 = 2000 SB<sub>267</sub>  
 2195 T-2 = 2000 SW<sub>110</sub>  
 2263 T-2 = 2000 SU<sub>53</sub>  
 2283 T-2 = 2000 ON<sub>60</sub>  
 2300 T-2 = 2000 QZ<sub>91</sub>  
 2907 T-2 = 1998 FL<sub>24</sub>  
 3005 T-2 = 2000 UW  
 3040 T-2 = 2000 SO<sub>162</sub>  
 3136 T-2 = 2000 UJ<sub>88</sub>  
 3165 T-2 = 1998 HB<sub>66</sub> = 2000 SB<sub>204</sub>  
 3192 T-2 = 2000 RQ<sub>4</sub>  
 3245 T-2 = 2000 SR<sub>13</sub>  
 3317 T-2 = 1998 XW<sub>66</sub>  
 3324 T-2 = 2000 SN<sub>144</sub>  
 3326 T-2 = 1978 WA<sub>5</sub> = 2000 SF<sub>63</sub>  
 3919 T-2 = 1999 TA<sub>285</sub>  
 4102 T-2 = 3952 T-3 = 2000 SR<sub>110</sub>  
 4105 T-2 = 2000 RB<sub>74</sub>  
 4218 T-2 = 2000 UZ<sub>93</sub>  
 4243 T-2 = 2000 SJ<sub>225</sub>  
 4264 T-2 = 2000 VE<sub>52</sub>  
 4524 T-2 = 2000 SN<sub>114</sub>  
 4649 T-2 = 1994 SS<sub>7</sub>  
 5002 T-2 = 2000 SN<sub>133</sub>  
 5064 T-2 = 2000 QP<sub>118</sub>  
 5100 T-2 = 2000 SD<sub>283</sub>  
 5132 T-2 = 2000 ST<sub>92</sub>  
 5157 T-2 = 2000 SP<sub>19</sub>  
 5164 T-2 = 2000 QS<sub>158</sub>  
 5165 T-2 = 2000 RB<sub>17</sub>  
 5207 T-2 = 2000 SX<sub>175</sub>  
 1019 T-3 = 2000 RG<sub>40</sub>

1043 T-3 = 2000 SZ<sub>275</sub>  
 1114 T-3 = 2000 SX<sub>166</sub>  
 1122 T-3 = 2000 SM<sub>179</sub>  
 1159 T-3 = 2000 RO<sub>98</sub>  
 1163 T-3 = 2000 RC<sub>91</sub>  
 1193 T-3 = 2000 RY<sub>98</sub>  
 1197 T-3 = 2000 QG<sub>88</sub>  
 1202 T-3 = 2000 SA<sub>8</sub>  
 2049 T-3 = 1994 RN<sub>25</sub>  
 2059 T-3 = 2000 UK<sub>46</sub>  
 2130 T-3 = 2000 SU<sub>136</sub>  
 2131 T-3 = 2000 RN<sub>81</sub>  
 2138 T-3 = 2000 SS<sub>94</sub>  
 2155 T-3 = 2000 ST<sub>301</sub>  
 2172 T-3 = 2000 RV<sub>13</sub>  
 2231 T-3 = 2000 SF<sub>170</sub>  
 2299 T-3 = 2000 QM<sub>89</sub>  
 2348 T-3 = 1998 SU<sub>78</sub>  
 2410 T-3 = 2000 SV<sub>169</sub>  
 2413 T-3 = 1998 SH<sub>149</sub>  
 2436 T-3 = 2000 SJ<sub>162</sub>  
 2448 T-3 = 2000 SM<sub>155</sub>  
 2449 T-3 = 1993 TE<sub>45</sub>  
 2536 T-3 = 2000 BO<sub>35</sub>  
 3040 T-3 = 2000 QK<sub>66</sub>  
 3047 T-3 = 2000 RG<sub>50</sub>  
 3054 T-3 = 1999 VA<sub>170</sub>  
 3223 T-3 = 2000 SL<sub>266</sub>  
 3250 T-3 = 1999 RG<sub>246</sub> = 2000 RN<sub>38</sub>  
 3264 T-3 = 2000 UC<sub>5</sub>  
 3276 T-3 = 1998 WD<sub>35</sub>  
 3359 T-3 = 2000 SA<sub>195</sub>  
 3361 T-3 = 2000 SW<sub>31</sub>  
 3394 T-3 = 1999 VS<sub>217</sub>  
 3469 T-3 = 2000 TB<sub>14</sub>  
 3496 T-3 = 1998 KH<sub>61</sub>  
 3523 T-3 = 2000 SU<sub>111</sub>  
 3536 T-3 = 2000 HC<sub>38</sub>  
 3727 T-3 = 2000 UW<sub>28</sub>  
 3768 T-3 = 2000 VW<sub>18</sub>  
 3833 T-3 = 2000 SD<sub>35</sub>  
 3992 T-3 = 2000 SZ<sub>63</sub>  
 4036 T-3 = 2000 VG<sub>9</sub>  
 4270 T-3 = 2000 SU<sub>269</sub>  
 4283 T-3 = 1998 HS<sub>141</sub> = 2000 SK<sub>260</sub>  
 4292 T-3 = 2000 UT<sub>75</sub>  
 4320 T-3 = 2000 SR<sub>253</sub>  
 4322 T-3 = 1996 XU<sub>11</sub> = 2000 VF<sub>22</sub>  
 4324 T-3 = 2000 SV<sub>88</sub>  
 4325 T-3 = 2000 RW<sub>94</sub>  
 4347 T-3 = 2000 SC<sub>105</sub>  
 5098 T-3 = 2000 NB<sub>10</sub>

5101 T-3 = 2000 SO<sub>237</sub>  
 5179 T-3 = 1998 HN<sub>153</sub> = 2000 TS<sub>43</sub>  
 5183 T-3 = 2000 SW<sub>226</sub>  
 5185 T-3 = 2000 SC<sub>234</sub>

## NEW NAMES OF MINOR PLANETS

### (4887) Takihiroi = 1981 EV<sub>26</sub>

Discovered 1981 Mar. 2 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

A researcher in the department of geological sciences at Brown University, Takahiro (Taki) Hiroi (b. 1960) has worked extensively on linking minor planets and meteorites using reflectance spectroscopy. His extensive database of meteorite spectra is widely used by the scientific community to pursue this endeavor.

### (5038) Overbeek = 1948 KF

Discovered 1948 May 31 by E. L. Johnson at Johannesburg.

Michiel Daniel Overbeek (b. 1920) is a prolific South African observer of variable stars and occultations. A past president of the Astronomical Society of Southern Africa and director of its occultation section, he is actively involved in fostering amateur astronomers in Southern Africa.

### (5800) Pollock = 1982 UV<sub>1</sub>

Discovered 1982 Oct. 16 by A. Mrkos at Kleť.

Jackson Pollock (1912–1956), American painter, was a leader of the Abstract Expressionist movement. The name was suggested by J. Tichá.

### (5801) Vasarely = 1984 BK

Discovered 1984 Jan. 26 by A. Mrkos at Kleť.

Victor Vasarely (1908–1997), painter, sculptor, and graphic artist of Hungarian birth, is considered the founder of the Op Art movement. The name was suggested by J. Tichá.

### (5998) Sitenský = 1986 RK<sub>1</sub>

Discovered 1986 Sept. 2 by A. Mrkos at Kleť.

Ladislav Sitenský (b. 1919) is a Czech landscape photographer, well-known also for his photography from World War II, when he was a technician for the Czech wing of the Royal Air Force. The name was suggested by M. Tichý.

### (6092) Johnmason = 1990 MN

Discovered 1990 June 27 by E. F. Helin at Palomar Observatory.

John W. Mason (b. 1954) has contributed to research on comets and meteors and to the popularization of astronomy. He was president of the British Astronomical Association during 1993–1995.

### (6149) Pelčák = 1979 SS

Discovered 1979 Sept. 25 by A. Mrkos at Kleť.

Oldřich Pelčák (b. 1943) has been a Czechoslovak astronaut-candidate, a member of a team of Czechoslovak astronauts with Vladimír Remek. The name was suggested by M. Tichý.

### (7532) Pelhřimov = 1995 UR<sub>1</sub>

Discovered 1995 Oct. 22 by M. Tichý at Kleť.

Pelhřimov is the south Bohemian town, founded in the thirteenth century, where the discoverer attended high school.

### (7573) Basfifty = 1989 VX

Discovered 1989 Nov. 4 by B. G. W. Manning at Stakenbridge.

England's Birmingham Astronomical Society is currently celebrating its fiftieth anniversary. The Society was established in 1950, largely as a result of the University of Birmingham's extramural classes on astronomy.

### (7791) Ebicykl = 1995 EB

Discovered 1995 Mar. 1 by M. Tichý at Kleť.

Ebicykl is a traditional holiday activity, since 1984, of a group of astronomers, who hike around the Czech and Slovak Republics to visit various observatories. Ebicykl is a symbolic word combining bicycling and Ptolemaic epicycles.

### (8575) Seishitakeuchi = 1996 VL<sub>8</sub>

Discovered 1996 Nov. 7 by K. Endate and K. Watanabe at Kitami.

Seishi Takeuchi (b. 1961) is an amateur astronomer and a painter. He has served as a volunteer artist for the planetarium of Hiroshima Children's Museum for 20 years and has contributed to more than 70 planetarium shows.

### (8787) Ignatenko = 1978 TL<sub>4</sub>

Discovered 1978 Oct. 4 by T. M. Smirnova at the Crimean Astrophysical Observatory.

Vitalij Nikitich Ignatenko (b. 1941), Russian journalist and film script-writer, is the general director of the largest Russian news agency, ITAR-TASS. From 1986 to 1990 he was editor-in-chief of the popular international magazine *New Times*. The name was suggested by V. Fortov.

### (8860) Rohloff = 1991 TE<sub>5</sub>

Discovered 1991 Oct. 5 by L. D. Schmadel and F. Börngen at Tautenburg.

Ralf-Rainer Rohloff (b. 1960) is a design engineer on the staff of the Max-Planck-Institut für Astronomie, Heidelberg. Head of the construction team, he played an important role in the development of adaptive optics devices for the MPIA and UKIRT telescopes. The name was suggested by the first discoverer.

### (9063) Washi = 1992 YS

Discovered 1992 Dec. 17 by T. Seki at Geisei.

Shinsyo Washi (b. 1951) is the director of the Sakai City Planetarium. He founded the Muroh Observatory in 1978 and is executive secretary of the Hoshi no Hiroba Comet Observer Association. The name was suggested by H. Kikuoka.

### (9305) Hazard = 1986 TR<sub>1</sub>

Discovered 1986 Oct. 7 by E. Bowell at the Anderson Mesa of the Lowell Observatory.

British radio astronomer Cyril Hazard (b. 1928) held positions in the U.K., U.S. and Australia. His work includes the first detection of radio waves from an extragalactic source, the use of lunar occultations for source position determination and the first detection of quasars having  $z > 3$ .

### (9420) Dewar = 1995 XP<sub>4</sub>

Discovered 1995 Dec. 14 by Spacewatch at Kitt Peak.

James Dewar (1842–1923), Scottish-born chemist and physicist, studied chemical reactions at low (cryogenic) temperature and in 1872 invented the double-walled vacuum-insulated flask with cryopumping getter that is used today by astronomers to refrigerate electronic detectors.

**(9423) Abt = 1996 AT<sub>7</sub>**

Discovered 1996 Jan. 12 by Spacewatch at Kitt Peak.

Helmut Abt (b.1925) is one of the founders of Kitt Peak National Observatory and is known for his fundamental studies of stellar characteristics, multiple stars and publication practices. As editor-in-chief, Abt shepherded the *Astrophysical Journal* into the current electronic age.

**(9438) Satie = 1997 EE<sub>16</sub>**

Discovered 1997 Mar. 5 by Spacewatch at Kitt Peak.

Erik Satie (1866–1925), French composer and pianist, is best known for his solo piano pieces, including the Gymnopédies, Gnossiennes, and Nocturnes. The tendency toward extreme simplicity in his music influenced his contemporaries Debussy, Poulenc and Ravel, and later in America, John Cage.

**(9448) Donaldavies = 1997 LJ<sub>3</sub>**

Discovered 1997 June 5 by Spacewatch at Kitt Peak.

Donald W. Davies (1925–2000), a British expert in computer security, suggested in 1965 a robust multipath network between computers to divide data into small labeled packets and transmit them, on different paths if necessary, for reassembly at their destination. This is the basis for TCP-IP protocol in Internet communications.

**(9499) Excalibur = 1269 T-2**

Discovered 1973 Sept. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Excalibur was the name of the sword of King Arthur.

**(9500) Camelot = 1281 T-2**

Discovered 1973 Sept. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Camelot was the location of the castle of the King Arthur legend.

**(9501) Ywain = 2071 T-2**

Discovered 1973 Sept. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Ywain was a knight of the Round Table of King Arthur.

**(9502) Gaimar = 2075 T-2**

Discovered 1973 Sept. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Gaimar was a knight of the Round Table and lover of Morgane, sister of King Arthur.

**(9503) Agrawain = 2180 T-2**

Discovered 1973 Sept. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Agrawain, brother of Gawain, was a knight of the Round Table.

**(9504) Lionel = 2224 T-2**

Discovered 1973 Sept. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Lionel was one of the knights of the Round Table.

**(9505) Lohengrin = 4131 T-2**

Discovered 1973 Sept. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Lohengrin, the knight of the Holy Grail, was the title character of an opera by Wagner.

**(9506) Telramund = 5200 T-2**

Discovered 1973 Sept. 25 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Count Telramund, husband of Ortrud, is a character in Wagner's opera *Lohengrin*. He wished to reign over Brabant.

**(9507) Gottfried = 5447 T-2**

Discovered 1973 Sept. 30 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Gottfried of Brabant, brother of Elsa, was changed into a swan by Ortrud, wife of Telramund. After Ortrud's death he again became a human being, as Lohengrin had to leave Elsa.

**(9508) Titurel = 3395 T-3**

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Titurel was father of Amfortas and former king of Monsalvat in Wagner's opera *Parsifal*.

**(9509) Amfortas = 3453 T-3**

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Amfortas was the king of Monsalvat and of the knights of the Holy Grail in Wagner's opera *Parsifal*.

**(9510) Gurnemanz = 5022 T-3**

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Gurnemanz was an elderly knight of the Holy Grail in Wagner's opera *Parsifal*.

**(9511) Klingsor = 5051 T-3**

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

The sorcerer Klingsor appeared in the opera *Parsifal*.

**(9548) Fortran = 1985 CN**

Discovered 1985 Feb. 13 by Spacewatch at Kitt Peak.

FORmula TRANslator, the first widely distributed symbolic programming language for digital computers, was developed at IBM in New York by John Backus and co-workers from 1953 to 1957. It made computers more accessible to scientists and engineers by freeing them of burdensome programming in assembly language.

**(9651) Arii-SooHoo = 1996 AJ**

Discovered 1996 Jan. 7 by AMOS at Haleakala.

Computer mathematician Vicki Arii-SooHoo (b.1962) became team leader at AMOS in 1997 and is directly responsible for the successes of the AMOS program. With untiring support from her family, she has dedicated long hours and sleepless nights to ensure that the AMOS team is productive, efficient and motivated.

**(9676) Eijkman = 2023 P-L**

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Christiaan Eijkman (1858–1930) won the Nobel Prize in physiology or medicine for his discovery of the antineuritic vitamin, now known as B<sub>1</sub> or thiamine. Investigating the disease beriberi in Java, his observations of dietary deficiency led to the discovery of vitamins. He shared the 1929 Nobel Prize with Gowland Hopkins.

**(9677) Gowlandhopkins = 2532 P-L**

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Frederick Gowland Hopkins (1861–1947) received the Nobel Prize in physiology or medicine for his discovery of the growth-stimulating vitamins. He is also widely acknowledged as one of the founders of modern biochemistry. Gowland Hopkins shared the 1929 Nobel Prize with Christiaan Eijkman.

**(9678) van der Meer = 2584 P-L**

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Working together with his colleague C. Rubbia, Dutch physicist Simon van der Meer (b.1925) received the 1984 Nobel Prize in physics for their decisive contributions to the large project that led to the discovery of the field particles W and Z, communicators of weak interaction. The name was suggested by W. A. Fröger.

**(9679) Crutzen = 2600 P-L**

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Paul Crutzen (b.1933) was a co-recipient of the 1995 Nobel Prize in chemistry for work in atmospheric chemistry, particularly concerning the formation and decomposition of ozone. The name was suggested by W. A. Fröger.

**(9680) Molina = 3557 P-L**

Discovered 1960 Oct. 22 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Mario J. Molina (b.1943) was a co-recipient of the 1995 Nobel Prize in chemistry, awarded for work in atmospheric chemistry.

**(9681) Sherwoodrowland = 4069 P-L**

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Frank Sherwood Rowland (b.1927) was a co-recipient of the 1995 Nobel Prize in chemistry, awarded for work in atmospheric chemistry.

**(9690) Houtgast = 6039 P-L**

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Dutch solar physicist Jacob Houtgast (1908–1982) was associate professor at University of Utrecht, known for his much-quoted 1942 paper on noncoherent scattering of light in Fraunhofer lines. Famous as a scientific eclipse observer, he chaired the IAU's subcommittee for solar eclipses.

**(9691) Zwaan = 6053 P-L**

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Cornelis Zwaan (1928–1999), professor of astrophysics at Utrecht University, was a recognized authority on solar and stellar magnetism. Just before his death he finished a book (with C. J. Schrijver) on stellar magnetic fields. The name was suggested by C. de Jager.

**(9692) Kuperus = 6354 P-L**

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Max Kuperus (b.1936), professor of astrophysics at Utrecht University, and a department chairman at the Royal Netherlands Academy of Arts and Sciences,

specialized in theoretical magnetohydrodynamics and plasma physics. He wrote one of the first papers on the heating of the solar corona.

**(9693) Bleeker = 6547 P-L**

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Johan Bleeker (b.1942), director of the Dutch Space Research Organization and professor of space physics at Utrecht University, wrote many papers on x-ray astrophysics. The codiscoverer of the diffuse x-ray background of the sky, he was also the first author of discovery papers on the primary electrons in cosmic rays.

**(9695) Johnheise = 6583 P-L**

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

John Heise (b.1942), professor of general physics at Utrecht University, specialized in high-energy space physics. In 1975 he discovered and detected sources of galactic x-ray bursts (1975). He was among the discoverers in 1998 of the origin of the cosmic  $\gamma$ -ray bursts. The name was suggested by C. de Jager.

**(9696) Jaffe = 6628 P-L**

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Walter J. Jaffe (b.1947) is an American astronomer at Leiden Observatory with an interest in galaxies, their dynamics, internal and external (clusters) and gas processes therein. He also contributed to the software for the Hubble telescope.

**(9697) Louwman = 1295 T-1**

Discovered 1971 Mar. 25 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Peter J. K. Louwman (b.1935), a well-known popularizer of astronomy, was secretary for many years of the working group Moon and Planets of the Dutch Society for Astronomy and Meteorology. He is an expert on the history of telescope building.

**(9698) Idzerda = 2205 T-1**

Discovered 1971 Mar. 25 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Hanso Henricus Schotanus Steringa Idzerda (1885–1944) invented the vacuum triode for amplifying audio and radio signals. In November 1919 he started the first radio broadcasting station in the world from The Hague.

**(9699) Baumhauer = 3036 T-1**

Discovered 1971 Mar. 26 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Albert Gillis von Baumhauer (1891–1939) invented the tail rotor for helicopters and built the first Dutch helicopter, which took off on 1925 Dec. 17. He was strongly involved in pioneering gliding in the Netherlands and was killed in the Boeing Stratoliner crash in 1939.

**(9700) Paech = 3058 T-1**

Discovered 1971 Mar. 26 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Wolfgang Paech (b.1951) is an electronic engineer on the staff of the Institute of Geodesy at the University of Hannover, where he serves as technical manager of the astronomical station. An enthusiastic amateur astronomer, Paech is a keen observer of solar phenomena and eclipses. The name was suggested by L. D. Schmadel.

**(9701) Mak = 1157 T-2**

Discovered 1973 Sept. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Arie Mak (b. 1914) is one of the best-known Dutch amateur astronomers, active in lunar occultations and solar observations. He developed scientific instrumentation for and joined in the eclipse expeditions of 1959 and 1966. He received the Van der Bilt Prize in 1951.

**(9702) Tomvandijk = 2108 T-2**

Discovered 1973 Sept. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Thomas van Dijk (b. 1915), versatile Dutch amateur astronomer, specialized in spectroscopic, nuclear and photographic techniques. He wrote 45 papers, including one in *Nature* on lunar luminescence and one on radioactivity of a meteorite in the 1953 Liège Colloquium proceedings.

**(9703) Sussenbach = 3146 T-2**

Discovered 1973 Sept. 30 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

John Sussenbach (b. 1938) is a Dutch amateur astronomer known for his excellent sky photographs. He founded the Dutch Working Group for Sky Photography and received the Van der Bilt Prize. The name was suggested by C. de Jager.

**(9704) Georgebeekman = 5469 T-2**

Discovered 1973 Sept. 30 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

George W. E. Beekman (b. 1944) is one of the Netherlands' best science writers in the field of astronomy, known for his weekly contributions in the daily paper *NRC-Handelsblad*. He has been editor-in-chief of the journal *Zenit* and is still a member of the editorial board of that monthly. The name was suggested by C. de Jager.

**(9705) Drummen = 3137 T-3**

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Since 1975, Mat Drummen (b. 1945) has been director of “de Koepel”, the Dutch center for dissemination of information on astronomy, space science and meteorology. He is author of the annual *Sterrengids* and coeditor of the Dutch popular journal *Zenit*. The name was suggested by C. de Jager.

**(9706) Bouma = 3176 T-3**

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Reinder J. Bouma (b. 1949) is one of the best known Dutch amateur astronomers. He is very active in the observation of comets, variable stars and occultations by minor planets. The name was suggested by C. de Jager.

**(9766) Bradbury = 1992 DZ<sub>2</sub>**

Discovered 1992 Feb. 24 by Spacewatch at Kitt Peak.

Ray Douglas Bradbury (b. 1920) is the critically acclaimed science fiction author whose works include *The Martian Chronicles* and *The Illustrated Man*. He has worked in television and as “Imagineer” of Disney’s Spaceship Earth at the Epcot center in Florida. His work has inspired many young scientists and engineers.

**(9793) Torvalds = 1996 BW<sub>4</sub>**

Discovered 1996 Jan. 16 by Spacewatch at Kitt Peak.

Finnish computer scientist Linus Torvalds (b. 1969) created the Linux computer operating system used by Spacewatch and several other asteroid surveys for their data collection and analysis. The development of Linux involved a large Internet collaboration and demonstrates the possibilities of the free exchange of information.

**(9815) Mariakirch = 2079 P-L**

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Maria Margarethe Kirch, née Winkelmann (1670–1720), wife and mother of astronomers, was an astronomer in her own right, observing, computing and publishing calendars, working in Berlin and Danzig. Although the comet of April 1702 was first credited to her husband, she was later acknowledged as the discoverer.

**(9821) Gitakresáková = 4033 T-1**

Discovered 1971 Mar. 26 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Margita Kresáková (b. 1927) worked at the Astronomical Institute, Slovak Academy of Sciences, Bratislava. She was a very experienced meteor observer and comet hunter at Skalnaté Pleso Observatory. One comet carries her maiden name, Vozárová.

**(9822) Hajduková = 4114 T-1**

Discovered 1971 Mar. 26 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Mária Hajduková (b. 1934), currently at the Astronomical Institute Comenius University, Bratislava (Modra Observatory), has been active in interplanetary matter research, mainly meteors—multicolor photometry and radiation (dependence of the color index on velocity). She educated a whole generation of astronomers in Slovakia.

**(9823) Annatalová = 4271 T-1**

Discovered 1971 Mar. 26 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Anna Antalová (b. 1936) has worked at the Astronomical Institute, Slovak Academy of Sciences, Tatranská Lomnica, since 1958. She made various analyses of solar phenomena and significant contributions to the study of solar flares as well as solar cycle characteristics. The name was suggested by D. Chochol.

**(9824) Marylea = 3033 T-2**

Discovered 1973 Sept. 30 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Mary Lea Shane, née Heger (1897–1983), wife of Lick Observatory director C. Donald Shane, was an astronomer in her own right. She identified the interstellar Na I absorption lines and discovered the first of the mysterious diffuse interstellar bands. She also established the Lick Observatory Archives.

**(9825) Oetken = 1214 T-3**

Discovered 1977 Oct. 17 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Lore Oetken (b. 1929) has made significant contributions to the fields of magnetic stars, polarimetry and spectroscopy, a prominent part of the astronomical research at the Potsdam Observatory. The citation was prepared by A. Schnell.

**(9826) Ehrenfreund = 2114 T-3**

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

As both a biochemist and an astronomer, Pascale Ehrenfreund (b.1960), currently at the Leiden Observatory, qualified as an expert on several space missions investigating dust and organic molecules in space. As an APART fellow of the Austrian Academy of Sciences, she encouraged international cooperation.

**(9882) Stallman = 1994 SS<sub>9</sub>**

Discovered 1994 Sept. 28 by Spacewatch at Kitt Peak.

Richard Stallman (b.1953) is the founder of the GNU project and an advocate and developer of free software. He created the GNU system of tools, which made possible the GNU/Linux operating system. This operating system is used by several minor-planet surveys for data collection and analysis.

**(9885) Linux = 1994 TM<sub>14</sub>**

Discovered 1994 Oct. 12 by Spacewatch at Kitt Peak.

The Linux operating system was created by Linus Torvalds in 1991. The source code for Linux was placed on the Internet. A massive public collaboration resulted in a robust, feature-rich operating system that has been used by several minor-planet surveys for data collection and analysis.

**(9965) GNU = 1992 EF<sub>2</sub>**

Discovered 1992 Mar. 5 by Spacewatch at Kitt Peak.

GNU is the recursive acronym for “GNU is not Unix”. The GNU project was created by Richard Stallman’s Free Software Foundation in 1984. It enabled computer programmers to trade and improve on each others’ ideas freely. Linux and academic computing owe much of their functionality to the firm foundations of GNU software.

**(9994) Grotius = 4028 P-L**

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

The works *Mare Liberum* (1609; “Free Access to the Ocean for all nations”) and *De Jure Belli ac Pacis* (1625; “On the Law of War and Peace”) of the Dutch statesman Hugo Grotius (Huig de Groot, 1583–1645) laid the foundation for modern international law.

**(9995) Alouette = 4805 P-L**

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

The first Canadian satellite Alouette-1 was launched on 1962 Sept. 29. It was engaged in research and exploration of the upper atmosphere, especially the ionosphere. During its six-year lifespan it returned the first useful data on the ionosphere. The citation was prepared by W. Fröger.

**(9996) ANS = 9070 P-L**

Discovered 1960 Oct. 17 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

The Astronomical Netherlands Satellite (ANS) was launched on 1974 Aug. 30 as the first Dutch satellite. Designed as an astronomical observatory, for 20 months it observed celestial objects at ultraviolet and x-ray wavelengths. ANS discovered the x-ray bursts and detected x-rays from Capella.

**(9997) COBE = 1217 T-1**

Discovered 1971 Mar. 25 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

The American Cosmic Background Explorer COBE was launched 1989 Nov. 18 and helped to answer basic questions on the distribution of matter in the universe,

on the first appearance of galaxies and on rotation of the universe. It also mapped interstellar and interplanetary dust clouds.

**(9998) ISO = 1293 T-1**

Discovered 1971 Mar. 25 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

ISO, the Infrared Space Observatory, was launched on 1995 Nov. 17 to study the universe over a broad range of wavelengths. Among its many discoveries are water vapor on Saturn’s moon Titan, infrared galaxies at immense distances, young stars in the Orion Association and the nature of the surface of major and minor planets.

**(10051) Albee = 1987 QG<sub>6</sub>**

Discovered 1987 Aug. 23 by E. F. Helin at Palomar.

Arden L. Albee (b.1928), Caltech professor of geology and planetary sciences, was dean of graduate studies for the last sixteen years. Albee has served in many capacities, including chief scientist of JPL, project scientist for the Mars Observer mission, and he has been a principal figure in many Mars-related science missions.

**(10099) Glazebrook = 1991 VB<sub>9</sub>**

Discovered 1991 Nov. 4 by Spacewatch at Kitt Peak.

An astronomer at Johns Hopkins University, Karl Glazebrook (b.1965) is a specialist on the properties and evolution of faint high-redshift galaxies and large redshift surveys of nearby galaxies. His public domain astronomical software greatly aided the Spacewatch survey during its 1997 upgrades.

**(10172) Humphreys = 1995 FW<sub>19</sub>**

Discovered 1995 Mar. 31 by Spacewatch at Kitt Peak.

Minnesota astronomer Roberta M. Humphreys (b.1944) is a leader in studies of physical properties of massive stars in the Milky Way and in nearby galaxies. She headed the Automated Plate Scanner Project to digitize the Palomar Sky Survey and make a publicly available database of a billion stars and several million galaxies.

**(10193) Nishimoto = 1996 PR<sub>1</sub>**

Discovered 1996 Aug. 8 by AMOS at Haleakala.

Physicist Daron L. Nishimoto (b.1966) has worked at AMOS since 1988. The good-natured support of his family has allowed him to spend long hours in support of AMOS programs. In particular, he is the driving force behind the highly successful Raven autonomous telescope program.

**(11337) Sandro = 1996 PG<sub>1</sub>**

Discovered 1996 Aug. 10 by M. Tombelli and G. Forti at Montelupo.

Sandro Bartolini (b.1974) is the elder son of the first discoverer.

**(11450) Shearer = 1979 QJ<sub>1</sub>**

Discovered 1979 Aug. 22 by C.-I. Lagerkvist at the European Southern Observatory.

Andrew Shearer (b.1953), of the National University of Ireland, Galway, leads the group working in the field of high-time-resolution astrophysics and image processing. He was responsible for the measurements of the pulsed optical emission from PSR 0656–14 and Geminga.

**(11451) Aarongolden = 1979 QR<sub>1</sub>**

Discovered 1979 Aug. 22 by C.-I. Lagerkvist at the European Southern Observatory.

Aaron Golden (b. 1969), of the National University of Ireland, Galway, works in the field of high-time resolution astrophysics and image processing. He participated in the discovery of optical pulsations from two pulsars.

**(11621) Duccio = 1996 PJ<sub>5</sub>**

Discovered 1996 Aug. 15 by M. Tombelli and G. Forti at Montelupo.

Duccio Bartolini (b. 1976) is the younger son of the first discoverer.

**(11911) Angel = 1992 LF**

Discovered 1992 June 4 by C. S. Shoemaker and D. H. Levy at Palomar.

Founder and director of Steward Observatory's mirror lab at the University of Arizona, Tucson, Roger Angel (b. 1941) has spearheaded the development of telescope mirrors as large as eight meters in diameter by a process called spin-casting. His work and ideas have resulted in an enormous increase in telescope light-gathering power.

**(11941) Archinal = 1993 KT<sub>1</sub>**

Discovered 1993 May 23 by C. S. Shoemaker and D. H. Levy at Palomar.

An active amateur astronomer, Brent Archinal (b. 1956) specializes in correcting catalog data for stellar groupings and nonstellar objects. He also has finished the most complete catalog yet assembled of open and globular clusters. Today he works for the U.S. Geological Survey in Flagstaff, Arizona.

**(12035) Ruggieri = 1997 CP<sub>13</sub>**

Discovered 1997 Feb. 1 by V. Goretti at Pianoro.

Guido Ruggieri (1913–1976), talented Italian amateur astronomer, was well known for his work on visual observations of Mars and Jupiter. He also played an important role in the dissemination of astronomical information.

**(12790) Cernan = 1995 UT<sub>2</sub>**

Discovered 1995 Oct. 24 at Kleť.

Eugene Andrew Cernan (b. 1934), U.S. astronaut, was commander of the Apollo 17 mission, which concluded the Apollo Lunar program in 1972.

**(12801) Somekawa = 1995 XD**

Discovered 1995 Dec. 2 by T. Kobayashi at Oizumi.

Somekawa Shuichi (1962–1997) was a Japanese amateur astronomer and optical engineer. The name was suggested by M. Namiki.

**(13057) Jorgensen = 1990 VF<sub>8</sub>**

Discovered 1990 Nov. 13 by C. S. Shoemaker and D. H. Levy at Palomar.

Carl Jorgensen (b. 1948) is a well-known amateur astronomer from Montreal. In the 1960s he chaired the Double Star Section of the Montreal Center of the Royal Astronomical Society of Canada, and was editor of the Center's newsletter, *Skyward*. Jorgensen has worked at McGill University for many years.

**(13111) Papacosmas = 1993 OW<sub>1</sub>**

Discovered 1993 July 23 by C. S. Shoemaker and D. H. Levy at Palomar.

Constantine Papacosmas (b. 1939) an accomplished amateur astronomer in Montreal has guided thousands of people to learn the night sky. The telescopes he has constructed are among the finest in Canada, including a refractor that won an award at Stellafane in 1979.

**(13123) Tyson = 1994 KA**

Discovered 1994 May 16 by C. S. Shoemaker and D. H. Levy at Palomar.

Neil deGrasse Tyson (b. 1958) is the youngest-ever director of New York's Hayden Planetarium. He spearheaded the complete redesign of the planetarium that reopened in 2000. He also teaches astronomy at Princeton University.

**(13615) Manulis = 1994 WP<sub>13</sub>**

Discovered 1994 Nov. 28 by C. S. Shoemaker and D. H. Levy at Palomar.

Ilan Manulis (b. 1949) has enthusiastically promoted the study of near-earth objects from Israel and built awareness among the public by lectures and media programs. During the 1980s, he was chairman of the Israeli Astronomical Association. He now serves as IAA's head of small solar-system objects.

**(13777) Cielobuio = 1998 UV<sub>6</sub>**

Discovered 1998 Oct. 20 by M. Cavagna and A. Testa at Sormano.

Cielobuio is the Italian association against light pollution. Cielobuio played a fundamental role in Lombardy to support the passage of a regional law, one of the most advanced in the world. Through its electronic mailing list, Cielobuio connects both amateur and professional astronomers.

**(14429) Coyne = 1991 XC**

Discovered 1991 Dec. 3 by C. S. Shoemaker and D. H. Levy at Palomar.

George Coyne (b. 1933), S.J., has been an astronomer at the Vatican Observatory since 1969 and its director since 1978. He has helped with the completion of the large Vatican telescope on Mt. Graham, Arizona. His polarimetric studies have centered on cataclysmic variables, among other subjects.

**(14973) Rossirosina = 1997 RZ**

Discovered 1997 Sept. 1 by A. Boattini at San Marcello Pistoiese.

Rosina Rossi Boattini (b. 1934) is the mother of the discoverer.

**(14974) Počátky = 1997 SK<sub>1</sub>**

Discovered 1997 Sept. 22 by M. Tichý at Kleť.

Počátky is the south Bohemian town where the discoverer was born.

**(14995) Archytas = 1997 VY<sub>1</sub>**

Discovered 1997 Nov. 5 by P. G. Comba at Prescott.

Archytas (ca. 428–365 B.C.) was a philosopher and mathematician of the Pythagorean school. He is believed to have established the quadrivium (arithmetic, geometry, music, astronomy), which together with the trivium (grammar, rhetoric, dialectics) was the foundation of classical education.

**(15000) CCD = 1997 WZ<sub>16</sub>**

Discovered 1997 Nov. 23 by Spacewatch at Kitt Peak.

A charge-coupled device, a two-dimensional array of light-sensitive microelectronic semiconductor capacitors, is used as an imaging detector. With its high sensitivity and stability, the CCD has almost completely replaced the photographic emulsion and photomultiplier as the detector of choice in quantitative scientific work.

**(15294) Underwood = 1991 VD<sub>5</sub>**

Discovered 1991 Nov. 7 by C. S. Shoemaker and D. H. Levy at Palomar.

Building plans examiner Lynn Underwood (b. 1949) of Vail, Arizona, has completed successful and innovative designs of two major extensions to the Jarnac Observatory, thus enabling it to redouble its observations and join in an expanded public observing program with Dean Koenig and "Starizona".

**(15321) Donnadean = 1993 PE<sub>8</sub>**

Discovered 1993 Aug. 13 by C. S. Shoemaker and D. H. Levy at Palomar.

With his wife Donna, Dean Koenig (b. 1956) has devoted years to inspiring people to become interested in the night sky. Through observing sessions and other facilities of his store "Starizona", located in Tucson, Arizona, Koenig has a fine record of restoring and repairing telescopes.

**(15374) Teta = 1997 BG**

Discovered 1997 Jan. 16 by M. Tichý and Z. Moravec at Kleř.

The second daughter of prince Krok, known from old Bohemian myths, Teta served as a fortune-teller and heathen priestess.

**(15378) Artin = 1997 PJ<sub>2</sub>**

Discovered 1997 Aug. 7 by P. G. Comba at Prescott.

Emil Artin (1898–1962) was an Austrian-German mathematician who lived for some years in the United States and made important contributions to abstract algebra, including the theories of rings and of braids.

**(15620) Beltrami = 2000 HQ<sub>14</sub>**

Discovered 2000 Apr. 29 by P. G. Comba at Prescott.

Eugenio Beltrami (1835–1900) was an Italian mathematician who held professorships at Pisa, Pavia and Rome. He contributed to the differential geometry of curves and surfaces, particularly the pseudosphere of constant negative curvature as a model of Lobachevskian geometry.

**(15779) Scottroberts = 1993 OA<sub>3</sub>**

Discovered 1993 July 26 by C. S. Shoemaker and D. H. Levy at Palomar.

Scott Roberts (b. 1959) for many years has encouraged amateur astronomers to pursue their love of the night sky, spending much time teaching people how to use and enjoy their telescopes.

**(15896) Birkhoff = 1997 LX<sub>5</sub>**

Discovered 1997 June 13 by P. G. Comba at Prescott.

George David Birkhoff (1884–1944) was one of the foremost American mathematicians of the early twentieth century. He made important contributions to ergodic theory, the topological theory of dynamical systems, ordinary differential equations and difference equations.

**(15938) Bohnenblust = 1997 YA<sub>8</sub>**

Discovered 1997 Dec. 27 by P. G. Comba at Prescott.

H. Frederic Bohnenblust (1906–2000) was a Swiss-American mathematician who held professorships at Princeton and later at Caltech, where he became dean of graduate studies. A great teacher and a strong advocate of mathematical education, he was the discoverer's thesis adviser.

**(16065) Borel = 1999 RE<sub>35</sub>**

Discovered 1999 Sept. 11 by P. G. Comba at Prescott.

Émile Borel (1871–1956) was a prolific French mathematician who for a time was also minister of the navy. His main contributions were in set theory, function theory and measure theory.

**(16083) Jorvik = 1999 TH<sub>12</sub>**

Discovered 1999 Oct. 12 by J. Tichá and M. Tichý at Kleř.

Jorvik was the name of the ninth-century Viking settlement that preceded the modern York in northeastern England. The discoverers visited York, including archaeological remnants of Jorvik, during the IAU General Assembly in 2000.

**(16154) Dabramo = 2000 AW<sub>2</sub>**

Discovered 2000 Jan. 1 by A. Boattini and M. Tombelli at San Marcello Pistoiese.

At the University of Pisa, Germano D'Abramo (b. 1973) studied the statistics of mutual collisions. Since November 1998 he has collaborated with the Spaceguard

Foundation in maintaining the Spaceguard Central Node and working on modeling the near-earth-object population.

**(16246) Cantor = 2000 HO<sub>3</sub>**

Discovered 2000 Apr. 27 by P. G. Comba at Prescott.

Georg Cantor (1845–1918) was a German mathematician and professor at Halle. In a series of papers beginning in 1870 he developed the theory of infinite sets and was the first to recognize and prove that there are different degrees of infinity.

**(16249) Cauchy = 2000 HT<sub>14</sub>**

Discovered 2000 Apr. 29 by P. G. Comba at Prescott.

Augustin-Louis Cauchy (1789–1857) was a French mathematician who made fundamental contributions to the theory of functions of complex variables, the study of determinants and the mathematical theory of elasticity. He introduced a higher level of rigor in mathematical proofs.

**(16355) Buber = 1975 UA<sub>1</sub>**

Discovered 1975 Oct. 29 by F. Börngen at Tautenburg.

Martin Buber (1878–1965), Austrian-born Jewish philosopher and author, was a teacher of religious science, ethics and social philosophy. From 1938 he taught in Jerusalem, where he stood up for the peaceful coexistence of Arabs and Jews. His Hebrew-German version of the Bible shows a unique diction and exegesis.

**(16441) Kirchner = 1989 EF<sub>6</sub>**

Discovered 1989 Mar. 7 by F. Börngen at Tautenburg.

Ernst Ludwig Kirchner (1880–1938), painter, graphic artist and sculptor, was a master of German expressionism and cofounder of the artist circle "Die Brücke". After 1917, he worked and lived in Switzerland. In 1937, his art was confiscated and classified as "degenerate" in Germany, driving him to suicide.

**(16459) Barth = 1989 WE<sub>4</sub>**

Discovered 1989 Nov. 28 by F. Börngen at Tautenburg.

The Swiss Protestant Reformed theologian Karl Barth (1886–1968), ousted from his post in Germany, was professor in Basel beginning in 1935. In Germany, he is known as the "Vater der Bekennende Kirche". His main works are *The Epistle to the Romans* and *Ecclesiastical Dogmatics*.

**(16505) Sulzer = 1990 TB<sub>13</sub>**

Discovered 1990 Oct. 12 by F. Börngen and L. D. Schmadel at Tautenburg.

Robert Sulzer-Forrer (1873–1953), a socially minded Swiss industrialist at Winterthur, was an outstanding engineer with excellent skills for practical implementation. He was an enthusiastic observer of natural phenomena and a pioneer in fast motion film technology.

**(16514) Stevelia = 1990 VZ<sub>6</sub>**

Discovered 1990 Nov. 11 by C. S. Shoemaker and D. H. Levy at Palomar.

Steve (b. 1949) and Amelia (b. 1940) Goldberg have spent years teaching beginners to observe the night sky. Amelia's *Universe Sampler*, a booklet of simple projects for beginners with small telescopes, is an official project of the Astronomical League. The couple has also helped manage the annual Texas Star Party.

**(16522) Tell = 1991 AJ<sub>3</sub>**

Discovered 1991 Jan. 15 by F. Börngen at Tautenburg.

Wilhelm Tell, legendary hero of the well-known Swiss saga, distinguished himself in the fight for independence of the Inner Swiss against the Habsburg landvogt Gessler in the fourteenth century. Various, this myth was treated in literature, e.g., by Schiller in 1804. It still influences the Swiss national consciousness.

**(16590) Brunowalter = 1992 SM<sub>2</sub>**

Discovered 1992 Sept. 21 by F. Börngen and L. D. Schmadel at Tautenburg.

Berlin-born Bruno Walter (1876–1962; originally B. W. Schlesinger), great German-American conductor, was known particularly for interpretations of Mozart, Bruckner and Mahler. He lived in exile after 1938, endeavoring to preserve a German mind and culture. After World War II he conducted in Europe again.

**(16755) Cayley = 1996 RE<sub>1</sub>**

Discovered 1996 Sept. 9 by P. G. Comba at Prescott.

Arthur Cayley (1821–1895) started out as a practicing lawyer but in 1863 became a professor of mathematics at Cambridge. He published papers on many topics in algebra and geometry and was the founder, together with Sylvester, of the theory of algebraic invariants.

**(17190) Retopezoli = 1999 WY<sub>8</sub>**

Discovered 1999 Nov. 28 by S. Sposetti at Gnosca.

Reto Pezzoli (b. 1959) is the best friend of the discoverer. They have spent lots of unforgettable summer and winter nights observing meteors.

**EPHEMERIDES**

| <b>C/2000 SV<sub>74</sub> (LINEAR)</b> |    |                 |                 |          | Elements <i>MPC</i> 41526 |            |        |       |       |
|----------------------------------------|----|-----------------|-----------------|----------|---------------------------|------------|--------|-------|-------|
| Date                                   | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$                       | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
| 2000 11 02                             |    | 01 19.16        | +05 46.9        | 4.949    | 5.893                     | 160.4      | 3.2    | 16.6  |       |
| 2000 11 12                             |    | 01 11.76        | +06 00.2        | 4.960    | 5.830                     | 148.9      | 5.0    | 16.6  |       |
| 2000 11 22                             |    | 01 05.08        | +06 17.5        | 5.001    | 5.767                     | 137.4      | 6.7    | 16.6  |       |
| 2000 12 02                             |    | 00 59.38        | +06 39.6        | 5.067    | 5.704                     | 126.1      | 8.0    | 16.6  |       |
| 2000 12 12                             |    | 00 54.86        | +07 07.0        | 5.153    | 5.642                     | 115.1      | 9.1    | 16.6  |       |
| 2000 12 22                             |    | 00 51.60        | +07 40.1        | 5.253    | 5.579                     | 104.4      | 9.8    | 16.6  |       |
| 2001 01 01                             |    | 00 49.64        | +08 19.0        | 5.360    | 5.517                     | 94.0       | 10.2   | 16.6  |       |
| 2001 01 11                             |    | 00 48.93        | +09 03.8        | 5.470    | 5.455                     | 84.0       | 10.3   | 16.6  |       |
| 2001 01 21                             |    | 00 49.40        | +09 54.1        | 5.577    | 5.394                     | 74.3       | 10.1   | 16.6  |       |
| 2001 01 31                             |    | 00 50.95        | +10 49.8        | 5.676    | 5.333                     | 64.9       | 9.6    | 16.5  |       |
| 2001 02 10                             |    | 00 53.47        | +11 50.6        | 5.763    | 5.272                     | 55.8       | 8.9    | 16.5  |       |
| 2001 02 20                             |    | 00 56.83        | +12 56.2        | 5.835    | 5.211                     | 47.0       | 8.0    | 16.5  |       |
| 2001 03 02                             |    | 01 00.93        | +14 06.4        | 5.889    | 5.151                     | 38.5       | 6.9    | 16.5  |       |
| 2001 03 12                             |    | 01 05.64        | +15 20.9        | 5.923    | 5.092                     | 30.4       | 5.7    | 16.4  |       |

**147P/Kushida-Muramatsu**

|            |    |                 |                 |          | Elements <i>MPC</i> 41527 |            |        |       |       |
|------------|----|-----------------|-----------------|----------|---------------------------|------------|--------|-------|-------|
| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$                       | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
| 2000 11 02 |    | 02 30.84        | +11 46.7        | 1.923    | 2.915                     | 177.0      | 1.0    | 20.1  | 20.9  |
| 2000 11 12 |    | 02 23.60        | +11 17.3        | 1.925    | 2.898                     | 167.1      | 4.4    | 20.0  | 21.1  |
| 2000 11 22 |    | 02 17.15        | +10 53.6        | 1.954    | 2.882                     | 155.6      | 8.1    | 20.1  | 21.3  |
| 2000 12 02 |    | 02 12.25        | +10 39.2        | 2.008    | 2.867                     | 144.3      | 11.6   | 20.1  | 21.5  |
| 2000 12 12 |    | 02 09.42        | +10 36.5        | 2.084    | 2.853                     | 133.5      | 14.5   | 20.1  | 21.7  |
| 2000 12 22 |    | 02 08.90        | +10 46.4        | 2.178    | 2.839                     | 123.3      | 16.8   | 20.2  | 21.9  |
| 2001 01 01 |    | 02 10.76        | +11 08.6        | 2.285    | 2.827                     | 113.6      | 18.6   | 20.3  | 22.0  |
| 2001 01 11 |    | 02 14.91        | +11 42.1        | 2.401    | 2.815                     | 104.6      | 19.8   | 20.4  | 22.1  |
| 2001 01 21 |    | 02 21.15        | +12 25.0        | 2.523    | 2.804                     | 96.1       | 20.4   | 20.5  | 22.3  |
| 2001 01 31 |    | 02 29.28        | +13 15.5        | 2.648    | 2.794                     | 88.1       | 20.6   | 20.6  | 22.4  |
| 2001 02 10 |    | 02 39.09        | +14 11.8        | 2.773    | 2.786                     | 80.5       | 20.5   | 20.7  | 22.5  |
| 2001 02 20 |    | 02 50.37        | +15 11.8        | 2.895    | 2.778                     | 73.3       | 19.9   | 20.7  | 22.5  |

**P/2000 U6 (Tichý)**

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 11 02 |    | 02 56.60        | +30 36.1        | 1.198    | 2.166 | 163.0      | 7.7    | 17.2  |       |
| 2000 11 12 |    | 02 45.07        | +31 58.1        | 1.205    | 2.175 | 164.7      | 6.9    | 17.3  |       |
| 2000 11 22 |    | 02 34.24        | +32 55.5        | 1.238    | 2.187 | 158.6      | 9.5    | 17.4  |       |
| 2000 12 02 |    | 02 25.77        | +33 32.1        | 1.294    | 2.201 | 149.5      | 13.1   | 17.5  |       |
| 2000 12 12 |    | 02 20.80        | +33 55.3        | 1.372    | 2.218 | 140.0      | 16.6   | 17.6  |       |
| 2000 12 22 |    | 02 19.73        | +34 12.7        | 1.467    | 2.237 | 130.8      | 19.5   | 17.8  |       |
| 2001 01 01 |    | 02 22.52        | +34 29.9        | 1.577    | 2.258 | 122.1      | 21.7   | 18.0  |       |
| 2001 01 11 |    | 02 28.83        | +34 50.3        | 1.698    | 2.282 | 113.9      | 23.2   | 18.2  |       |
| 2001 01 21 |    | 02 38.18        | +35 15.0        | 1.828    | 2.307 | 106.3      | 24.2   | 18.4  |       |
| 2001 01 31 |    | 02 50.13        | +35 43.7        | 1.964    | 2.334 | 99.2       | 24.6   | 18.6  |       |
| 2001 02 10 |    | 03 04.28        | +36 15.4        | 2.105    | 2.363 | 92.5       | 24.7   | 18.9  |       |
| 2001 02 20 |    | 03 20.23        | +36 48.2        | 2.248    | 2.394 | 86.1       | 24.3   | 19.1  |       |
| 2001 03 02 |    | 03 37.72        | +37 20.4        | 2.393    | 2.426 | 80.0       | 23.7   | 19.2  |       |
| 2001 03 12 |    | 03 56.44        | +37 50.2        | 2.537    | 2.459 | 74.2       | 22.9   | 19.4  |       |
| 2001 03 22 |    | 04 16.16        | +38 15.9        | 2.680    | 2.494 | 68.5       | 21.8   | 19.6  |       |
| 2001 04 01 |    | 04 36.68        | +38 36.1        | 2.820    | 2.530 | 63.1       | 20.6   | 19.8  |       |
| 2001 04 11 |    | 04 57.76        | +38 49.7        | 2.957    | 2.567 | 57.8       | 19.3   | 19.9  |       |
| 2001 04 21 |    | 05 19.23        | +38 55.8        | 3.090    | 2.605 | 52.6       | 17.8   | 20.1  |       |
| 2001 05 01 |    | 05 40.91        | +38 53.8        | 3.218    | 2.643 | 47.5       | 16.3   | 20.3  |       |
| 2001 05 11 |    | 06 02.62        | +38 43.4        | 3.339    | 2.683 | 42.5       | 14.7   | 20.4  |       |
| 2001 05 21 |    | 06 24.22        | +38 24.7        | 3.453    | 2.722 | 37.6       | 13.1   | 20.5  |       |
| 2001 05 31 |    | 06 45.58        | +37 57.9        | 3.559    | 2.763 | 32.9       | 11.5   | 20.7  |       |

**C/2000 U5 (LINEAR)**

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 11 02 |    | 05 02.36        | +02 28.2        | 3.258    | 4.072 | 140.4      | 8.9    | 15.7  |       |
| 2000 11 12 |    | 04 49.73        | +03 38.3        | 3.222    | 4.120 | 151.8      | 6.5    | 15.7  |       |
| 2000 11 22 |    | 04 36.07        | +04 56.3        | 3.222    | 4.169 | 161.3      | 4.4    | 15.7  |       |
| 2000 12 02 |    | 04 22.13        | +06 20.6        | 3.263    | 4.219 | 164.1      | 3.7    | 15.8  |       |
| 2000 12 12 |    | 04 08.74        | +07 48.8        | 3.344    | 4.271 | 157.5      | 5.1    | 15.9  |       |
| 2000 12 22 |    | 03 56.58        | +09 18.5        | 3.465    | 4.323 | 146.9      | 7.1    | 16.1  |       |
| 2001 01 01 |    | 03 46.18        | +10 47.6        | 3.621    | 4.376 | 135.4      | 9.1    | 16.2  |       |
| 2001 01 11 |    | 03 37.84        | +12 15.0        | 3.805    | 4.430 | 124.0      | 10.6   | 16.4  |       |
| 2001 01 21 |    | 03 31.61        | +13 39.8        | 4.010    | 4.485 | 112.8      | 11.7   | 16.5  |       |
| 2001 01 31 |    | 03 27.45        | +15 02.0        | 4.230    | 4.540 | 102.1      | 12.2   | 16.7  |       |
| 2001 02 10 |    | 03 25.18        | +16 21.7        | 4.459    | 4.597 | 91.8       | 12.4   | 16.9  |       |
| 2001 02 20 |    | 03 24.59        | +17 39.0        | 4.689    | 4.654 | 81.9       | 12.1   | 17.0  |       |
| 2001 03 02 |    | 03 25.47        | +18 54.2        | 4.917    | 4.712 | 72.3       | 11.6   | 17.2  |       |
| 2001 03 12 |    | 03 27.58        | +20 07.6        | 5.136    | 4.770 | 63.1       | 10.7   | 17.3  |       |
| 2001 03 22 |    | 03 30.73        | +21 19.3        | 5.344    | 4.829 | 54.2       | 9.6    | 17.5  |       |
| 2001 04 01 |    | 03 34.74        | +22 29.5        | 5.536    | 4.888 | 45.5       | 8.4    | 17.6  |       |
| 2001 04 11 |    | 03 39.43        | +23 38.4        | 5.710    | 4.948 | 37.1       | 7.0    | 17.7  |       |

**C/1999 F2 (Dalcanton)**

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 11 22 |    | 17 36.91        | +23 20.1        | 8.342    | 7.752 | 50.5       | 5.6    | 18.5  |       |
| 2000 12 02 |    | 17 43.64        | +23 15.4        | 8.428    | 7.807 | 48.3       | 5.4    | 18.6  |       |
| 2000 12 12 |    | 17 50.50        | +23 18.2        | 8.499    | 7.862 | 47.1       | 5.3    | 18.6  |       |
| 2000 12 22 |    | 17 57.39        | +23 28.6        | 8.556    | 7.917 | 46.9       | 5.2    | 18.6  |       |
| 2001 01 01 |    | 18 04.20        | +23 46.6        | 8.597    | 7.971 | 47.9       | 5.3    | 18.7  |       |
| 2001 01 11 |    | 18 10.85        | +24 12.2        | 8.625    | 8.026 | 49.9       | 5.4    | 18.7  |       |

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M.P.C. 41575

|            |          |          |        |       |       |     |      |
|------------|----------|----------|--------|-------|-------|-----|------|
| 2001 01 21 | 18 17.23 | +24 45.1 | 8.638  | 8.082 | 52.8  | 5.6 | 18.8 |
| 2001 01 31 | 18 23.27 | +25 24.9 | 8.639  | 8.137 | 56.5  | 5.8 | 18.8 |
| 2001 02 10 | 18 28.85 | +26 11.1 | 8.629  | 8.192 | 60.7  | 6.0 | 18.8 |
| 2001 02 20 | 18 33.90 | +27 02.9 | 8.609  | 8.247 | 65.4  | 6.3 | 18.8 |
| 2001 03 02 | 18 38.33 | +27 59.6 | 8.581  | 8.303 | 70.5  | 6.5 | 18.9 |
| 2001 03 12 | 18 42.06 | +29 00.1 | 8.547  | 8.358 | 75.7  | 6.6 | 18.9 |
| 2001 03 22 | 18 45.02 | +30 03.3 | 8.510  | 8.414 | 81.1  | 6.7 | 18.9 |
| 2001 04 01 | 18 47.14 | +31 07.8 | 8.471  | 8.469 | 86.5  | 6.8 | 18.9 |
| 2001 04 11 | 18 48.38 | +32 12.1 | 8.434  | 8.525 | 91.8  | 6.7 | 18.9 |
| 2001 04 21 | 18 48.73 | +33 14.7 | 8.400  | 8.580 | 97.0  | 6.7 | 19.0 |
| 2001 05 01 | 18 48.18 | +34 13.8 | 8.371  | 8.636 | 101.9 | 6.6 | 19.0 |
| 2001 05 11 | 18 46.77 | +35 07.8 | 8.351  | 8.692 | 106.5 | 6.4 | 19.0 |
| 2001 05 21 | 18 44.57 | +35 55.1 | 8.341  | 8.748 | 110.6 | 6.2 | 19.0 |
| 2001 05 31 | 18 41.69 | +36 34.1 | 8.342  | 8.803 | 114.0 | 6.0 | 19.1 |
| 2001 06 10 | 18 38.29 | +37 03.7 | 8.357  | 8.859 | 116.7 | 5.9 | 19.1 |
| 2001 06 20 | 18 34.54 | +37 23.1 | 8.386  | 8.915 | 118.5 | 5.8 | 19.1 |
| 2001 06 30 | 18 30.64 | +37 31.8 | 8.430  | 8.971 | 119.3 | 5.7 | 19.2 |
| 2001 07 10 | 18 26.81 | +37 29.8 | 8.489  | 9.027 | 119.1 | 5.6 | 19.2 |
| 2001 07 20 | 18 23.23 | +37 17.7 | 8.563  | 9.083 | 117.9 | 5.7 | 19.2 |
| 2001 07 30 | 18 20.11 | +36 56.3 | 8.651  | 9.138 | 115.8 | 5.7 | 19.3 |
| 2001 08 09 | 18 17.59 | +36 27.1 | 8.753  | 9.194 | 112.9 | 5.8 | 19.3 |
| 2001 08 19 | 18 15.77 | +35 51.4 | 8.867  | 9.250 | 109.3 | 5.9 | 19.4 |
| 2001 08 29 | 18 14.75 | +35 10.9 | 8.991  | 9.306 | 105.2 | 6.0 | 19.5 |
| 2001 09 08 | 18 14.55 | +34 27.4 | 9.124  | 9.362 | 100.6 | 6.1 | 19.5 |
| 2001 09 18 | 18 15.18 | +33 42.5 | 9.264  | 9.418 | 95.8  | 6.1 | 19.6 |
| 2001 09 28 | 18 16.62 | +32 57.8 | 9.408  | 9.474 | 90.8  | 6.1 | 19.6 |
| 2001 10 08 | 18 18.83 | +32 14.6 | 9.554  | 9.530 | 85.6  | 6.0 | 19.7 |
| 2001 10 18 | 18 21.74 | +31 34.4 | 9.699  | 9.586 | 80.5  | 5.9 | 19.8 |
| 2001 10 28 | 18 25.29 | +30 58.0 | 9.842  | 9.642 | 75.5  | 5.7 | 19.8 |
| 2001 11 07 | 18 29.39 | +30 26.6 | 9.981  | 9.698 | 70.7  | 5.5 | 19.9 |
| 2001 11 17 | 18 33.96 | +30 00.7 | 10.112 | 9.754 | 66.1  | 5.3 | 19.9 |

**C/1997 BA<sub>6</sub> (Spacewatch)**Elements *MPC* 41524

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 11 22 |    | 20 33.01        | -29 00.7        | 5.074    | 4.721 | 63.8       | 10.8   |       | 17.6  |
| 2000 12 02 |    | 20 38.03        | -27 26.1        | 5.274    | 4.780 | 55.2       | 9.7    |       | 17.6  |
| 2000 12 12 |    | 20 43.70        | -25 55.1        | 5.461    | 4.839 | 46.7       | 8.5    |       | 17.7  |
| 2000 12 22 |    | 20 49.84        | -24 27.1        | 5.634    | 4.899 | 38.2       | 7.1    |       | 17.7  |

**C/1998 G1 (LINEAR)**Elements *MPC* 32168

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 11 22 |    | 22 28.82        | -13 13.9        | 6.479    | 6.622 | 94.0       | 8.6    |       | 21.8  |
| 2000 12 02 |    | 22 27.97        | -12 46.4        | 6.716    | 6.684 | 83.9       | 8.4    |       | 21.8  |
| 2000 12 12 |    | 22 28.14        | -12 15.4        | 6.951    | 6.746 | 74.0       | 8.1    |       | 21.9  |
| 2000 12 22 |    | 22 29.18        | -11 41.4        | 7.176    | 6.807 | 64.3       | 7.5    |       | 22.0  |
| 2001 01 01 |    | 22 30.97        | -11 04.8        | 7.389    | 6.868 | 54.7       | 6.7    |       | 22.0  |
| 2001 01 11 |    | 22 33.36        | -10 26.3        | 7.586    | 6.929 | 45.3       | 5.8    |       | 22.1  |
| 2001 01 21 |    | 22 36.24        | -09 46.2        | 7.762    | 6.990 | 36.0       | 4.7    |       | 22.1  |

**88P/Howell**Elements *MPC* 36213

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 11 22 |    | 07 14.49        | +25 44.2        | 3.965    | 4.696 | 133.1      | 8.8    |       | 22.4  |
| 2000 12 02 |    | 07 09.33        | +26 01.1        | 3.875    | 4.711 | 144.4      | 7.0    |       | 22.3  |
| 2000 12 12 |    | 07 02.76        | +26 18.2        | 3.810    | 4.726 | 155.9      | 4.9    |       | 22.2  |

|            |          |          |       |       |       |     |      |
|------------|----------|----------|-------|-------|-------|-----|------|
| 2000 12 22 | 06 55.16 | +26 34.1 | 3.775 | 4.740 | 167.5 | 2.6 | 22.0 |
| 2001 01 01 | 06 47.00 | +26 47.4 | 3.772 | 4.754 | 176.2 | 0.8 | 21.9 |
| 2001 01 11 | 06 38.87 | +26 57.0 | 3.802 | 4.767 | 167.3 | 2.6 | 22.1 |
| 2001 01 21 | 06 31.33 | +27 02.6 | 3.865 | 4.779 | 155.7 | 4.9 | 22.2 |
| 2001 01 31 | 06 24.87 | +27 04.6 | 3.956 | 4.790 | 144.2 | 6.9 | 22.4 |
| 2001 02 10 | 06 19.85 | +27 03.7 | 4.073 | 4.801 | 133.0 | 8.6 | 22.5 |

**C/2000 J1 (Ferris)**Elements *MPC* 40823

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 11 22 |    | 13 36.17        | -29 32.0        | 4.033    | 3.237 | 31.9       | 9.3    |       | 21.7  |
| 2000 12 02 |    | 13 40.16        | -32 13.6        | 3.996    | 3.298 | 39.7       | 11.0   |       | 21.8  |
| 2000 12 12 |    | 13 43.15        | -34 59.6        | 3.943    | 3.361 | 47.8       | 12.5   |       | 21.9  |
| 2000 12 22 |    | 13 44.82        | -37 50.3        | 3.877    | 3.426 | 56.0       | 13.8   |       | 21.9  |
| 2001 01 01 |    | 13 44.72        | -40 45.5        | 3.801    | 3.491 | 64.5       | 14.7   |       | 21.9  |
| 2001 01 11 |    | 13 42.34        | -43 44.0        | 3.719    | 3.558 | 73.0       | 15.3   |       | 22.0  |
| 2001 01 21 |    | 13 37.06        | -46 43.4        | 3.638    | 3.625 | 81.5       | 15.6   |       | 22.0  |
| 2001 01 31 |    | 13 28.13        | -49 39.2        | 3.561    | 3.693 | 89.9       | 15.5   |       | 21.9  |
| 2001 02 10 |    | 13 14.84        | -52 24.5        | 3.494    | 3.763 | 98.1       | 15.0   |       | 21.9  |
| 2001 02 20 |    | 12 56.65        | -54 50.0        | 3.443    | 3.832 | 105.8      | 14.4   |       | 21.9  |
| 2001 03 02 |    | 12 33.58        | -56 44.1        | 3.412    | 3.903 | 112.7      | 13.6   |       | 21.9  |
| 2001 03 12 |    | 12 06.68        | -57 56.1        | 3.406    | 3.973 | 118.2      | 12.7   |       | 21.9  |
| 2001 03 22 |    | 11 38.07        | -58 19.3        | 3.428    | 4.045 | 122.0      | 12.1   |       | 21.9  |
| 2001 04 01 |    | 11 10.50        | -57 54.7        | 3.478    | 4.116 | 123.7      | 11.7   |       | 22.0  |
| 2001 04 11 |    | 10 46.33        | -56 50.7        | 3.556    | 4.189 | 123.2      | 11.6   |       | 22.1  |
| 2001 04 21 |    | 10 26.83        | -55 20.2        | 3.660    | 4.261 | 120.7      | 11.7   |       | 22.2  |
| 2001 05 01 |    | 10 12.24        | -53 36.6        | 3.787    | 4.334 | 116.7      | 12.0   |       | 22.3  |
| 2001 05 11 |    | 10 02.12        | -51 51.3        | 3.932    | 4.406 | 111.7      | 12.3   |       | 22.4  |

**87P/Bus**Elements *MPC* 29882

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 11 22 |    | 13 40.79        | -10 04.7        | 2.959    | 2.197 | 33.0       | 14.2   | 18.1  | 21.4  |
| 2000 12 02 |    | 14 01.47        | -11 51.1        | 2.885    | 2.190 | 37.7       | 16.0   | 18.0  | 21.4  |
| 2000 12 12 |    | 14 22.22        | -13 30.2        | 2.806    | 2.185 | 42.6       | 17.7   | 17.9  | 21.4  |
| 2000 12 22 |    | 14 42.97        | -15 00.7        | 2.722    | 2.182 | 47.5       | 19.4   | 17.8  | 21.3  |
| 2001 01 01 |    | 15 03.60        | -16 21.5        | 2.635    | 2.181 | 52.5       | 21.0   | 17.8  | 21.3  |
| 2001 01 11 |    | 15 23.96        | -17 31.7        | 2.543    | 2.183 | 57.7       | 22.4   | 17.7  | 21.3  |
| 2001 01 21 |    | 15 43.91        | -18 30.7        | 2.449    | 2.187 | 63.1       | 23.7   | 17.6  | 21.3  |
| 2001 01 31 |    | 16 03.22        | -19 18.2        | 2.351    | 2.193 | 68.6       | 24.7   | 17.6  | 21.2  |
| 2001 02 10 |    | 16 21.66        | -19 54.3        | 2.252    | 2.202 | 74.3       | 25.6   | 17.5  | 21.1  |
| 2001 02 20 |    | 16 38.98        | -20 19.3        | 2.151    | 2.212 | 80.4       | 26.1   | 17.5  | 21.1  |
| 2001 03 02 |    | 16 54.87        | -20 34.0        | 2.050    | 2.225 | 86.7       | 26.4   | 17.4  | 21.0  |
| 2001 03 12 |    | 17 09.02        | -20 39.7        | 1.950    | 2.240 | 93.4       | 26.3   | 17.4  | 20.9  |
| 2001 03 22 |    | 17 21.11        | -20 37.7        | 1.852    | 2.257 | 100.5      | 25.7   | 17.4  | 20.8  |
| 2001 04 01 |    | 17 30.78        | -20 29.5        | 1.757    | 2.276 | 108.1      | 24.7   | 17.4  | 20.7  |
| 2001 04 11 |    | 17 37.73        | -20 17.0        | 1.669    | 2.297 | 116.3      | 23.0   | 17.3  | 20.5  |
| 2001 04 21 |    | 17 41.69        | -20 01.9        | 1.590    | 2.319 | 125.2      | 20.7   | 17.3  | 20.4  |
| 2001 05 01 |    | 17 42.50        | -19 45.5        | 1.523    | 2.343 | 134.7      | 17.8   | 17.4  | 20.2  |
| 2001 05 11 |    | 17 40.23        | -19 29.2        | 1.471    | 2.369 | 144.8      | 14.2   | 17.4  | 20.0  |
| 2001 05 21 |    | 17 35.24        | -19 13.9        | 1.438    | 2.396 | 155.5      | 10.1   | 17.5  | 19.8  |
| 2001 05 31 |    | 17 28.24        | -19 00.4        | 1.427    | 2.424 | 166.5      | 5.6    | 17.6  | 19.6  |
| 2001 06 10 |    | 17 20.27        | -18 49.6        | 1.440    | 2.454 | 175.5      | 1.9    | 17.7  | 19.5  |
| 2001 06 20 |    | 17 12.46        | -18 42.4        | 1.479    | 2.484 | 169.1      | 4.4    | 17.9  | 19.7  |
| 2001 06 30 |    | 17 05.86        | -18 39.9        | 1.542    | 2.516 | 158.5      | 8.5    | 18.2  | 20.0  |

## M.P.C. 41576

2000 NOV. 11

|            |          |          |       |       |       |      |      |      |
|------------|----------|----------|-------|-------|-------|------|------|------|
| 2001 07 10 | 17 01.28 | -18 42.7 | 1.628 | 2.548 | 148.0 | 12.2 | 18.4 | 20.3 |
| 2001 07 20 | 16 59.12 | -18 51.0 | 1.734 | 2.581 | 138.1 | 15.2 | 18.7 | 20.6 |
| 2001 07 30 | 16 59.54 | -19 04.1 | 1.858 | 2.615 | 128.7 | 17.6 | 19.0 | 20.9 |
| 2001 08 09 | 17 02.44 | -19 21.0 | 1.995 | 2.650 | 119.9 | 19.4 | 19.3 | 21.1 |
| 2001 08 19 | 17 07.59 | -19 40.3 | 2.143 | 2.685 | 111.5 | 20.5 | 19.6 | 21.3 |
| 2001 08 29 | 17 14.77 | -20 00.5 | 2.299 | 2.721 | 103.6 | 21.1 | 19.9 | 21.5 |
| 2001 09 08 | 17 23.68 | -20 20.3 | 2.462 | 2.757 | 96.1  | 21.3 | 20.2 | 21.7 |
| 2001 09 18 | 17 34.07 | -20 38.1 | 2.627 | 2.793 | 88.8  | 21.1 | 20.4 | 21.9 |
| 2001 09 28 | 17 45.70 | -20 52.8 | 2.794 | 2.830 | 81.7  | 20.5 | 20.7 | 22.0 |
| 2001 10 08 | 17 58.36 | -21 03.4 | 2.960 | 2.867 | 74.9  | 19.7 | 21.0 | 22.1 |
| 2001 10 18 | 18 11.86 | -21 09.0 | 3.124 | 2.904 | 68.1  | 18.6 | 21.2 | 22.2 |
| 2001 10 28 | 18 26.02 | -21 09.1 | 3.283 | 2.941 | 61.5  | 17.3 | 21.5 | 22.3 |
| 2001 11 07 | 18 40.69 | -21 03.1 | 3.436 | 2.978 | 54.9  | 15.8 | 21.7 | 22.4 |
| 2001 11 17 | 18 55.73 | -20 50.8 | 3.580 | 3.015 | 48.4  | 14.2 | 22.0 | 22.5 |
| 2001 11 27 | 19 11.01 | -20 32.1 | 3.716 | 3.053 | 41.8  | 12.5 | 22.2 | 22.5 |
| 2001 12 07 | 19 26.41 | -20 07.0 | 3.840 | 3.090 | 35.4  | 10.6 | 22.4 | 22.5 |

## 70P/Kojima

| Date       | TT       | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | Elements MPC 29882 |        |       |       |
|------------|----------|-----------------|-----------------|----------|-------|--------------------|--------|-------|-------|
|            |          |                 |                 |          |       | $\epsilon$         | $\phi$ | $m_1$ | $m_2$ |
| 2000 12 02 | 12 02.56 | +03 31.1        | 2.205           | 2.101    | 71.0  | 26.3               | 17.6   | 22.5  |       |
| 2000 12 12 | 12 18.96 | +02 19.4        | 2.122           | 2.127    | 76.9  | 26.8               | 17.6   | 22.5  |       |
| 2000 12 22 | 12 33.96 | +01 19.6        | 2.037           | 2.154    | 83.2  | 27.0               | 17.5   | 22.4  |       |
| 2001 01 01 | 12 47.30 | +00 33.7        | 1.951           | 2.184    | 90.0  | 26.8               | 17.5   | 22.4  |       |
| 2001 01 11 | 12 58.72 | +00 03.5        | 1.866           | 2.217    | 97.3  | 26.1               | 17.5   | 22.3  |       |
| 2001 01 21 | 13 07.94 | -00 09.6        | 1.783           | 2.251    | 105.2 | 25.0               | 17.5   | 22.2  |       |
| 2001 01 31 | 13 14.63 | -00 04.7        | 1.704           | 2.286    | 113.7 | 23.2               | 17.5   | 22.1  |       |
| 2001 02 10 | 13 18.53 | +00 18.3        | 1.634           | 2.323    | 122.9 | 20.9               | 17.6   | 21.9  |       |
| 2001 02 20 | 13 19.50 | +00 58.1        | 1.576           | 2.362    | 132.8 | 17.9               | 17.6   | 21.8  |       |
| 2001 03 02 | 13 17.54 | +01 51.9        | 1.534           | 2.402    | 143.2 | 14.3               | 17.6   | 21.6  |       |
| 2001 03 12 | 13 13.01 | +02 54.2        | 1.511           | 2.443    | 153.9 | 10.3               | 17.7   | 21.5  |       |
| 2001 03 22 | 13 06.54 | +03 58.2        | 1.512           | 2.485    | 164.0 | 6.3                | 17.8   | 21.4  |       |
| 2001 04 01 | 12 59.05 | +04 56.2        | 1.538           | 2.528    | 169.6 | 4.1                | 18.0   | 21.3  |       |
| 2001 04 11 | 12 51.63 | +05 41.1        | 1.591           | 2.571    | 164.6 | 6.0                | 18.2   | 21.5  |       |
| 2001 04 21 | 12 45.21 | +06 08.5        | 1.670           | 2.615    | 155.0 | 9.3                | 18.4   | 21.8  |       |
| 2001 05 01 | 12 40.49 | +06 16.7        | 1.772           | 2.660    | 144.9 | 12.6               | 18.6   | 22.1  |       |
| 2001 05 11 | 12 37.87 | +06 06.3        | 1.893           | 2.705    | 135.1 | 15.3               | 18.9   | 22.4  |       |

## 128P/Shoemaker-Holt 1

| Date       | TT       | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | Elements MPC 30632 |        |       |       |
|------------|----------|-----------------|-----------------|----------|-------|--------------------|--------|-------|-------|
|            |          |                 |                 |          |       | $\epsilon$         | $\phi$ | $m_1$ | $m_2$ |
| 2000 12 02 | 14 03.70 | -13 05.4        | 6.161           | 5.404    | 36.8  | 6.3                | 19.8   | 22.1  |       |
| 2000 12 12 | 14 10.71 | -13 39.8        | 6.070           | 5.421    | 45.1  | 7.4                | 19.8   | 22.1  |       |
| 2000 12 22 | 14 17.18 | -14 10.6        | 5.962           | 5.437    | 53.7  | 8.4                | 19.7   | 22.1  |       |
| 2001 01 01 | 14 23.00 | -14 37.4        | 5.840           | 5.454    | 62.4  | 9.2                | 19.7   | 22.1  |       |
| 2001 01 11 | 14 28.05 | -14 59.7        | 5.705           | 5.470    | 71.3  | 9.8                | 19.7   | 22.1  |       |
| 2001 01 21 | 14 32.20 | -15 17.2        | 5.563           | 5.486    | 80.4  | 10.2               | 19.6   | 22.1  |       |
| 2001 01 31 | 14 35.33 | -15 29.5        | 5.415           | 5.501    | 89.8  | 10.3               | 19.6   | 22.0  |       |
| 2001 02 10 | 14 37.35 | -15 36.2        | 5.268           | 5.516    | 99.5  | 10.2               | 19.5   | 22.0  |       |
| 2001 02 20 | 14 38.17 | -15 37.1        | 5.124           | 5.532    | 109.4 | 9.7                | 19.5   | 21.9  |       |
| 2001 03 02 | 14 37.75 | -15 32.0        | 4.990           | 5.546    | 119.5 | 8.9                | 19.4   | 21.8  |       |
| 2001 03 12 | 14 36.10 | -15 21.0        | 4.870           | 5.561    | 130.0 | 7.9                | 19.4   | 21.7  |       |
| 2001 03 22 | 14 33.31 | -15 04.4        | 4.768           | 5.575    | 140.7 | 6.5                | 19.4   | 21.6  |       |
| 2001 04 01 | 14 29.51 | -14 42.5        | 4.690           | 5.589    | 151.5 | 4.9                | 19.3   | 21.5  |       |
| 2001 04 11 | 14 24.94 | -14 16.5        | 4.639           | 5.603    | 162.6 | 3.1                | 19.3   | 21.4  |       |

|            |          |          |       |       |       |      |      |      |
|------------|----------|----------|-------|-------|-------|------|------|------|
| 2001 04 21 | 14 19.90 | -13 47.7 | 4.616 | 5.616 | 173.7 | 1.1  | 19.3 | 21.2 |
| 2001 05 01 | 14 14.70 | -13 17.7 | 4.625 | 5.629 | 175.2 | 0.9  | 19.3 | 21.2 |
| 2001 05 11 | 14 09.69 | -12 48.2 | 4.664 | 5.642 | 164.2 | 2.8  | 19.4 | 21.4 |
| 2001 05 21 | 14 05.18 | -12 21.1 | 4.732 | 5.655 | 153.4 | 4.6  | 19.4 | 21.5 |
| 2001 05 31 | 14 01.41 | -11 57.9 | 4.827 | 5.667 | 142.8 | 6.2  | 19.5 | 21.7 |
| 2001 06 10 | 13 58.58 | -11 39.8 | 4.944 | 5.679 | 132.5 | 7.6  | 19.5 | 21.8 |
| 2001 06 20 | 13 56.80 | -11 27.4 | 5.081 | 5.691 | 122.4 | 8.7  | 19.6 | 21.9 |
| 2001 06 30 | 13 56.13 | -11 21.3 | 5.233 | 5.703 | 112.7 | 9.5  | 19.7 | 22.0 |
| 2001 07 10 | 13 56.56 | -11 21.4 | 5.394 | 5.714 | 103.3 | 10.0 | 19.7 | 22.1 |
| 2001 07 20 | 13 58.05 | -11 27.5 | 5.562 | 5.725 | 94.1  | 10.2 | 19.8 | 22.2 |
| 2001 07 30 | 14 00.54 | -11 39.0 | 5.731 | 5.736 | 85.2  | 10.2 | 19.9 | 22.2 |
| 2001 08 09 | 14 03.95 | -11 55.5 | 5.898 | 5.747 | 76.5  | 9.9  | 19.9 | 22.3 |
| 2001 08 19 | 14 08.20 | -12 16.2 | 6.059 | 5.757 | 68.0  | 9.4  | 20.0 | 22.3 |
| 2001 08 29 | 14 13.19 | -12 40.5 | 6.211 | 5.767 | 59.6  | 8.7  | 20.1 | 22.4 |
| 2001 09 08 | 14 18.84 | -13 07.6 | 6.351 | 5.777 | 51.4  | 7.8  | 20.1 | 22.4 |
| 2001 09 18 | 14 25.06 | -13 37.0 | 6.477 | 5.786 | 43.3  | 6.8  | 20.2 | 22.4 |
| 2001 09 28 | 14 31.77 | -14 07.9 | 6.585 | 5.795 | 35.2  | 5.7  | 20.2 | 22.4 |

C/2000 CT<sub>54</sub> (LINEAR)

| Date       | TT       | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | Elements MPC 41158 |        |       |       |
|------------|----------|-----------------|-----------------|----------|-------|--------------------|--------|-------|-------|
|            |          |                 |                 |          |       | $\epsilon$         | $\phi$ | $m_1$ | $m_2$ |
| 2000 12 12 | 15 29.78 | -48 23.3        | 4.423           | 3.638    | 33.1  | 8.5                |        |       | 17.6  |
| 2000 12 22 | 15 48.74 | -50 26.1        | 4.325           | 3.593    | 37.3  | 9.6                |        |       | 17.6  |
| 2001 01 01 | 16 09.09 | -52 30.5        | 4.219           | 3.549    | 41.9  | 10.7               |        |       | 17.6  |
| 2001 01 11 | 16 30.97 | -54 35.3        | 4.106           | 3.507    | 46.8  | 11.8               |        |       | 17.5  |
| 2001 01 21 | 16 54.56 | -56 39.1        | 3.990           | 3.467    | 51.7  | 12.9               |        |       | 17.5  |
| 2001 01 31 | 17 20.03 | -58 40.5        | 3.870           | 3.429    | 56.6  | 13.9               |        |       | 17.4  |
| 2001 02 10 | 17 47.55 | -60 37.5        | 3.750           | 3.393    | 61.5  | 14.8               |        |       | 17.3  |
| 2001 02 20 | 18 17.28 | -62 28.2        | 3.632           | 3.359    | 66.3  | 15.6               |        |       | 17.3  |
| 2001 03 02 | 18 49.27 | -64 10.2        | 3.516           | 3.327    | 71.0  | 16.4               |        |       | 17.2  |
| 2001 03 12 | 19 23.45 | -65 41.4        | 3.404           | 3.298    | 75.5  | 17.0               |        |       | 17.2  |
| 2001 03 22 | 19 59.56 | -66 59.7        | 3.299           | 3.272    | 79.8  | 17.4               |        |       | 17.1  |
| 2001 04 01 | 20 37.03 | -68 04.0        | 3.199           | 3.248    | 83.8  | 17.8               |        |       | 17.0  |
| 2001 04 11 | 21 15.05 | -68 53.9        | 3.107           | 3.226    | 87.7  | 18.1               |        |       | 16.9  |
| 2001 04 21 | 21 52.65 | -69 30.6        | 3.022           | 3.208    | 91.4  | 18.3               |        |       | 16.9  |
| 2001 05 01 | 22 28.74 | -69 56.4        | 2.946           | 3.192    | 94.8  | 18.3               |        |       | 16.8  |
| 2001 05 11 | 23 02.4  | -70 14.8        | 2.877           | 3.179    | 98.0  | 18.3               |        |       | 16.8  |
| 2001 05 21 | 23 32.7  | -70 30.0        | 2.816           | 3.169    | 101.0 | 18.3               |        |       | 16.7  |
| 2001 05 31 | 23 59.1  | -70 45.9        | 2.762           | 3.161    | 103.8 | 18.1               |        |       | 16.6  |
| 2001 06 10 | 00 21.1  | -71 05.8        | 2.717           | 3.157    | 106.4 | 18.0               |        |       | 16.6  |
| 2001 06 20 | 00 38.1  | -71 32.0        | 2.678           | 3.156    | 108.8 | 17.7               |        |       | 16.6  |
| 2001 06 30 | 00 49.4  | -72 05.3        | 2.647           | 3.157    | 111.0 | 17.5               |        |       | 16.5  |
| 2001 07 10 | 00 54.2  | -72 43.8        | 2.624           | 3.162    | 112.9 | 17.2               |        |       | 16.5  |
| 2001 07 20 | 00 51.7  | -73 23.5        | 2.610           | 3.169    | 114.5 | 17.0               |        |       | 16.5  |
| 2001 07 30 | 00 41.1  | -73 56.9        | 2.606           | 3.180    | 115.7 | 16.7               |        |       | 16.5  |
| 2001 08 09 | 00 22.5  | -74 13.3        | 2.612           | 3.193    | 116.3 | 16.5               |        |       | 16.5  |
| 2001 08 19 | 23 57.9  | -74 01.1        | 2.630           | 3.209    | 116.3 | 16.4               |        |       | 16.5  |
| 2001 08 29 | 23 30.9  | -73 10.5        | 2.661           | 3.228    | 115.6 | 16.4               |        |       | 16.6  |
| 2001 09 08 | 23 06.0  | -71 38.4        | 2.706           | 3.250    | 114.1 | 16.4               |        |       | 16.6  |
| 2001 09 18 | 22 46.31 | -69 28.2        | 2.765           | 3.274    | 111.8 | 16.6               |        |       | 16.7  |
| 2001 09 28 | 22 32.71 | -66 47.4        | 2.840           | 3.301    | 108.8 | 16.7               |        |       | 16.8  |
| 2001 10 08 | 22 24.78 | -63 44.9        | 2.929           | 3.330    | 105.0 | 16.8               |        |       | 16.8  |
| 2001 10 18 | 22 21.50 | -60 28.6        | 3.033           | 3.362    | 100.6 | 16.9               |        |       | 16.9  |
| 2001 10 28 | 22 21.84 | -57 05.0        | 3.150           | 3.396    | 95.7  | 16.9               |        |       | 17.0  |

2000 NOV. 11

M.P.C. 41577

|            |          |          |       |       |      |      |      |  |
|------------|----------|----------|-------|-------|------|------|------|--|
| 2001 11 07 | 22 24.91 | -53 39.2 | 3.279 | 3.432 | 90.4 | 16.8 | 17.2 |  |
| 2001 11 17 | 22 30.00 | -50 14.7 | 3.418 | 3.471 | 84.8 | 16.5 | 17.3 |  |
| 2001 11 27 | 22 36.61 | -46 54.1 | 3.565 | 3.511 | 78.9 | 16.0 | 17.4 |  |
| 2001 12 07 | 22 44.31 | -43 39.3 | 3.717 | 3.553 | 72.8 | 15.4 | 17.5 |  |
| 2001 12 17 | 22 52.83 | -40 31.2 | 3.871 | 3.597 | 66.7 | 14.6 | 17.5 |  |
| 2001 12 27 | 23 01.93 | -37 30.5 | 4.026 | 3.643 | 60.4 | 13.6 | 17.6 |  |
| 2002 01 06 | 23 11.44 | -34 37.5 | 4.179 | 3.690 | 54.2 | 12.5 | 17.7 |  |
| 2002 01 16 | 23 21.21 | -31 52.2 | 4.326 | 3.739 | 47.9 | 11.3 | 17.7 |  |
| 2002 01 26 | 23 31.14 | -29 14.7 | 4.467 | 3.789 | 41.8 | 10.0 | 17.8 |  |
| 2002 02 05 | 23 41.14 | -26 45.0 | 4.597 | 3.841 | 35.8 | 8.6  | 17.8 |  |
| 2002 02 15 | 23 51.12 | -24 22.7 | 4.717 | 3.894 | 30.1 | 7.3  | 17.9 |  |

## 7P/Pons-Winnecke

Elements MPC 34422

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 12 22 |    | 08 52.81        | +30 30.5        | 3.454    | 4.268 | 141.5      | 8.2    | 22.1  | 22.4  |
| 2001 01 01 |    | 08 46.83        | +31 34.7        | 3.331    | 4.224 | 152.0      | 6.3    | 22.0  | 22.2  |
| 2001 01 11 |    | 08 39.13        | +32 39.1        | 3.236    | 4.179 | 161.3      | 4.3    | 21.9  | 22.0  |
| 2001 01 21 |    | 08 30.14        | +33 39.3        | 3.172    | 4.133 | 165.8      | 3.4    | 21.8  | 21.9  |
| 2001 01 31 |    | 08 20.48        | +34 30.8        | 3.141    | 4.086 | 161.3      | 4.4    | 21.7  | 21.9  |
| 2001 02 10 |    | 08 10.93        | +35 10.6        | 3.141    | 4.039 | 152.0      | 6.6    | 21.6  | 22.0  |
| 2001 02 20 |    | 08 02.25        | +35 37.2        | 3.170    | 3.990 | 141.4      | 8.9    | 21.5  | 22.1  |
| 2001 03 02 |    | 07 55.11        | +35 50.8        | 3.223    | 3.941 | 130.6      | 11.0   | 21.5  | 22.2  |
| 2001 03 12 |    | 07 49.98        | +35 53.0        | 3.295    | 3.890 | 120.2      | 12.8   | 21.4  | 22.3  |
| 2001 03 22 |    | 07 47.08        | +35 46.0        | 3.381    | 3.839 | 110.1      | 14.1   | 21.4  | 22.4  |
| 2001 04 01 |    | 07 46.49        | +35 31.6        | 3.476    | 3.787 | 100.4      | 15.0   | 21.4  | 22.4  |
| 2001 04 11 |    | 07 48.12        | +35 11.7        | 3.574    | 3.734 | 91.3       | 15.6   | 21.3  | 22.5  |
| 2001 04 21 |    | 07 51.79        | +34 47.5        | 3.671    | 3.679 | 82.6       | 15.7   | 21.3  | 22.5  |
| 2001 05 01 |    | 07 57.31        | +34 19.6        | 3.764    | 3.624 | 74.3       | 15.5   | 21.3  | 22.5  |
| 2001 05 11 |    | 08 04.46        | +33 48.5        | 3.849    | 3.568 | 66.5       | 15.0   | 21.2  | 22.5  |
| 2001 05 21 |    | 08 13.03        | +33 14.3        | 3.924    | 3.511 | 59.0       | 14.3   | 21.2  | 22.5  |
| 2001 05 31 |    | 08 22.84        | +32 37.0        | 3.986    | 3.453 | 51.8       | 13.3   | 21.1  | 22.5  |
| 2001 06 10 |    | 08 33.70        | +31 56.4        | 4.035    | 3.394 | 45.0       | 12.2   | 21.0  | 22.4  |
| 2001 06 20 |    | 08 45.49        | +31 12.4        | 4.068    | 3.334 | 38.5       | 10.9   | 20.9  | 22.3  |
| 2001 06 30 |    | 08 58.08        | +30 24.9        | 4.086    | 3.273 | 32.4       | 9.6    | 20.8  | 22.3  |

## C/1999 N4 (LINEAR)

Elements MPC 40823

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 12 22 |    | 15 56.34        | -01 20.8        | 6.468    | 5.720 | 37.6       | 6.0    | 17.6  |       |
| 2001 01 01 |    | 15 57.79        | -01 13.1        | 6.376    | 5.740 | 46.3       | 7.1    | 17.6  |       |
| 2001 01 11 |    | 15 58.60        | -00 58.9        | 6.262    | 5.761 | 55.5       | 8.1    | 17.6  |       |
| 2001 01 21 |    | 15 58.60        | -00 38.0        | 6.129    | 5.783 | 65.0       | 8.9    | 17.6  |       |
| 2001 01 31 |    | 15 57.63        | -00 10.2        | 5.984    | 5.806 | 74.9       | 9.4    | 17.5  |       |
| 2001 02 10 |    | 15 55.51        | +00 24.3        | 5.831    | 5.829 | 85.1       | 9.7    | 17.5  |       |
| 2001 02 20 |    | 15 52.10        | +01 05.2        | 5.675    | 5.854 | 95.5       | 9.7    | 17.4  |       |
| 2001 03 02 |    | 15 47.29        | +01 51.9        | 5.525    | 5.879 | 106.2      | 9.3    | 17.4  |       |
| 2001 03 12 |    | 15 40.99        | +02 43.3        | 5.386    | 5.904 | 117.0      | 8.6    | 17.4  |       |
| 2001 03 22 |    | 15 33.22        | +03 37.8        | 5.267    | 5.931 | 127.9      | 7.6    | 17.3  |       |
| 2001 04 01 |    | 15 24.08        | +04 33.3        | 5.173    | 5.958 | 138.4      | 6.4    | 17.3  |       |
| 2001 04 11 |    | 15 13.78        | +05 27.2        | 5.112    | 5.986 | 148.1      | 5.1    | 17.3  |       |
| 2001 04 21 |    | 15 02.63        | +06 16.9        | 5.087    | 6.015 | 155.3      | 4.0    | 17.3  |       |
| 2001 05 01 |    | 14 51.05        | +06 59.8        | 5.101    | 6.044 | 157.5      | 3.7    | 17.4  |       |
| 2001 05 11 |    | 14 39.50        | +07 33.8        | 5.154    | 6.074 | 153.4      | 4.3    | 17.4  |       |
| 2001 05 21 |    | 14 28.41        | +07 57.7        | 5.245    | 6.104 | 145.3      | 5.4    | 17.5  |       |

|            |          |          |       |       |       |     |      |  |
|------------|----------|----------|-------|-------|-------|-----|------|--|
| 2001 05 31 | 14 18.16 | +08 11.2 | 5.371 | 6.136 | 135.5 | 6.6 | 17.5 |  |
| 2001 06 10 | 14 09.04 | +08 14.6 | 5.526 | 6.168 | 125.3 | 7.7 | 17.6 |  |
| 2001 06 20 | 14 01.21 | +08 08.9 | 5.704 | 6.200 | 114.9 | 8.6 | 17.7 |  |
| 2001 06 30 | 13 54.77 | +07 55.5 | 5.898 | 6.233 | 104.6 | 9.1 | 17.8 |  |
| 2001 07 10 | 13 49.68 | +07 35.7 | 6.103 | 6.267 | 94.6  | 9.3 | 17.9 |  |
| 2001 07 20 | 13 45.89 | +07 11.0 | 6.313 | 6.301 | 84.7  | 9.2 | 18.0 |  |
| 2001 07 30 | 13 43.29 | +06 42.6 | 6.520 | 6.336 | 75.1  | 8.9 | 18.1 |  |
| 2001 08 09 | 13 41.76 | +06 11.7 | 6.720 | 6.371 | 65.8  | 8.3 | 18.2 |  |
| 2001 08 19 | 13 41.15 | +05 39.2 | 6.909 | 6.407 | 56.6  | 7.6 | 18.3 |  |
| 2001 08 29 | 13 41.34 | +05 06.0 | 7.081 | 6.444 | 47.6  | 6.6 | 18.3 |  |
| 2001 09 08 | 13 42.19 | +04 32.9 | 7.234 | 6.481 | 38.8  | 5.6 | 18.4 |  |
| 2001 09 18 | 13 43.58 | +04 00.5 | 7.365 | 6.518 | 30.4  | 4.5 | 18.5 |  |

## OPPOSITION DATA

| Planet                 | Opposition   | $\alpha_{2000}$ | $\delta_{2000}$ | $V$  | $\dot{\alpha}$ | $\dot{\delta}$ | $\phi_{\text{MIN}}$ | Ref.  |
|------------------------|--------------|-----------------|-----------------|------|----------------|----------------|---------------------|-------|
| 2000 RC <sub>6</sub>   | 2000 10 28.0 | 02 10.42        | +07 23.8        | 16.8 | -0.87          | - 8.4          | 2.4/26.3            | 6316  |
| 2000 ON <sub>22</sub>  | 2000 10 28.0 | 02 10.49        | +07 27.1        | 17.0 | -0.90          | - 7.0          | 2.8/26.4            | 6278  |
| 2000 TQ <sub>18</sub>  | 2000 10 28.0 | 02 10.49        | +14 12.1        | 18.0 | -0.97          | - 5.0          | 0.5/28.3            | 6094  |
| (18528)                | 2000 10 28.0 | 02 10.51        | +09 19.0        | 18.3 | -1.07          | - 1.2          | 1.5/27.2            | 5218  |
| 2000 SU <sub>153</sub> | 2000 10 28.0 | 02 10.52        | +08 20.6        | 18.0 | -0.76          | - 7.1          | 1.6/26.6            | 6007  |
| (18746)                | 2000 10 28.0 | 02 10.55        | +17 03.3        | 18.4 | -1.11          | - 3.8          | 1.6/29.0            | 5282  |
| 1997 YO <sub>5</sub>   | 2000 10 28.0 | 02 10.60        | +01 18.6        | 18.4 | -1.00          | - 4.7          | 5.1/24.9            | 6200  |
| 1999 RH <sub>49</sub>  | 2000 10 28.0 | 02 10.63        | -18 24.1        | 18.2 | -0.72          | - 3.8          | 8.5/17.9            | 6244  |
| 1998 AM <sub>10</sub>  | 2000 10 28.0 | 02 10.69        | +00 00.3        | 17.2 | -0.90          | - 5.6          | 5.2/24.4            | 6201  |
| 2000 SK <sub>218</sub> | 2000 10 28.0 | 02 10.73        | -00 06.9        | 16.4 | -1.03          | - 1.3          | 6.7/25.1            | 6041  |
| (18629)                | 2000 10 28.0 | 02 10.75        | -01 05.2        | 18.8 | -0.84          | - 6.8          | 4.6/23.8            | 5247  |
| 2000 RB <sub>46</sub>  | 2000 10 28.0 | 02 10.79        | +14 16.8        | 16.2 | -0.91          | - 8.0          | 0.5/28.4            | 6326  |
| 2000 SS <sub>87</sub>  | 2000 10 28.0 | 02 10.79        | -00 28.1        | 17.8 | -0.92          | - 5.7          | 6.3/24.3            | 6360  |
| 2000 SG <sub>218</sub> | 2000 10 28.0 | 02 10.82        | -00 24.7        | 18.5 | -0.98          | - 3.2          | 5.8/24.6            | 6041  |
| 1999 JO <sub>60</sub>  | 2000 10 28.0 | 02 10.83        | +17 23.7        | 18.4 | -1.00          | - 7.0          | 1.5/29.3            | 5556  |
| 1999 JB <sub>78</sub>  | 2000 10 28.0 | 02 10.84        | +03 12.0        | 19.4 | -0.99          | - 5.5          | 3.4/25.4            | 5565  |
| 2000 SW <sub>176</sub> | 2000 10 28.1 | 02 10.83        | +23 11.1        | 18.6 | -1.00          | - 5.3          | 4.0/30.9            | 6023  |
| (10977)                | 2000 10 28.1 | 02 10.90        | +11 22.5        | 17.9 | -1.05          | - 4.9          | 0.7/27.7            | 34817 |
| 1981 EW <sub>2</sub>   | 2000 10 28.1 | 02 10.92        | +34 03.9        | 18.7 | -1.06          | - 3.4          | 6.7/03.1            | 31579 |
| 2000 RS <sub>6</sub>   | 2000 10 28.1 | 02 10.96        | +09 52.7        | 17.9 | -0.88          | - 5.3          | 1.6/27.2            | 6316  |
| (11753)                | 2000 10 28.1 | 02 11.00        | +18 36.5        | 18.1 | -0.80          | - 4.1          | 1.6/29.7            | 35898 |
| 2000 SU <sub>273</sub> | 2000 10 28.1 | 02 11.07        | +10 51.0        | 18.3 | -0.85          | - 2.8          | 0.8/27.6            | 6065  |
| 2000 SB <sub>170</sub> | 2000 10 28.1 | 02 11.07        | +18 07.3        | 17.6 | -0.96          | - 2.4          | 1.8/29.4            | 6018  |
| 1999 JO <sub>31</sub>  | 2000 10 28.1 | 02 11.08        | +12 21.1        | 16.3 | -0.92          | - 5.3          | 0.4/27.9            | 6230  |
| 2000 SA <sub>177</sub> | 2000 10 28.1 | 02 11.10        | +20 25.0        | 18.2 | -0.91          | - 8.4          | 2.5/30.4            | 6023  |
| 2000 SW <sub>87</sub>  | 2000 10 28.1 | 02 11.12        | +03 38.8        | 17.5 | -0.79          | - 2.6          | 3.0/25.7            | 5968  |
| 2000 RC <sub>67</sub>  | 2000 10 28.1 | 02 11.20        | +15 49.7        | 17.5 | -0.98          | - 3.0          | 1.3/28.9            | 6330  |
| 2000 RS <sub>68</sub>  | 2000 10 28.2 | 02 11.18        | +10 07.2        | 17.1 | -1.17          | + 2.6          | 1.2/27.6            | 6330  |
| 2000 SV <sub>121</sub> | 2000 10 28.2 | 02 11.26        | +04 42.5        | 18.9 | -0.91          | - 6.7          | 2.8/25.8            | 5985  |
| (17435)                | 2000 10 28.2 | 02 11.29        | -01 49.5        | 17.5 | -0.92          | -17.1          | 5.9/22.6            | 4050  |
| 1998 FX <sub>67</sub>  | 2000 10 28.2 | 02 11.32        | +11 13.5        | 19.4 | -0.80          | - 3.9          | 0.5/27.7            | 5463  |
| 2000 TU <sub>50</sub>  | 2000 10 28.2 | 02 11.34        | -06 42.1        | 16.7 | -0.69          | - 9.1          | 7.4/21.2            | 6417  |
| 2000 SA <sub>276</sub> | 2000 10 28.2 | 02 11.35        | +10 58.4        | 18.7 | -0.92          | - 5.7          | 0.9/27.6            | 6068  |
| 1994 AU                | 2000 10 28.2 | 02 11.39        | +12 59.1        | 17.2 | -1.00          | - 3.2          | 0.1/28.2            | 6189  |
| 2000 SP <sub>218</sub> | 2000 10 28.2 | 02 11.45        | -01 41.7        | 18.8 | -0.87          | - 3.2          | 5.0/24.4            | 6041  |
| 4324 T-3               | 2000 10 28.2 | 02 11.47        | +03 56.2        | 17.4 | -0.88          | - 3.2          | 3.4/25.9            | 6172  |

|                        |              |                   |      |       |       |           |       |                        |              |                   |      |       |       |          |       |
|------------------------|--------------|-------------------|------|-------|-------|-----------|-------|------------------------|--------------|-------------------|------|-------|-------|----------|-------|
| (17358)                | 2000 10 28.2 | 02 11.47 +12 57.8 | 16.4 | -0.91 | - 8.7 | 0.1/28.2  | 4029  | 2000 RE <sub>66</sub>  | 2000 10 28.7 | 02 13.36 +03 49.4 | 17.7 | -0.98 | - 2.7 | 4.8/26.5 | 5917  |
| 2000 SF <sub>123</sub> | 2000 10 28.2 | 02 11.49 +05 40.5 | 17.7 | -1.03 | - 4.0 | 3.2/26.4  | 5986  | 1155 T-2               | 2000 10 28.7 | 02 13.39 +10 17.6 | 17.3 | -0.82 | - 6.4 | 1.3/27.9 | 6154  |
| 1997 YE <sub>4</sub>   | 2000 10 28.2 | 02 11.60 +18 16.2 | 15.7 | -0.97 | - 7.7 | 2.4/29.8  | 6200  | 2000 RV <sub>6</sub>   | 2000 10 28.7 | 02 13.40 +07 52.6 | 17.6 | -0.95 | - 7.1 | 2.3/27.2 | 6316  |
| 2000 SD <sub>177</sub> | 2000 10 28.3 | 02 11.73 +16 46.3 | 18.0 | -0.74 | -11.9 | 1.1/29.6  | 6024  | 2000 SO <sub>154</sub> | 2000 10 28.7 | 02 13.42 +10 10.9 | 18.2 | -0.99 | - 4.4 | 1.3/27.9 | 6008  |
| 1999 JD <sub>80</sub>  | 2000 10 28.3 | 02 11.76 +01 47.7 | 17.6 | -0.86 | - 8.4 | 4.1/24.9  | 6235  | 2191 T-3               | 2000 10 28.7 | 02 13.46 +18 53.1 | 19.0 | -0.93 | - 3.6 | 2.0/30.2 | 6440  |
| 1994 JS <sub>1</sub>   | 2000 10 28.3 | 02 11.79 -06 23.6 | 19.6 | -0.82 | - 6.7 | 5.3/22.3  | 6189  | 2000 SO <sub>230</sub> | 2000 10 28.7 | 02 13.51 +15 10.5 | 17.8 | -0.93 | - 2.4 | 0.9/29.2 | 6050  |
| 1999 JY <sub>18</sub>  | 2000 10 28.3 | 02 11.79 +20 23.9 | 17.6 | -1.02 | - 6.7 | 2.8/30.4  | 6229  | (10952)                | 2000 10 28.8 | 02 13.47 +05 05.3 | 17.4 | -0.79 | - 7.5 | 2.6/26.3 | 34810 |
| (18368)                | 2000 10 28.3 | 02 11.79 -00 58.5 | 16.6 | -1.70 | + 8.4 | 7.0/26.9  | 5173  | (17529)                | 2000 10 28.8 | 02 13.50 +08 13.0 | 17.2 | -0.76 | - 9.2 | 1.8/27.1 | 4077  |
| 1998 FR <sub>136</sub> | 2000 10 28.3 | 02 11.80 +11 47.4 | 17.9 | -0.84 | - 8.6 | 0.6/27.9  | 5470  | 1999 JD <sub>43</sub>  | 2000 10 28.8 | 02 13.51 +23 09.6 | 18.5 | -1.04 | - 6.4 | 3.8/31.6 | 6231  |
| 2000 SN <sub>124</sub> | 2000 10 28.3 | 02 11.83 +09 43.4 | 19.1 | -0.97 | - 3.3 | 1.3/27.5  | 5988  | (17620)                | 2000 10 28.8 | 02 13.51 +03 23.3 | 17.0 | -0.85 | - 1.7 | 3.1/26.3 | 4103  |
| 2000 SK <sub>164</sub> | 2000 10 28.3 | 02 11.85 +05 51.2 | 16.6 | -1.90 | +14.6 | 4.1/28.0  | 6015  | (18390)                | 2000 10 28.8 | 02 13.54 +10 47.1 | 17.2 | -1.09 | - 2.9 | 1.0/28.2 | 5179  |
| 1999 JF <sub>6</sub>   | 2000 10 28.3 | 02 11.94 +01 37.7 | 18.4 | -0.95 | - 3.0 | 4.2/25.5  | 6228  | 2000 UF <sub>11</sub>  | 2000 10 28.8 | 02 13.67 +14 10.7 | 19.0 | -0.77 | - 3.6 | 0.2/29.1 | 6113  |
| 2000 SQ <sub>1</sub>   | 2000 10 28.3 | 02 12.06 -25 18.2 | 17.8 | -1.91 | +20.2 | 21.8/29.7 | 4801  | (17804)                | 2000 10 28.8 | 02 13.67 +11 35.3 | 17.2 | -0.77 | - 6.9 | 0.6/28.3 | 4157  |
| 1999 LM <sub>14</sub>  | 2000 10 28.4 | 02 11.94 +01 48.2 | 18.1 | -0.93 | - 4.8 | 4.0/25.3  | 6239  | 1999 NL <sub>47</sub>  | 2000 10 28.8 | 02 13.70 +23 39.2 | 18.2 | -0.88 | - 6.1 | 3.2/31.9 | 5585  |
| 1989 TE <sub>5</sub>   | 2000 10 28.4 | 02 12.09 +06 29.7 | 18.0 | -0.96 | - 5.7 | 2.5/26.6  | 5389  | 2000 RW <sub>45</sub>  | 2000 10 28.8 | 02 13.70 +17 24.9 | 16.3 | -0.77 | - 8.6 | 1.8/30.1 | 5907  |
| 1998 HS <sub>4</sub>   | 2000 10 28.4 | 02 12.16 +12 54.9 | 20.0 | -0.75 | - 5.5 | 0.1/28.3  | 6211  | 1998 HH <sub>15</sub>  | 2000 10 28.8 | 02 13.73 +03 53.7 | 18.3 | -0.84 | - 1.6 | 2.9/26.5 | 6211  |
| (18731)                | 2000 10 28.4 | 02 12.36 +14 35.6 | 16.6 | -0.77 | - 6.6 | 0.4/28.9  | 5278  | 2000 UB <sub>62</sub>  | 2000 10 28.8 | 02 13.75 +18 39.7 | 17.3 | -0.79 | - 6.9 | 1.6/30.4 | 6128  |
| 2000 UM <sub>34</sub>  | 2000 10 28.4 | 02 12.38 +16 42.4 | 18.9 | -0.98 | - 2.3 | 1.6/29.3  | 6123  | (18440)                | 2000 10 28.8 | 02 13.76 +03 19.4 | 19.2 | -0.82 | - 4.0 | 3.1/26.2 | 5193  |
| (18783)                | 2000 10 28.4 | 02 12.39 +14 32.9 | 17.9 | -0.94 | - 5.2 | 0.5/28.8  | 5294  | (18747)                | 2000 10 28.8 | 02 13.77 +19 25.9 | 18.6 | -1.11 | - 5.6 | 2.3/30.4 | 5283  |
| 2000 UD <sub>20</sub>  | 2000 10 28.4 | 02 12.41 +11 58.6 | 19.3 | -1.07 | - 2.8 | 0.6/28.2  | 6117  | 1993 OR <sub>5</sub>   | 2000 10 28.8 | 02 13.78 +12 39.3 | 18.8 | -0.79 | - 4.2 | 0.2/28.6 | 6187  |
| 2231 T-3               | 2000 10 28.5 | 02 12.30 +15 46.4 | 19.2 | -1.02 | - 5.3 | 1.0/29.2  | 6166  | 2000 SN <sub>177</sub> | 2000 10 28.8 | 02 13.82 +22 00.3 | 17.6 | -0.92 | - 4.5 | 3.0/31.2 | 6024  |
| 2000 SH <sub>207</sub> | 2000 10 28.5 | 02 12.34 +13 37.5 | 18.3 | -0.86 | - 5.4 | 0.1/28.6  | 6034  | 1998 BT <sub>15</sub>  | 2000 10 28.8 | 02 13.84 +21 32.6 | 16.9 | -1.14 | - 2.2 | 3.6/30.8 | 6202  |
| 1998 HL <sub>39</sub>  | 2000 10 28.5 | 02 12.39 +05 51.1 | 14.7 | -0.68 | -14.9 | 3.0/25.7  | 6212  | (17830)                | 2000 10 28.8 | 02 13.85 +08 24.3 | 17.4 | -0.83 | - 4.3 | 1.6/27.5 | 4166  |
| 2000 QZ <sub>127</sub> | 2000 10 28.5 | 02 12.47 +09 34.3 | 16.6 | -0.88 | - 7.7 | 1.6/27.4  | 6303  | 2000 RA <sub>46</sub>  | 2000 10 28.8 | 02 13.88 +19 05.5 | 16.9 | -0.95 | - 8.1 | 2.5/30.6 | 6326  |
| 2000 SD <sub>170</sub> | 2000 10 28.5 | 02 12.48 +16 42.8 | 18.0 | -0.91 | - 4.4 | 1.1/29.5  | 6019  | 2000 RQ <sub>71</sub>  | 2000 10 28.9 | 02 13.87 +14 12.0 | 16.7 | -0.90 | - 5.4 | 0.3/29.1 | 6331  |
| 1998 HD <sub>85</sub>  | 2000 10 28.5 | 02 12.50 +10 37.2 | 18.9 | -0.75 | - 4.9 | 0.8/27.8  | 6213  | 1999 JN <sub>62</sub>  | 2000 10 28.9 | 02 13.90 +10 20.3 | 18.2 | -0.94 | - 7.1 | 1.1/28.0 | 6233  |
| 1998 FT <sub>33</sub>  | 2000 10 28.5 | 02 12.52 +02 57.8 | 18.8 | -0.82 | - 7.4 | 3.6/25.4  | 5456  | 2000 SE <sub>177</sub> | 2000 10 28.9 | 02 13.91 +18 46.4 | 16.9 | -0.82 | - 9.9 | 2.1/30.6 | 6384  |
| 2000 SA <sub>170</sub> | 2000 10 28.5 | 02 12.52 +16 42.2 | 17.3 | -0.94 | - 4.4 | 1.3/29.4  | 6018  | 1993 FC <sub>9</sub>   | 2000 10 28.9 | 02 13.94 +07 57.5 | 18.3 | -0.84 | - 3.9 | 1.8/27.4 | 6186  |
| 1993 FX <sub>20</sub>  | 2000 10 28.5 | 02 12.57 +11 31.1 | 17.6 | -0.83 | - 4.8 | 0.6/28.0  | 6186  | 2000 UN <sub>67</sub>  | 2000 10 28.9 | 02 13.95 +20 37.4 | 18.7 | -0.83 | - 3.5 | 2.2/30.9 | 6130  |
| (16497)                | 2000 10 28.5 | 02 12.58 +02 36.2 | 17.0 | -1.02 | - 6.4 | 4.6/25.7  | 2851  | 1998 FC <sub>79</sub>  | 2000 10 28.9 | 02 13.99 +02 47.8 | 17.4 | -0.84 | - 4.3 | 3.7/26.0 | 6209  |
| 1998 HF <sub>122</sub> | 2000 10 28.5 | 02 12.68 -03 41.4 | 18.6 | -0.72 | - 4.5 | 4.4/23.6  | 6214  | 2000 SG <sub>123</sub> | 2000 10 28.9 | 02 14.01 +03 52.3 | 17.6 | -0.98 | - 5.5 | 3.6/26.4 | 5987  |
| (18556)                | 2000 10 28.5 | 02 12.71 -02 27.6 | 18.0 | -0.77 | - 3.7 | 4.8/24.2  | 5226  | 1998 FJ <sub>23</sub>  | 2000 10 28.9 | 02 14.03 +11 04.4 | 17.3 | -1.01 | - 4.3 | 1.0/28.3 | 6206  |
| 2000 SS <sub>230</sub> | 2000 10 28.5 | 02 12.73 +16 27.9 | 17.2 | -1.08 | + 0.5 | 1.7/29.3  | 6393  | (18777)                | 2000 10 28.9 | 02 14.05 +06 31.3 | 18.6 | -0.94 | - 4.1 | 2.5/27.2 | 5292  |
| 1999 JN <sub>48</sub>  | 2000 10 28.5 | 02 12.73 +13 16.2 | 19.0 | -1.04 | - 2.6 | 0.0/28.6  | 5548  | 1999 JA <sub>76</sub>  | 2000 10 28.9 | 02 14.08 +18 34.7 | 18.6 | -1.02 | - 7.9 | 1.8/30.4 | 6234  |
| 2000 SH <sub>122</sub> | 2000 10 28.5 | 02 12.74 +05 47.1 | 18.9 | -0.84 | - 3.1 | 2.6/26.6  | 5986  | 2000 UF <sub>20</sub>  | 2000 10 28.9 | 02 14.15 +10 49.9 | 19.4 | -0.87 | - 7.5 | 1.0/28.2 | 6117  |
| 2000 RW <sub>75</sub>  | 2000 10 28.6 | 02 12.70 +22 44.5 | 17.6 | -0.95 | - 8.4 | 4.3/31.5  | 5921  | 2000 SQ <sub>230</sub> | 2000 10 28.9 | 02 14.27 +14 08.5 | 18.2 | -0.97 | - 2.2 | 0.3/29.1 | 6050  |
| 1998 FK <sub>116</sub> | 2000 10 28.6 | 02 12.76 +13 04.3 | 19.2 | -0.84 | - 6.6 | 0.1/28.5  | 6210  | 2000 TP <sub>1</sub>   | 2000 10 28.9 | 02 14.30 +10 23.8 | 19.1 | -0.92 | - 1.9 | 0.9/28.2 | 6091  |
| 2000 TO <sub>18</sub>  | 2000 10 28.6 | 02 12.76 +12 43.3 | 18.7 | -0.74 | - 7.7 | 0.2/28.4  | 6094  | (18016)                | 2000 10 29.0 | 02 14.27 +16 43.0 | 17.4 | -0.95 | - 7.7 | 1.2/30.0 | 4221  |
| 2000 SA <sub>214</sub> | 2000 10 28.6 | 02 12.81 -01 50.0 | 17.1 | -1.11 | + 2.0 | 5.8/25.7  | 6038  | (18714)                | 2000 10 29.0 | 02 14.34 -02 22.4 | 19.2 | -0.81 | - 2.1 | 4.5/24.9 | 5273  |
| 1998 FT <sub>90</sub>  | 2000 10 28.6 | 02 12.81 +22 37.7 | 19.3 | -1.10 | - 0.9 | 3.2/30.7  | 6209  | 1999 JY <sub>1</sub>   | 2000 10 29.0 | 02 14.35 -01 00.0 | 17.0 | -0.72 | -30.5 | 6.9/22.6 | 6227  |
| (18537)                | 2000 10 28.6 | 02 12.89 -05 10.8 | 16.8 | -0.83 | - 3.8 | 7.2/23.4  | 5221  | 1998 FD <sub>79</sub>  | 2000 10 29.0 | 02 14.44 +13 31.9 | 18.4 | -1.12 | + 0.7 | 0.0/29.0 | 6209  |
| 1998 HC <sub>123</sub> | 2000 10 28.6 | 02 12.93 +07 19.2 | 15.7 | -0.68 | -12.8 | 2.1/26.5  | 6214  | 2000 ST <sub>218</sub> | 2000 10 29.0 | 02 14.45 -01 47.2 | 17.2 | -1.00 | - 1.5 | 7.3/25.6 | 6391  |
| 1998 DB <sub>7</sub>   | 2000 10 28.6 | 02 12.96 +09 52.2 | 18.1 | -0.88 | - 8.1 | 1.5/27.6  | 6203  | 1999 JZ <sub>92</sub>  | 2000 10 29.0 | 02 14.48 -09 41.1 | 18.8 | -0.93 | - 1.7 | 8.7/23.4 | 5570  |
| 2000 SC <sub>170</sub> | 2000 10 28.6 | 02 12.98 +19 00.4 | 18.1 | -0.97 | - 1.5 | 2.1/30.0  | 6018  | 2000 SS <sub>333</sub> | 2000 10 29.0 | 02 14.52 -00 57.4 | 16.7 | -0.84 | + 0.6 | 7.5/25.7 | 6410  |
| 2000 RP <sub>54</sub>  | 2000 10 28.6 | 02 13.01 +34 17.3 | 17.7 | -1.18 | + 0.2 | 8.4/02.7  | 6328  | 2000 SV <sub>153</sub> | 2000 10 29.0 | 02 14.53 +08 52.9 | 16.9 | -0.74 | - 5.6 | 1.6/27.7 | 6007  |
| 1998 FW <sub>2</sub>   | 2000 10 28.6 | 02 13.02 +10 38.6 | 18.0 | -0.86 | - 4.8 | 0.9/27.9  | 5452  | 1999 JT <sub>40</sub>  | 2000 10 29.0 | 02 14.58 +09 23.5 | 19.1 | -0.98 | - 6.4 | 1.5/27.9 | 6231  |
| 1997 EM <sub>28</sub>  | 2000 10 28.6 | 02 13.05 +13 37.9 | 20.4 | -0.79 | - 3.8 | 0.1/28.7  | 6197  | 2000 SU <sub>121</sub> | 2000 10 29.0 | 02 14.63 +05 10.7 | 18.3 | -0.82 | - 5.6 | 3.2/26.7 | 5985  |
| 2000 SX <sub>122</sub> | 2000 10 28.6 | 02 13.08 +09 17.5 | 18.8 | -0.80 | - 3.2 | 1.3/27.6  | 5986  | (18796)                | 2000 10 29.0 | 02 14.63 +08 47.1 | 18.2 | -1.05 | - 3.5 | 1.7/27.9 | 5298  |
| 1999 JT <sub>57</sub>  | 2000 10 28.6 | 02 13.09 +08 40.6 | 16.5 | -1.08 | - 1.2 | 1.9/27.6  | 6232  | 2000 SB <sub>214</sub> | 2000 10 29.0 | 02 14.64 -02 33.5 | 17.3 | -1.08 | - 1.1 | 6.4/25.3 | 6039  |
| (19045)                | 2000 10 28.7 | 02 13.08 +08 28.8 | 18.5 | -1.04 | - 6.0 | 1.9/27.4  | 5370  | (18793)                | 2000 10 29.0 | 02 14.67 -04 10.3 | 16.5 | -0.89 | + 1.5 | 7.3/25.4 | 5297  |
| (11729)                | 2000 10 28.7 | 02 13.11 +10 31.0 | 17.6 | -0.77 | - 3.5 | 0.8/27.9  | 35892 | 2000 TH <sub>51</sub>  | 2000 10 29.1 | 02 14.73 -02 25.8 | 18.5 | -0.98 | - 1.8 | 7.4/25.3 | 6102  |

|                        |              |                        |             |          |       |                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|----------|-------|------------------------|--------------|------------------------|-------------|-----------|-------|
| (17848)                | 2000 10 29.1 | 02 14.79 +04 54.6 18.1 | -0.80 - 3.2 | 2.6/26.9 | 4171  | 4105 T-2               | 2000 10 29.4 | 02 16.14 +06 10.6 17.8 | -0.67 - 6.8 | 3.3/27.1  | 6160  |
| 1995 YA <sub>6</sub>   | 2000 10 29.1 | 02 14.82 +08 36.9 18.1 | -0.82 - 3.9 | 1.7/27.8 | 6192  | 1999 LL <sub>2</sub>   | 2000 10 29.4 | 02 16.15 +08 50.7 19.0 | -0.85 - 8.2 | 1.6/28.0  | 5579  |
| 1998 FA <sub>5</sub>   | 2000 10 29.1 | 02 14.82 +23 43.6 19.3 | -1.10 - 1.4 | 3.6/31.5 | 6205  | 2000 SH <sub>123</sub> | 2000 10 29.4 | 02 16.17 +04 43.1 17.7 | -0.97 - 4.1 | 4.0/27.2  | 5987  |
| 1999 JJ <sub>48</sub>  | 2000 10 29.1 | 02 14.84 +21 57.8 17.5 | -1.03 - 6.8 | 3.2/31.5 | 6231  | 2000 SU <sub>124</sub> | 2000 10 29.4 | 02 16.18 +11 58.5 17.1 | -1.01 - 2.5 | 0.6/29.1  | 5989  |
| 2000 RT <sub>6</sub>   | 2000 10 29.1 | 02 14.85 +03 33.6 18.5 | -0.77 -12.6 | 3.9/25.7 | 6316  | 1999 JM <sub>6</sub>   | 2000 10 29.4 | 02 16.25 +20 24.6 19.0 | -0.98 - 9.3 | 2.4/31.6  | 5535  |
| 2000 UG <sub>20</sub>  | 2000 10 29.1 | 02 14.90 +10 47.8 19.4 | -0.83 - 6.5 | 1.0/28.4 | 6117  | 2000 RB <sub>67</sub>  | 2000 10 29.4 | 02 16.26 +15 56.3 17.5 | -0.91 - 2.1 | 1.2/30.1  | 5918  |
| (17083)                | 2000 10 29.1 | 02 14.90 +23 46.6 16.2 | -1.92 +12.8 | 5.7/29.8 | 3021  | 2000 OW <sub>52</sub>  | 2000 10 29.5 | 02 16.19 +15 15.4 18.2 | -0.90 - 1.4 | 0.5/29.9  | 6282  |
| 1998 BR <sub>33</sub>  | 2000 10 29.1 | 02 14.92 +20 58.1 17.7 | -1.11 - 1.6 | 2.8/30.9 | 6202  | 2000 QG <sub>128</sub> | 2000 10 29.5 | 02 16.24 +06 51.6 17.6 | -0.71 - 7.8 | 2.7/27.4  | 6303  |
| 1996 TD <sub>13</sub>  | 2000 10 29.1 | 02 15.00 +15 29.7 16.8 | -1.00 - 3.0 | 0.9/29.7 | 6194  | 1994 EL <sub>2</sub>   | 2000 10 29.5 | 02 16.26 +25 43.9 18.5 | -1.08 - 2.0 | 3.8/01.4  | 6189  |
| 1993 FG <sub>33</sub>  | 2000 10 29.1 | 02 15.00 +09 16.4 17.7 | -0.85 - 3.9 | 1.4/28.0 | 31961 | 1998 HE <sub>125</sub> | 2000 10 29.5 | 02 16.29 -06 01.1 17.7 | -0.78 - 3.5 | 6.5/24.0  | 6214  |
| 1998 FP <sub>42</sub>  | 2000 10 29.1 | 02 15.08 +09 38.0 18.7 | -0.93 - 8.0 | 1.5/28.0 | 6207  | 1999 JM <sub>60</sub>  | 2000 10 29.5 | 02 16.40 +23 50.0 18.1 | -0.90 - 9.6 | 3.8/02.0  | 6232  |
| (17515)                | 2000 10 29.2 | 02 15.07 +07 34.2 16.9 | -0.97 - 3.4 | 2.2/27.7 | 4073  | 1999 JX <sub>71</sub>  | 2000 10 29.5 | 02 16.46 +07 04.2 19.4 | -0.98 - 3.3 | 2.3/27.9  | 5563  |
| (10357)                | 2000 10 29.2 | 02 15.07 +32 17.2 16.2 | -1.67 + 4.1 | 8.0/02.0 | 6176  | 2000 SV <sub>123</sub> | 2000 10 29.5 | 02 16.51 +12 16.0 17.1 | -1.23 + 5.4 | 0.6/29.4  | 6370  |
| 2000 SB <sub>123</sub> | 2000 10 29.2 | 02 15.08 +07 35.4 18.1 | -1.00 - 5.6 | 2.6/27.6 | 6370  | 2000 QB <sub>151</sub> | 2000 10 29.5 | 02 16.51 +24 55.5 17.6 | -1.10 - 4.3 | 4.7/01.6  | 6308  |
| 1993 FF <sub>53</sub>  | 2000 10 29.2 | 02 15.10 +10 52.4 18.6 | -0.87 - 3.3 | 0.9/28.5 | 6187  | 1988 GS                | 2000 10 29.5 | 02 16.55 +16 27.1 17.2 | -1.08 - 3.1 | 1.0/30.2  | 5387  |
| (11552)                | 2000 10 29.2 | 02 15.15 -05 05.0 17.3 | -0.51 - 2.8 | 3.6/23.7 | 35846 | 2000 SR <sub>124</sub> | 2000 10 29.5 | 02 16.55 +08 32.7 18.4 | -0.98 - 4.6 | 1.8/28.3  | 5988  |
| 1999 GX <sub>33</sub>  | 2000 10 29.2 | 02 15.28 +13 44.8 18.6 | -1.09 - 1.0 | 0.1/29.3 | 6226  | 2000 SS <sub>123</sub> | 2000 10 29.5 | 02 16.63 +05 10.8 17.4 | -0.95 - 4.9 | 3.6/27.4  | 5987  |
| 1997 EP                | 2000 10 29.2 | 02 15.29 +29 42.3 19.3 | -0.91 - 2.8 | 4.7/02.7 | 6197  | 1996 XQ <sub>6</sub>   | 2000 10 29.5 | 02 16.66 +13 32.6 16.4 | -1.17 + 2.1 | 0.1/29.6  | 6196  |
| 2000 SR <sub>4</sub>   | 2000 10 29.2 | 02 15.31 +03 02.6 16.6 | -1.01 + 1.2 | 4.6/27.1 | 6340  | 1999 JY <sub>12</sub>  | 2000 10 29.6 | 02 16.61 +01 30.6 19.2 | -1.02 - 3.0 | 4.4/26.7  | 5536  |
| 2000 RJ <sub>71</sub>  | 2000 10 29.2 | 02 15.37 +07 00.9 17.8 | -0.80 - 9.7 | 3.2/27.2 | 6331  | (10746)                | 2000 10 29.6 | 02 16.69 +32 27.2 17.5 | -1.05 - 3.4 | 6.1/03.8  | 34756 |
| (18576)                | 2000 10 29.2 | 02 15.37 +01 07.8 17.3 | -1.07 - 3.0 | 5.6/26.3 | 5232  | 2000 SZ <sub>122</sub> | 2000 10 29.6 | 02 16.80 +08 41.1 18.3 | -0.84 - 3.9 | 1.7/28.3  | 6369  |
| 1998 DM <sub>10</sub>  | 2000 10 29.2 | 02 15.42 +08 49.2 18.0 | -0.90 - 8.5 | 2.0/27.9 | 5445  | 2000 PN <sub>6</sub>   | 2000 10 29.6 | 02 16.87 -31 58.9 17.7 | -0.64 - 9.7 | 21.1/13.0 | 4975  |
| 2000 RT <sub>73</sub>  | 2000 10 29.2 | 02 15.47 +11 30.0 16.5 | -0.75 - 7.4 | 1.0/28.7 | 6332  | 2000 TV <sub>32</sub>  | 2000 10 29.6 | 02 16.90 +07 56.6 18.9 | -0.89 - 5.7 | 2.2/28.1  | 6098  |
| 2000 SR <sub>230</sub> | 2000 10 29.2 | 02 15.48 +14 13.5 18.0 | -0.95 - 3.4 | 0.3/29.5 | 6393  | (10878)                | 2000 10 29.6 | 02 16.93 +11 07.9 17.0 | -0.99 - 3.3 | 0.9/29.0  | 34791 |
| 2000 SQ <sub>170</sub> | 2000 10 29.2 | 02 15.49 +16 42.8 18.3 | -1.00 - 0.2 | 1.1/30.0 | 6019  | (11414)                | 2000 10 29.6 | 02 17.00 +13 14.2 18.0 | -1.02 - 4.8 | 0.2/29.6  | 35595 |
| 1999 RP <sub>44</sub>  | 2000 10 29.3 | 02 15.42 +25 44.4 18.3 | -0.83 - 4.8 | 3.5/01.8 | 6244  | 2000 SN <sub>158</sub> | 2000 10 29.6 | 02 17.01 +10 13.2 18.8 | -0.85 - 3.5 | 1.1/28.8  | 6013  |
| 1991 PR <sub>2</sub>   | 2000 10 29.3 | 02 15.47 +36 35.6 18.5 | -1.11 - 3.6 | 8.3/05.0 | 5392  | 2000 RK <sub>7</sub>   | 2000 10 29.6 | 02 17.03 +21 11.8 17.0 | -1.32 + 4.0 | 2.9/30.9  | 6316  |
| (10838)                | 2000 10 29.3 | 02 15.50 +23 34.7 17.6 | -1.10 - 1.3 | 3.4/31.7 | 34780 | 2000 RZ <sub>45</sub>  | 2000 10 29.7 | 02 17.01 +19 35.1 16.7 | -0.91 - 8.2 | 2.8/31.5  | 5908  |
| (11929)                | 2000 10 29.3 | 02 15.53 +01 49.7 18.8 | -0.80 - 4.4 | 3.2/26.1 | 36254 | (13003)                | 2000 10 29.7 | 02 17.11 -09 59.8 18.3 | -0.83 - 8.7 | 6.9/22.0  | 37487 |
| 2000 SY <sub>292</sub> | 2000 10 29.3 | 02 15.56 +25 03.7 17.6 | -0.84 - 6.5 | 3.4/01.8 | 6076  | 1999 JG <sub>58</sub>  | 2000 10 29.7 | 02 17.14 +16 54.5 19.3 | -1.00 - 5.2 | 1.1/30.6  | 5554  |
| 1999 JL <sub>122</sub> | 2000 10 29.3 | 02 15.61 +13 19.5 17.5 | -1.10 - 3.7 | 0.1/29.3 | 6237  | (11637)                | 2000 10 29.7 | 02 17.15 -04 37.1 16.6 | -0.88 - 3.5 | 6.7/24.6  | 35868 |
| (17057)                | 2000 10 29.3 | 02 15.62 +07 43.1 17.1 | -0.95 - 6.5 | 2.2/27.7 | 3014  | 2000 QU <sub>1</sub>   | 2000 10 29.7 | 02 17.22 +23 11.7 17.8 | -1.34 + 3.7 | 4.6/31.4  | 5834  |
| (16415)                | 2000 10 29.3 | 02 15.64 +04 22.5 16.3 | -0.75 -10.8 | 3.9/26.3 | 2827  | 1989 SY <sub>4</sub>   | 2000 10 29.7 | 02 17.24 +09 22.0 17.7 | -0.95 - 0.7 | 2.3/28.8  | 6182  |
| 1999 KK <sub>14</sub>  | 2000 10 29.3 | 02 15.69 +01 23.9 18.4 | -0.98 - 3.1 | 4.4/26.4 | 4503  | 2000 RO <sub>54</sub>  | 2000 10 29.7 | 02 17.24 +29 44.9 17.7 | -0.92 - 3.8 | 5.6/03.3  | 6328  |
| 2000 SP <sub>123</sub> | 2000 10 29.3 | 02 15.74 +07 48.2 17.1 | -1.07 - 0.0 | 2.0/28.2 | 5987  | 1999 SA <sub>7</sub>   | 2000 10 29.7 | 02 17.28 +40 23.5 17.3 | -1.11 + 0.5 | 8.0/05.4  | 6254  |
| 2000 RQ <sub>49</sub>  | 2000 10 29.3 | 02 15.75 +18 26.4 17.1 | -1.07 - 1.0 | 1.6/30.5 | 6327  | 2000 SL <sub>128</sub> | 2000 10 29.7 | 02 17.28 +06 20.4 19.2 | -0.89 - 5.9 | 2.8/27.7  | 5992  |
| 1998 FJ <sub>37</sub>  | 2000 10 29.3 | 02 15.75 +33 10.8 16.4 | -1.22 + 0.2 | 7.7/03.0 | 4379  | 1999 JY <sub>13</sub>  | 2000 10 29.7 | 02 17.39 +30 49.7 18.2 | -0.93 -17.8 | 6.2/05.4  | 5537  |
| (17803)                | 2000 10 29.3 | 02 15.76 +16 16.1 17.1 | -1.01 - 4.2 | 1.1/30.1 | 4157  | 2000 RV <sub>73</sub>  | 2000 10 29.7 | 02 17.40 +03 49.7 18.7 | -0.72 -11.3 | 3.9/26.4  | 6332  |
| 2000 SE <sub>170</sub> | 2000 10 29.3 | 02 15.80 +14 08.6 17.2 | -0.86 - 8.6 | 0.2/29.5 | 6019  | (18697)                | 2000 10 29.7 | 02 17.41 +14 34.1 18.4 | -0.82 - 3.8 | 0.3/30.0  | 5268  |
| 1995 QK <sub>1</sub>   | 2000 10 29.3 | 02 15.82 +06 15.5 19.3 | -0.84 - 5.6 | 2.5/27.3 | 5411  | 2000 OD <sub>52</sub>  | 2000 10 29.7 | 02 17.43 +23 59.7 16.3 | -1.23 + 0.9 | 4.0/31.9  | 6281  |
| 1998 AD <sub>3</sub>   | 2000 10 29.4 | 02 15.87 +16 41.5 19.0 | -1.01 - 4.7 | 1.1/30.2 | 6200  | 2000 UU <sub>34</sub>  | 2000 10 29.8 | 02 17.36 +15 23.8 17.2 | -0.97 - 5.5 | 0.8/30.2  | 6123  |
| 2000 SD <sub>7</sub>   | 2000 10 29.4 | 02 15.89 -00 09.1 17.1 | -0.94 - 3.1 | 6.3/26.0 | 6341  | 2000 SM <sub>123</sub> | 2000 10 29.8 | 02 17.37 +06 57.7 17.0 | -1.14 - 1.0 | 3.1/28.3  | 6370  |
| 1996 RP <sub>12</sub>  | 2000 10 29.4 | 02 15.93 +04 23.0 18.0 | -0.90 - 7.4 | 3.8/26.7 | 6193  | 1999 JN <sub>96</sub>  | 2000 10 29.8 | 02 17.44 +06 00.9 18.0 | -0.84 - 9.2 | 2.8/27.4  | 6236  |
| 2000 SN <sub>154</sub> | 2000 10 29.4 | 02 15.94 +11 17.4 18.6 | -1.00 - 5.8 | 1.0/28.8 | 6008  | 2000 UF <sub>63</sub>  | 2000 10 29.8 | 02 17.46 +18 58.5 17.5 | -0.94 - 5.1 | 2.0/31.2  | 6129  |
| (11633)                | 2000 10 29.4 | 02 15.95 +07 29.5 17.8 | -0.88 - 2.4 | 1.8/27.9 | 35867 | 3768 T-3               | 2000 10 29.8 | 02 17.46 +12 32.6 19.7 | -0.79 - 3.7 | 0.3/29.5  | 6171  |
| 2000 SH <sub>218</sub> | 2000 10 29.4 | 02 15.96 -00 47.3 17.5 | -0.85 - 3.3 | 7.2/25.6 | 6041  | 1996 HC <sub>2</sub>   | 2000 10 29.8 | 02 17.47 +04 42.7 18.4 | -1.08 - 4.3 | 3.6/27.6  | 6193  |
| 2000 RH <sub>47</sub>  | 2000 10 29.4 | 02 15.96 +18 11.2 16.9 | -0.98 - 3.9 | 2.1/30.6 | 6326  | 2000 SS <sub>177</sub> | 2000 10 29.8 | 02 17.54 +25 14.5 19.3 | -0.88 - 2.0 | 3.1/01.8  | 6024  |
| 1999 JE <sub>2</sub>   | 2000 10 29.4 | 02 15.99 -00 33.6 18.2 | -0.84 - 9.9 | 5.5/25.0 | 5533  | 2000 UE <sub>6</sub>   | 2000 10 29.8 | 02 17.55 +11 15.9 18.3 | -0.77 - 7.0 | 0.8/29.1  | 6109  |
| 2000 SS <sub>170</sub> | 2000 10 29.4 | 02 16.07 +17 05.5 17.7 | -1.13 + 0.9 | 1.4/30.2 | 6382  | 2000 SU <sub>42</sub>  | 2000 10 29.8 | 02 17.68 +01 48.6 17.5 | -1.04 - 0.9 | 5.5/27.1  | 6349  |
| 2000 UY <sub>3</sub>   | 2000 10 29.4 | 02 16.13 +17 11.1 19.6 | -1.02 - 4.6 | 1.5/30.4 | 6107  | (17553)                | 2000 10 29.8 | 02 17.75 +05 54.7 17.1 | -1.06 - 0.9 | 3.7/28.2  | 4084  |
| (17764)                | 2000 10 29.4 | 02 16.13 +09 02.1 16.1 | -0.76 - 7.8 | 2.1/28.0 | 4145  | (10675)                | 2000 10 29.8 | 02 17.77 +09 24.1 15.8 | -0.93 - 2.2 | 2.2/28.8  | 34738 |

|                        |              |                   |      |       |       |           |       |                        |              |                   |      |       |       |          |       |
|------------------------|--------------|-------------------|------|-------|-------|-----------|-------|------------------------|--------------|-------------------|------|-------|-------|----------|-------|
| 2000 UY <sub>34</sub>  | 2000 10 29.8 | 02 17.78 +16 59.1 | 17.6 | -0.95 | - 1.2 | 1.1/30.6  | 6123  | 1998 FE <sub>70</sub>  | 2000 10 30.4 | 02 20.03 +19 07.7 | 18.4 | -1.12 | + 0.7 | 1.9/31.5 | 6209  |
| 2000 SE <sub>123</sub> | 2000 10 29.8 | 02 17.79 +05 39.2 | 18.6 | -0.91 | - 5.0 | 3.3/27.7  | 6370  | 2000 SA <sub>123</sub> | 2000 10 30.4 | 02 20.03 +07 25.3 | 18.0 | -0.76 | - 5.5 | 2.3/28.6 | 6370  |
| (18542)                | 2000 10 29.8 | 02 17.80 +01 11.6 | 17.6 | -1.03 | - 0.1 | 4.4/27.2  | 5222  | 1998 BZ <sub>22</sub>  | 2000 10 30.4 | 02 20.07 +09 15.0 | 18.3 | -0.93 | - 3.8 | 1.7/29.3 | 6202  |
| 2000 RH <sub>66</sub>  | 2000 10 29.8 | 02 17.80 +07 45.5 | 17.2 | -1.06 | - 3.6 | 2.6/28.5  | 5918  | 2000 OV <sub>52</sub>  | 2000 10 30.4 | 02 20.15 +18 04.8 | 16.6 | -1.09 | + 2.1 | 1.5/31.3 | 6282  |
| (18724)                | 2000 10 29.9 | 02 17.80 +02 44.7 | 17.9 | -0.75 | - 3.6 | 3.0/26.9  | 5276  | (18699)                | 2000 10 30.5 | 02 20.15 +20 00.0 | 18.2 | -0.92 | - 3.9 | 2.0/01.1 | 5269  |
| (17806)                | 2000 10 29.9 | 02 17.84 +17 53.2 | 16.9 | -0.98 | - 6.6 | 1.8/31.1  | 4158  | 2000 SE <sub>271</sub> | 2000 10 30.5 | 02 20.18 +05 58.1 | 19.5 | -0.87 | - 6.0 | 2.5/28.3 | 6064  |
| 1999 JO <sub>3</sub>   | 2000 10 29.9 | 02 18.04 +24 07.0 | 18.9 | -1.16 | - 2.8 | 3.8/02.0  | 6227  | 1998 HF <sub>94</sub>  | 2000 10 30.5 | 02 20.20 +15 36.2 | 20.2 | -0.91 | - 3.1 | 0.4/30.9 | 32017 |
| 2000 RY <sub>71</sub>  | 2000 10 29.9 | 02 18.07 +19 49.2 | 16.4 | -1.11 | - 0.9 | 2.7/31.3  | 6331  | 2000 SM <sub>154</sub> | 2000 10 30.5 | 02 20.25 +11 04.1 | 18.5 | -0.78 | - 6.1 | 0.9/29.7 | 6008  |
| 2000 SD <sub>293</sub> | 2000 10 29.9 | 02 18.12 +25 01.8 | 18.0 | -0.82 | - 7.7 | 3.5/02.5  | 6077  | 2000 SO <sub>123</sub> | 2000 10 30.5 | 02 20.26 +07 01.8 | 16.9 | -0.92 | - 1.9 | 2.5/28.9 | 5987  |
| 2000 SK <sub>170</sub> | 2000 10 29.9 | 02 18.13 +17 03.7 | 17.8 | -0.98 | - 2.9 | 1.2/30.8  | 6019  | (16477)                | 2000 10 30.5 | 02 20.28 +15 33.7 | 16.8 | -1.12 | - 3.0 | 0.7/30.9 | 2845  |
| 2000 SG <sub>124</sub> | 2000 10 30.0 | 02 18.27 +09 36.7 | 18.2 | -0.82 | - 5.7 | 1.8/28.8  | 6370  | 1994 PD <sub>4</sub>   | 2000 10 30.5 | 02 20.30 +14 05.8 | 18.4 | -0.81 | - 4.0 | 0.0/30.6 | 6190  |
| (17675)                | 2000 10 30.0 | 02 18.28 +05 59.1 | 17.6 | -0.85 | - 4.4 | 2.9/27.9  | 4119  | 1998 DE <sub>15</sub>  | 2000 10 30.5 | 02 20.31 +11 49.1 | 18.5 | -0.94 | - 6.1 | 0.9/30.0 | 6204  |
| 2000 SJ <sub>158</sub> | 2000 10 30.0 | 02 18.35 +09 45.6 | 18.6 | -0.85 | - 3.7 | 1.3/29.0  | 6379  | 1999 JE <sub>48</sub>  | 2000 10 30.5 | 02 20.34 +24 45.7 | 17.6 | -0.90 | - 8.2 | 4.0/02.9 | 5548  |
| (17961)                | 2000 10 30.0 | 02 18.36 +10 11.3 | 16.4 | -1.09 | + 0.1 | 1.7/29.3  | 4204  | (17102)                | 2000 10 30.5 | 02 20.41 +05 41.0 | 16.5 | -0.92 | - 6.1 | 4.1/28.3 | 3027  |
| 1999 RT <sub>47</sub>  | 2000 10 30.0 | 02 18.39 +23 01.2 | 18.8 | -0.85 | - 3.0 | 2.8/01.5  | 6244  | 2000 RW <sub>6</sub>   | 2000 10 30.5 | 02 20.42 +03 04.8 | 17.7 | -0.78 | -10.9 | 4.3/27.0 | 6316  |
| 1998 HZ <sub>51</sub>  | 2000 10 30.0 | 02 18.42 +09 13.4 | 18.6 | -0.82 | - 5.9 | 1.5/28.7  | 5479  | 1996 SD <sub>7</sub>   | 2000 10 30.5 | 02 20.44 +22 27.4 | 16.4 | -0.83 | - 9.0 | 4.0/02.3 | 6194  |
| 1999 JZ <sub>59</sub>  | 2000 10 30.0 | 02 18.43 +11 04.0 | 19.0 | -0.98 | - 5.1 | 1.0/29.3  | 6232  | 1999 JK <sub>11</sub>  | 2000 10 30.5 | 02 20.50 +15 14.3 | 16.9 | -0.92 | - 9.3 | 0.6/31.0 | 6228  |
| 2000 RK <sub>47</sub>  | 2000 10 30.1 | 02 18.57 +23 01.3 | 17.4 | -1.07 | - 5.6 | 4.4/02.0  | 6327  | (9816)                 | 2000 10 30.6 | 02 20.46 +35 18.4 | 17.4 | -1.34 | + 3.0 | 7.9/03.7 | 36499 |
| 2000 RE <sub>46</sub>  | 2000 10 30.1 | 02 18.65 +25 11.2 | 17.7 | -1.05 | - 3.9 | 4.9/02.1  | 5908  | 1996 XH <sub>2</sub>   | 2000 10 30.6 | 02 20.47 +25 51.7 | 18.0 | -0.89 | -10.1 | 4.5/03.5 | 5423  |
| (11107)                | 2000 10 30.1 | 02 18.67 +17 26.2 | 16.1 | -0.78 | - 7.7 | 1.2/31.2  | 35239 | 1998 BF <sub>31</sub>  | 2000 10 30.6 | 02 20.47 +17 28.5 | 18.8 | -0.98 | - 5.1 | 1.6/31.5 | 5441  |
| (10825)                | 2000 10 30.1 | 02 18.71 +00 32.8 | 16.4 | -0.99 | - 2.4 | 6.3/27.0  | 34777 | 1998 CA <sub>2</sub>   | 2000 10 30.6 | 02 20.55 +01 24.6 | 18.4 | -1.04 | - 0.5 | 4.4/27.8 | 6202  |
| 2000 SF <sub>7</sub>   | 2000 10 30.1 | 02 18.73 -01 44.5 | 17.9 | -0.79 | - 6.2 | 4.8/25.6  | 5933  | 1998 FZ <sub>112</sub> | 2000 10 30.6 | 02 20.58 +16 35.8 | 18.3 | -0.88 | -10.0 | 0.9/31.4 | 5468  |
| 2000 RD <sub>67</sub>  | 2000 10 30.1 | 02 18.76 +10 04.9 | 17.2 | -0.84 | - 6.6 | 1.7/29.1  | 6330  | 1999 GL <sub>33</sub>  | 2000 10 30.6 | 02 20.60 +07 44.1 | 19.9 | -0.92 | - 8.1 | 2.1/28.8 | 5528  |
| 2169 P-L               | 2000 10 30.1 | 02 18.79 +21 55.2 | 18.8 | -1.11 | - 2.7 | 3.2/01.1  | 6437  | 1998 BS <sub>2</sub>   | 2000 10 30.6 | 02 20.80 +01 34.5 | 17.7 | -1.01 | - 4.1 | 5.0/27.5 | 6201  |
| (11019)                | 2000 10 30.1 | 02 18.83 +15 19.4 | 17.3 | -1.01 | - 4.3 | 0.5/30.5  | 35216 | 2000 SD <sub>218</sub> | 2000 10 30.6 | 02 20.84 -03 42.8 | 17.9 | -0.74 | - 9.4 | 7.6/24.6 | 6391  |
| 1998 DT <sub>4</sub>   | 2000 10 30.1 | 02 18.94 +02 15.2 | 18.3 | -0.92 | - 6.0 | 4.8/26.9  | 5444  | 1998 FG <sub>112</sub> | 2000 10 30.6 | 02 20.85 +26 53.3 | 19.2 | -0.93 | - 4.1 | 3.8/03.2 | 6210  |
| 1999 JO <sub>48</sub>  | 2000 10 30.2 | 02 18.92 +16 23.4 | 17.3 | -1.00 | - 3.1 | 1.0/30.8  | 5548  | 2000 SE <sub>88</sub>  | 2000 10 30.6 | 02 20.87 +04 28.4 | 17.1 | -0.95 | + 0.3 | 4.1/28.6 | 5968  |
| 2000 RX <sub>73</sub>  | 2000 10 30.2 | 02 18.97 +14 06.4 | 18.0 | -0.99 | - 6.1 | 0.1/30.3  | 6332  | 2000 SG <sub>339</sub> | 2000 10 30.6 | 02 20.94 -00 22.5 | 17.1 | -1.12 | + 7.8 | 7.6/29.0 | 6088  |
| (18601)                | 2000 10 30.2 | 02 19.05 +09 09.3 | 19.2 | -0.97 | - 4.4 | 1.6/29.0  | 5239  | 2000 SH <sub>88</sub>  | 2000 10 30.6 | 02 20.96 +09 30.7 | 15.3 | -1.14 | + 8.3 | 2.4/30.2 | 5969  |
| 1996 VY                | 2000 10 30.2 | 02 19.06 +15 20.7 | 18.5 | -0.89 | - 9.2 | 0.5/30.7  | 6195  | 2000 SJ <sub>88</sub>  | 2000 10 30.7 | 02 21.08 +06 33.0 | 17.5 | -1.09 | + 1.6 | 3.0/29.3 | 5969  |
| 2000 RQ <sub>54</sub>  | 2000 10 30.2 | 02 19.09 +32 38.1 | 18.0 | -1.08 | - 3.5 | 6.3/04.4  | 6328  | (11094)                | 2000 10 30.7 | 02 21.09 +16 22.6 | 17.8 | -0.82 | - 4.5 | 0.7/31.4 | 4878  |
| 2000 SC <sub>276</sub> | 2000 10 30.2 | 02 19.13 +11 39.8 | 18.2 | -1.13 | - 2.5 | 0.9/29.7  | 6068  | 2000 RS <sub>71</sub>  | 2000 10 30.7 | 02 21.12 +14 10.7 | 16.7 | -0.87 | - 5.8 | 0.1/30.8 | 5919  |
| 2000 SS <sub>220</sub> | 2000 10 30.2 | 02 19.20 +01 07.3 | 17.8 | -0.96 | - 4.5 | 4.7/26.9  | 6042  | 2000 SC <sub>123</sub> | 2000 10 30.7 | 02 21.15 +05 12.1 | 17.9 | -0.79 | - 8.1 | 3.4/28.1 | 6370  |
| 1996 XX                | 2000 10 30.2 | 02 19.23 -01 29.8 | 17.4 | -1.05 | + 1.4 | 5.9/27.3  | 6196  | (16773)                | 2000 10 30.7 | 02 21.27 +15 42.2 | 14.8 | -1.18 | + 3.3 | 0.7/31.1 | 2930  |
| 2000 TP <sub>58</sub>  | 2000 10 30.2 | 02 19.29 +07 28.2 | 17.4 | -0.97 | - 4.4 | 2.9/28.6  | 6102  | 2000 SX <sub>123</sub> | 2000 10 30.7 | 02 21.30 +08 24.2 | 17.7 | -0.91 | - 2.4 | 2.1/29.4 | 6370  |
| 2000 ST <sub>261</sub> | 2000 10 30.2 | 02 19.31 +01 51.9 | 18.7 | -0.86 | - 6.5 | 4.3/26.9  | 6398  | (12080)                | 2000 10 30.7 | 02 21.31 +25 17.2 | 16.6 | -0.85 | - 5.5 | 3.4/03.1 | 36295 |
| 2000 SB <sub>274</sub> | 2000 10 30.3 | 02 19.33 +12 12.5 | 17.9 | -0.88 | - 5.5 | 0.6/29.8  | 6065  | (17625)                | 2000 10 30.8 | 02 21.26 -14 35.0 | 18.1 | -0.77 | - 2.0 | 9.9/22.6 | 4104  |
| 2000 SF <sub>124</sub> | 2000 10 30.3 | 02 19.33 +09 24.1 | 17.3 | -0.90 | - 7.9 | 2.0/29.0  | 5988  | (10719)                | 2000 10 30.8 | 02 21.32 +15 26.7 | 16.0 | -0.99 | - 4.1 | 0.6/31.2 | 34749 |
| 1999 NO <sub>1</sub>   | 2000 10 30.3 | 02 19.38 +47 07.9 | 17.2 | -1.13 | - 8.2 | 9.9/11.3  | 5582  | 1999 JY <sub>100</sub> | 2000 10 30.8 | 02 21.34 -10 43.4 | 17.5 | -0.84 | - 4.5 | 9.6/23.7 | 5572  |
| (11036)                | 2000 10 30.3 | 02 19.47 +09 06.8 | 16.9 | -0.93 | - 3.9 | 1.9/29.1  | 3859  | 2000 RX <sub>75</sub>  | 2000 10 30.8 | 02 21.51 +27 50.5 | 17.6 | -1.10 | - 3.8 | 6.2/03.5 | 6332  |
| 2000 UD <sub>63</sub>  | 2000 10 30.3 | 02 19.49 +19 53.5 | 17.2 | -0.86 | - 6.9 | 2.1/01.1  | 6128  | (18404)                | 2000 10 30.8 | 02 21.57 +17 35.8 | 16.9 | -0.97 | - 1.9 | 1.1/31.7 | 5183  |
| 2000 QS <sub>129</sub> | 2000 10 30.3 | 02 19.50 +13 19.6 | 17.1 | -1.21 | - 0.6 | 0.3/30.2  | 6303  | 1995 VK <sub>2</sub>   | 2000 10 30.8 | 02 21.71 +03 22.6 | 17.8 | -0.88 | - 0.8 | 3.7/28.4 | 5413  |
| 2000 OT <sub>52</sub>  | 2000 10 30.3 | 02 19.51 +24 06.6 | 16.4 | -1.16 | - 1.0 | 4.8/01.6  | 6282  | 1999 KQ <sub>6</sub>   | 2000 10 30.9 | 02 21.67 -01 43.1 | 21.7 | -0.86 | - 4.0 | 4.3/26.8 | 35737 |
| 2000 SS <sub>154</sub> | 2000 10 30.3 | 02 19.59 +09 58.9 | 17.5 | -1.11 | - 2.4 | 1.7/29.5  | 6378  | 1998 EZ <sub>12</sub>  | 2000 10 30.9 | 02 21.71 +20 47.3 | 18.3 | -0.98 | - 2.1 | 2.2/01.5 | 5452  |
| (18705)                | 2000 10 30.3 | 02 19.70 +13 59.0 | 18.4 | -0.78 | - 3.5 | 0.0/30.4  | 5270  | (18700)                | 2000 10 30.9 | 02 21.72 +14 42.5 | 17.8 | -0.78 | - 6.9 | 0.2/31.1 | 5269  |
| (18773)                | 2000 10 30.3 | 02 19.71 +13 26.2 | 17.7 | -1.05 | - 4.8 | 0.2/30.3  | 5291  | 2000 SR <sub>170</sub> | 2000 10 30.9 | 02 21.75 +16 08.4 | 17.1 | -0.95 | - 0.6 | 0.7/31.4 | 6382  |
| 2000 RV <sub>36</sub>  | 2000 10 30.4 | 02 19.79 +38 49.8 | 17.4 | -2.02 | +13.2 | 12.8/02.0 | 6323  | 2000 TQ <sub>59</sub>  | 2000 10 30.9 | 02 21.80 -11 01.4 | 18.2 | -0.90 | - 2.2 | 8.6/24.5 | 6103  |
| 2000 RW <sub>60</sub>  | 2000 10 30.4 | 02 19.79 +24 09.7 | 17.7 | -1.09 | - 7.2 | 4.4/02.3  | 6329  | 1997 YS <sub>13</sub>  | 2000 10 30.9 | 02 21.81 +14 42.3 | 19.3 | -0.99 | - 4.9 | 0.2/31.1 | 6200  |
| 1606 T-2               | 2000 10 30.4 | 02 19.87 +23 00.5 | 17.8 | -0.88 | - 3.4 | 3.2/01.8  | 6156  | (18602)                | 2000 10 30.9 | 02 21.90 +08 32.2 | 17.9 | -0.97 | - 4.3 | 1.9/29.5 | 5239  |
| 2000 SD <sub>287</sub> | 2000 10 30.4 | 02 19.96 +33 25.2 | 18.8 | -1.11 | - 4.8 | 7.3/04.8  | 6074  | (18032)                | 2000 10 30.9 | 02 21.97 +27 39.4 | 17.6 | -0.89 | - 6.1 | 4.0/04.0 | 4225  |
| (17989)                | 2000 10 30.4 | 02 19.98 +04 09.0 | 17.0 | -0.92 | - 2.0 | 3.3/28.2  | 4213  | 2000 SO <sub>128</sub> | 2000 10 30.9 | 02 21.97 +05 06.1 | 18.3 | -1.03 | - 5.2 | 3.4/28.6 | 5992  |

|                        |              |                        |             |           |       |                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|------------------------|--------------|------------------------|-------------|----------|-------|
| 2000 RX <sub>54</sub>  | 2000 10 30.9 | 02 22.02 +38 15.3 17.6 | -1.36 + 1.8 | 8.9/05.5  | 6328  | 2000 SW <sub>154</sub> | 2000 10 31.3 | 02 23.41 +12 52.0 17.9 | -0.80 - 3.5 | 0.5/31.0 | 6009  |
| 1998 HA <sub>118</sub> | 2000 10 30.9 | 02 22.02 +00 38.1 19.7 | -0.83 - 3.8 | 3.9/27.4  | 32271 | 1981 EB <sub>32</sub>  | 2000 10 31.3 | 02 23.41 +21 10.6 19.4 | -0.80 - 5.7 | 2.0/02.3 | 26921 |
| 1998 KM <sub>7</sub>   | 2000 10 30.9 | 02 22.02 +01 21.3 19.0 | -0.81 - 1.6 | 3.5/27.8  | 5487  | 1981 DW <sub>1</sub>   | 2000 10 31.3 | 02 23.43 +21 08.6 20.9 | -0.91 - 5.4 | 2.1/02.2 | 26914 |
| 1998 FK <sub>119</sub> | 2000 10 30.9 | 02 22.06 +12 41.3 19.4 | -0.86 - 9.7 | 0.5/30.5  | 6210  | 1993 ST <sub>2</sub>   | 2000 10 31.3 | 02 23.50 +08 56.2 16.5 | -0.87 - 8.4 | 2.6/29.8 | 6188  |
| (10678)                | 2000 10 30.9 | 02 22.10 +20 32.3 17.6 | -1.04 - 7.8 | 2.6/02.0  | 34738 | 1999 JJ <sub>74</sub>  | 2000 10 31.3 | 02 23.53 +03 44.3 17.8 | -1.08 - 2.6 | 4.8/29.0 | 6234  |
| 2000 QQ <sub>149</sub> | 2000 10 30.9 | 02 22.10 +21 45.3 17.4 | -0.94 - 0.5 | 2.4/01.8  | 5880  | 2000 RT <sub>67</sub>  | 2000 10 31.3 | 02 23.53 +07 01.9 17.4 | -0.88 - 7.9 | 3.3/29.2 | 6330  |
| 1999 GX <sub>31</sub>  | 2000 10 31.0 | 02 22.12 +08 37.9 17.7 | -1.07 - 2.4 | 2.4/29.8  | 6226  | 2000 SD <sub>163</sub> | 2000 10 31.3 | 02 23.53 +19 49.8 18.4 | -0.95 - 3.1 | 2.1/01.8 | 6014  |
| 2000 TC <sub>27</sub>  | 2000 10 31.0 | 02 22.13 +06 37.2 19.3 | -0.73 - 9.1 | 2.3/28.6  | 6096  | 2000 SF <sub>274</sub> | 2000 10 31.4 | 02 23.63 +09 04.7 18.9 | -0.89 - 4.5 | 1.8/30.0 | 6065  |
| 2000 QO <sub>149</sub> | 2000 10 31.0 | 02 22.14 +14 18.0 16.1 | -0.86 - 7.2 | 0.1/31.1  | 6307  | (18692)                | 2000 10 31.4 | 02 23.72 -03 42.4 18.4 | -0.78 - 3.1 | 5.2/26.7 | 5267  |
| (16869)                | 2000 10 31.0 | 02 22.17 +11 51.2 16.5 | -0.93 - 8.1 | 1.1/30.4  | 2958  | 2000 RS <sub>54</sub>  | 2000 10 31.4 | 02 23.74 +32 15.7 18.4 | -1.20 - 4.7 | 6.7/05.3 | 6328  |
| 1999 JF <sub>84</sub>  | 2000 10 31.0 | 02 22.23 -11 12.8 18.0 | -0.95 - 0.3 | 9.3/25.3  | 5568  | 1999 JP <sub>89</sub>  | 2000 10 31.4 | 02 23.77 -03 12.8 17.6 | -0.90 - 3.2 | 6.9/27.1 | 6235  |
| (11959)                | 2000 10 31.0 | 02 22.26 -05 21.6 18.1 | -0.84 - 4.7 | 5.9/25.6  | 36262 | 2700 P-L               | 2000 10 31.4 | 02 23.86 +10 46.5 18.4 | -0.92 - 5.7 | 1.4/30.5 | 6135  |
| 2000 RJ <sub>66</sub>  | 2000 10 31.0 | 02 22.26 +01 22.2 17.5 | -0.84 - 7.3 | 4.1/27.3  | 6330  | 2000 SV <sub>170</sub> | 2000 10 31.4 | 02 23.90 +13 52.1 18.2 | -0.91 - 5.8 | 0.2/31.4 | 6020  |
| 2000 UN <sub>20</sub>  | 2000 10 31.0 | 02 22.37 +12 06.9 19.2 | -0.87 - 3.3 | 0.7/30.6  | 6117  | 1998 FK <sub>57</sub>  | 2000 10 31.4 | 02 24.02 +18 09.0 19.7 | -0.96 - 3.8 | 1.2/01.5 | 6208  |
| 1999 JL <sub>99</sub>  | 2000 10 31.0 | 02 22.37 -18 55.2 16.5 | -0.94 + 5.0 | 15.0/24.7 | 6236  | 1999 JY <sub>80</sub>  | 2000 10 31.5 | 02 23.98 -10 03.2 16.8 | -0.83 - 3.5 | 9.7/24.9 | 6235  |
| (18457)                | 2000 10 31.0 | 02 22.38 +13 39.2 17.6 | -1.04 - 5.0 | 0.2/30.9  | 5198  | 1997 YL <sub>14</sub>  | 2000 10 31.5 | 02 23.99 +16 04.5 17.5 | -1.00 - 6.2 | 0.7/32.0 | 6200  |
| (18636)                | 2000 10 31.0 | 02 22.39 +10 59.3 18.3 | -0.82 - 4.7 | 1.0/30.2  | 5249  | 2000 SM <sub>170</sub> | 2000 10 31.5 | 02 24.02 +13 08.6 17.7 | -0.80 - 8.8 | 0.4/31.2 | 6019  |
| 1998 FC <sub>70</sub>  | 2000 10 31.0 | 02 22.42 +04 57.0 17.8 | -0.85 - 5.4 | 3.3/28.5  | 6209  | 1999 RD <sub>59</sub>  | 2000 10 31.5 | 02 24.03 +30 24.5 19.0 | -0.91 - 2.8 | 4.5/04.8 | 5596  |
| 2000 RH <sub>4</sub>   | 2000 10 31.0 | 02 22.47 +09 13.3 16.2 | -1.09 - 0.9 | 2.2/30.0  | 6315  | (10472)                | 2000 10 31.5 | 02 24.05 +10 38.7 18.1 | -1.02 - 5.7 | 1.4/30.6 | 34429 |
| 2000 SE <sub>7</sub>   | 2000 10 31.1 | 02 22.42 +00 33.8 17.7 | -0.82 - 2.5 | 6.7/27.6  | 6341  | 2000 RZ <sub>71</sub>  | 2000 10 31.5 | 02 24.15 +12 55.8 16.7 | -0.96 - 8.2 | 0.6/31.1 | 5919  |
| 2000 UP <sub>20</sub>  | 2000 10 31.1 | 02 22.46 +09 44.8 18.9 | -0.89 - 4.6 | 2.1/29.9  | 6117  | 2000 SC <sub>269</sub> | 2000 10 31.5 | 02 24.16 +06 55.3 18.4 | -1.01 - 1.4 | 2.4/29.9 | 6062  |
| 1998 FN <sub>65</sub>  | 2000 10 31.1 | 02 22.48 +11 51.8 19.0 | -0.78 - 6.7 | 0.7/30.4  | 5463  | 2000 RH <sub>6</sub>   | 2000 10 31.5 | 02 24.23 +10 16.5 17.9 | -0.87 - 8.3 | 2.1/30.4 | 6316  |
| 1999 NS <sub>42</sub>  | 2000 10 31.1 | 02 22.50 +28 30.8 19.4 | -0.86 - 3.7 | 4.0/04.2  | 2649  | 2000 RB <sub>51</sub>  | 2000 10 31.5 | 02 24.28 +14 51.1 15.8 | -0.84 - 5.9 | 0.3/31.7 | 6327  |
| 2000 SG <sub>88</sub>  | 2000 10 31.1 | 02 22.57 +03 02.4 18.2 | -0.90 - 2.4 | 3.6/28.4  | 5969  | 1998 KX <sub>54</sub>  | 2000 10 31.5 | 02 24.41 -18 36.3 18.8 | -0.80 - 0.8 | 8.7/22.7 | 32336 |
| 2000 SM <sub>274</sub> | 2000 10 31.1 | 02 22.59 +13 02.0 19.0 | -0.87 - 5.2 | 0.4/30.8  | 6066  | (19009)                | 2000 10 31.5 | 02 24.44 +20 26.4 16.8 | -1.02 - 1.1 | 2.6/02.0 | 5360  |
| 2000 SO <sub>274</sub> | 2000 10 31.1 | 02 22.60 +12 28.2 17.0 | -1.08 - 2.9 | 0.8/30.7  | 6066  | 2000 UX <sub>62</sub>  | 2000 10 31.5 | 02 24.46 +21 34.0 18.5 | -0.98 - 4.4 | 3.3/02.5 | 6128  |
| 2000 SJ <sub>271</sub> | 2000 10 31.1 | 02 22.68 +05 19.0 18.5 | -0.96 - 2.7 | 3.5/29.1  | 6064  | 2000 SZ <sub>123</sub> | 2000 10 31.6 | 02 24.45 +07 37.6 17.3 | -0.93 - 5.1 | 3.0/29.9 | 6370  |
| 1996 TU <sub>5</sub>   | 2000 10 31.1 | 02 22.74 +13 05.5 19.0 | -0.89 - 5.5 | 0.5/30.9  | 5419  | 1996 VT <sub>22</sub>  | 2000 10 31.6 | 02 24.49 +09 14.4 19.2 | -0.81 -11.7 | 2.1/30.0 | 5422  |
| 2000 SG <sub>274</sub> | 2000 10 31.1 | 02 22.75 +11 58.4 17.7 | -1.06 - 2.5 | 0.9/30.7  | 6066  | 1999 NS <sub>55</sub>  | 2000 10 31.6 | 02 24.52 -01 52.1 17.9 | -0.70 - 6.7 | 4.5/26.7 | 6241  |
| 1994 PE <sub>19</sub>  | 2000 10 31.1 | 02 22.77 +20 36.0 17.9 | -0.87 - 3.2 | 2.1/02.0  | 5406  | (19037)                | 2000 10 31.6 | 02 24.53 +08 57.3 18.2 | -0.98 - 5.0 | 2.5/30.3 | 5368  |
| (17571)                | 2000 10 31.1 | 02 22.82 +04 58.9 17.0 | -0.77 - 4.4 | 3.0/28.7  | 4088  | 1998 JR <sub>2</sub>   | 2000 10 31.6 | 02 24.55 +00 16.1 19.0 | -0.81 - 2.2 | 4.2/28.1 | 5486  |
| 1999 JB <sub>77</sub>  | 2000 10 31.1 | 02 22.84 -03 19.6 17.4 | -0.97 - 4.1 | 7.7/26.7  | 6234  | 1995 GW                | 2000 10 31.6 | 02 24.56 +15 06.8 16.5 | -1.15 - 1.6 | 0.3/31.8 | 6191  |
| 2000 SW <sub>123</sub> | 2000 10 31.1 | 02 22.85 +08 12.2 18.3 | -0.85 - 1.2 | 1.9/29.8  | 5988  | 4283 T-3               | 2000 10 31.6 | 02 24.59 +18 50.9 18.1 | -1.04 + 1.3 | 1.4/01.6 | 6172  |
| 2000 RP <sub>12</sub>  | 2000 10 31.1 | 02 22.89 +14 30.0 17.1 | -1.17 - 2.1 | 0.1/31.3  | 6317  | 2000 SM <sub>128</sub> | 2000 10 31.6 | 02 24.67 +04 44.0 17.6 | -0.99 - 5.9 | 3.7/29.1 | 5992  |
| (17946)                | 2000 10 31.2 | 02 22.81 +03 20.5 18.7 | -0.95 - 5.7 | 4.1/28.3  | 4200  | 2000 SU <sub>230</sub> | 2000 10 31.6 | 02 24.67 +14 35.6 18.5 | -1.11 - 2.8 | 0.1/31.7 | 6050  |
| 2000 SL <sub>158</sub> | 2000 10 31.2 | 02 22.86 +09 18.0 18.0 | -0.89 - 6.9 | 2.4/29.8  | 6012  | 1998 HH <sub>41</sub>  | 2000 10 31.6 | 02 24.67 +09 42.2 18.5 | -0.91 - 5.1 | 1.8/30.4 | 5478  |
| 2000 RJ <sub>46</sub>  | 2000 10 31.2 | 02 22.92 +24 15.1 17.1 | -1.07 - 2.0 | 5.0/02.7  | 6326  | 1998 HG <sub>21</sub>  | 2000 10 31.6 | 02 24.72 +14 37.6 16.1 | -0.96 - 2.7 | 0.1/31.7 | 6212  |
| 2000 UH <sub>6</sub>   | 2000 10 31.2 | 02 22.95 +15 50.9 17.7 | -1.11 - 1.9 | 0.8/31.6  | 6420  | 2000 SF <sub>269</sub> | 2000 10 31.6 | 02 24.77 +07 27.2 18.0 | -0.97 - 3.0 | 3.2/30.0 | 6062  |
| 2000 TU <sub>27</sub>  | 2000 10 31.2 | 02 22.97 +09 14.3 19.0 | -0.83 - 4.1 | 1.8/29.9  | 6096  | 1998 FP <sub>30</sub>  | 2000 10 31.6 | 02 24.81 +00 01.4 19.0 | -0.76 - 6.3 | 4.0/27.5 | 36528 |
| 2000 RH <sub>48</sub>  | 2000 10 31.2 | 02 22.97 +35 40.4 16.8 | -1.28 + 2.1 | 9.2/04.8  | 6327  | 2000 RE <sub>7</sub>   | 2000 10 31.7 | 02 24.78 +07 04.4 18.6 | -0.89 - 8.1 | 3.3/29.6 | 6316  |
| (18536)                | 2000 10 31.2 | 02 23.02 +10 00.3 18.1 | -0.88 - 3.6 | 1.5/30.2  | 5220  | 1998 KN <sub>8</sub>   | 2000 10 31.7 | 02 24.81 -08 56.4 19.0 | -0.87 + 0.4 | 6.5/26.4 | 5487  |
| (15674)                | 2000 10 31.2 | 02 23.07 +06 18.2 17.6 | -0.94 - 6.9 | 3.1/29.1  | 1672  | 2000 SG <sub>260</sub> | 2000 10 31.7 | 02 24.81 +14 25.8 18.2 | -0.91 - 5.5 | 0.0/31.7 | 6058  |
| 1994 PU <sub>4</sub>   | 2000 10 31.2 | 02 23.15 +10 42.1 19.4 | -0.80 - 4.1 | 1.0/30.3  | 35690 | 2000 RH <sub>7</sub>   | 2000 10 31.7 | 02 24.82 +15 11.8 16.3 | -1.08 - 3.1 | 0.3/31.9 | 6316  |
| 2000 QY <sub>127</sub> | 2000 10 31.2 | 02 23.17 +09 05.4 16.8 | -0.72 - 7.5 | 2.5/29.7  | 6303  | 2000 SD <sub>260</sub> | 2000 10 31.7 | 02 24.82 +06 07.4 18.7 | -0.89 - 1.8 | 3.5/29.8 | 6058  |
| 1998 ES <sub>11</sub>  | 2000 10 31.2 | 02 23.18 +13 11.0 18.7 | -0.99 - 3.2 | 0.4/31.0  | 6205  | 1999 LJ <sub>13</sub>  | 2000 10 31.7 | 02 24.83 +00 37.5 18.6 | -0.96 - 4.6 | 5.1/28.2 | 5580  |
| 2000 SQ <sub>274</sub> | 2000 10 31.2 | 02 23.28 +15 55.6 17.8 | -1.19 + 2.4 | 0.8/31.6  | 6401  | 1988 CQ <sub>5</sub>   | 2000 10 31.7 | 02 24.84 +17 28.4 17.5 | -0.99 - 8.1 | 1.3/01.6 | 6181  |
| 1997 YX <sub>16</sub>  | 2000 10 31.3 | 02 23.23 +03 04.6 17.0 | -1.03 - 1.7 | 5.2/28.8  | 6200  | 1994 BH <sub>4</sub>   | 2000 10 31.7 | 02 24.85 +11 53.8 17.9 | -0.97 - 5.8 | 1.0/31.1 | 6189  |
| 1998 HJ <sub>127</sub> | 2000 10 31.3 | 02 23.26 +04 11.9 19.2 | -0.82 - 8.5 | 3.3/28.3  | 6214  | 2000 QQ <sub>7</sub>   | 2000 10 31.7 | 02 24.88 +20 16.6 15.9 | -0.87 - 6.2 | 3.2/02.4 | 6286  |
| 2000 SD <sub>25</sub>  | 2000 10 31.3 | 02 23.28 +23 27.4 15.2 | -0.57 -32.7 | 4.2/04.5  | 6345  | 1999 JY <sub>8</sub>   | 2000 10 31.7 | 02 24.92 +08 59.1 17.2 | -1.11 + 0.7 | 2.1/30.7 | 6228  |
| 2000 SA <sub>171</sub> | 2000 10 31.3 | 02 23.28 +13 52.8 17.9 | -0.89 - 8.0 | 0.1/31.2  | 6020  | (16673)                | 2000 10 31.7 | 02 24.98 +19 34.4 15.5 | -0.99 - 2.1 | 2.5/02.0 | 2902  |
| (11165)                | 2000 10 31.3 | 02 23.32 +18 15.0 16.5 | -1.04 - 2.5 | 1.7/01.3  | 35254 | 1999 HE                | 2000 10 31.7 | 02 25.02 +10 00.8 19.1 | -0.97 - 4.8 | 1.6/30.6 | 5530  |

|                        |              |                        |             |           |       |                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|------------------------|--------------|------------------------|-------------|-----------|-------|
| (16488)                | 2000 10 31.7 | 02 25.04 +19 40.9 15.8 | -0.94 - 9.2 | 2.6/02.4  | 2849  | 2000 UR <sub>63</sub>  | 2000 11 01.3 | 02 27.11 +21 15.2 18.6 | -0.99 - 3.9 | 3.1/03.0  | 6129  |
| (18860)                | 2000 10 31.7 | 02 25.14 +08 14.9 17.8 | -0.71 - 6.3 | 1.7/30.0  | 5317  | 2000 RV <sub>46</sub>  | 2000 11 01.3 | 02 27.12 +23 48.4 16.6 | -1.14 + 0.7 | 3.6/03.1  | 6326  |
| 4067 P-L               | 2000 10 31.7 | 02 25.20 +16 46.6 18.3 | -0.82 - 3.9 | 0.7/01.4  | 6438  | (18326)                | 2000 11 01.3 | 02 27.16 +14 18.1 18.1 | -0.79 - 3.4 | 0.1/01.2  | 5161  |
| (18230)                | 2000 10 31.7 | 02 25.22 +10 08.0 17.8 | -0.95 - 7.1 | 1.7/30.6  | 4281  | 1998 GT <sub>6</sub>   | 2000 11 01.3 | 02 27.24 -06 48.4 18.3 | -0.90 - 2.6 | 6.4/26.8  | 6211  |
| 1999 JO <sub>24</sub>  | 2000 10 31.8 | 02 25.18 +17 14.6 17.0 | -1.11 - 2.3 | 1.2/01.5  | 6229  | 1996 NS <sub>5</sub>   | 2000 11 01.3 | 02 27.25 +18 14.8 18.1 | -1.00 - 8.2 | 1.5/02.4  | 6193  |
| 1998 FN <sub>61</sub>  | 2000 10 31.8 | 02 25.23 -02 12.1 18.8 | -0.84 -11.3 | 5.5/26.3  | 4386  | 1999 JH <sub>69</sub>  | 2000 11 01.3 | 02 27.31 +05 56.9 18.5 | -0.87 - 7.8 | 2.9/29.9  | 6233  |
| 1999 JQ <sub>97</sub>  | 2000 10 31.8 | 02 25.28 -08 57.7 18.1 | -0.91 - 1.2 | 9.0/26.4  | 5571  | 1998 BG <sub>41</sub>  | 2000 11 01.3 | 02 27.34 -00 24.3 17.4 | -0.89 - 4.9 | 7.1/28.3  | 6202  |
| 1999 JS <sub>36</sub>  | 2000 10 31.8 | 02 25.33 +14 22.7 18.7 | -0.99 - 6.9 | 0.0/31.8  | 5542  | (17048)                | 2000 11 01.3 | 02 27.46 +12 31.1 16.6 | -1.03 - 5.7 | 1.0/31.8  | 3012  |
| 2000 RJ <sub>47</sub>  | 2000 10 31.8 | 02 25.40 +16 27.4 18.1 | -0.84 - 8.4 | 11.8/22.0 | 6327  | 1999 JF <sub>83</sub>  | 2000 11 01.3 | 02 27.46 -01 46.8 16.4 | -0.83 - 8.3 | 6.4/27.5  | 6235  |
| 2000 RW <sub>73</sub>  | 2000 10 31.8 | 02 25.41 +17 13.6 16.8 | -0.94 - 2.7 | 1.4/01.5  | 6332  | (18402)                | 2000 11 01.3 | 02 27.51 +15 52.9 15.8 | -0.79 - 7.4 | 0.6/01.8  | 5182  |
| 2000 RF <sub>46</sub>  | 2000 10 31.8 | 02 25.45 +22 49.8 17.7 | -0.97 - 4.8 | 3.7/03.1  | 6326  | (18614)                | 2000 11 01.3 | 02 27.53 +44 22.5 18.1 | -1.61 + 3.9 | 10.7/07.3 | 5243  |
| 1999 JM <sub>23</sub>  | 2000 10 31.8 | 02 25.52 +12 00.3 18.2 | -1.12 - 2.1 | 1.0/31.3  | 6229  | (18400)                | 2000 11 01.3 | 02 27.55 -00 04.4 17.8 | -0.97 - 1.4 | 5.5/29.1  | 5182  |
| (18775)                | 2000 10 31.8 | 02 25.60 +19 41.1 17.5 | -1.03 - 5.6 | 2.1/02.3  | 5291  | 2000 QC <sub>151</sub> | 2000 11 01.3 | 02 27.56 +24 12.0 16.8 | -0.98 - 2.4 | 4.7/03.8  | 6308  |
| 2000 SC <sub>7</sub>   | 2000 10 31.9 | 02 25.54 +13 48.2 16.8 | -0.86 - 2.2 | 0.2/31.8  | 5933  | 1998 KV <sub>48</sub>  | 2000 11 01.4 | 02 27.52 -02 21.4 18.1 | -0.77 - 2.1 | 4.4/28.1  | 6215  |
| 1991 UV <sub>3</sub>   | 2000 10 31.9 | 02 25.59 +19 21.1 16.5 | -0.86 - 8.1 | 1.9/02.4  | 6185  | 4550 P-L               | 2000 11 01.4 | 02 27.54 +18 46.2 17.8 | -1.09 - 1.8 | 2.1/02.3  | 6438  |
| 2000 SL <sub>123</sub> | 2000 10 31.9 | 02 25.61 +00 45.5 18.7 | -0.77 - 9.9 | 5.8/27.5  | 6370  | 2000 QO <sub>9</sub>   | 2000 11 01.4 | 02 27.60 +18 00.6 17.5 | -0.89 - 6.9 | 1.6/02.4  | 6287  |
| 1998 FG <sub>123</sub> | 2000 10 31.9 | 02 25.62 +29 50.2 15.0 | -1.21 + 2.1 | 6.7/03.9  | 6211  | 1998 FG <sub>72</sub>  | 2000 11 01.4 | 02 27.64 +18 03.6 18.1 | -0.94 - 3.9 | 1.2/02.3  | 6209  |
| 2000 RF <sub>5</sub>   | 2000 10 31.9 | 02 25.66 +10 56.3 16.9 | -1.19 + 2.9 | 1.5/31.3  | 6316  | 1998 FB <sub>62</sub>  | 2000 11 01.4 | 02 27.66 +21 48.5 17.5 | -0.94 - 4.2 | 2.7/03.3  | 6208  |
| 2000 RP <sub>39</sub>  | 2000 10 31.9 | 02 25.74 +15 05.4 18.0 | -1.07 - 3.6 | 0.3/01.1  | 6324  | (16829)                | 2000 11 01.4 | 02 27.67 +26 40.6 17.1 | -1.08 - 4.8 | 5.8/04.5  | 2946  |
| 1998 DD <sub>11</sub>  | 2000 10 31.9 | 02 25.75 +00 40.3 19.4 | -0.83 - 4.6 | 4.0/28.2  | 36526 | 2000 SX <sub>124</sub> | 2000 11 01.4 | 02 27.69 +05 27.5 17.0 | -0.98 - 3.3 | 3.9/30.2  | 5989  |
| 2000 SU <sub>154</sub> | 2000 10 31.9 | 02 25.82 +10 45.6 17.6 | -0.83 - 4.6 | 1.3/31.0  | 6008  | (18707)                | 2000 11 01.4 | 02 27.69 +09 12.2 17.1 | -1.02 - 2.2 | 2.1/31.2  | 5271  |
| 1997 YU <sub>6</sub>   | 2000 10 31.9 | 02 25.90 +02 19.3 18.5 | -1.00 - 3.7 | 4.7/29.0  | 6200  | 1998 HY <sub>124</sub> | 2000 11 01.4 | 02 27.74 -11 04.3 18.0 | -0.89 + 1.2 | 7.5/26.9  | 6214  |
| 1998 FD <sub>73</sub>  | 2000 11 01.0 | 02 25.94 +09 37.6 20.8 | -0.77 - 3.4 | 1.2/30.7  | 6209  | 1978 UV <sub>4</sub>   | 2000 11 01.4 | 02 27.74 +15 26.9 17.7 | -0.95 - 5.9 | 11.8/22.0 | 5380  |
| 2000 SM <sub>260</sub> | 2000 11 01.0 | 02 26.02 +12 53.5 18.9 | -1.20 + 2.5 | 0.6/31.7  | 6058  | 1998 HJ <sub>12</sub>  | 2000 11 01.4 | 02 27.82 +19 10.4 19.3 | -0.86 - 2.4 | 1.3/02.6  | 5474  |
| (11609)                | 2000 11 01.0 | 02 26.09 +10 51.5 16.6 | -0.82 - 3.9 | 1.2/31.1  | 35861 | 2000 RA <sub>74</sub>  | 2000 11 01.4 | 02 27.90 +21 33.7 17.8 | -1.19 + 1.8 | 2.8/02.8  | 6332  |
| 1998 DN <sub>15</sub>  | 2000 11 01.0 | 02 26.23 +08 42.0 17.3 | -1.04 - 0.7 | 2.4/30.8  | 6204  | 1999 JG <sub>84</sub>  | 2000 11 01.4 | 02 27.96 -13 09.9 16.9 | -0.98 + 1.4 | 11.8/26.6 | 6235  |
| 1998 EE <sub>11</sub>  | 2000 11 01.0 | 02 26.29 +13 40.3 19.4 | -0.87 - 3.4 | 0.2/31.9  | 5451  | 2000 RD <sub>7</sub>   | 2000 11 01.4 | 02 27.96 +12 32.6 16.9 | -0.89 - 5.6 | 0.9/31.9  | 6316  |
| (17434)                | 2000 11 01.0 | 02 26.31 +08 10.2 17.5 | -0.77 - 5.3 | 2.2/30.3  | 4050  | 1999 JW <sub>25</sub>  | 2000 11 01.4 | 02 27.96 +14 15.4 17.3 | -1.07 - 1.1 | 0.1/01.4  | 6229  |
| 2000 UO <sub>6</sub>   | 2000 11 01.0 | 02 26.31 +14 29.6 18.3 | -0.80 - 4.1 | 0.0/01.1  | 6109  | 1999 GM <sub>50</sub>  | 2000 11 01.5 | 02 27.90 +05 56.6 18.9 | -0.99 - 5.1 | 3.3/30.3  | 5529  |
| (18359)                | 2000 11 01.0 | 02 26.34 +14 19.5 18.1 | -0.84 - 4.6 | 0.1/01.0  | 5170  | 1194 T-1               | 2000 11 01.5 | 02 27.95 +04 50.7 17.0 | -0.75 - 7.7 | 3.4/29.5  | 6439  |
| 1998 FU <sub>118</sub> | 2000 11 01.0 | 02 26.37 +16 12.6 17.3 | -0.92 - 6.7 | 0.6/01.6  | 6210  | 1999 JT <sub>129</sub> | 2000 11 01.5 | 02 27.96 -05 53.3 18.0 | -0.83 - 5.4 | 7.9/26.8  | 6237  |
| 1998 BC <sub>25</sub>  | 2000 11 01.1 | 02 26.33 +24 48.1 15.9 | -1.10 - 2.0 | 4.7/03.5  | 6202  | 3136 T-2               | 2000 11 01.5 | 02 28.05 +07 59.1 18.3 | -0.79 - 4.6 | 2.4/30.7  | 6159  |
| 1998 AP <sub>5</sub>   | 2000 11 01.1 | 02 26.35 +36 43.6 18.0 | -1.12 - 3.1 | 7.2/07.1  | 5438  | (17825)                | 2000 11 01.5 | 02 28.13 -07 48.1 18.7 | -0.80 - 1.7 | 6.7/27.0  | 4164  |
| 2000 SS <sub>124</sub> | 2000 11 01.1 | 02 26.37 +06 03.8 16.4 | -0.91 + 0.5 | 2.9/30.3  | 5989  | (18694)                | 2000 11 01.5 | 02 28.19 +16 23.8 18.6 | -0.85 - 5.1 | 0.5/02.0  | 5267  |
| 2000 RX <sub>71</sub>  | 2000 11 01.1 | 02 26.37 +09 22.7 16.7 | -0.90 - 9.8 | 2.3/30.6  | 6331  | 1999 JZ <sub>7</sub>   | 2000 11 01.5 | 02 28.23 +00 39.0 17.5 | -1.13 + 1.6 | 5.0/30.1  | 6228  |
| 1998 DK <sub>15</sub>  | 2000 11 01.1 | 02 26.53 +13 24.8 17.8 | -1.05 - 3.4 | 0.5/31.9  | 5447  | 2000 SB <sub>269</sub> | 2000 11 01.5 | 02 28.25 +01 28.0 19.0 | -0.77 - 7.5 | 4.4/28.6  | 6400  |
| 2000 RF <sub>66</sub>  | 2000 11 01.1 | 02 26.60 +04 54.7 16.7 | -1.03 - 2.9 | 4.7/29.9  | 6330  | 1999 JU <sub>72</sub>  | 2000 11 01.5 | 02 28.25 +06 53.4 18.5 | -1.07 - 3.5 | 3.1/30.8  | 6234  |
| (17433)                | 2000 11 01.1 | 02 26.65 +12 57.3 18.0 | -0.88 - 1.4 | 0.5/31.8  | 4049  | 1997 PH <sub>4</sub>   | 2000 11 01.5 | 02 28.26 -31 14.3 18.4 | -0.90 - 7.6 | 21.4/13.0 | 6198  |
| 2000 SA <sub>155</sub> | 2000 11 01.1 | 02 26.70 +10 48.6 18.0 | -0.92 - 0.9 | 1.2/31.3  | 6009  | 1998 HW <sub>140</sub> | 2000 11 01.5 | 02 28.32 +07 42.7 19.9 | -0.78 - 2.6 | 1.7/30.8  | 32273 |
| 1999 JL <sub>63</sub>  | 2000 11 01.1 | 02 26.74 +10 28.2 19.9 | -1.02 - 4.7 | 1.4/31.2  | 35372 | 1998 FS <sub>70</sub>  | 2000 11 01.6 | 02 28.32 +21 35.5 18.4 | -0.91 - 1.3 | 2.0/03.2  | 6209  |
| (18832)                | 2000 11 01.1 | 02 26.75 +27 55.8 18.5 | -0.92 - 2.8 | 3.8/04.7  | 5308  | 1998 FM <sub>11</sub>  | 2000 11 01.6 | 02 28.34 +01 36.4 17.4 | -0.89 - 0.8 | 4.4/29.7  | 6206  |
| (18417)                | 2000 11 01.1 | 02 26.76 +05 12.8 18.4 | -1.02 - 5.1 | 3.9/29.9  | 5187  | 2000 SB <sub>219</sub> | 2000 11 01.6 | 02 28.36 -05 09.1 17.6 | -0.71 - 9.2 | 6.3/26.1  | 6391  |
| 1999 JY <sub>113</sub> | 2000 11 01.1 | 02 26.77 +04 18.0 18.1 | -0.95 - 0.8 | 4.0/30.0  | 6237  | 1999 MY <sub>1</sub>   | 2000 11 01.6 | 02 28.37 +43 02.4 18.8 | -1.19 - 6.5 | 8.4/10.4  | 35474 |
| 2000 SW <sub>125</sub> | 2000 11 01.1 | 02 26.89 +19 21.5 17.9 | -1.89 +20.5 | 2.8/01.1  | 5990  | (17760)                | 2000 11 01.6 | 02 28.39 +14 10.1 17.1 | -1.03 - 3.8 | 0.2/01.5  | 4144  |
| 2000 RF <sub>7</sub>   | 2000 11 01.2 | 02 26.73 +14 01.6 16.5 | -0.96 - 3.1 | 0.2/01.1  | 6316  | 2000 SK <sub>219</sub> | 2000 11 01.6 | 02 28.48 -00 25.8 18.3 | -0.94 - 1.9 | 5.8/29.2  | 6391  |
| 1998 HQ <sub>39</sub>  | 2000 11 01.2 | 02 26.79 +14 14.4 18.8 | -0.80 - 3.4 | 0.1/01.1  | 6212  | 2000 SB <sub>125</sub> | 2000 11 01.6 | 02 28.54 +06 16.8 18.7 | -0.94 - 5.5 | 2.9/30.4  | 5989  |
| 2000 QF <sub>151</sub> | 2000 11 01.2 | 02 26.80 +29 37.2 17.1 | -1.10 - 3.5 | 6.5/05.0  | 6308  | 2000 RL <sub>4</sub>   | 2000 11 01.6 | 02 28.61 +03 52.6 16.5 | -0.98 - 2.8 | 4.9/30.1  | 6315  |
| 1992 YE <sub>1</sub>   | 2000 11 01.2 | 02 26.81 +07 59.6 16.4 | -0.94 - 2.1 | 2.8/30.7  | 6186  | 1999 RF <sub>48</sub>  | 2000 11 01.6 | 02 28.64 -01 41.9 18.2 | -0.76 - 4.7 | 5.0/28.1  | 6244  |
| 1998 HY <sub>93</sub>  | 2000 11 01.2 | 02 27.00 +18 39.9 18.6 | -0.83 - 2.9 | 1.2/02.3  | 6213  | 1990 QU <sub>2</sub>   | 2000 11 01.6 | 02 28.66 +00 44.4 17.2 | -0.89 - 6.9 | 7.1/28.8  | 6182  |
| 3143 T-2               | 2000 11 01.2 | 02 27.03 +15 03.7 16.9 | -1.08 - 3.5 | 0.2/01.4  | 6440  | 3552 T-3               | 2000 11 01.6 | 02 28.70 +13 31.5 18.3 | -0.82 - 3.2 | 0.4/01.4  | 6441  |
| (10975)                | 2000 11 01.2 | 02 27.09 +11 10.1 17.6 | -0.89 - 5.6 | 1.2/31.4  | 34816 | 1999 JU <sub>77</sub>  | 2000 11 01.6 | 02 28.73 +01 08.4 19.0 | -1.00 - 4.3 | 5.2/29.3  | 5565  |

2000 NOV. 11

M.P.C. 41583

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 2000 TV <sub>62</sub>  | 2000 11 01.6 | 02 28.74 +09 24.9 17.9 | -0.97 - 5.1 | 2.5/31.3  | 6104  |
| 2000 SH <sub>219</sub> | 2000 11 01.6 | 02 28.76 -01 04.6 18.2 | -0.88 - 1.4 | 5.0/29.0  | 6041  |
| 1998 HX <sub>101</sub> | 2000 11 01.7 | 02 28.71 +10 31.8 18.6 | -0.87 - 1.0 | 1.2/31.8  | 6213  |
| 2765 P-L               | 2000 11 01.7 | 02 28.79 +15 40.6 18.2 | -0.90 - 3.6 | 0.4/02.0  | 6437  |
| (16932)                | 2000 11 01.7 | 02 28.96 -10 01.7 15.8 | -0.75 - 6.6 | 11.0/24.9 | 2977  |
| 1999 EP <sub>4</sub>   | 2000 11 01.7 | 02 29.09 -01 48.1 18.4 | -0.87 - 8.2 | 5.7/28.0  | 6223  |
| (17758)                | 2000 11 01.7 | 02 29.12 +13 38.8 18.3 | -0.92 - 2.9 | 0.4/01.5  | 4143  |
| 1996 VJ <sub>8</sub>   | 2000 11 01.7 | 02 29.16 +21 59.0 16.3 | -1.00 - 2.7 | 3.2/03.5  | 6195  |
| 1988 VP                | 2000 11 01.8 | 02 29.08 +07 17.1 15.4 | -1.12 + 1.9 | 3.0/31.5  | 6181  |
| 2000 SA <sub>318</sub> | 2000 11 01.8 | 02 29.24 +20 44.8 17.5 | -0.92 - 8.1 | 2.8/03.6  | 6084  |
| 1999 GN <sub>50</sub>  | 2000 11 01.8 | 02 29.28 +09 17.6 18.6 | -1.09 - 3.2 | 2.1/31.6  | 6226  |
| 2000 RT <sub>54</sub>  | 2000 11 01.8 | 02 29.35 +31 42.1 17.5 | -1.12 - 2.9 | 6.4/06.2  | 6328  |
| 2000 RN <sub>56</sub>  | 2000 11 01.8 | 02 29.37 +24 39.6 17.7 | -1.03 - 5.2 | 4.1/04.5  | 6328  |
| 1999 JR <sub>98</sub>  | 2000 11 01.8 | 02 29.43 +02 10.4 17.6 | -0.84 - 5.6 | 4.7/29.5  | 6236  |
| 5570 P-L               | 2000 11 01.8 | 02 29.47 +14 59.9 17.6 | -0.89 - 1.2 | 8.3/13.0  | 6142  |
| (18655)                | 2000 11 01.8 | 02 29.52 -03 24.7 17.5 | -0.81 - 5.9 | 6.1/27.8  | 5255  |
| 2000 SL <sub>219</sub> | 2000 11 01.9 | 02 29.48 +01 28.8 17.6 | -1.03 + 0.8 | 5.1/30.2  | 6041  |
| 1999 HH                | 2000 11 01.9 | 02 29.50 +16 40.2 17.7 | -1.14 + 0.3 | 0.7/02.3  | 6227  |
| (18605)                | 2000 11 01.9 | 02 29.50 +09 59.7 19.0 | -0.87 - 4.4 | 1.6/31.7  | 5240  |
| 2000 RB <sub>7</sub>   | 2000 11 01.9 | 02 29.59 +10 29.7 16.7 | -0.85 - 6.2 | 1.9/31.8  | 6316  |
| 1999 JC <sub>55</sub>  | 2000 11 01.9 | 02 29.60 +15 53.5 18.0 | -0.99 - 6.6 | 0.4/02.2  | 5552  |
| 2000 RY <sub>7</sub>   | 2000 11 01.9 | 02 29.68 +08 19.4 17.8 | -0.96 - 7.4 | 2.5/31.2  | 6316  |
| (11238)                | 2000 11 01.9 | 02 29.78 +20 13.3 17.5 | -1.13 - 4.1 | 2.2/03.3  | 35273 |
| (16752)                | 2000 11 01.9 | 02 29.78 +10 10.4 16.6 | -0.95 - 5.4 | 2.1/31.8  | 2924  |
| 2000 QJ <sub>151</sub> | 2000 11 01.9 | 02 29.83 +22 34.3 16.6 | -1.08 - 6.0 | 3.4/04.1  | 6308  |
| 1999 NB <sub>50</sub>  | 2000 11 01.9 | 02 29.88 +29 10.0 19.7 | -0.95 - 5.7 | 4.1/06.1  | 5585  |
| 1996 TE <sub>47</sub>  | 2000 11 02.0 | 02 29.88 +25 56.6 17.8 | -1.07 - 4.0 | 4.6/04.8  | 6194  |
| 1998 EU <sub>10</sub>  | 2000 11 02.0 | 02 29.89 -04 30.8 18.6 | -0.87 - 4.9 | 6.5/27.7  | 6205  |
| 2000 SC <sub>220</sub> | 2000 11 02.0 | 02 29.89 +04 35.1 15.7 | -1.08 + 2.8 | 4.3/31.2  | 6042  |
| 1998 HZ <sub>16</sub>  | 2000 11 02.0 | 02 29.93 +23 20.2 18.4 | -1.00 - 4.6 | 3.1/04.2  | 5474  |
| 1998 DM <sub>23</sub>  | 2000 11 02.0 | 02 29.94 +23 31.4 19.3 | -1.01 - 5.0 | 3.0/04.3  | 35705 |
| 2000 RJ <sub>67</sub>  | 2000 11 02.0 | 02 29.99 +12 53.2 17.4 | -1.07 - 1.6 | 0.9/01.6  | 6330  |
| (11359)                | 2000 11 02.0 | 02 30.01 +33 41.7 18.7 | -1.06 - 4.3 | 5.8/07.1  | 35580 |
| 1999 LG <sub>2</sub>   | 2000 11 02.0 | 02 30.07 +02 29.2 18.2 | -0.97 - 3.9 | 4.8/30.1  | 6238  |
| 1989 UD <sub>1</sub>   | 2000 11 02.0 | 02 30.10 +22 54.7 16.9 | -1.11 - 1.4 | 3.7/03.8  | 6182  |
| (11515)                | 2000 11 02.0 | 02 30.14 +02 43.3 16.9 | -0.79 - 2.9 | 3.9/30.0  | 35836 |
| 2000 QB <sub>128</sub> | 2000 11 02.0 | 02 30.26 +06 49.6 17.7 | -0.89 - 7.9 | 3.5/30.8  | 6303  |
| 1996 RB <sub>25</sub>  | 2000 11 02.0 | 02 30.31 +16 44.0 19.4 | -1.06 - 4.3 | 0.7/02.6  | 5418  |
| (17636)                | 2000 11 02.0 | 02 30.33 +01 26.2 17.0 | -0.92 - 5.8 | 5.9/29.5  | 4108  |
| 2000 SA <sub>239</sub> | 2000 11 02.1 | 02 30.26 +03 06.1 16.2 | -1.19 + 2.7 | 5.4/31.2  | 6053  |
| 1998 HD <sub>45</sub>  | 2000 11 02.1 | 02 30.28 +17 50.3 16.3 | -0.88 - 6.4 | 1.2/02.9  | 5478  |
| 1981 EX <sub>29</sub>  | 2000 11 02.1 | 02 30.29 +35 38.7 18.5 | -1.08 - 4.3 | 6.6/08.0  | 6180  |
| 2000 SL <sub>260</sub> | 2000 11 02.1 | 02 30.37 +15 45.6 19.2 | -0.90 - 3.5 | 0.3/02.4  | 6058  |
| 1998 HT <sub>54</sub>  | 2000 11 02.1 | 02 30.38 +25 56.9 16.6 | -1.18 + 0.6 | 4.4/04.3  | 6213  |
| 2000 SC <sub>155</sub> | 2000 11 02.1 | 02 30.44 +11 22.4 17.7 | -0.95 - 1.5 | 1.1/01.4  | 6009  |
| 5175 T-3               | 2000 11 02.1 | 02 30.55 -02 25.1 18.2 | -1.00 - 2.9 | 6.3/28.9  | 6441  |
| 4320 T-1               | 2000 11 02.1 | 02 30.62 +14 30.1 18.0 | -1.09 - 3.5 | 0.1/02.1  | 6439  |
| (11733)                | 2000 11 02.1 | 02 30.69 +05 12.8 17.2 | -0.73 - 5.7 | 2.8/30.4  | 35893 |
| 1998 FM <sub>109</sub> | 2000 11 02.1 | 02 30.71 +19 34.1 19.2 | -0.90 - 5.5 | 1.6/03.5  | 6210  |
| 1996 TX <sub>28</sub>  | 2000 11 02.1 | 02 30.74 +07 21.3 18.2 | -1.00 - 2.2 | 3.0/31.5  | 6194  |
| (18353)                | 2000 11 02.2 | 02 30.70 -07 11.8 18.0 | -0.81 - 5.1 | 6.8/26.8  | 5168  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| (11018)                | 2000 11 02.2 | 02 30.75 +26 05.3 17.6 | -1.10 - 4.1 | 4.3/05.0  | 35216 |
| 2000 SH <sub>125</sub> | 2000 11 02.2 | 02 30.75 +05 27.2 17.2 | -0.98 - 3.1 | 3.8/31.0  | 5990  |
| 2000 SN <sub>178</sub> | 2000 11 02.2 | 02 30.83 +18 15.2 17.5 | -0.86 -10.9 | 1.2/03.3  | 6025  |
| (17347)                | 2000 11 02.2 | 02 30.86 +15 35.6 16.9 | -0.88 - 1.6 | 0.3/02.4  | 3094  |
| (18665)                | 2000 11 02.2 | 02 30.88 +13 32.0 18.4 | -0.91 - 5.0 | 0.4/01.9  | 5258  |
| 1075 T-2               | 2000 11 02.2 | 02 30.89 +25 03.9 19.3 | -1.19 - 3.5 | 3.9/04.7  | 6439  |
| (11517)                | 2000 11 02.2 | 02 30.95 +15 40.8 17.1 | -0.83 - 3.9 | 0.3/02.5  | 6177  |
| 2000 SJ <sub>171</sub> | 2000 11 02.2 | 02 30.98 +13 53.2 18.9 | -0.88 - 7.8 | 0.3/02.0  | 6020  |
| (16880)                | 2000 11 02.2 | 02 30.99 +10 22.6 15.8 | -1.03 - 2.5 | 2.1/01.3  | 2962  |
| 2000 SG <sub>4</sub>   | 2000 11 02.2 | 02 31.09 +05 53.9 17.9 | -0.83 - 7.4 | 4.6/30.7  | 6340  |
| 2000 SQ <sub>178</sub> | 2000 11 02.2 | 02 31.10 +21 31.3 17.8 | -0.81 - 2.6 | 1.9/04.0  | 6025  |
| (18957)                | 2000 11 02.2 | 02 31.11 +16 45.5 16.4 | -1.17 - 1.5 | 0.9/02.7  | 5345  |
| 1996 VS <sub>3</sub>   | 2000 11 02.3 | 02 31.09 +14 32.2 19.1 | -1.00 - 3.6 | 0.1/02.2  | 5421  |
| 2000 RU <sub>46</sub>  | 2000 11 02.3 | 02 31.41 +18 17.8 16.9 | -1.02 - 5.9 | 1.5/03.3  | 6326  |
| 1993 FN <sub>10</sub>  | 2000 11 02.3 | 02 31.41 +11 32.1 16.9 | -0.88 - 3.2 | 1.2/01.6  | 6186  |
| 1999 JO <sub>127</sub> | 2000 11 02.3 | 02 31.44 -05 50.4 16.2 | -1.03 + 3.1 | 9.3/29.6  | 6237  |
| (10905)                | 2000 11 02.3 | 02 31.47 +10 58.7 17.2 | -1.10 - 4.6 | 1.6/01.5  | 34798 |
| 1999 JZ <sub>62</sub>  | 2000 11 02.4 | 02 31.43 +01 20.5 18.0 | -1.03 - 0.2 | 5.1/30.6  | 6233  |
| 1999 JU <sub>62</sub>  | 2000 11 02.4 | 02 31.46 +08 44.5 19.1 | -1.00 - 5.7 | 2.3/31.8  | 5557  |
| 1998 HU <sub>47</sub>  | 2000 11 02.4 | 02 31.47 +09 37.4 16.6 | -1.00 - 0.7 | 1.9/01.3  | 6212  |
| (18273)                | 2000 11 02.4 | 02 31.55 +15 16.1 18.0 | -1.07 - 5.2 | 0.2/02.5  | 4294  |
| (18217)                | 2000 11 02.4 | 02 31.62 +12 10.5 17.6 | -0.95 - 9.4 | 1.1/01.6  | 4278  |
| 2000 SW <sub>220</sub> | 2000 11 02.4 | 02 31.63 +00 32.3 17.7 | -0.92 - 0.0 | 5.1/30.4  | 6042  |
| 2000 SS <sub>274</sub> | 2000 11 02.4 | 02 31.64 +11 42.1 18.1 | -1.03 - 5.3 | 1.3/01.6  | 6066  |
| 1998 HZ <sub>132</sub> | 2000 11 02.4 | 02 31.65 +17 35.8 19.6 | -0.83 - 4.0 | 0.8/03.1  | 32273 |
| 2000 UJ <sub>69</sub>  | 2000 11 02.4 | 02 31.75 +21 00.6 18.6 | -1.16 - 1.2 | 2.6/03.7  | 6130  |
| (10258)                | 2000 11 02.4 | 02 31.80 -07 30.1 16.3 | -0.77 - 3.1 | 7.1/27.4  | 34126 |
| (17831)                | 2000 11 02.4 | 02 31.85 +10 48.9 17.7 | -0.90 - 4.3 | 1.5/01.4  | 4166  |
| 2000 RM <sub>56</sub>  | 2000 11 02.4 | 02 31.86 +22 06.9 16.9 | -0.93 - 8.2 | 3.1/04.6  | 6328  |
| (18732)                | 2000 11 02.4 | 02 31.89 +13 24.3 17.3 | -0.73 - 9.1 | 0.4/02.0  | 5278  |
| 2000 UD <sub>21</sub>  | 2000 11 02.4 | 02 31.89 +10 48.5 18.1 | -0.83 - 4.3 | 1.4/01.4  | 6118  |
| 2000 SE <sub>25</sub>  | 2000 11 02.4 | 02 31.89 +41 19.5 17.1 | -1.21 - 2.5 | 11.2/09.6 | 6345  |
| 2000 RE <sub>48</sub>  | 2000 11 02.5 | 02 31.84 +18 01.6 16.7 | -0.74 -14.3 | 1.3/03.6  | 6327  |
| 2000 RL <sub>46</sub>  | 2000 11 02.5 | 02 31.89 +17 54.7 17.0 | -0.99 - 5.8 | 1.4/03.3  | 6326  |
| (17394)                | 2000 11 02.5 | 02 31.90 +16 08.6 17.2 | -0.84 - 3.5 | 0.4/02.8  | 4039  |
| (18718)                | 2000 11 02.5 | 02 31.95 -06 54.6 16.4 | -0.81 - 6.9 | 8.4/26.9  | 5274  |
| 2000 SX <sub>178</sub> | 2000 11 02.5 | 02 31.95 +23 19.9 18.7 | -1.12 - 3.0 | 3.2/04.5  | 6025  |
| 2000 UW <sub>6</sub>   | 2000 11 02.5 | 02 31.96 +13 33.6 17.8 | -0.89 - 5.9 | 0.6/02.2  | 6420  |
| 2000 SB <sub>278</sub> | 2000 11 02.5 | 02 31.98 +17 03.0 18.7 | -1.07 - 3.8 | 0.9/03.0  | 6069  |
| 1999 JG <sub>44</sub>  | 2000 11 02.5 | 02 32.02 +15 21.8 16.7 | -1.10 - 1.0 | 0.2/02.6  | 6231  |
| 1993 RS <sub>5</sub>   | 2000 11 02.5 | 02 32.10 +12 48.3 17.1 | -1.00 - 7.3 | 0.9/02.0  | 5398  |
| (16651)                | 2000 11 02.5 | 02 32.11 +21 58.4 16.0 | -1.13 - 1.2 | 3.3/04.1  | 2896  |
| 1999 RF <sub>145</sub> | 2000 11 02.5 | 02 32.17 +22 17.9 19.1 | -0.78 - 4.6 | 1.9/04.6  | 6248  |
| (18342)                | 2000 11 02.5 | 02 32.21 +16 39.9 17.6 | -1.07 - 3.5 | 0.8/03.0  | 5165  |
| (18478)                | 2000 11 02.6 | 02 32.23 +15 49.3 17.1 | -0.89 - 3.3 | 0.3/02.8  | 5204  |
| 2000 SP <sub>180</sub> | 2000 11 02.6 | 02 32.25 +22 29.3 19.4 | -1.13 - 2.5 | 2.5/04.3  | 6027  |
| (17618)                | 2000 11 02.6 | 02 32.28 +13 11.0 16.7 | -0.91 - 1.1 | 0.6/02.2  | 4103  |
| 1998 HP <sub>53</sub>  | 2000 11 02.6 | 02 32.46 +10 38.4 19.1 | -0.83 - 4.1 | 1.4/01.5  | 6213  |
| 2000 RJ <sub>74</sub>  | 2000 11 02.6 | 02 32.53 +05 20.3 16.8 | -0.96 - 4.1 | 4.1/31.3  | 6332  |
| 2000 UD <sub>3</sub>   | 2000 11 02.6 | 02 32.53 +16 09.6 16.9 | -0.96 - 0.6 | 0.4/02.9  | 6107  |
| 2000 SD <sub>155</sub> | 2000 11 02.6 | 02 32.58 +08 41.5 18.3 | -1.02 - 3.6 | 2.8/01.2  | 6009  |

|                        |              |                        |             |           |       |                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1981 ER <sub>41</sub>  | 2000 11 02.6 | 02 32.69 +43 32.0 20.6 | -1.13 - 0.2 | 7.1/09.9  | 26922 | (17401)                | 2000 11 03.0 | 02 34.20 +17 22.5 17.7 | -1.07 - 4.4 | 0.9/03.6  | 4041  |
| 9586 P-L               | 2000 11 02.7 | 02 32.71 +05 54.5 18.2 | -0.76 - 3.8 | 2.6/31.3  | 6439  | 1999 JS <sub>80</sub>  | 2000 11 03.0 | 02 34.24 +04 28.8 17.1 | -0.83 - 9.5 | 4.2/30.9  | 6235  |
| (18829)                | 2000 11 02.7 | 02 32.78 -02 20.3 17.2 | -0.87 - 3.2 | 6.3/29.3  | 5307  | (17406)                | 2000 11 03.1 | 02 34.19 +10 20.8 17.7 | -1.01 - 5.3 | 1.9/01.9  | 4042  |
| 1998 FP <sub>111</sub> | 2000 11 02.7 | 02 32.80 +10 11.4 17.2 | -0.96 -16.4 | 1.9/01.1  | 6210  | (18448)                | 2000 11 03.1 | 02 34.23 +13 52.3 18.3 | -0.83 - 3.9 | 0.4/02.8  | 5195  |
| 2000 SA <sub>277</sub> | 2000 11 02.7 | 02 32.82 +18 25.2 18.2 | -1.22 - 0.5 | 1.6/03.4  | 6069  | 2000 RN <sub>7</sub>   | 2000 11 03.1 | 02 34.26 +18 12.2 16.9 | -1.15 - 0.1 | 1.3/03.7  | 5899  |
| 2000 RR <sub>54</sub>  | 2000 11 02.7 | 02 32.83 +32 20.1 16.5 | -1.12 - 4.2 | 7.2/07.0  | 4755  | 2000 SY <sub>124</sub> | 2000 11 03.1 | 02 34.29 +02 18.4 18.1 | -0.81 - 8.9 | 5.7/30.2  | 5989  |
| 2000 TB <sub>2</sub>   | 2000 11 02.7 | 02 32.90 +16 56.5 17.6 | -0.73 - 8.7 | 0.7/03.4  | 6411  | 1994 SW <sub>10</sub>  | 2000 11 03.1 | 02 34.31 +11 57.3 18.6 | -0.79 - 4.0 | 1.1/02.3  | 5408  |
| 2000 QY <sub>109</sub> | 2000 11 02.7 | 02 32.95 +13 45.6 18.6 | -0.89 - 1.9 | 0.5/02.5  | 6299  | 1999 JK <sub>37</sub>  | 2000 11 03.1 | 02 34.32 +15 29.4 16.3 | -1.20 + 0.3 | 0.2/03.2  | 6230  |
| (19076)                | 2000 11 02.7 | 02 32.96 +05 44.6 18.9 | -0.89 - 2.8 | 3.1/31.5  | 5379  | 1999 JL <sub>92</sub>  | 2000 11 03.1 | 02 34.36 -10 16.7 18.1 | -0.94 - 1.2 | 10.1/28.4 | 5570  |
| 1996 XA <sub>18</sub>  | 2000 11 02.7 | 02 32.97 +12 18.0 18.7 | -0.97 - 2.7 | 0.9/02.1  | 6196  | 2000 SD <sub>278</sub> | 2000 11 03.1 | 02 34.38 +15 47.3 17.9 | -1.15 - 3.8 | 0.3/03.3  | 6070  |
| 2000 UE <sub>21</sub>  | 2000 11 02.7 | 02 33.00 +11 38.9 17.8 | -0.83 - 2.8 | 1.3/02.0  | 6118  | 2000 UA <sub>36</sub>  | 2000 11 03.1 | 02 34.38 +18 47.0 16.4 | -1.07 + 0.1 | 1.7/03.9  | 6123  |
| 2000 OA <sub>9</sub>   | 2000 11 02.8 | 02 33.03 +16 57.7 16.2 | -0.87 - 5.2 | 1.0/03.3  | 6277  | 2000 UQ <sub>73</sub>  | 2000 11 03.1 | 02 34.46 +16 45.8 18.0 | -0.93 - 3.4 | 0.6/03.6  | 6131  |
| 1994 GQ <sub>5</sub>   | 2000 11 02.8 | 02 33.05 +23 52.8 18.5 | -1.13 + 0.2 | 3.2/04.6  | 5403  | 1999 JO <sub>70</sub>  | 2000 11 03.1 | 02 34.68 +08 15.8 19.1 | -1.11 - 2.6 | 2.7/01.7  | 5561  |
| (17842)                | 2000 11 02.8 | 02 33.06 +16 15.6 17.3 | -1.00 - 2.4 | 0.5/03.1  | 4169  | 1999 KS <sub>11</sub>  | 2000 11 03.2 | 02 34.63 +12 58.7 18.7 | -1.07 - 3.3 | 0.8/02.7  | 5578  |
| 1998 FB <sub>91</sub>  | 2000 11 02.8 | 02 33.10 +11 34.7 18.0 | -0.98 - 2.1 | 1.2/02.0  | 6209  | 1994 PS <sub>13</sub>  | 2000 11 03.2 | 02 34.64 +27 51.1 17.6 | -0.91 - 3.3 | 4.2/06.5  | 5405  |
| 1999 HQ <sub>2</sub>   | 2000 11 02.8 | 02 33.19 +13 57.7 18.6 | -1.04 - 7.1 | 0.4/02.6  | 5531  | (11773)                | 2000 11 03.2 | 02 34.65 +26 27.6 18.2 | -0.96 - 3.6 | 3.4/06.1  | 35903 |
| 1999 RR <sub>130</sub> | 2000 11 02.8 | 02 33.19 +24 58.0 18.1 | -0.92 - 3.9 | 2.9/05.4  | 6247  | 2000 SD <sub>179</sub> | 2000 11 03.2 | 02 34.67 +22 16.2 17.5 | -1.02 - 3.3 | 2.6/04.9  | 6025  |
| 1990 OJ                | 2000 11 02.8 | 02 33.20 +30 18.4 17.0 | -0.95 - 6.8 | 4.9/07.4  | 6182  | 2000 RC <sub>72</sub>  | 2000 11 03.2 | 02 34.75 +07 31.8 17.4 | -0.70 -11.2 | 2.8/31.7  | 6331  |
| 2000 SL <sub>171</sub> | 2000 11 02.8 | 02 33.29 +12 37.6 17.4 | -0.77 - 6.5 | 0.8/02.2  | 6020  | 2000 RO <sub>71</sub>  | 2000 11 03.2 | 02 34.77 +07 13.2 17.3 | -0.63 - 7.3 | 4.1/31.8  | 6331  |
| 2000 RJ <sub>72</sub>  | 2000 11 02.8 | 02 33.33 +16 17.2 17.5 | -1.12 - 3.4 | 0.6/03.1  | 5920  | 2000 ST <sub>124</sub> | 2000 11 03.2 | 02 34.82 +00 12.4 18.6 | -0.83 - 8.7 | 6.4/29.7  | 6370  |
| 1999 JP <sub>131</sub> | 2000 11 02.8 | 02 33.41 +11 32.9 17.1 | -1.14 + 1.9 | 1.4/02.3  | 6237  | 1993 TR <sub>23</sub>  | 2000 11 03.2 | 02 34.82 +17 47.2 17.5 | -1.14 - 2.2 | 1.0/03.8  | 5400  |
| (17519)                | 2000 11 02.8 | 02 33.43 +31 26.2 17.2 | -0.99 - 5.6 | 5.1/07.5  | 4074  | 2622 P-L               | 2000 11 03.2 | 02 34.84 +12 56.1 18.0 | -0.80 - 4.0 | 0.7/02.7  | 6437  |
| 1999 NZ <sub>29</sub>  | 2000 11 02.8 | 02 33.43 +13 32.5 19.9 | -0.80 - 4.0 | 0.4/02.5  | 6240  | 2000 RD <sub>51</sub>  | 2000 11 03.2 | 02 34.95 +17 06.4 17.8 | -1.08 - 4.2 | 1.0/03.7  | 6327  |
| 2000 SH <sub>269</sub> | 2000 11 02.8 | 02 33.45 +05 22.2 18.6 | -0.83 - 4.4 | 3.6/31.4  | 6062  | (18557)                | 2000 11 03.2 | 02 35.02 +17 11.3 17.8 | -0.88 - 3.9 | 0.7/03.8  | 5226  |
| (10703)                | 2000 11 02.8 | 02 33.47 -01 53.9 17.5 | -0.94 - 5.3 | 6.7/29.6  | 34745 | 1998 KJ <sub>8</sub>   | 2000 11 03.2 | 02 35.04 +01 26.3 18.0 | -0.85 - 1.5 | 4.2/31.1  | 6214  |
| 1999 JM <sub>7</sub>   | 2000 11 02.9 | 02 33.40 +00 36.7 18.0 | -0.98 - 3.5 | 5.8/30.5  | 6228  | 2000 RX <sub>7</sub>   | 2000 11 03.2 | 02 35.06 +14 38.1 18.1 | -0.94 - 2.0 | 0.3/03.2  | 6316  |
| (18674)                | 2000 11 02.9 | 02 33.40 +08 35.6 16.4 | -0.77 - 6.9 | 2.1/01.1  | 5261  | 2000 QP <sub>149</sub> | 2000 11 03.2 | 02 35.06 +13 03.6 15.8 | -0.92 - 8.8 | 1.0/02.7  | 6307  |
| 2000 SF <sub>178</sub> | 2000 11 02.9 | 02 33.41 +15 42.1 17.2 | -0.88 -20.0 | 0.3/03.1  | 6384  | 1998 FR <sub>73</sub>  | 2000 11 03.3 | 02 34.97 +15 22.7 15.6 | -1.07 - 0.2 | 0.1/03.3  | 6209  |
| 1997 AY <sub>5</sub>   | 2000 11 02.9 | 02 33.42 +23 52.0 18.5 | -0.96 - 5.9 | 3.5/05.3  | 6197  | 2000 SW <sub>269</sub> | 2000 11 03.3 | 02 35.39 +09 23.2 18.0 | -0.99 + 0.6 | 2.4/02.2  | 6400  |
| (16423)                | 2000 11 02.9 | 02 33.45 +20 54.2 16.2 | -1.06 - 7.4 | 2.4/04.5  | 2829  | (18856)                | 2000 11 03.4 | 02 35.38 +19 20.0 17.8 | -0.94 - 5.3 | 1.3/04.5  | 5315  |
| (11443)                | 2000 11 02.9 | 02 33.46 +15 31.4 17.3 | -1.06 - 4.5 | 0.2/03.0  | 35817 | 2000 RN <sub>66</sub>  | 2000 11 03.4 | 02 35.39 +05 25.1 17.9 | -1.02 - 4.6 | 4.5/01.1  | 5918  |
| (10822)                | 2000 11 02.9 | 02 33.51 +13 38.6 15.9 | -1.07 - 3.6 | 0.6/02.6  | 34776 | 1994 CF <sub>14</sub>  | 2000 11 03.4 | 02 35.41 +24 57.1 17.3 | -1.13 - 0.7 | 3.8/05.5  | 6189  |
| 1999 JK <sub>71</sub>  | 2000 11 02.9 | 02 33.59 +06 01.7 19.2 | -1.04 - 3.7 | 3.5/31.8  | 5562  | 1999 JU <sub>51</sub>  | 2000 11 03.4 | 02 35.43 +11 48.2 15.6 | -1.15 0.0   | 1.7/02.8  | 6232  |
| 2000 RY <sub>11</sub>  | 2000 11 02.9 | 02 33.61 -15 48.9 18.3 | -0.80 -16.5 | 11.9/21.9 | 6317  | 2000 UE <sub>18</sub>  | 2000 11 03.4 | 02 35.45 +06 07.3 19.0 | -1.05 - 4.0 | 3.8/01.2  | 6115  |
| 2000 SU <sub>220</sub> | 2000 11 02.9 | 02 33.61 -01 30.6 18.0 | -0.73 - 5.6 | 6.1/29.2  | 6042  | 2000 US <sub>21</sub>  | 2000 11 03.4 | 02 35.47 +09 23.2 17.7 | -0.92 - 1.7 | 2.9/02.1  | 6118  |
| (11081)                | 2000 11 02.9 | 02 33.61 +12 36.9 17.0 | -0.85 - 4.5 | 0.8/02.3  | 35232 | 2000 SW <sub>336</sub> | 2000 11 03.4 | 02 35.52 +24 31.7 19.4 | -1.08 - 3.6 | 3.4/05.7  | 6088  |
| 1999 JT <sub>53</sub>  | 2000 11 02.9 | 02 33.66 +10 49.0 18.3 | -0.92 - 6.0 | 1.6/01.8  | 6232  | (17893)                | 2000 11 03.4 | 02 35.52 +21 15.7 17.7 | -1.16 - 3.4 | 2.5/04.8  | 4184  |
| (10692)                | 2000 11 02.9 | 02 33.71 +23 04.0 18.1 | -1.11 - 4.3 | 3.0/04.9  | 34742 | 2000 RZ <sub>54</sub>  | 2000 11 03.4 | 02 35.56 +31 47.6 18.6 | -1.07 - 5.1 | 5.6/07.8  | 6328  |
| 1999 JL <sub>68</sub>  | 2000 11 02.9 | 02 33.73 +09 00.8 18.0 | -1.01 - 4.4 | 2.3/01.5  | 6233  | (11188)                | 2000 11 03.4 | 02 35.64 +05 26.0 17.4 | -0.70 - 5.5 | 2.7/31.7  | 35260 |
| 2000 RY <sub>73</sub>  | 2000 11 02.9 | 02 33.80 +12 52.9 17.8 | -0.96 - 5.9 | 1.0/02.4  | 5921  | 1998 BU <sub>14</sub>  | 2000 11 03.4 | 02 35.66 +01 43.1 17.2 | -0.97 - 4.6 | 5.6/31.0  | 6201  |
| 1999 LW                | 2000 11 03.0 | 02 33.87 +13 56.4 18.3 | -0.93 - 7.1 | 0.5/02.7  | 5578  | 2119 P-L               | 2000 11 03.4 | 02 35.69 +13 14.4 18.3 | -0.92 - 8.5 | 0.9/02.9  | 6134  |
| 2000 QE <sub>151</sub> | 2000 11 03.0 | 02 33.88 +22 22.7 16.2 | -1.08 - 5.2 | 3.2/04.8  | 6308  | 1998 EO <sub>6</sub>   | 2000 11 03.5 | 02 35.78 +10 48.5 17.7 | -0.89 - 5.7 | 1.7/02.3  | 5449  |
| (18041)                | 2000 11 03.0 | 02 33.90 +12 15.4 17.3 | -0.79 - 3.2 | 0.8/02.3  | 4227  | 1999 GR <sub>21</sub>  | 2000 11 03.5 | 02 35.80 +02 22.6 18.1 | -0.99 - 5.9 | 5.2/31.2  | 6226  |
| 1991 PY <sub>3</sub>   | 2000 11 03.0 | 02 33.97 +16 26.3 17.6 | -0.95 - 4.6 | 0.5/03.4  | 6184  | 1996 XM <sub>21</sub>  | 2000 11 03.5 | 02 35.91 +21 42.7 19.3 | -1.02 - 2.9 | 2.2/05.0  | 32056 |
| 2000 RV <sub>54</sub>  | 2000 11 03.0 | 02 34.08 +29 56.0 17.0 | -0.94 - 3.3 | 4.7/07.0  | 6328  | 1998 BT <sub>6</sub>   | 2000 11 03.5 | 02 35.92 +14 40.6 18.8 | -0.99 - 5.2 | 0.2/03.4  | 6201  |
| 1999 JH <sub>54</sub>  | 2000 11 03.0 | 02 34.08 +10 07.4 19.1 | -1.06 - 0.5 | 1.8/02.1  | 5551  | 1999 JR <sub>19</sub>  | 2000 11 03.5 | 02 36.09 +22 15.5 17.2 | -1.14 - 3.2 | 2.7/05.2  | 6229  |
| 2000 SR <sub>269</sub> | 2000 11 03.0 | 02 34.13 +07 37.5 17.7 | -0.93 - 3.0 | 3.3/01.3  | 6062  | 1997 EH <sub>15</sub>  | 2000 11 03.5 | 02 36.12 +33 51.3 19.5 | -0.99 - 0.8 | 5.1/07.9  | 30473 |
| 2000 SR <sub>125</sub> | 2000 11 03.0 | 02 34.15 +09 54.8 17.0 | -1.13 - 0.7 | 2.4/02.0  | 6370  | 1998 HO <sub>100</sub> | 2000 11 03.5 | 02 36.13 +10 17.6 17.5 | -0.89 - 0.2 | 1.5/02.5  | 6213  |
| 2000 SJ <sub>269</sub> | 2000 11 03.0 | 02 34.15 +02 35.4 18.4 | -0.92 - 6.2 | 6.0/30.7  | 6062  | 2000 RR <sub>72</sub>  | 2000 11 03.5 | 02 36.14 +19 03.4 18.1 | -1.01 - 3.1 | 1.5/04.5  | 6332  |
| 1997 YR <sub>4</sub>   | 2000 11 03.0 | 02 34.18 +06 55.8 16.4 | -0.98 - 3.2 | 4.0/01.1  | 6200  | 1981 EL <sub>26</sub>  | 2000 11 03.5 | 02 36.16 +26 03.8 19.5 | -1.15 - 3.0 | 3.8/06.1  | 6180  |
| 1999 JH <sub>58</sub>  | 2000 11 03.0 | 02 34.19 +18 00.2 16.5 | -0.99 - 3.2 | 1.2/03.8  | 6232  | 2000 SG <sub>278</sub> | 2000 11 03.5 | 02 36.22 +21 30.4 18.0 | -1.06 + 1.5 | 2.0/04.8  | 6070  |

2000 NOV. 11

M.P.C. 41585

|                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|----------|-------|
| 2000 UR <sub>6</sub>   | 2000 11 03.6 | 02 36.18 +16 25.0 18.1 | -0.84 - 3.4 | 0.4/03.9 | 6109  |
| 1994 UH <sub>3</sub>   | 2000 11 03.6 | 02 36.30 +15 15.7 18.2 | -0.82 - 3.3 | 0.0/03.6 | 5408  |
| (18332)                | 2000 11 03.6 | 02 36.31 -05 29.0 17.7 | -0.86 - 5.6 | 7.8/29.1 | 5163  |
| 2000 SR <sub>178</sub> | 2000 11 03.6 | 02 36.41 +14 10.5 18.7 | -0.79 -13.8 | 0.5/03.3 | 6384  |
| 1998 HC <sub>19</sub>  | 2000 11 03.6 | 02 36.41 +19 23.1 17.6 | -0.91 - 4.5 | 1.6/04.7 | 6212  |
| 1998 HV <sub>18</sub>  | 2000 11 03.6 | 02 36.41 +17 40.8 17.8 | -0.95 - 6.0 | 0.9/04.3 | 6212  |
| 1981 EF <sub>19</sub>  | 2000 11 03.6 | 02 36.42 +21 14.1 17.4 | -0.96 - 3.7 | 2.7/05.1 | 6179  |
| 2000 SF <sub>221</sub> | 2000 11 03.6 | 02 36.43 +02 59.5 17.9 | -1.06 - 2.1 | 5.1/01.0 | 6043  |
| (17698)                | 2000 11 03.6 | 02 36.44 +00 37.9 17.7 | -0.75 - 4.9 | 4.5/30.6 | 4126  |
| (18458)                | 2000 11 03.6 | 02 36.45 +22 49.3 18.4 | -1.12 - 3.5 | 2.7/05.4 | 5198  |
| 1989 UB <sub>7</sub>   | 2000 11 03.6 | 02 36.55 +13 35.4 16.9 | -0.98 - 1.8 | 0.9/03.3 | 6182  |
| 1999 NW <sub>61</sub>  | 2000 11 03.6 | 02 36.56 -02 46.4 18.9 | -0.85 - 5.5 | 5.5/29.8 | 4509  |
| 1996 XP <sub>13</sub>  | 2000 11 03.6 | 02 36.56 +07 51.4 16.6 | -0.98 + 0.3 | 3.7/02.1 | 5425  |
| 4218 T-2               | 2000 11 03.6 | 02 36.57 +23 10.0 18.8 | -0.97 - 0.5 | 2.4/05.4 | 6161  |
| 1999 JZ <sub>120</sub> | 2000 11 03.6 | 02 36.63 +05 24.5 18.8 | -1.06 - 2.3 | 3.9/01.5 | 6237  |
| 2000 RC <sub>74</sub>  | 2000 11 03.7 | 02 36.65 +13 08.1 16.8 | -1.00 - 7.8 | 0.9/03.1 | 6332  |
| (18839)                | 2000 11 03.7 | 02 36.68 +05 53.8 18.7 | -0.89 - 1.1 | 3.1/01.7 | 5310  |
| (11670)                | 2000 11 03.7 | 02 36.71 +15 43.9 17.4 | -0.81 - 3.6 | 0.1/03.8 | 35876 |
| 1999 JB <sub>95</sub>  | 2000 11 03.7 | 02 36.73 +02 50.9 17.1 | -0.85 - 8.3 | 5.0/31.2 | 6236  |
| (18859)                | 2000 11 03.7 | 02 36.82 +24 00.5 18.3 | -0.91 - 3.6 | 2.6/05.9 | 5316  |
| 1999 LV <sub>13</sub>  | 2000 11 03.7 | 02 36.83 +20 58.9 18.0 | -0.93 - 7.9 | 1.8/05.4 | 6239  |
| 1981 EV <sub>47</sub>  | 2000 11 03.7 | 02 36.83 +02 27.3 19.1 | -0.84 - 6.4 | 4.1/31.3 | 26923 |
| 1999 JO <sub>13</sub>  | 2000 11 03.7 | 02 36.85 +05 54.2 17.0 | -0.96 - 1.9 | 4.6/01.7 | 6228  |
| 2000 XK <sub>151</sub> | 2000 11 03.7 | 02 36.88 +22 18.3 16.6 | -0.82 - 7.0 | 2.4/05.8 | 5881  |
| 1999 SY <sub>4</sub>   | 2000 11 03.7 | 02 36.95 +17 40.8 16.8 | -0.80 - 2.2 | 0.7/04.4 | 5624  |
| 1998 HM <sub>124</sub> | 2000 11 03.7 | 02 36.99 +06 49.0 17.8 | -0.72 - 8.7 | 2.4/01.2 | 6214  |
| 1992 EA <sub>14</sub>  | 2000 11 03.8 | 02 36.96 +21 52.8 17.8 | -1.09 - 5.0 | 3.1/05.4 | 5393  |
| 2000 SV <sub>294</sub> | 2000 11 03.8 | 02 37.00 +34 05.4 17.5 | -1.19 + 0.4 | 7.1/07.7 | 6077  |
| 2000 SU <sub>274</sub> | 2000 11 03.8 | 02 37.01 +07 56.1 18.6 | -0.92 - 7.6 | 3.4/01.8 | 6066  |
| (18279)                | 2000 11 03.8 | 02 37.06 +05 19.4 18.1 | -0.83 - 6.0 | 3.2/01.1 | 4296  |
| 2000 RE <sub>72</sub>  | 2000 11 03.8 | 02 37.25 +12 34.5 18.1 | -0.87 - 5.6 | 1.4/03.1 | 6331  |
| 1999 NL <sub>55</sub>  | 2000 11 03.9 | 02 37.39 +29 13.9 18.6 | -0.84 - 6.0 | 3.8/07.9 | 36907 |
| 1998 BP                | 2000 11 03.9 | 02 37.39 +17 38.0 16.7 | -1.11 - 2.4 | 1.0/04.4 | 5439  |
| 1989 UE <sub>1</sub>   | 2000 11 03.9 | 02 37.42 +18 04.4 16.7 | -0.92 - 5.3 | 1.4/04.6 | 6182  |
| 2000 QC <sub>221</sub> | 2000 11 03.9 | 02 37.61 +02 59.1 18.0 | -0.96 + 2.1 | 3.9/01.7 | 6043  |
| 2793 P-L               | 2000 11 03.9 | 02 37.65 +11 41.9 17.8 | -1.02 - 6.0 | 1.5/03.0 | 6135  |
| 1999 LG <sub>24</sub>  | 2000 11 03.9 | 02 37.70 +06 06.1 18.5 | -0.97 - 4.4 | 3.4/01.7 | 6239  |
| 1990 WH <sub>1</sub>   | 2000 11 03.9 | 02 37.70 +04 24.8 17.6 | -1.03 - 4.2 | 4.8/01.4 | 6183  |
| 2000 RS <sub>46</sub>  | 2000 11 04.0 | 02 37.79 +22 55.9 17.3 | -0.88 - 2.3 | 2.7/05.8 | 6326  |
| (18308)                | 2000 11 04.0 | 02 37.79 +21 48.8 18.6 | -1.09 - 4.4 | 2.5/05.5 | 5156  |
| (17501)                | 2000 11 04.0 | 02 37.80 +20 20.0 17.3 | -1.15 - 3.0 | 1.9/05.1 | 4069  |
| (11658)                | 2000 11 04.0 | 02 37.82 -12 08.0 18.1 | -0.71 - 5.4 | 7.0/26.6 | 35873 |
| 1999 KP <sub>12</sub>  | 2000 11 04.0 | 02 37.86 +13 34.3 17.0 | -1.07 + 0.5 | 0.7/03.7 | 6238  |
| 1997 EX <sub>10</sub>  | 2000 11 04.0 | 02 37.88 +17 57.2 18.9 | -0.81 - 2.7 | 0.7/04.7 | 5429  |
| (17687)                | 2000 11 04.0 | 02 37.89 +27 51.4 19.1 | -0.92 - 2.5 | 3.7/07.1 | 4123  |
| (17818)                | 2000 11 04.0 | 02 37.92 +15 49.8 16.6 | -0.85 - 6.9 | 0.1/04.2 | 4162  |
| 1999 GO <sub>20</sub>  | 2000 11 04.0 | 02 38.02 +13 45.0 17.7 | -1.11 - 2.7 | 0.7/03.7 | 6225  |
| (11073)                | 2000 11 04.0 | 02 38.04 +17 57.4 18.5 | -1.02 - 4.5 | 0.9/04.7 | 35230 |
| 2000 UB <sub>70</sub>  | 2000 11 04.0 | 02 38.06 +21 51.0 18.7 | -0.87 - 2.9 | 2.3/05.6 | 6130  |
| 2000 US                | 2000 11 04.0 | 02 38.09 +12 54.4 18.2 | -0.97 - 1.4 | 0.8/03.5 | 6105  |
| (18910)                | 2000 11 04.0 | 02 38.14 +07 08.1 16.0 | -0.99 - 4.1 | 4.1/02.1 | 5332  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1999 KV <sub>17</sub>  | 2000 11 04.0 | 02 38.15 +13 09.7 19.6 | -0.99 - 5.2 | 0.8/03.5  | 35656 |
| (18416)                | 2000 11 04.0 | 02 38.21 -26 24.6 17.3 | -0.92 - 5.1 | 17.9/22.3 | 5187  |
| (11079)                | 2000 11 04.1 | 02 38.18 -11 10.8 15.5 | -0.87 - 0.5 | 11.8/28.6 | 35232 |
| 2000 SR <sub>293</sub> | 2000 11 04.1 | 02 38.22 +29 46.9 18.0 | -0.92 - 2.3 | 4.4/07.7  | 6077  |
| 1999 KY <sub>15</sub>  | 2000 11 04.1 | 02 38.28 +15 54.1 17.9 | -1.02 - 6.4 | 0.2/04.2  | 6238  |
| (17531)                | 2000 11 04.1 | 02 38.31 +17 56.9 16.9 | -0.88 - 4.9 | 0.9/04.8  | 4077  |
| 1998 HV <sub>60</sub>  | 2000 11 04.1 | 02 38.37 +24 22.9 17.8 | -0.98 - 0.6 | 2.8/06.1  | 5480  |
| 2000 UJ <sub>7</sub>   | 2000 11 04.1 | 02 38.40 +13 20.3 18.4 | -0.83 - 2.6 | 0.9/03.7  | 6110  |
| (18824)                | 2000 11 04.1 | 02 38.40 +15 26.3 18.6 | -0.99 - 5.3 | 0.0/04.2  | 5306  |
| 1981 ER <sub>11</sub>  | 2000 11 04.1 | 02 38.41 +19 11.1 20.1 | -0.95 - 4.7 | 1.3/05.1  | 6179  |
| 1996 VA <sub>31</sub>  | 2000 11 04.1 | 02 38.42 +17 12.3 18.5 | -1.04 - 1.4 | 0.7/04.5  | 6195  |
| 2000 RU <sub>54</sub>  | 2000 11 04.1 | 02 38.43 +28 37.5 17.5 | -0.90 - 5.0 | 4.6/07.8  | 6328  |
| 1999 JO <sub>72</sub>  | 2000 11 04.1 | 02 38.46 +09 06.3 19.5 | -1.03 - 5.2 | 2.3/02.6  | 36543 |
| (16407)                | 2000 11 04.1 | 02 38.51 +25 03.7 16.5 | -1.02 - 6.5 | 4.1/07.0  | 2824  |
| (11179)                | 2000 11 04.1 | 02 38.62 +24 42.0 16.8 | -1.03 - 3.5 | 3.6/06.4  | 35258 |
| 2000 SE <sub>220</sub> | 2000 11 04.2 | 02 38.57 -00 20.3 17.7 | -0.95 - 4.9 | 6.3/31.0  | 6042  |
| (18490)                | 2000 11 04.2 | 02 38.61 +27 19.5 16.1 | -0.98 - 1.4 | 5.2/06.9  | 5207  |
| 2000 SN <sub>287</sub> | 2000 11 04.2 | 02 38.63 +29 54.3 17.9 | -0.98 - 7.3 | 5.1/08.3  | 6074  |
| (16742)                | 2000 11 04.2 | 02 38.73 +21 15.1 17.6 | -1.00 - 7.0 | 2.7/05.8  | 2921  |
| 2000 RU <sub>67</sub>  | 2000 11 04.2 | 02 38.77 +02 29.6 17.5 | -0.77 -10.4 | 5.5/31.1  | 6330  |
| 2000 RK <sub>67</sub>  | 2000 11 04.2 | 02 38.77 +13 24.0 17.6 | -1.07 - 2.8 | 1.0/03.8  | 6330  |
| 1998 FY <sub>37</sub>  | 2000 11 04.2 | 02 38.79 -00 26.2 17.8 | -0.84 - 7.5 | 6.4/30.6  | 6207  |
| (18592)                | 2000 11 04.2 | 02 38.81 +25 21.9 19.2 | -1.05 - 3.5 | 3.3/06.6  | 5236  |
| (15419)                | 2000 11 04.2 | 02 38.83 +00 57.9 15.9 | -0.74 -10.9 | 6.1/30.5  | 885   |
| (18750)                | 2000 11 04.2 | 02 38.88 +07 14.4 18.5 | -0.97 - 3.0 | 3.0/02.4  | 5284  |
| 2000 RO <sub>46</sub>  | 2000 11 04.2 | 02 38.89 +21 23.4 16.6 | -1.05 - 6.0 | 2.9/05.8  | 5908  |
| 1999 FY <sub>25</sub>  | 2000 11 04.2 | 02 38.90 +14 40.8 18.3 | -1.04 - 7.2 | 0.3/04.1  | 6224  |
| 1999 JQ <sub>82</sub>  | 2000 11 04.2 | 02 38.94 +03 44.2 17.2 | -0.96 - 5.2 | 4.9/01.4  | 6235  |
| 2000 SE <sub>221</sub> | 2000 11 04.2 | 02 38.96 +03 59.3 17.1 | -0.96 + 0.1 | 4.6/02.0  | 6043  |
| 1999 GZ <sub>19</sub>  | 2000 11 04.3 | 02 39.12 +15 29.8 18.1 | -1.11 - 3.2 | 0.0/04.3  | 6225  |
| (19047)                | 2000 11 04.3 | 02 39.15 +12 06.3 18.8 | -1.04 - 5.6 | 1.4/03.5  | 5371  |
| (16649)                | 2000 11 04.3 | 02 39.15 +22 36.6 16.8 | -1.17 - 1.1 | 3.3/05.8  | 2895  |
| 2000 UZ <sub>21</sub>  | 2000 11 04.3 | 02 39.15 +07 35.0 18.9 | -0.87 - 7.6 | 2.9/02.1  | 6119  |
| 1999 RH <sub>4</sub>   | 2000 11 04.3 | 02 39.20 +27 28.5 17.8 | -0.86 - 4.5 | 3.5/07.6  | 5590  |
| 1999 JU <sub>27</sub>  | 2000 11 04.3 | 02 39.21 +12 39.4 18.7 | -1.15 - 2.4 | 1.1/03.8  | 6229  |
| 1999 HZ <sub>6</sub>   | 2000 11 04.3 | 02 39.33 +15 50.7 18.4 | -1.07 - 4.7 | 0.1/04.5  | 6227  |
| 1998 DJ <sub>19</sub>  | 2000 11 04.3 | 02 39.41 +25 03.1 19.7 | -1.12 - 1.9 | 4.2/06.5  | 5447  |
| 2000 TW <sub>28</sub>  | 2000 11 04.4 | 02 39.37 +26 19.5 17.4 | -1.06 - 4.3 | 5.0/07.1  | 6414  |
| 2000 QQ <sub>224</sub> | 2000 11 04.4 | 02 39.40 +14 17.0 17.9 | -0.91 - 1.9 | 0.6/04.1  | 5896  |
| 1995 RR                | 2000 11 04.4 | 02 39.43 +05 39.9 18.0 | -0.95 - 0.9 | 3.9/02.3  | 5411  |
| 1992 EG <sub>27</sub>  | 2000 11 04.4 | 02 39.46 +06 37.0 18.6 | -1.02 - 6.1 | 3.5/02.2  | 5393  |
| 1999 JC <sub>76</sub>  | 2000 11 04.4 | 02 39.47 +15 31.0 16.8 | -1.02 - 7.4 | 0.0/04.4  | 6234  |
| 1999 RT <sub>42</sub>  | 2000 11 04.4 | 02 39.48 +41 58.1 17.6 | -0.98 - 3.5 | 7.3/12.1  | 5593  |
| (11776)                | 2000 11 04.4 | 02 39.54 +16 11.1 16.8 | -0.82 - 3.9 | 0.2/04.6  | 35904 |
| 4270 T-3               | 2000 11 04.4 | 02 39.63 +08 36.2 19.2 | -0.91 - 2.7 | 2.4/02.9  | 6171  |
| 2000 UZ <sub>70</sub>  | 2000 11 04.4 | 02 39.66 +19 40.3 18.1 | -1.05 - 2.8 | 1.6/05.4  | 6130  |
| 1998 KV <sub>12</sub>  | 2000 11 04.4 | 02 39.68 +17 33.5 16.8 | -0.86 - 9.9 | 0.8/05.1  | 6214  |
| 2000 SK <sub>179</sub> | 2000 11 04.4 | 02 39.71 +24 58.5 17.4 | -1.14 - 1.7 | 3.7/06.5  | 6025  |
| 2000 RH <sub>67</sub>  | 2000 11 04.4 | 02 39.76 +09 09.3 17.7 | -0.89 - 3.8 | 3.2/02.9  | 6330  |
| (18727)                | 2000 11 04.5 | 02 39.75 +10 24.1 18.5 | -0.76 - 4.4 | 1.4/03.2  | 5277  |
| 2000 SJ <sub>178</sub> | 2000 11 04.5 | 02 39.89 +17 28.8 16.9 | -0.74 -14.8 | 0.9/05.2  | 6384  |

|                        |              |                        |       |       |           |       |                        |              |                        |       |       |           |       |
|------------------------|--------------|------------------------|-------|-------|-----------|-------|------------------------|--------------|------------------------|-------|-------|-----------|-------|
| (11322)                | 2000 11 04.5 | 02 40.04 +00 13.1 17.2 | -0.82 | - 5.8 | 6.1/31.4  | 35571 | 2000 RK <sub>53</sub>  | 2000 11 05.0 | 02 42.10 +16 36.4 17.3 | -0.99 | + 1.3 | 0.3/05.2  | 6328  |
| 2000 RR <sub>49</sub>  | 2000 11 04.5 | 02 40.17 +09 35.4 17.4 | -0.77 | -10.8 | 1.8/02.7  | 5909  | 2000 SL <sub>275</sub> | 2000 11 05.0 | 02 42.16 +15 10.7 18.0 | -1.18 | - 0.9 | 0.2/05.0  | 6067  |
| 1999 NY <sub>38</sub>  | 2000 11 04.6 | 02 40.19 +31 30.1 18.0 | -0.96 | - 2.8 | 5.5/08.6  | 4944  | 1988 CG <sub>7</sub>   | 2000 11 05.0 | 02 42.17 +15 59.3 16.7 | -0.81 | - 8.6 | 0.1/05.2  | 6181  |
| 2000 UA <sub>70</sub>  | 2000 11 04.6 | 02 40.22 +21 48.1 17.9 | -1.06 | - 0.3 | 2.2/05.9  | 6130  | 2000 UX <sub>21</sub>  | 2000 11 05.1 | 02 42.12 +10 05.7 17.8 | -0.86 | - 3.5 | 2.0/03.7  | 6118  |
| 2000 RL <sub>72</sub>  | 2000 11 04.6 | 02 40.23 +13 42.4 16.9 | -0.90 | - 5.5 | 0.8/04.1  | 6331  | 1994 PH <sub>8</sub>   | 2000 11 05.1 | 02 42.25 +15 45.9 17.7 | -0.83 | - 3.8 | 0.0/05.1  | 5404  |
| 2000 SK <sub>220</sub> | 2000 11 04.6 | 02 40.26 -01 19.8 18.0 | -0.93 | - 2.9 | 8.3/31.5  | 6042  | 1999 JY <sub>53</sub>  | 2000 11 05.1 | 02 42.28 +13 33.1 18.4 | -0.93 | - 5.5 | 0.8/04.6  | 6232  |
| 1994 PP <sub>36</sub>  | 2000 11 04.6 | 02 40.35 +28 56.2 17.5 | -0.94 | - 3.1 | 4.3/08.0  | 6190  | 1999 LC <sub>13</sub>  | 2000 11 05.1 | 02 42.36 +13 35.7 18.9 | -0.94 | - 6.6 | 0.8/04.6  | 6239  |
| 1992 EP <sub>8</sub>   | 2000 11 04.6 | 02 40.35 +11 38.4 18.0 | -1.10 | - 3.6 | 1.5/03.8  | 6185  | 1979 QE <sub>1</sub>   | 2000 11 05.1 | 02 42.40 +07 37.6 18.5 | -0.96 | - 4.9 | 3.1/03.2  | 5382  |
| 1999 JH <sub>80</sub>  | 2000 11 04.6 | 02 40.36 +01 20.7 18.6 | -0.94 | - 2.9 | 5.1/01.4  | 5566  | 2000 UF <sub>39</sub>  | 2000 11 05.1 | 02 42.60 +12 50.0 17.8 | -1.01 | - 3.8 | 1.2/04.5  | 6428  |
| 1998 CD                | 2000 11 04.6 | 02 40.37 +12 14.9 18.4 | -1.06 | - 2.6 | 1.3/03.9  | 5442  | 2000 UO <sub>17</sub>  | 2000 11 05.2 | 02 42.59 +06 04.0 19.0 | -0.74 | - 5.9 | 3.0/02.5  | 6115  |
| 2000 SB <sub>275</sub> | 2000 11 04.6 | 02 40.41 +10 19.7 17.8 | -0.89 | - 3.2 | 1.9/03.4  | 6066  | 1994 CG <sub>6</sub>   | 2000 11 05.2 | 02 42.79 -09 48.4 17.9 | -0.88 | - 4.0 | 9.8/29.8  | 6189  |
| 2000 UB <sub>36</sub>  | 2000 11 04.6 | 02 40.46 +18 37.2 17.0 | -1.16 | + 1.7 | 1.2/05.2  | 6427  | 2000 UY <sub>21</sub>  | 2000 11 05.3 | 02 42.91 +09 40.0 18.2 | -0.92 | - 3.9 | 2.4/03.8  | 6119  |
| 1998 KV <sub>54</sub>  | 2000 11 04.6 | 02 40.47 -17 51.9 18.4 | -0.77 | - 1.9 | 8.7/26.6  | 4915  | 1997 WE                | 2000 11 05.3 | 02 42.93 +17 01.9 17.0 | -1.15 | - 3.4 | 0.5/05.6  | 6199  |
| 2000 RQ <sub>67</sub>  | 2000 11 04.6 | 02 40.56 +16 50.1 17.1 | -1.16 | - 1.5 | 0.5/04.9  | 5918  | (18995)                | 2000 11 05.3 | 02 42.95 +11 31.8 17.6 | -0.99 | - 3.8 | 1.9/04.3  | 5356  |
| 2000 RS <sub>66</sub>  | 2000 11 04.6 | 02 40.58 +12 12.0 17.2 | -1.11 | + 0.7 | 1.6/04.1  | 6330  | 1998 HE <sub>22</sub>  | 2000 11 05.3 | 02 43.12 +13 55.9 18.5 | -0.86 | - 4.7 | 0.6/04.9  | 5476  |
| 2000 QN <sub>151</sub> | 2000 11 04.7 | 02 40.56 +29 25.7 16.8 | -1.01 | - 3.4 | 5.4/08.1  | 6308  | (17844)                | 2000 11 05.3 | 02 43.15 +10 57.4 17.9 | -0.86 | - 3.5 | 1.6/04.2  | 4170  |
| 1972 RF <sub>2</sub>   | 2000 11 04.7 | 02 40.58 +10 58.3 17.0 | -0.98 | - 6.7 | 2.2/03.5  | 6178  | 1998 HY <sub>34</sub>  | 2000 11 05.3 | 02 43.17 +13 01.0 19.9 | -0.97 | - 0.9 | 0.9/04.8  | 5477  |
| 1998 FY <sub>58</sub>  | 2000 11 04.7 | 02 40.75 +20 52.0 19.9 | -1.03 | - 2.5 | 1.7/05.9  | 32321 | (10697)                | 2000 11 05.3 | 02 43.18 -02 37.9 17.4 | -0.83 | - 7.1 | 6.8/31.2  | 34743 |
| (10462)                | 2000 11 04.7 | 02 40.76 +05 16.8 18.7 | -1.01 | - 5.2 | 3.6/02.2  | 34427 | 1993 UZ <sub>5</sub>   | 2000 11 05.3 | 02 43.25 +05 47.7 18.7 | -1.01 | - 4.1 | 4.0/03.0  | 6188  |
| (17554)                | 2000 11 04.7 | 02 40.77 +35 12.2 15.6 | -1.97 | +15.9 | 10.4/05.2 | 4084  | (19073)                | 2000 11 05.3 | 02 43.26 +13 51.5 18.2 | -1.12 | - 3.5 | 0.8/04.9  | 5378  |
| 2000 SB <sub>270</sub> | 2000 11 04.7 | 02 40.83 +11 07.5 17.7 | -1.13 | + 0.5 | 2.1/03.9  | 6063  | 1997 SB                | 2000 11 05.3 | 02 43.32 +00 07.9 18.2 | -0.88 | -24.7 | 7.4/30.3  | 5433  |
| 2000 RG <sub>46</sub>  | 2000 11 04.7 | 02 40.85 +19 50.8 16.0 | -0.79 | - 7.6 | 2.0/06.0  | 5908  | 1994 FP                | 2000 11 05.3 | 02 43.47 +49 43.1 17.1 | -1.96 | +14.2 | 17.6/06.1 | 4888  |
| 2000 RQ <sub>66</sub>  | 2000 11 04.7 | 02 40.88 +05 14.0 16.7 | -1.01 | - 4.1 | 4.7/02.3  | 6330  | (11000)                | 2000 11 05.4 | 02 43.35 +15 48.8 18.0 | -1.06 | - 4.0 | 0.0/05.4  | 35211 |
| (16398)                | 2000 11 04.7 | 02 40.88 +08 25.3 16.5 | -0.99 | - 4.3 | 3.4/03.1  | 2821  | 2000 RR <sub>51</sub>  | 2000 11 05.4 | 02 43.38 +22 04.8 16.5 | -1.14 | + 0.3 | 2.7/07.0  | 6327  |
| 1998 FC <sub>109</sub> | 2000 11 04.7 | 02 40.94 +20 00.3 17.2 | -0.95 | - 5.9 | 1.7/05.9  | 6210  | 1997 VB <sub>4</sub>   | 2000 11 05.4 | 02 43.46 +11 34.1 17.8 | -1.11 | - 1.5 | 1.7/04.6  | 6198  |
| 1992 EU <sub>2</sub>   | 2000 11 04.8 | 02 40.99 +19 21.1 19.6 | -1.12 | - 3.9 | 1.3/05.7  | 1876  | 3470 T-3               | 2000 11 05.4 | 02 43.47 +23 45.4 18.2 | -1.10 | - 0.4 | 2.7/07.1  | 6441  |
| 2000 RL <sub>7</sub>   | 2000 11 04.8 | 02 40.99 +19 13.8 16.6 | -1.17 | 0.0   | 1.8/05.5  | 6316  | 1998 FB <sub>54</sub>  | 2000 11 05.4 | 02 43.52 +19 28.7 17.6 | -0.95 | - 4.3 | 1.3/06.3  | 6207  |
| 1996 XK <sub>12</sub>  | 2000 11 04.8 | 02 41.06 -02 37.1 19.8 | -0.83 | - 1.7 | 5.3/31.6  | 32311 | 1996 XY <sub>11</sub>  | 2000 11 05.4 | 02 43.53 +13 13.7 19.3 | -0.88 | - 3.1 | 0.9/04.8  | 6196  |
| (18327)                | 2000 11 04.8 | 02 41.17 +15 27.9 17.9 | -1.05 | - 6.1 | 0.1/04.8  | 5161  | 1997 YY                | 2000 11 05.4 | 02 43.68 +21 08.6 16.6 | -1.04 | - 7.6 | 2.5/07.0  | 6199  |
| 1981 EU <sub>11</sub>  | 2000 11 04.8 | 02 41.23 +31 24.9 19.5 | -1.10 | - 2.6 | 5.3/08.7  | 26917 | 2000 UX <sub>7</sub>   | 2000 11 05.4 | 02 43.68 +12 50.2 17.2 | -0.90 | - 8.2 | 1.3/04.6  | 6421  |
| 1999 NH <sub>23</sub>  | 2000 11 04.8 | 02 41.24 -02 12.4 18.4 | -0.81 | - 2.5 | 5.7/31.6  | 6240  | 2000 RV <sub>49</sub>  | 2000 11 05.4 | 02 43.76 +23 39.7 16.6 | -1.21 | + 1.0 | 3.2/06.9  | 6327  |
| 1995 VR <sub>12</sub>  | 2000 11 04.8 | 02 41.26 +10 38.8 19.2 | -0.85 | - 4.0 | 1.8/03.6  | 6192  | 1999 JM <sub>102</sub> | 2000 11 05.5 | 02 43.75 +06 55.6 18.0 | -0.88 | - 7.1 | 3.6/03.1  | 6236  |
| 1999 HQ <sub>1</sub>   | 2000 11 04.8 | 02 41.42 +19 44.4 18.6 | -1.20 | - 1.3 | 1.6/05.7  | 5530  | 2000 VZ <sub>38</sub>  | 2000 11 05.5 | 02 43.81 +03 53.2 19.5 | -0.97 | - 3.6 | 4.3/02.7  | 6134  |
| (11067)                | 2000 11 04.9 | 02 41.35 +12 03.1 16.8 | -0.83 | - 4.3 | 1.3/04.0  | 35229 | 2000 PR <sub>6</sub>   | 2000 11 05.5 | 02 43.82 -23 19.9 15.5 | -0.62 | - 1.0 | 19.7/23.3 | 6283  |
| 2000 RT <sub>46</sub>  | 2000 11 04.9 | 02 41.36 +23 04.8 16.8 | -1.01 | - 3.9 | 3.4/07.0  | 6326  | 1999 JK <sub>3</sub>   | 2000 11 05.5 | 02 43.95 -04 45.3 17.8 | -0.98 | - 0.2 | 7.5/01.5  | 6227  |
| 1998 FD <sub>17</sub>  | 2000 11 04.9 | 02 41.43 -03 25.2 18.6 | -0.87 | - 5.8 | 6.6/30.7  | 6206  | (11706)                | 2000 11 05.5 | 02 44.05 +16 38.1 18.2 | -0.87 | - 3.4 | 0.2/05.8  | 35886 |
| 2000 SP <sub>125</sub> | 2000 11 04.9 | 02 41.46 +04 39.6 18.5 | -0.84 | - 5.6 | 4.3/02.0  | 5990  | 1998 AM                | 2000 11 05.5 | 02 44.09 +23 14.2 17.1 | -1.09 | - 4.0 | 3.2/07.3  | 5438  |
| (16688)                | 2000 11 04.9 | 02 41.47 +11 55.3 16.7 | -0.81 | - 4.0 | 1.4/04.0  | 2906  | 1993 UB <sub>5</sub>   | 2000 11 05.6 | 02 44.09 +05 58.4 17.6 | -1.06 | - 1.9 | 4.5/03.6  | 6188  |
| (17510)                | 2000 11 04.9 | 02 41.56 +11 45.3 17.1 | -1.02 | - 3.2 | 1.6/04.1  | 4071  | 2000 UT <sub>17</sub>  | 2000 11 05.6 | 02 44.12 +06 41.0 17.6 | -0.94 | - 1.0 | 4.2/03.7  | 6115  |
| 1998 HU <sub>99</sub>  | 2000 11 04.9 | 02 41.64 +08 08.5 18.6 | -0.76 | - 5.5 | 2.2/02.9  | 6213  | 1999 RF <sub>159</sub> | 2000 11 05.6 | 02 44.14 +41 01.0 17.2 | -1.10 | - 0.4 | 7.3/11.4  | 5611  |
| 1998 CU <sub>3</sub>   | 2000 11 04.9 | 02 41.69 +16 28.9 18.2 | -1.05 | - 4.0 | 0.3/05.2  | 6203  | 2000 RM <sub>72</sub>  | 2000 11 05.6 | 02 44.15 +08 35.9 17.2 | -0.72 | - 7.3 | 2.9/03.5  | 6331  |
| (18713)                | 2000 11 04.9 | 02 41.70 +02 02.9 18.1 | -0.84 | - 1.5 | 4.3/01.9  | 5273  | (18385)                | 2000 11 05.6 | 02 44.17 +01 44.7 17.6 | -0.77 | - 5.0 | 4.6/01.9  | 5177  |
| 2000 RZ <sub>7</sub>   | 2000 11 04.9 | 02 41.76 +14 25.0 17.7 | -0.99 | - 3.2 | 0.6/04.7  | 6316  | 1999 RC <sub>112</sub> | 2000 11 05.6 | 02 44.18 -00 52.8 16.5 | -0.87 | - 7.7 | 5.8/31.8  | 5601  |
| 2000 QT <sub>129</sub> | 2000 11 05.0 | 02 41.73 +08 01.0 16.7 | -0.92 | - 7.0 | 3.2/02.9  | 6303  | 2000 SO <sub>179</sub> | 2000 11 05.6 | 02 44.18 +20 32.9 18.0 | -0.93 | - 5.1 | 1.8/07.0  | 6026  |
| 1981 EZ <sub>23</sub>  | 2000 11 05.0 | 02 41.80 +14 43.7 20.2 | -0.91 | - 5.2 | 0.3/04.8  | 6179  | 1998 DL <sub>35</sub>  | 2000 11 05.6 | 02 44.21 +20 10.8 19.4 | -1.03 | - 4.2 | 1.7/06.6  | 5449  |
| (17828)                | 2000 11 05.0 | 02 41.84 +16 21.2 18.3 | -0.86 | - 3.8 | 0.2/05.2  | 4165  | 2000 RR <sub>48</sub>  | 2000 11 05.6 | 02 44.24 +30 09.9 18.1 | -1.13 | - 2.1 | 4.7/08.9  | 6327  |
| 1992 ET <sub>15</sub>  | 2000 11 05.0 | 02 41.84 +18 08.5 18.5 | -1.08 | - 5.5 | 0.9/05.6  | 6185  | 1996 XA                | 2000 11 05.6 | 02 44.28 +20 06.7 18.3 | -0.97 | - 6.0 | 1.7/07.0  | 5423  |
| 2000 RW <sub>39</sub>  | 2000 11 05.0 | 02 41.88 +18 57.6 16.7 | -1.11 | - 1.7 | 1.3/05.7  | 6324  | (17970)                | 2000 11 05.6 | 02 44.29 +19 17.3 18.2 | -1.13 | - 3.2 | 1.3/06.4  | 4207  |
| 2000 SX <sub>155</sub> | 2000 11 05.0 | 02 41.89 +23 34.2 15.9 | -1.95 | +14.3 | 4.4/05.3  | 6379  | 1999 RY <sub>116</sub> | 2000 11 05.6 | 02 44.35 +34 52.6 18.2 | -1.08 | - 3.0 | 6.5/10.3  | 5602  |
| 1999 JH <sub>97</sub>  | 2000 11 05.0 | 02 41.93 -02 16.2 17.4 | -0.78 | - 7.4 | 7.3/30.9  | 6236  | (11821)                | 2000 11 05.6 | 02 44.40 +24 03.2 17.3 | -0.94 | - 1.4 | 2.6/07.5  | 36224 |
| 2000 RK <sub>4</sub>   | 2000 11 05.0 | 02 42.07 +00 08.3 17.1 | -0.84 | - 4.7 | 7.5/01.1  | 5898  | 2000 QC <sub>128</sub> | 2000 11 05.6 | 02 44.40 +12 15.6 16.9 | -0.92 | - 4.8 | 1.8/04.8  | 6303  |

2000 NOV. 11

M.P.C. 41587

|                        |              |                        |             |          |       |                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|----------|-------|------------------------|--------------|------------------------|-------------|----------|-------|
| 2000 SO <sub>260</sub> | 2000 11 05.6 | 02 44.43 +05 39.7 18.5 | -0.89 - 6.1 | 3.4/03.0 | 6058  | 1999 JJ <sub>65</sub>  | 2000 11 06.1 | 02 46.57 +01 12.5 18.1 | -0.93 -13.3 | 5.7/01.6 | 6233  |
| 4036 T-3               | 2000 11 05.6 | 02 44.44 +14 59.5 18.8 | -0.87 - 1.7 | 0.3/05.5 | 6171  | 1996 RP <sub>15</sub>  | 2000 11 06.2 | 02 46.48 +07 12.2 19.4 | -0.96 - 6.3 | 3.2/04.0 | 27925 |
| 2000 RH <sub>53</sub>  | 2000 11 05.6 | 02 44.50 +07 30.8 17.4 | -0.76 - 6.0 | 2.9/03.4 | 6328  | (17823)                | 2000 11 06.2 | 02 46.49 +18 00.2 17.2 | -1.07 - 2.7 | 0.8/06.6 | 4163  |
| (11308)                | 2000 11 05.6 | 02 44.50 +16 18.4 18.1 | -0.87 - 4.4 | 0.1/05.8 | 35567 | 2000 UP <sub>22</sub>  | 2000 11 06.2 | 02 46.50 +09 35.1 18.5 | -0.92 - 5.1 | 2.3/04.6 | 6119  |
| 1998 FD <sub>28</sub>  | 2000 11 05.6 | 02 44.51 +17 48.5 18.2 | -1.00 - 4.7 | 0.7/06.1 | 5455  | 1999 RD <sub>100</sub> | 2000 11 06.2 | 02 46.55 +16 50.6 18.2 | -0.83 - 6.3 | 0.2/06.4 | 36427 |
| 1995 YD                | 2000 11 05.6 | 02 44.52 +03 44.6 18.0 | -0.82 - 2.9 | 4.2/02.7 | 5415  | 1993 VU                | 2000 11 06.2 | 02 46.63 +08 28.8 15.6 | -0.88 -23.2 | 3.3/03.4 | 5401  |
| (11665)                | 2000 11 05.7 | 02 44.49 +12 53.2 18.9 | -0.73 - 6.8 | 0.8/04.8 | 35875 | (18532)                | 2000 11 06.2 | 02 46.64 +04 00.8 17.8 | -1.01 0.0   | 4.4/03.8 | 5219  |
| (10374)                | 2000 11 05.7 | 02 44.56 +12 20.0 15.8 | -1.07 - 7.2 | 1.6/04.8 | 34153 | 1998 BQ <sub>13</sub>  | 2000 11 06.2 | 02 46.76 +16 34.4 17.2 | -1.06 - 3.6 | 0.2/06.4 | 6201  |
| 2000 US <sub>70</sub>  | 2000 11 05.7 | 02 44.56 +20 09.1 18.6 | -0.89 - 5.0 | 1.4/06.8 | 6130  | 1999 HQ                | 2000 11 06.2 | 02 46.78 +15 53.7 16.8 | -0.98 - 6.0 | 0.1/06.2 | 6227  |
| (11569)                | 2000 11 05.7 | 02 44.61 -02 56.4 17.0 | -0.73 - 5.7 | 5.2/31.5 | 35850 | 2000 UD <sub>1</sub>   | 2000 11 06.2 | 02 46.93 +13 17.2 18.1 | -0.87 - 3.4 | 0.9/05.6 | 6106  |
| 1992 RX <sub>4</sub>   | 2000 11 05.7 | 02 44.74 +07 31.4 16.8 | -0.82 - 4.5 | 4.2/03.6 | 6186  | (11010)                | 2000 11 06.2 | 02 46.93 +08 07.1 17.6 | -0.98 - 6.7 | 3.1/04.2 | 35214 |
| 1998 FR <sub>63</sub>  | 2000 11 05.7 | 02 44.80 +09 25.3 18.2 | -0.98 - 5.0 | 2.8/04.2 | 6208  | 2000 RQ <sub>12</sub>  | 2000 11 06.3 | 02 46.89 +14 49.3 17.4 | -1.00 - 0.8 | 0.6/06.0 | 5901  |
| 7637 P-L               | 2000 11 05.7 | 02 44.93 +13 55.1 18.1 | -1.06 - 2.8 | 0.7/05.3 | 6147  | 1999 FP <sub>28</sub>  | 2000 11 06.3 | 02 47.00 +10 30.2 18.0 | -1.04 - 6.1 | 2.3/05.0 | 6224  |
| (18672)                | 2000 11 05.7 | 02 44.96 +18 06.1 17.6 | -0.96 - 4.6 | 0.8/06.3 | 5260  | 2000 RM <sub>67</sub>  | 2000 11 06.3 | 02 47.07 +11 14.4 17.1 | -0.99 - 0.7 | 2.2/05.4 | 6330  |
| (11700)                | 2000 11 05.8 | 02 44.92 +22 04.0 18.1 | -0.87 - 4.0 | 1.7/07.3 | 4878  | 1999 FS <sub>7</sub>   | 2000 11 06.3 | 02 47.09 +13 35.3 18.1 | -1.14 - 4.8 | 1.0/05.8 | 6223  |
| 1988 XQ                | 2000 11 05.8 | 02 45.13 +27 23.7 15.0 | -0.76 -10.8 | 5.6/09.6 | 6181  | 2000 UT                | 2000 11 06.3 | 02 47.18 +13 13.3 18.4 | -0.93 - 3.3 | 1.0/05.7 | 6105  |
| 1999 RC <sub>129</sub> | 2000 11 05.8 | 02 45.20 +35 38.1 16.5 | -1.00 - 2.4 | 6.5/10.6 | 5604  | 2000 SJ <sub>275</sub> | 2000 11 06.3 | 02 47.19 +11 26.6 18.0 | -1.12 0.0   | 1.7/05.5 | 6067  |
| 2000 RD <sub>72</sub>  | 2000 11 05.8 | 02 45.22 +13 10.9 17.1 | -0.84 - 6.2 | 1.4/05.1 | 5920  | 1998 KK <sub>21</sub>  | 2000 11 06.3 | 02 47.20 +23 01.9 17.2 | -0.92 - 7.7 | 2.3/08.3 | 6214  |
| 1999 GA <sub>2</sub>   | 2000 11 05.8 | 02 45.29 +04 45.3 17.7 | -1.10 - 2.5 | 4.8/03.6 | 5524  | (17950)                | 2000 11 06.3 | 02 47.21 +25 38.0 17.1 | -1.18 - 2.5 | 4.1/08.5 | 4201  |
| 1998 HS <sub>145</sub> | 2000 11 05.8 | 02 45.29 +07 01.2 18.7 | -0.87 - 1.5 | 2.8/03.9 | 5486  | 1999 LJ <sub>26</sub>  | 2000 11 06.3 | 02 47.35 +06 00.8 18.9 | -0.99 - 2.6 | 3.6/04.2 | 6239  |
| 1998 KN <sub>34</sub>  | 2000 11 05.8 | 02 45.29 -01 55.5 19.5 | -0.81 - 0.4 | 4.5/02.0 | 32278 | 2000 RS <sub>49</sub>  | 2000 11 06.4 | 02 47.34 +19 17.2 16.7 | -1.21 - 1.3 | 1.5/07.0 | 5909  |
| 2000 SK <sub>221</sub> | 2000 11 05.8 | 02 45.33 +02 41.9 16.8 | -0.95 + 0.6 | 5.2/03.3 | 6043  | 1999 HF <sub>3</sub>   | 2000 11 06.4 | 02 47.39 +20 11.2 17.9 | -0.99 - 4.6 | 1.5/07.4 | 5531  |
| (18684)                | 2000 11 05.8 | 02 45.34 +19 26.6 17.3 | -0.82 - 7.1 | 1.1/07.0 | 5264  | 2000 UD <sub>8</sub>   | 2000 11 06.4 | 02 47.48 +18 26.4 18.1 | -0.98 - 4.5 | 0.9/07.0 | 6111  |
| 2000 QM <sub>151</sub> | 2000 11 05.8 | 02 45.34 +19 22.1 17.6 | -0.83 - 6.0 | 1.2/07.0 | 6308  | (17863)                | 2000 11 06.4 | 02 47.53 +16 39.6 16.1 | -0.96 0.0   | 0.2/06.6 | 4175  |
| 1996 TB <sub>19</sub>  | 2000 11 05.8 | 02 45.35 +16 08.3 17.4 | -0.89 - 5.8 | 0.1/05.9 | 6194  | 1999 NU <sub>7</sub>   | 2000 11 06.4 | 02 47.54 +16 18.2 18.9 | -0.81 - 4.2 | 0.0/06.5 | 6240  |
| 1998 BK <sub>12</sub>  | 2000 11 05.9 | 02 45.30 +05 27.1 19.1 | -1.00 - 3.2 | 3.9/03.5 | 5439  | (17861)                | 2000 11 06.4 | 02 47.57 +15 26.8 16.2 | -0.93 + 0.5 | 0.2/06.3 | 4175  |
| 1981 DE <sub>3</sub>   | 2000 11 05.9 | 02 45.41 +34 16.4 19.0 | -1.09 - 3.4 | 6.1/10.4 | 26914 | (11012)                | 2000 11 06.4 | 02 47.64 +10 44.9 18.4 | -0.93 - 3.6 | 1.8/05.2 | 35214 |
| 2000 SX <sub>261</sub> | 2000 11 05.9 | 02 45.45 +05 35.3 18.4 | -0.78 - 6.4 | 3.6/03.1 | 6398  | 1993 UT <sub>7</sub>   | 2000 11 06.4 | 02 47.69 +07 36.2 18.5 | -0.97 - 4.2 | 4.0/04.5 | 6188  |
| 1999 JQ <sub>119</sub> | 2000 11 05.9 | 02 45.47 +09 41.6 18.4 | -1.10 - 1.7 | 2.5/04.7 | 5575  | (17544)                | 2000 11 06.4 | 02 47.74 +23 27.6 16.5 | -1.18 - 3.5 | 3.2/08.1 | 4081  |
| 1999 FR <sub>32</sub>  | 2000 11 05.9 | 02 45.48 +19 07.4 15.2 | -1.20 + 1.1 | 1.6/07.0 | 6224  | 1998 BC <sub>41</sub>  | 2000 11 06.5 | 02 47.70 +35 02.4 16.4 | -1.05 - 5.3 | 6.1/11.7 | 5442  |
| 1993 TP <sub>9</sub>   | 2000 11 05.9 | 02 45.49 +23 20.9 17.3 | -1.17 - 3.0 | 3.2/07.6 | 6188  | 2000 SG <sub>126</sub> | 2000 11 06.5 | 02 47.97 +11 10.1 18.1 | -1.05 + 1.0 | 1.8/05.7 | 5990  |
| 2000 UV <sub>22</sub>  | 2000 11 05.9 | 02 45.52 +07 17.4 17.5 | -1.05 - 1.0 | 3.9/04.2 | 6119  | 2000 UK <sub>22</sub>  | 2000 11 06.5 | 02 48.02 +10 47.4 18.6 | -0.79 - 3.1 | 1.6/05.3 | 6119  |
| 1993 TM <sub>14</sub>  | 2000 11 05.9 | 02 45.61 +16 14.2 17.2 | -0.92 - 3.3 | 0.1/06.0 | 5400  | 1998 HJ <sub>148</sub> | 2000 11 06.5 | 02 48.05 +13 55.1 18.8 | -0.80 - 3.7 | 0.6/06.0 | 6214  |
| (11182)                | 2000 11 05.9 | 02 45.64 -01 51.0 17.3 | -0.91 - 1.4 | 6.2/02.0 | 4878  | 1994 PM <sub>29</sub>  | 2000 11 06.5 | 02 48.09 +20 38.9 18.0 | -0.84 - 4.9 | 1.6/07.7 | 5406  |
| (17685)                | 2000 11 05.9 | 02 45.67 +17 07.2 17.7 | -0.88 - 4.7 | 0.4/06.3 | 4122  | 1999 GQ <sub>23</sub>  | 2000 11 06.5 | 02 48.10 +20 21.5 17.6 | -1.12 - 5.5 | 1.7/07.6 | 5527  |
| 2000 SC <sub>270</sub> | 2000 11 05.9 | 02 45.71 +09 22.9 18.3 | -0.83 - 1.8 | 2.1/04.5 | 6063  | 1999 JX <sub>103</sub> | 2000 11 06.5 | 02 48.10 -07 48.6 19.2 | -0.89 - 3.1 | 8.3/31.9 | 6236  |
| 2000 QR <sub>129</sub> | 2000 11 06.0 | 02 45.68 +02 19.5 17.7 | -0.84 - 7.7 | 6.2/02.2 | 6303  | 2000 UR <sub>39</sub>  | 2000 11 06.6 | 02 48.09 +13 59.5 18.6 | -0.85 - 4.6 | 0.8/06.1 | 6124  |
| 2000 UH <sub>39</sub>  | 2000 11 06.0 | 02 45.74 +12 50.6 17.8 | -0.83 - 4.2 | 1.0/05.2 | 6124  | 1998 DD                | 2000 11 06.6 | 02 48.17 +12 42.4 17.9 | -1.14 - 1.8 | 1.4/05.9 | 6203  |
| 1998 BH <sub>4</sub>   | 2000 11 06.0 | 02 45.89 +19 33.8 18.5 | -1.07 - 4.4 | 1.3/06.9 | 6201  | 1999 JL <sub>55</sub>  | 2000 11 06.6 | 02 48.19 +05 14.3 18.8 | -1.01 - 2.3 | 4.3/04.3 | 5552  |
| 2000 QD <sub>151</sub> | 2000 11 06.0 | 02 45.91 +18 31.2 16.4 | -0.99 - 7.5 | 1.3/07.0 | 5880  | 2825 P-L               | 2000 11 06.6 | 02 48.25 +15 42.8 18.9 | -0.80 - 3.8 | 0.1/06.5 | 6437  |
| 2000 SL <sub>278</sub> | 2000 11 06.0 | 02 45.98 +13 12.1 17.5 | -0.87 - 7.6 | 0.9/05.3 | 6070  | 1999 RP <sub>46</sub>  | 2000 11 06.6 | 02 48.26 +30 32.4 17.0 | -0.91 - 5.0 | 5.0/10.5 | 5594  |
| 1998 FF <sub>47</sub>  | 2000 11 06.0 | 02 46.06 +31 25.7 20.2 | -1.07 - 2.1 | 4.5/09.6 | 32319 | 1998 HZ <sub>120</sub> | 2000 11 06.6 | 02 48.34 +05 02.9 17.8 | -1.01 - 0.1 | 4.0/04.5 | 5483  |
| 1999 JL <sub>24</sub>  | 2000 11 06.0 | 02 46.17 +19 21.2 16.7 | -1.26 + 2.5 | 1.5/07.0 | 6229  | 1988 CR <sub>5</sub>   | 2000 11 06.6 | 02 48.35 +31 41.8 17.5 | -1.16 - 5.6 | 5.3/10.7 | 6181  |
| (17695)                | 2000 11 06.1 | 02 46.15 +00 19.0 18.3 | -0.74 - 7.1 | 5.2/01.6 | 4125  | 2000 UF <sub>71</sub>  | 2000 11 06.6 | 02 48.38 +20 17.3 18.5 | -0.99 - 4.7 | 2.0/07.7 | 6131  |
| (11641)                | 2000 11 06.1 | 02 46.19 +33 08.2 18.1 | -0.98 - 5.1 | 5.7/10.7 | 35869 | 1997 XK <sub>1</sub>   | 2000 11 06.6 | 02 48.40 +21 13.3 16.7 | -1.16 - 2.4 | 2.3/07.7 | 6199  |
| 1999 GZ <sub>29</sub>  | 2000 11 06.1 | 02 46.23 +17 00.1 16.8 | -1.14 - 2.6 | 0.4/06.3 | 6226  | 2000 SL <sub>126</sub> | 2000 11 06.6 | 02 48.51 +05 31.8 18.1 | -1.04 - 3.7 | 4.3/04.4 | 5990  |
| 1999 JZ <sub>61</sub>  | 2000 11 06.1 | 02 46.26 +24 29.5 17.2 | -1.00 - 7.4 | 2.8/08.4 | 5557  | 2000 UG <sub>71</sub>  | 2000 11 06.7 | 02 48.52 +20 35.8 18.5 | -1.03 - 1.7 | 1.8/07.6 | 6433  |
| 1999 RG <sub>133</sub> | 2000 11 06.1 | 02 46.28 +18 41.7 18.2 | -0.78 - 5.3 | 0.8/06.8 | 5605  | (11152)                | 2000 11 06.7 | 02 48.55 +25 12.7 14.9 | -0.95 - 3.7 | 5.0/08.9 | 3859  |
| 2000 UJ <sub>70</sub>  | 2000 11 06.1 | 02 46.32 +21 04.9 17.4 | -0.89 - 5.0 | 2.7/07.4 | 6433  | 1998 BB <sub>11</sub>  | 2000 11 06.7 | 02 48.55 +05 39.4 16.8 | -1.01 - 2.8 | 3.9/04.4 | 6201  |
| 4573 P-L               | 2000 11 06.1 | 02 46.34 +22 17.3 18.4 | -0.91 - 1.2 | 2.0/07.5 | 6438  | 1998 FF <sub>15</sub>  | 2000 11 06.7 | 02 48.66 +23 46.2 18.6 | -1.04 - 1.8 | 2.5/08.4 | 5454  |
| 1999 FB <sub>1</sub>   | 2000 11 06.1 | 02 46.57 +11 26.3 19.7 | -1.03 - 7.0 | 1.8/05.0 | 35086 | (19011)                | 2000 11 06.7 | 02 48.66 -00 33.6 17.4 | -1.03 -21.1 | 7.4/31.8 | 5360  |

|                        |              |                        |       |       |          |       |                        |              |                        |       |       |           |       |
|------------------------|--------------|------------------------|-------|-------|----------|-------|------------------------|--------------|------------------------|-------|-------|-----------|-------|
| 2000 SS <sub>156</sub> | 2000 11 06.7 | 02 48.68 +08 21.2 17.8 | -0.78 | - 6.7 | 2.7/04.6 | 6012  | 6633 P-L               | 2000 11 07.1 | 02 50.35 +10 49.2 18.3 | -0.83 | - 4.3 | 2.2/05.8  | 6145  |
| 2000 SG <sub>23</sub>  | 2000 11 06.7 | 02 48.70 +13 39.5 17.3 | -0.72 | - 2.7 | 0.8/06.1 | 6344  | 2000 UZ <sub>22</sub>  | 2000 11 07.1 | 02 50.47 +10 13.3 17.9 | -0.91 | - 3.1 | 2.2/05.8  | 6119  |
| 1999 RV <sub>135</sub> | 2000 11 06.7 | 02 48.79 +26 57.5 19.3 | -0.90 | - 2.4 | 2.9/09.3 | 5606  | (18581)                | 2000 11 07.1 | 02 50.48 +28 04.2 17.2 | -1.10 | - 4.6 | 4.6/10.0  | 5233  |
| (16871)                | 2000 11 06.7 | 02 48.81 +14 39.1 16.4 | -1.10 | 0.0   | 0.8/06.5 | 2959  | 2000 RX <sub>60</sub>  | 2000 11 07.2 | 02 50.49 +30 52.3 16.6 | -0.85 | - 2.8 | 7.7/11.0  | 6329  |
| (18711)                | 2000 11 06.7 | 02 48.85 +09 24.9 18.3 | -0.85 | - 8.5 | 2.4/04.8 | 5272  | 2000 RV <sub>67</sub>  | 2000 11 07.2 | 02 50.51 +17 18.9 18.0 | -1.07 | - 0.1 | 0.5/07.4  | 6330  |
| 2000 RD <sub>55</sub>  | 2000 11 06.7 | 02 48.87 +32 46.3 16.6 | -0.93 | - 4.6 | 5.7/11.3 | 6328  | 1999 JO <sub>79</sub>  | 2000 11 07.2 | 02 50.54 +16 07.9 19.2 | -1.03 | - 3.8 | 0.1/07.2  | 6235  |
| 1999 JY <sub>62</sub>  | 2000 11 06.7 | 02 48.88 +15 05.3 18.7 | -1.03 | - 6.6 | 0.4/06.5 | 6233  | 2000 RO <sub>72</sub>  | 2000 11 07.2 | 02 50.60 +21 32.0 18.4 | -1.10 | - 0.8 | 2.6/08.3  | 6331  |
| 2000 SO <sub>155</sub> | 2000 11 06.7 | 02 48.89 +12 09.7 18.8 | -0.92 | + 0.1 | 1.2/06.0 | 6010  | 1993 FZ <sub>31</sub>  | 2000 11 07.2 | 02 50.69 +05 15.7 16.9 | -0.87 | - 5.6 | 5.1/04.3  | 6187  |
| 1981 EG <sub>9</sub>   | 2000 11 06.7 | 02 48.94 +19 05.6 19.2 | -0.81 | - 4.2 | 0.8/07.5 | 6179  | (11423)                | 2000 11 07.2 | 02 50.78 +20 07.2 16.7 | -0.94 | - 6.6 | 1.6/08.2  | 3859  |
| (18454)                | 2000 11 06.7 | 02 48.96 +23 04.1 16.7 | -1.13 | - 5.4 | 2.7/08.4 | 5197  | 1998 FX <sub>60</sub>  | 2000 11 07.2 | 02 50.79 +19 53.1 18.1 | -0.93 | - 3.1 | 1.2/08.1  | 6208  |
| 1999 NK <sub>20</sub>  | 2000 11 06.8 | 02 48.87 +12 26.6 19.4 | -1.02 | - 3.8 | 1.3/05.9 | 6240  | (11268)                | 2000 11 07.2 | 02 50.83 +13 29.6 15.7 | -0.87 | - 7.2 | 1.4/06.5  | 35558 |
| 1981 ES <sub>2</sub>   | 2000 11 06.8 | 02 49.04 +26 22.0 19.0 | -1.08 | - 6.6 | 4.1/09.4 | 5383  | 1998 HG <sub>153</sub> | 2000 11 07.2 | 02 50.90 -12 45.7 16.5 | -0.77 | - 5.3 | 12.1/29.6 | 5486  |
| 1994 SC <sub>5</sub>   | 2000 11 06.8 | 02 49.07 +16 20.4 19.1 | -0.83 | - 3.3 | 7.4/18.0 | 35691 | 1999 GM <sub>3</sub>   | 2000 11 07.2 | 02 50.94 +21 41.1 19.4 | -1.20 | - 2.8 | 2.2/08.4  | 5524  |
| 1999 JA <sub>49</sub>  | 2000 11 06.8 | 02 49.13 +18 25.9 18.4 | -0.95 | - 7.1 | 0.8/07.4 | 5549  | 1999 JU <sub>65</sub>  | 2000 11 07.2 | 02 50.94 +16 35.0 19.4 | -1.09 | - 2.7 | 0.1/07.3  | 5559  |
| (17688)                | 2000 11 06.8 | 02 49.20 +27 45.3 15.9 | -1.01 | - 1.9 | 4.7/09.4 | 4123  | 1998 FP <sub>45</sub>  | 2000 11 07.3 | 02 50.89 +10 21.7 18.3 | -0.99 | - 4.4 | 2.5/05.9  | 5459  |
| (18354)                | 2000 11 06.8 | 02 49.20 +14 00.9 17.0 | -0.88 | - 5.9 | 0.8/06.3 | 5169  | 1990 WE <sub>5</sub>   | 2000 11 07.3 | 02 51.00 +05 50.5 17.8 | -1.03 | - 3.0 | 4.7/05.0  | 5391  |
| 2000 RA <sub>60</sub>  | 2000 11 06.8 | 02 49.25 +08 58.6 17.3 | -1.00 | - 4.6 | 3.5/05.2 | 6329  | 1122 T-3               | 2000 11 07.3 | 02 51.12 +22 21.2 18.3 | -0.80 | - 5.3 | 1.7/08.9  | 6164  |
| 2000 UY <sub>18</sub>  | 2000 11 06.8 | 02 49.27 +21 54.8 19.8 | -1.05 | - 5.7 | 2.0/08.3 | 6116  | (18455)                | 2000 11 07.3 | 02 51.21 +08 45.5 18.4 | -1.07 | - 4.2 | 3.0/05.6  | 5197  |
| 1995 BZ <sub>11</sub>  | 2000 11 06.8 | 02 49.32 +07 57.6 18.1 | -1.03 | - 3.5 | 3.8/05.1 | 6191  | 1999 HG <sub>2</sub>   | 2000 11 07.3 | 02 51.24 +16 01.7 18.0 | -1.05 | - 6.0 | 0.1/07.3  | 6227  |
| 2000 UB <sub>8</sub>   | 2000 11 06.9 | 02 49.27 +16 03.8 18.4 | -0.95 | - 3.6 | 9.6/18.0 | 6111  | (16426)                | 2000 11 07.3 | 02 51.30 +56 43.7 16.2 | -2.03 | + 3.2 | 20.5/17.6 | 2830  |
| (19010)                | 2000 11 06.9 | 02 49.34 +09 30.5 17.3 | -0.73 | - 9.3 | 2.0/04.9 | 5360  | 1999 JP <sub>122</sub> | 2000 11 07.3 | 02 51.33 +09 26.2 18.3 | -0.99 | - 1.9 | 2.4/06.0  | 6237  |
| 2000 SL <sub>42</sub>  | 2000 11 06.9 | 02 49.40 +09 21.8 17.6 | -0.76 | - 8.9 | 2.4/04.9 | 5947  | (18561)                | 2000 11 07.4 | 02 51.28 +11 37.7 18.0 | -0.87 | - 3.2 | 1.7/06.3  | 5228  |
| 2000 SN <sub>179</sub> | 2000 11 06.9 | 02 49.41 +20 07.8 18.1 | -0.88 | - 7.6 | 1.2/08.0 | 6026  | 1994 PV <sub>5</sub>   | 2000 11 07.4 | 02 51.33 +16 49.4 17.6 | -0.84 | - 4.1 | 0.1/07.5  | 29620 |
| 3727 T-3               | 2000 11 06.9 | 02 49.48 +30 09.9 18.0 | -1.05 | + 1.1 | 4.7/09.6 | 6171  | (18425)                | 2000 11 07.4 | 02 51.37 +13 22.3 18.3 | -1.02 | - 3.6 | 1.1/06.7  | 5189  |
| 2000 OO <sub>22</sub>  | 2000 11 06.9 | 02 49.58 +06 45.6 16.2 | -0.74 | - 3.4 | 5.4/04.6 | 6278  | 1996 RK <sub>3</sub>   | 2000 11 07.4 | 02 51.38 +08 53.2 18.8 | -1.08 | - 3.2 | 2.9/05.8  | 6193  |
| 1998 FP <sub>60</sub>  | 2000 11 06.9 | 02 49.61 +19 38.1 18.8 | -1.08 | - 2.9 | 1.3/07.7 | 6208  | (17495)                | 2000 11 07.4 | 02 51.40 +06 45.9 16.7 | -1.07 | - 3.6 | 3.8/05.3  | 4067  |
| 1999 ND <sub>19</sub>  | 2000 11 06.9 | 02 49.61 +13 27.9 19.3 | -1.01 | - 3.9 | 1.0/06.3 | 5584  | 2000 SE <sub>270</sub> | 2000 11 07.4 | 02 51.42 +07 54.6 18.0 | -0.92 | - 0.1 | 3.0/05.8  | 6063  |
| (10871)                | 2000 11 06.9 | 02 49.65 +17 48.1 16.7 | -1.07 | - 3.3 | 0.6/07.3 | 3859  | 1998 FY <sub>59</sub>  | 2000 11 07.4 | 02 51.43 +11 22.4 18.3 | -0.91 | - 4.5 | 1.9/06.2  | 5462  |
| (17769)                | 2000 11 06.9 | 02 49.74 +20 33.3 17.2 | -1.13 | - 0.9 | 1.8/07.8 | 4146  | 2000 UC <sub>8</sub>   | 2000 11 07.4 | 02 51.47 +14 41.5 16.8 | -0.98 | - 5.2 | 0.8/07.0  | 6111  |
| (10479)                | 2000 11 06.9 | 02 49.76 +13 00.1 16.6 | -1.13 | - 2.0 | 1.2/06.3 | 34431 | (18683)                | 2000 11 07.4 | 02 51.49 +25 57.2 18.6 | -0.84 | - 4.1 | 2.5/09.9  | 5264  |
| 1998 FU <sub>55</sub>  | 2000 11 06.9 | 02 49.77 +14 00.2 18.2 | -1.04 | - 2.7 | 1.0/06.5 | 5461  | 1999 KO <sub>4</sub>   | 2000 11 07.4 | 02 51.51 +11 53.8 18.9 | -0.98 | - 4.8 | 1.6/06.4  | 6238  |
| 1999 JN <sub>99</sub>  | 2000 11 07.0 | 02 49.76 +03 57.4 19.2 | -0.86 | - 6.8 | 4.3/03.8 | 6236  | 1999 LE <sub>14</sub>  | 2000 11 07.4 | 02 51.67 +20 44.0 17.9 | -0.90 | - 9.4 | 1.5/08.7  | 5580  |
| 2000 UT <sub>22</sub>  | 2000 11 07.0 | 02 49.77 +07 44.5 17.7 | -0.89 | - 3.7 | 3.4/05.0 | 6425  | 2000 SF <sub>126</sub> | 2000 11 07.4 | 02 51.67 +12 53.5 16.9 | -1.09 | + 3.2 | 1.8/06.9  | 6370  |
| (17840)                | 2000 11 07.0 | 02 49.81 +05 42.9 17.0 | -0.72 | - 7.5 | 3.1/04.0 | 4169  | (11550)                | 2000 11 07.4 | 02 51.77 +31 52.9 16.8 | -1.05 | - 3.5 | 5.3/11.1  | 35845 |
| 1364 T-2               | 2000 11 07.0 | 02 49.83 +12 19.2 17.8 | -0.87 | - 6.0 | 1.4/06.0 | 6439  | 2000 QK <sub>128</sub> | 2000 11 07.5 | 02 51.75 +14 52.1 16.1 | -0.97 | - 3.0 | 0.8/07.2  | 6303  |
| 1995 HS <sub>2</sub>   | 2000 11 07.0 | 02 49.85 +11 55.2 19.3 | -1.00 | - 3.4 | 1.6/06.1 | 6191  | 1998 FS <sub>51</sub>  | 2000 11 07.5 | 02 51.77 +06 20.0 18.9 | -0.87 | - 4.4 | 3.5/05.1  | 6207  |
| 1999 JP <sub>92</sub>  | 2000 11 07.0 | 02 49.87 +03 01.9 17.4 | -0.96 | - 4.1 | 5.1/04.0 | 6236  | 2000 RG <sub>72</sub>  | 2000 11 07.5 | 02 51.81 +12 07.7 17.1 | -0.72 | - 8.5 | 2.1/06.3  | 6331  |
| 1981 ER <sub>12</sub>  | 2000 11 07.0 | 02 49.88 +31 37.7 20.3 | -0.93 | - 2.4 | 4.3/10.7 | 5383  | 2000 RP <sub>48</sub>  | 2000 11 07.5 | 02 52.05 +31 05.6 17.9 | -1.01 | - 1.3 | 5.2/10.8  | 5908  |
| 1998 KR <sub>7</sub>   | 2000 11 07.0 | 02 49.89 +01 23.4 18.2 | -0.95 | - 0.4 | 4.8/04.0 | 6214  | 1998 DD <sub>9</sub>   | 2000 11 07.5 | 02 52.05 +01 45.0 19.5 | -0.84 | - 4.1 | 4.4/04.0  | 4364  |
| (11813)                | 2000 11 07.0 | 02 49.90 +09 15.2 18.5 | -0.77 | - 4.3 | 2.0/05.3 | 36222 | 1998 HZ <sub>117</sub> | 2000 11 07.5 | 02 52.06 +03 18.4 17.2 | -0.93 | - 5.2 | 4.9/04.3  | 6213  |
| 1999 JR <sub>100</sub> | 2000 11 07.0 | 02 49.91 -04 48.2 18.7 | -1.01 | + 0.4 | 7.5/03.1 | 35468 | 1993 FT <sub>10</sub>  | 2000 11 07.6 | 02 52.07 +10 22.4 19.5 | -0.88 | - 4.7 | 2.0/06.1  | 26564 |
| (11692)                | 2000 11 07.0 | 02 49.96 +10 42.8 18.7 | -0.79 | - 3.6 | 1.5/05.7 | 35882 | 1994 AV <sub>1</sub>   | 2000 11 07.6 | 02 52.14 +26 43.3 17.4 | -1.10 | - 4.8 | 4.0/10.0  | 6189  |
| 1999 JO <sub>53</sub>  | 2000 11 07.0 | 02 50.00 +02 35.2 17.3 | -1.05 | + 2.3 | 5.8/04.9 | 6232  | (18813)                | 2000 11 07.6 | 02 52.23 +12 15.3 16.9 | -0.88 | - 7.7 | 1.4/06.5  | 5303  |
| 2000 ST <sub>156</sub> | 2000 11 07.0 | 02 50.03 +13 38.7 18.0 | -1.17 | + 2.9 | 1.0/06.7 | 6012  | 1999 FF <sub>29</sub>  | 2000 11 07.6 | 02 52.24 +10 12.6 18.9 | -1.07 | - 4.8 | 2.4/06.2  | 6224  |
| 1998 HD <sub>139</sub> | 2000 11 07.0 | 02 50.08 -03 41.3 16.9 | -0.85 | - 7.7 | 8.6/01.1 | 5485  | (12115)                | 2000 11 07.6 | 02 52.27 +01 12.2 16.9 | -0.72 | - 6.5 | 4.2/03.3  | 36305 |
| 1999 JZ <sub>63</sub>  | 2000 11 07.0 | 02 50.08 +07 12.9 16.7 | -0.87 | - 5.7 | 3.8/04.8 | 6233  | 2000 SM <sub>225</sub> | 2000 11 07.6 | 02 52.35 +01 51.3 17.7 | -0.96 | - 4.9 | 6.8/04.0  | 6392  |
| (17638)                | 2000 11 07.0 | 02 50.10 +19 46.8 18.3 | -1.09 | - 4.3 | 1.5/07.9 | 4108  | (18825)                | 2000 11 07.6 | 02 52.38 +19 46.3 18.9 | -0.90 | - 4.5 | 1.1/08.5  | 5306  |
| (17558)                | 2000 11 07.0 | 02 50.13 +08 24.7 16.9 | -0.97 | - 5.0 | 3.3/05.2 | 4085  | (18161)                | 2000 11 07.6 | 02 52.41 +27 52.5 16.0 | -0.98 | - 1.4 | 3.9/10.2  | 4262  |
| 1998 FX <sub>30</sub>  | 2000 11 07.1 | 02 50.08 +23 36.7 18.3 | -1.14 | - 1.7 | 3.1/08.6 | 6206  | 1998 HH <sub>45</sub>  | 2000 11 07.6 | 02 52.42 +22 03.0 18.0 | -0.93 | - 4.5 | 2.0/09.0  | 5479  |
| (19014)                | 2000 11 07.1 | 02 50.12 +10 57.7 16.9 | -0.91 | - 2.2 | 2.0/05.9 | 5361  | 2000 RO <sub>7</sub>   | 2000 11 07.6 | 02 52.42 +15 58.2 16.7 | -0.97 | - 2.3 | 0.2/07.6  | 6316  |
| 1145 T-1               | 2000 11 07.1 | 02 50.21 +22 41.2 18.5 | -1.04 | - 4.3 | 2.4/08.6 | 6439  | 1999 LF <sub>26</sub>  | 2000 11 07.6 | 02 52.49 +04 37.5 18.6 | -0.92 | - 2.4 | 4.0/05.1  | 6239  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1969 GB                | 2000 11 07.6 | 02 52.52 +26 40.5 18.2 | -0.82 - 4.9 | 2.8/10.4  | 958   |
| 1998 FG <sub>68</sub>  | 2000 11 07.7 | 02 52.49 +25 05.0 18.4 | -0.90 - 1.8 | 2.4/09.6  | 5464  |
| 2000 SV <sub>271</sub> | 2000 11 07.7 | 02 52.56 +03 01.1 18.6 | -0.74 - 6.7 | 4.4/03.9  | 6064  |
| (18553)                | 2000 11 07.7 | 02 52.64 +17 12.4 18.3 | -0.81 - 3.3 | 0.2/07.9  | 5225  |
| 2000 SS <sub>179</sub> | 2000 11 07.7 | 02 52.78 +24 32.4 18.1 | -1.01 - 2.2 | 2.7/09.5  | 6026  |
| 1999 JO <sub>120</sub> | 2000 11 07.7 | 02 52.79 +13 01.2 18.6 | -1.10 - 1.7 | 1.3/07.1  | 5575  |
| 1999 NS <sub>17</sub>  | 2000 11 07.7 | 02 52.82 +18 22.0 18.1 | -1.05 - 3.8 | 0.6/08.2  | 38800 |
| 1999 OX                | 2000 11 07.7 | 02 52.84 +27 40.1 17.4 | -0.95 - 5.4 | 3.9/10.6  | 6241  |
| 1999 NU <sub>32</sub>  | 2000 11 07.7 | 02 52.90 -00 39.4 18.2 | -0.80 - 1.8 | 5.2/03.9  | 6240  |
| (18283)                | 2000 11 07.7 | 02 52.96 +07 09.4 17.4 | -1.03 - 0.9 | 4.1/06.0  | 4297  |
| 2000 SG <sub>275</sub> | 2000 11 07.8 | 02 52.97 +06 39.9 17.9 | -0.81 - 9.4 | 3.8/05.0  | 6401  |
| 2000 SL <sub>225</sub> | 2000 11 07.8 | 02 52.98 +02 09.7 16.4 | -0.84 - 5.2 | 5.5/04.1  | 6392  |
| 1999 RD <sub>49</sub>  | 2000 11 07.8 | 02 52.98 +29 21.0 17.3 | -0.93 - 2.8 | 4.2/10.9  | 6244  |
| (10756)                | 2000 11 07.8 | 02 53.07 +10 24.5 15.6 | -1.04 - 0.6 | 3.2/06.7  | 3858  |
| 1998 FS <sub>109</sub> | 2000 11 07.8 | 02 53.11 +25 28.4 19.5 | -0.88 - 3.6 | 2.3/10.0  | 5468  |
| (18999)                | 2000 11 07.8 | 02 53.13 +12 24.0 16.5 | -0.92 - 0.8 | 1.8/07.0  | 5357  |
| 2000 UD <sub>7</sub>   | 2000 11 07.8 | 02 53.14 +14 46.9 15.9 | -1.09 - 1.6 | 0.8/07.5  | 6110  |
| 1979 MC <sub>3</sub>   | 2000 11 07.8 | 02 53.18 +13 49.8 19.7 | -0.95 - 4.6 | 0.9/07.2  | 5382  |
| (17627)                | 2000 11 07.8 | 02 53.20 +15 06.0 16.6 | -0.82 - 3.7 | 0.5/07.5  | 4105  |
| 1995 TX <sub>7</sub>   | 2000 11 07.8 | 02 53.22 +18 18.0 20.1 | -0.87 - 3.7 | 0.5/08.3  | 3137  |
| 1999 JZ <sub>13</sub>  | 2000 11 07.8 | 02 53.24 +07 18.9 16.6 | -0.82 -24.0 | 4.1/04.4  | 6228  |
| 1999 JE <sub>99</sub>  | 2000 11 07.8 | 02 53.30 -01 00.7 19.3 | -0.87 - 3.4 | 5.7/03.9  | 35467 |
| 1999 KQ <sub>5</sub>   | 2000 11 07.8 | 02 53.31 -07 44.4 17.4 | -1.12 + 8.3 | 12.0/05.4 | 5577  |
| 2000 UC                | 2000 11 07.9 | 02 53.28 +25 38.3 17.6 | -1.10 - 1.7 | 4.6/09.9  | 6418  |
| 1999 JX <sub>75</sub>  | 2000 11 07.9 | 02 53.53 +20 14.8 17.5 | -1.18 - 3.6 | 1.5/08.7  | 6234  |
| 1998 DX                | 2000 11 07.9 | 02 53.56 +06 50.7 16.9 | -1.07 - 1.3 | 4.1/06.1  | 6203  |
| 1981 EA <sub>6</sub>   | 2000 11 07.9 | 02 53.61 +21 44.6 18.8 | -0.83 - 5.1 | 1.6/09.3  | 6179  |
| 1999 JZ <sub>119</sub> | 2000 11 07.9 | 02 53.65 +15 21.1 18.7 | -0.89 -10.5 | 0.5/07.6  | 5575  |
| 1999 JT <sub>8</sub>   | 2000 11 07.9 | 02 53.71 +24 24.5 20.0 | -0.97 - 9.2 | 2.6/10.2  | 5535  |
| 2000 UC <sub>23</sub>  | 2000 11 07.9 | 02 53.75 +09 51.9 17.6 | -0.87 - 3.3 | 2.9/06.4  | 6120  |
| 2000 UZ <sub>6</sub>   | 2000 11 08.0 | 02 53.72 +16 22.5 18.1 | -0.90 - 2.8 | 0.1/08.0  | 6109  |
| 1998 HD <sub>40</sub>  | 2000 11 08.0 | 02 53.83 +19 18.2 18.6 | -0.99 - 1.8 | 0.8/08.6  | 32328 |
| 2000 SR <sub>179</sub> | 2000 11 08.0 | 02 53.85 +25 34.6 16.6 | -1.00 - 2.8 | 4.1/10.1  | 6026  |
| (19034)                | 2000 11 08.0 | 02 53.86 +16 08.3 16.3 | -0.74 - 2.0 | 0.1/07.9  | 5367  |
| 2000 UD <sub>23</sub>  | 2000 11 08.0 | 02 53.88 +09 47.4 18.3 | -0.89 + 0.3 | 2.1/06.7  | 6120  |
| (12041)                | 2000 11 08.0 | 02 53.91 +03 35.2 18.5 | -0.71 - 4.7 | 3.5/04.7  | 36284 |
| 2000 UD <sub>37</sub>  | 2000 11 08.0 | 02 53.92 +13 16.0 18.8 | -1.06 - 3.4 | 1.5/07.3  | 6124  |
| 2000 RL <sub>67</sub>  | 2000 11 08.0 | 02 53.97 +05 21.4 17.5 | -0.86 - 5.3 | 5.4/05.3  | 6330  |
| (11717)                | 2000 11 08.0 | 02 53.99 +17 17.5 16.9 | -0.82 - 3.3 | 0.2/08.2  | 35889 |
| 1993 FR <sub>29</sub>  | 2000 11 08.0 | 02 54.02 +13 02.9 16.2 | -0.85 - 7.4 | 1.3/07.1  | 5396  |
| 1981 DP                | 2000 11 08.0 | 02 54.05 +18 21.1 18.8 | -1.02 - 7.4 | 0.6/08.5  | 6179  |
| 1981 EM <sub>29</sub>  | 2000 11 08.0 | 02 54.10 +25 39.6 19.6 | -1.09 - 5.4 | 3.4/10.3  | 5383  |
| 1981 EV <sub>15</sub>  | 2000 11 08.1 | 02 54.20 +31 40.7 19.6 | -1.09 - 2.1 | 5.2/11.4  | 6179  |
| (18782)                | 2000 11 08.1 | 02 54.23 +10 34.5 18.6 | -0.99 - 4.9 | 2.3/06.7  | 5294  |
| (18967)                | 2000 11 08.1 | 02 54.27 +25 48.5 17.5 | -0.94 - 6.1 | 3.1/10.6  | 5348  |
| (16456)                | 2000 11 08.1 | 02 54.28 +13 20.2 16.1 | -0.97 - 1.4 | 1.7/07.5  | 2839  |
| 2000 SK <sub>23</sub>  | 2000 11 08.1 | 02 54.42 +05 29.4 17.8 | -0.74 - 9.4 | 3.6/04.9  | 6344  |
| 2000 RN <sub>4</sub>   | 2000 11 08.1 | 02 54.42 +02 35.0 17.3 | -0.90 - 4.4 | 6.5/04.8  | 6315  |
| 2000 ST <sub>293</sub> | 2000 11 08.1 | 02 54.53 +32 09.5 16.8 | -1.02 - 2.1 | 6.7/12.0  | 6404  |
| 1993 TT <sub>38</sub>  | 2000 11 08.1 | 02 54.54 +06 06.1 18.0 | -1.05 - 3.6 | 4.5/05.9  | 5401  |
| 1996 VR <sub>4</sub>   | 2000 11 08.2 | 02 54.52 +12 07.0 15.3 | -1.04 + 1.8 | 2.1/07.4  | 6195  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 2081 T-2               | 2000 11 08.2 | 02 54.69 +21 01.2 19.3 | -1.04 - 4.5 | 1.7/09.2  | 6439  |
| 1998 FM <sub>106</sub> | 2000 11 08.2 | 02 54.72 +22 06.3 17.3 | -0.92 - 5.2 | 2.0/09.6  | 5467  |
| 1999 NP <sub>64</sub>  | 2000 11 08.2 | 02 54.74 -00 54.0 19.2 | -0.81 - 2.6 | 5.5/04.2  | 6241  |
| 1998 FO <sub>104</sub> | 2000 11 08.2 | 02 54.80 +14 39.7 16.4 | -0.96 - 9.7 | 0.8/07.7  | 6210  |
| 2000 UH <sub>25</sub>  | 2000 11 08.3 | 02 54.88 +09 44.0 18.2 | -0.98 - 5.3 | 2.9/06.7  | 6121  |
| (17387)                | 2000 11 08.3 | 02 54.92 +26 26.6 17.4 | -1.08 - 1.4 | 4.0/10.3  | 4037  |
| 1996 VM                | 2000 11 08.3 | 02 54.95 +05 16.8 17.9 | -1.02 0.0   | 3.9/06.2  | 6195  |
| 1998 EC <sub>14</sub>  | 2000 11 08.3 | 02 54.96 +20 38.5 18.6 | -1.11 - 2.2 | 1.7/09.1  | 5452  |
| 2000 RB <sub>50</sub>  | 2000 11 08.3 | 02 54.97 +18 39.9 15.8 | -1.16 - 0.1 | 0.8/08.7  | 6327  |
| 2000 TL <sub>29</sub>  | 2000 11 08.3 | 02 55.01 +29 26.1 18.0 | -0.86 - 9.2 | 3.8/12.0  | 6097  |
| 2000 RD <sub>60</sub>  | 2000 11 08.3 | 02 55.17 +04 58.6 17.3 | -0.95 - 7.2 | 5.2/05.3  | 6329  |
| (18677)                | 2000 11 08.3 | 02 55.21 +24 09.9 16.9 | -1.02 - 1.7 | 2.4/10.0  | 5262  |
| 2000 SJ <sub>155</sub> | 2000 11 08.3 | 02 55.29 +08 02.4 17.9 | -0.87 - 5.2 | 3.9/06.2  | 6009  |
| (17845)                | 2000 11 08.4 | 02 55.30 +03 36.4 15.9 | -0.97 + 1.6 | 5.1/06.1  | 4170  |
| 2000 SR <sub>336</sub> | 2000 11 08.4 | 02 55.35 +10 30.1 17.6 | -0.83 -10.4 | 2.4/06.6  | 6088  |
| 1999 KD <sub>14</sub>  | 2000 11 08.4 | 02 55.44 +23 37.6 18.3 | -1.09 - 5.7 | 2.5/10.1  | 6238  |
| (18535)                | 2000 11 08.4 | 02 55.45 +21 35.4 17.0 | -0.91 - 8.9 | 1.8/09.8  | 5220  |
| 2000 RP <sub>72</sub>  | 2000 11 08.4 | 02 55.55 +18 04.1 15.6 | -0.96 - 3.4 | 0.6/08.8  | 5920  |
| 1998 BD <sub>42</sub>  | 2000 11 08.4 | 02 55.67 +08 32.6 19.4 | -1.08 - 2.9 | 3.0/06.7  | 31799 |
| (18464)                | 2000 11 08.4 | 02 55.74 +23 00.0 17.5 | -1.03 + 0.1 | 2.5/09.7  | 5200  |
| 1999 JB <sub>30</sub>  | 2000 11 08.4 | 02 55.77 +15 28.6 18.4 | -1.00 - 7.4 | 0.5/08.2  | 5541  |
| 1999 JH <sub>25</sub>  | 2000 11 08.5 | 02 55.72 +24 40.2 17.3 | -1.17 - 1.8 | 3.5/10.1  | 6229  |
| 2000 UW <sub>95</sub>  | 2000 11 08.5 | 02 55.82 +24 54.3 17.6 | -0.89 - 2.6 | 2.6/10.4  | 6133  |
| 2231 P-L               | 2000 11 08.5 | 02 55.83 +17 37.6 17.5 | -0.93 - 4.7 | 0.4/08.7  | 6437  |
| 1993 RU <sub>5</sub>   | 2000 11 08.5 | 02 55.84 +19 49.0 18.0 | -1.03 - 4.3 | 1.5/09.2  | 5398  |
| 1999 JO <sub>118</sub> | 2000 11 08.5 | 02 55.92 +12 16.6 19.6 | -1.01 - 3.5 | 1.5/07.6  | 35037 |
| 1999 JZ <sub>77</sub>  | 2000 11 08.5 | 02 55.96 +00 32.9 17.8 | -0.92 - 1.6 | 5.5/05.3  | 6234  |
| 2000 UL <sub>23</sub>  | 2000 11 08.5 | 02 55.96 +07 08.9 18.4 | -0.94 - 4.2 | 3.9/06.3  | 6120  |
| 1999 KO <sub>17</sub>  | 2000 11 08.5 | 02 55.97 +07 26.5 18.4 | -1.07 + 1.2 | 3.5/07.0  | 6238  |
| 1997 AX <sub>9</sub>   | 2000 11 08.5 | 02 56.09 +14 39.7 18.9 | -0.86 - 4.2 | 0.7/08.1  | 5426  |
| 2000 UJ <sub>23</sub>  | 2000 11 08.5 | 02 56.12 +08 55.2 18.5 | -0.91 - 2.4 | 3.1/06.9  | 6120  |
| 1999 JN <sub>76</sub>  | 2000 11 08.6 | 02 56.09 +06 05.2 19.1 | -1.03 - 3.1 | 3.8/06.3  | 5564  |
| 1999 CX <sub>3</sub>   | 2000 11 08.6 | 02 56.14 -23 32.6 20.1 | -1.10 - 5.9 | 16.9/27.6 | 34601 |
| 1999 JP <sub>50</sub>  | 2000 11 08.6 | 02 56.20 +08 46.1 17.7 | -1.08 - 2.9 | 3.1/07.0  | 5550  |
| 1999 JC <sub>29</sub>  | 2000 11 08.6 | 02 56.37 +22 32.2 18.4 | -1.05 - 7.8 | 2.2/10.2  | 5540  |
| 1996 TG <sub>13</sub>  | 2000 11 08.6 | 02 56.40 +20 27.9 17.7 | -1.03 - 3.6 | 1.6/09.5  | 6194  |
| 1997 YG <sub>17</sub>  | 2000 11 08.6 | 02 56.45 +03 47.2 18.6 | -1.02 - 2.3 | 4.9/06.0  | 6200  |
| 1998 FR <sub>74</sub>  | 2000 11 08.6 | 02 56.54 +14 32.2 19.2 | -1.04 - 4.1 | 0.9/08.2  | 34531 |
| 1999 RZ <sub>117</sub> | 2000 11 08.7 | 02 56.70 +29 17.1 17.9 | -0.89 - 4.8 | 3.7/12.0  | 5603  |
| (18785)                | 2000 11 08.7 | 02 56.86 +18 47.8 15.7 | -0.96 - 7.5 | 0.9/09.3  | 5294  |
| 2000 RZ <sub>73</sub>  | 2000 11 08.7 | 02 56.87 +17 13.8 16.7 | -0.99 - 4.3 | 0.2/08.9  | 5921  |
| 2000 RW <sub>54</sub>  | 2000 11 08.7 | 02 56.95 +29 21.0 17.7 | -0.93 -10.5 | 6.0/12.6  | 6328  |
| 1999 KN <sub>14</sub>  | 2000 11 08.8 | 02 57.02 +11 10.3 19.4 | -0.95 - 4.6 | 2.0/07.5  | 6238  |
| 1992 UN <sub>5</sub>   | 2000 11 08.8 | 02 57.04 +10 57.3 16.2 | -0.88 + 2.4 | 1.9/07.8  | 6186  |
| 1998 HP <sub>144</sub> | 2000 11 08.8 | 02 57.04 +18 37.1 18.7 | -1.03 - 2.3 | 0.6/09.2  | 5485  |
| 2000 RM <sub>4</sub>   | 2000 11 08.8 | 02 57.05 +13 48.8 16.3 | -0.95 + 3.1 | 1.6/08.4  | 6315  |
| 2000 US <sub>7</sub>   | 2000 11 08.8 | 02 57.05 +18 38.8 16.8 | -1.15 + 1.5 | 0.8/09.1  | 6110  |
| (17552)                | 2000 11 08.8 | 02 57.10 +07 26.3 17.5 | -0.95 - 5.7 | 4.4/06.6  | 4083  |
| 2000 RY <sub>49</sub>  | 2000 11 08.8 | 02 57.17 +19 57.2 17.4 | -1.18 - 3.2 | 1.4/09.5  | 5910  |
| 1999 ND <sub>42</sub>  | 2000 11 08.8 | 02 57.25 +14 38.9 18.9 | -0.80 - 3.6 | 0.7/08.4  | 5585  |
| 1997 BH <sub>9</sub>   | 2000 11 08.8 | 02 57.29 +12 34.9 18.2 | -0.86 - 3.7 | 1.4/07.9  | 5428  |

|                        |              |                        |             |           |       |                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1999 JH                | 2000 11 08.8 | 02 57.30 +43 01.6 18.2 | -2.25 +10.4 | 13.0/10.6 | 6227  | (18722)                | 2000 11 09.4 | 02 59.73 +14 47.2 17.7 | -0.79 - 3.8 | 0.7/09.0  | 5275  |
| 1999 JB <sub>94</sub>  | 2000 11 08.9 | 02 57.30 +00 43.8 16.9 | -0.90 - 3.3 | 6.9/05.3  | 6236  | (18034)                | 2000 11 09.4 | 02 59.75 +15 15.1 16.9 | -0.85 - 4.1 | 0.6/09.1  | 4226  |
| 1999 JB <sub>64</sub>  | 2000 11 08.9 | 02 57.51 +08 57.3 18.2 | -1.08 - 1.2 | 2.8/07.4  | 6233  | (18723)                | 2000 11 09.5 | 02 59.85 +16 21.6 17.9 | -0.80 - 2.9 | 0.2/09.4  | 5275  |
| 1999 RY <sub>125</sub> | 2000 11 08.9 | 02 57.53 +39 36.4 18.8 | -0.99 - 2.9 | 6.0/14.8  | 40365 | 1999 JH <sub>24</sub>  | 2000 11 09.5 | 02 59.95 +20 48.5 17.6 | -1.17 - 1.5 | 1.6/10.3  | 6229  |
| 1997 EJ <sub>55</sub>  | 2000 11 08.9 | 02 57.68 +18 41.7 18.4 | -0.81 - 3.2 | 0.5/09.4  | 6197  | 2000 UP <sub>23</sub>  | 2000 11 09.5 | 03 00.08 +08 06.4 18.4 | -0.84 - 8.8 | 3.5/07.1  | 6120  |
| 1998 DN <sub>10</sub>  | 2000 11 08.9 | 02 57.76 -04 51.3 17.2 | -0.88 - 4.3 | 8.1/03.8  | 6203  | (11097)                | 2000 11 09.5 | 03 00.08 +17 02.8 16.5 | -0.83 - 2.5 | 0.0/09.6  | 35236 |
| 2000 SB <sub>226</sub> | 2000 11 08.9 | 02 57.77 +08 55.1 18.1 | -1.19 + 3.4 | 3.5/07.9  | 6045  | 2000 TV <sub>55</sub>  | 2000 11 09.5 | 03 00.14 +04 45.8 17.3 | -1.11 - 0.9 | 5.5/07.4  | 6102  |
| 2000 UK <sub>40</sub>  | 2000 11 09.0 | 02 57.70 +12 50.9 18.0 | -0.89 - 6.8 | 1.3/08.0  | 6124  | 1999 JY <sub>5</sub>   | 2000 11 09.5 | 03 00.15 -12 41.1 19.2 | -1.15 + 2.8 | 10.3/05.0 | 5534  |
| 1998 HK <sub>7</sub>   | 2000 11 09.0 | 02 57.80 +12 05.0 16.3 | -1.56 + 8.7 | 2.3/08.6  | 6211  | 2000 RU <sub>78</sub>  | 2000 11 09.6 | 03 00.20 +06 23.3 17.3 | -0.80 - 6.3 | 3.9/06.9  | 6333  |
| (17779)                | 2000 11 09.0 | 02 57.81 +16 38.9 17.5 | -0.86 - 4.0 | 0.1/09.0  | 4149  | 1996 YY <sub>1</sub>   | 2000 11 09.6 | 03 00.21 +09 58.3 17.2 | -0.91 - 1.5 | 3.2/08.2  | 6196  |
| 1999 JT <sub>65</sub>  | 2000 11 09.0 | 02 57.83 +14 46.8 18.3 | -1.08 - 4.5 | 0.8/08.6  | 5559  | 2000 UC <sub>2</sub>   | 2000 11 09.6 | 03 00.37 +09 31.5 18.0 | -1.05 - 4.8 | 3.6/08.0  | 6419  |
| 1996 TC <sub>63</sub>  | 2000 11 09.0 | 02 57.94 -01 42.4 18.2 | -0.85 - 9.0 | 7.9/03.6  | 5420  | (18710)                | 2000 11 09.6 | 03 00.48 +09 53.8 17.3 | -0.91 - 3.6 | 2.3/08.1  | 5272  |
| 1999 JJ <sub>3</sub>   | 2000 11 09.0 | 02 58.17 +05 35.0 16.7 | -1.06 - 0.4 | 5.3/07.0  | 6227  | 2000 UK <sub>4</sub>   | 2000 11 09.6 | 03 00.49 +11 41.8 17.2 | -0.96 - 4.5 | 2.7/08.5  | 6108  |
| 1999 MA <sub>1</sub>   | 2000 11 09.0 | 02 58.19 +13 01.3 20.6 | -1.00 - 3.6 | 1.3/08.2  | 35738 | 1999 NQ <sub>1</sub>   | 2000 11 09.6 | 03 00.49 -18 32.2 18.9 | -0.85 - 3.3 | 9.6/31.8  | 4943  |
| (17696)                | 2000 11 09.1 | 02 58.10 +30 01.0 17.1 | -0.98 - 1.5 | 4.5/11.9  | 4125  | 1999 JG <sub>71</sub>  | 2000 11 09.6 | 03 00.53 +07 32.2 19.4 | -0.96 - 4.2 | 3.5/07.6  | 5562  |
| 1978 VW <sub>4</sub>   | 2000 11 09.1 | 02 58.11 +17 24.3 17.6 | -0.99 - 2.8 | 0.2/09.2  | 6178  | 3336 T-3               | 2000 11 09.6 | 03 00.56 +14 50.1 18.4 | -1.09 - 4.4 | 1.0/09.2  | 6169  |
| 2000 UG <sub>37</sub>  | 2000 11 09.1 | 02 58.12 +12 53.3 17.9 | -0.91 - 5.8 | 1.6/08.1  | 6124  | 1998 HN <sub>30</sub>  | 2000 11 09.7 | 03 00.67 +12 57.2 19.0 | -0.92 - 3.2 | 1.4/08.8  | 5477  |
| (19015)                | 2000 11 09.1 | 02 58.16 +05 17.4 17.0 | -0.82 - 6.1 | 4.4/06.1  | 5361  | (18807)                | 2000 11 09.7 | 03 00.67 -24 41.6 16.7 | -0.75 -10.0 | 18.3/23.8 | 5301  |
| 2000 UP <sub>7</sub>   | 2000 11 09.1 | 02 58.39 +13 33.8 17.8 | -0.99 - 5.0 | 1.3/08.4  | 6110  | 1981 EY <sub>16</sub>  | 2000 11 09.7 | 03 00.69 +18 17.5 17.2 | -0.98 - 6.6 | 0.6/10.0  | 6179  |
| 4264 T-2               | 2000 11 09.1 | 02 58.40 +25 40.3 19.5 | -1.08 - 0.5 | 2.9/10.9  | 6161  | 2000 UL <sub>37</sub>  | 2000 11 09.7 | 03 00.72 +14 15.9 18.7 | -0.94 - 5.5 | 0.9/09.1  | 6124  |
| 1999 LE                | 2000 11 09.1 | 02 58.41 +03 51.1 19.8 | -0.92 - 4.7 | 4.6/06.1  | 35385 | 2000 UC <sub>24</sub>  | 2000 11 09.7 | 03 00.77 +07 19.2 17.7 | -1.05 - 1.1 | 4.9/07.9  | 6121  |
| 1999 LG <sub>14</sub>  | 2000 11 09.1 | 02 58.45 +13 29.0 18.1 | -1.01 - 6.7 | 1.2/08.3  | 6239  | (17735)                | 2000 11 09.7 | 03 00.81 +24 45.5 17.2 | -1.00 - 6.5 | 3.8/12.0  | 4136  |
| 1998 ES                | 2000 11 09.1 | 02 58.46 +10 11.4 16.7 | -0.81 - 7.6 | 3.4/07.3  | 6204  | 1999 GQ <sub>19</sub>  | 2000 11 09.7 | 03 01.01 +18 10.2 17.3 | -1.17 - 1.8 | 0.4/10.0  | 6225  |
| 1998 KN <sub>45</sub>  | 2000 11 09.1 | 02 58.53 +15 22.2 18.8 | -0.79 - 2.9 | 0.4/08.8  | 6215  | 1999 PQ <sub>1</sub>   | 2000 11 09.8 | 03 00.98 +18 28.7 19.2 | -0.87 - 3.1 | 0.4/10.1  | 6242  |
| (18559)                | 2000 11 09.1 | 02 58.55 +03 44.0 18.4 | -0.76 - 4.4 | 3.8/05.9  | 5227  | (18805)                | 2000 11 09.8 | 03 01.00 +05 01.7 17.5 | -1.01 - 5.7 | 5.0/07.0  | 5300  |
| (17766)                | 2000 11 09.1 | 02 58.58 +27 14.1 17.8 | -1.12 - 0.5 | 3.4/11.2  | 4145  | 2000 SV <sub>225</sub> | 2000 11 09.8 | 03 01.04 +07 05.4 18.4 | -1.00 - 0.3 | 3.2/08.0  | 6045  |
| 1985 SG <sub>2</sub>   | 2000 11 09.1 | 02 58.58 +27 04.2 17.3 | -0.99 - 4.3 | 3.3/12.0  | 5386  | 1998 FC <sub>107</sub> | 2000 11 09.8 | 03 01.04 +18 16.1 18.0 | -0.99 - 7.4 | 0.5/10.1  | 6210  |
| 2000 SC <sub>239</sub> | 2000 11 09.2 | 02 58.52 +01 29.0 16.8 | -0.89 - 0.9 | 6.6/06.1  | 6053  | (18606)                | 2000 11 09.8 | 03 01.06 +07 06.0 18.1 | -0.98 - 3.4 | 3.6/07.6  | 5240  |
| 2000 SS <sub>128</sub> | 2000 11 09.2 | 02 58.60 +06 05.2 18.3 | -0.68 - 4.6 | 5.0/06.4  | 6371  | 2000 RW <sub>67</sub>  | 2000 11 09.8 | 03 01.10 +04 50.4 17.7 | -0.81 - 9.6 | 5.1/06.3  | 6330  |
| 1998 FH <sub>18</sub>  | 2000 11 09.2 | 02 58.62 +14 03.5 18.3 | -1.01 - 4.7 | 1.1/08.6  | 6206  | 1998 FH <sub>146</sub> | 2000 11 09.8 | 03 01.18 -02 32.0 18.6 | -0.80 - 4.7 | 6.1/04.9  | 6211  |
| 2000 RU <sub>72</sub>  | 2000 11 09.2 | 02 58.74 +12 25.9 17.5 | -0.96 - 5.6 | 2.2/08.2  | 5921  | 1999 JJ <sub>80</sub>  | 2000 11 09.8 | 03 01.26 +01 36.9 18.8 | -0.89 - 4.9 | 5.3/06.3  | 6235  |
| (10997)                | 2000 11 09.2 | 02 58.76 +25 50.1 18.1 | -0.99 - 3.8 | 2.7/11.3  | 35211 | 1998 MB <sub>16</sub>  | 2000 11 09.8 | 03 01.34 +14 15.3 18.6 | -0.87 - 2.7 | 0.9/09.3  | 6215  |
| 1996 RX <sub>3</sub>   | 2000 11 09.2 | 02 58.88 +08 11.8 18.7 | -0.95 - 5.9 | 3.5/07.2  | 6193  | 1999 GQ <sub>33</sub>  | 2000 11 09.9 | 03 01.33 +06 42.1 17.5 | -1.10 - 2.2 | 4.5/07.9  | 6226  |
| (16874)                | 2000 11 09.2 | 02 58.99 +10 58.2 18.1 | -1.02 - 4.4 | 2.6/08.0  | 2960  | 1999 NG <sub>10</sub>  | 2000 11 09.9 | 03 01.44 +35 14.5 19.1 | -1.10 - 3.9 | 6.0/14.2  | 6240  |
| 1999 ND                | 2000 11 09.3 | 02 59.09 -09 02.1 18.2 | -0.90 0.0   | 8.6/04.1  | 6239  | (10452)                | 2000 11 09.9 | 03 01.46 +11 41.8 15.2 | -0.99 - 7.4 | 2.6/08.6  | 34424 |
| 1999 JG <sub>64</sub>  | 2000 11 09.3 | 02 59.13 +13 36.2 18.8 | -1.09 - 2.6 | 1.2/08.7  | 6233  | 2000 UB <sub>72</sub>  | 2000 11 09.9 | 03 01.59 +22 43.2 17.8 | -1.05 - 1.4 | 2.1/11.1  | 6131  |
| 1998 FU <sub>59</sub>  | 2000 11 09.3 | 02 59.14 +23 51.6 17.6 | -1.13 + 0.2 | 3.0/10.6  | 6208  | 1998 HK <sub>133</sub> | 2000 11 09.9 | 03 01.59 +10 22.9 18.5 | -0.92 - 3.2 | 2.3/08.5  | 6214  |
| 1979 MF <sub>2</sub>   | 2000 11 09.3 | 02 59.16 +15 25.5 18.4 | -1.09 - 4.9 | 0.7/09.0  | 6178  | 1996 XM <sub>13</sub>  | 2000 11 10.0 | 03 02.12 +14 12.8 18.0 | -0.95 - 2.9 | 1.0/09.4  | 6196  |
| 1999 PV <sub>2</sub>   | 2000 11 09.3 | 02 59.17 +33 36.6 20.4 | -1.06 - 2.7 | 4.7/13.1  | 36548 | 2000 RP <sub>4</sub>   | 2000 11 10.0 | 03 02.12 +19 33.7 16.2 | -1.21 + 6.0 | 1.2/10.4  | 6315  |
| 1204 T-2               | 2000 11 09.3 | 02 59.24 +19 28.3 18.7 | -1.13 - 3.4 | 1.0/09.9  | 6154  | (17792)                | 2000 11 10.0 | 03 02.15 -07 27.6 16.6 | -0.77 - 9.9 | 10.3/02.3 | 4153  |
| 2000 RS <sub>67</sub>  | 2000 11 09.3 | 02 59.27 +25 00.5 17.2 | -1.34 + 2.9 | 3.9/10.6  | 6330  | 1999 RL <sub>145</sub> | 2000 11 10.0 | 03 02.18 +32 36.9 19.7 | -1.02 - 3.9 | 4.4/13.7  | 5608  |
| 2000 UQ <sub>40</sub>  | 2000 11 09.4 | 02 59.32 +12 23.2 18.2 | -0.86 - 3.2 | 1.6/08.4  | 6125  | 2000 RQ <sub>46</sub>  | 2000 11 10.0 | 03 02.19 +18 47.4 16.5 | -0.73 -11.2 | 0.7/10.6  | 6326  |
| (17641)                | 2000 11 09.4 | 02 59.39 +09 46.5 18.1 | -0.95 - 6.1 | 2.8/07.7  | 4109  | 1996 XN <sub>17</sub>  | 2000 11 10.1 | 03 02.14 +07 58.5 17.1 | -1.13 + 4.3 | 4.2/08.9  | 6196  |
| 1998 DC <sub>33</sub>  | 2000 11 09.4 | 02 59.42 +29 20.5 19.1 | -1.18 - 1.6 | 4.3/11.9  | 6204  | (18603)                | 2000 11 10.1 | 03 02.15 +27 20.3 17.4 | -1.17 - 2.8 | 4.3/12.0  | 5239  |
| 2000 SQ <sub>227</sub> | 2000 11 09.4 | 02 59.43 +13 48.0 17.9 | -1.81 +11.5 | 1.7/09.3  | 6047  | 2000 UP <sub>4</sub>   | 2000 11 10.1 | 03 02.15 +11 40.4 18.3 | -1.02 - 1.8 | 2.7/09.0  | 6108  |
| 1998 HJ <sub>52</sub>  | 2000 11 09.4 | 02 59.46 +20 44.5 17.3 | -1.09 + 0.2 | 1.6/10.1  | 6213  | 2000 UH <sub>2</sub>   | 2000 11 10.1 | 03 02.25 +09 34.8 18.1 | -0.95 - 6.4 | 3.1/08.3  | 6107  |
| (11245)                | 2000 11 09.4 | 02 59.53 +12 19.7 18.5 | -0.98 - 4.4 | 1.6/08.4  | 35274 | 2000 RU <sub>77</sub>  | 2000 11 10.1 | 03 02.31 +10 46.1 17.6 | -0.91 - 3.5 | 3.1/08.7  | 5922  |
| (18498)                | 2000 11 09.4 | 02 59.55 +23 24.6 18.4 | -1.09 - 7.3 | 2.7/11.1  | 5209  | (17839)                | 2000 11 10.2 | 03 02.54 +15 51.3 15.3 | -0.78 - 9.6 | 0.5/09.8  | 4168  |
| 1993 TM <sub>23</sub>  | 2000 11 09.4 | 02 59.65 +07 18.3 17.5 | -0.96 - 6.6 | 4.5/07.0  | 6188  | 1999 GM <sub>7</sub>   | 2000 11 10.2 | 03 02.66 +15 39.1 18.4 | -1.11 - 4.7 | 0.7/09.9  | 5525  |
| 1998 HQ <sub>34</sub>  | 2000 11 09.4 | 02 59.73 +08 05.5 18.9 | -0.86 - 4.8 | 3.1/07.3  | 6212  | (18392)                | 2000 11 10.2 | 03 02.73 +00 59.4 17.8 | -0.98 - 3.2 | 6.0/06.8  | 5180  |
| 2000 UQ <sub>23</sub>  | 2000 11 09.4 | 02 59.73 +08 54.4 18.8 | -1.04 - 3.8 | 4.2/07.8  | 6121  | (17370)                | 2000 11 10.2 | 03 02.76 +37 30.6 17.8 | -0.96 - 3.2 | 5.9/15.2  | 4033  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1999 JD <sub>25</sub>  | 2000 11 10.2 | 03 02.78 +22 34.6 18.7 | -1.08 - 6.3 | 2.1/11.5  | 5540  |
| 1999 NZ <sub>3</sub>   | 2000 11 10.2 | 03 02.78 -01 08.8 18.2 | -0.89 - 3.9 | 5.6/06.0  | 4943  |
| 1994 PU <sub>14</sub>  | 2000 11 10.2 | 03 02.81 +14 32.1 18.0 | -0.84 - 4.1 | 0.9/09.6  | 5405  |
| 1999 NL <sub>48</sub>  | 2000 11 10.2 | 03 02.86 +03 25.7 18.1 | -0.79 - 5.2 | 4.5/06.8  | 6241  |
| 1999 JR <sub>68</sub>  | 2000 11 10.3 | 03 02.95 +13 25.8 18.3 | -1.06 - 2.7 | 1.5/09.5  | 5561  |
| (17422)                | 2000 11 10.3 | 03 02.96 +18 05.3 17.3 | -1.11 - 0.8 | 0.3/10.5  | 4046  |
| 2000 SM <sub>226</sub> | 2000 11 10.3 | 03 03.09 +15 54.2 17.1 | -1.81 +14.0 | 0.7/10.3  | 6046  |
| 1994 PW <sub>6</sub>   | 2000 11 10.3 | 03 03.11 +17 51.4 18.1 | -0.84 - 3.6 | 0.2/10.5  | 5404  |
| 1999 JO <sub>14</sub>  | 2000 11 10.3 | 03 03.13 +05 50.2 19.0 | -1.01 - 4.0 | 4.2/07.9  | 5537  |
| 1996 XO <sub>6</sub>   | 2000 11 10.3 | 03 03.15 +26 19.9 19.1 | -1.09 - 1.8 | 3.7/12.2  | 5424  |
| 1999 KT <sub>4</sub>   | 2000 11 10.3 | 03 03.18 +14 04.2 21.7 | -1.07 - 4.2 | 1.0/09.7  | 35121 |
| 1997 GB <sub>2</sub>   | 2000 11 10.3 | 03 03.31 +31 10.4 23.6 | -0.96 - 1.6 | 3.4/13.3  | 30085 |
| 1999 LG <sub>27</sub>  | 2000 11 10.3 | 03 03.32 +26 37.6 17.7 | -0.97 - 7.8 | 3.2/12.9  | 6239  |
| 2000 NA                | 2000 11 10.3 | 03 03.45 +19 34.4 19.0 | -1.19 - 2.6 | 1.0/10.8  | 6274  |
| 2000 UO <sub>23</sub>  | 2000 11 10.4 | 03 03.51 +10 30.0 17.2 | -0.85 - 2.6 | 2.7/09.0  | 6425  |
| 1999 JT <sub>77</sub>  | 2000 11 10.4 | 03 03.52 +08 22.2 19.3 | -0.99 - 4.6 | 3.2/08.5  | 6234  |
| (11615)                | 2000 11 10.4 | 03 03.52 +13 14.4 16.6 | -0.82 - 3.6 | 1.4/09.5  | 35862 |
| 2000 ST <sub>275</sub> | 2000 11 10.4 | 03 03.56 +09 20.4 17.6 | -0.95 - 9.8 | 3.3/08.3  | 6067  |
| (16943)                | 2000 11 10.4 | 03 03.57 +06 18.7 15.1 | -1.11 + 4.6 | 5.0/09.0  | 2980  |
| 2000 SU <sub>155</sub> | 2000 11 10.4 | 03 03.59 +09 05.8 17.6 | -0.77 - 5.8 | 2.7/08.4  | 6010  |
| 1981 EK <sub>31</sub>  | 2000 11 10.4 | 03 03.61 +32 43.3 18.8 | -1.13 - 1.5 | 6.0/13.7  | 26921 |
| 1998 FG <sub>43</sub>  | 2000 11 10.4 | 03 03.68 +01 32.1 18.9 | -0.81 - 5.9 | 4.6/06.5  | 6207  |
| (18519)                | 2000 11 10.4 | 03 03.74 +05 50.9 17.8 | -0.98 - 0.3 | 3.8/08.3  | 5215  |
| 2000 SA <sub>261</sub> | 2000 11 10.4 | 03 03.79 +08 11.4 18.1 | -0.88 - 8.1 | 4.3/08.0  | 6059  |
| 1993 FF <sub>21</sub>  | 2000 11 10.4 | 03 03.82 +21 24.0 17.0 | -0.95 - 3.0 | 1.5/11.4  | 6186  |
| (18482)                | 2000 11 10.5 | 03 03.93 +02 42.0 16.9 | -0.81 - 1.5 | 4.8/07.4  | 5205  |
| 1992 RV <sub>5</sub>   | 2000 11 10.5 | 03 03.97 +13 59.9 18.4 | -1.04 - 2.9 | 1.3/09.9  | 6186  |
| 1999 JQ <sub>76</sub>  | 2000 11 10.5 | 03 03.98 +07 58.3 18.9 | -1.00 - 5.4 | 3.7/08.4  | 6234  |
| (19032)                | 2000 11 10.5 | 03 04.03 +16 56.3 18.0 | -0.90 - 4.6 | 0.1/10.5  | 5367  |
| 1992 QS                | 2000 11 10.5 | 03 04.06 +42 43.7 16.5 | -1.40 + 0.9 | 11.7/16.0 | 4885  |
| 1993 TJ <sub>15</sub>  | 2000 11 10.5 | 03 04.11 +22 32.8 19.1 | -1.20 - 2.4 | 2.0/12.0  | 6188  |
| 1999 JT <sub>4</sub>   | 2000 11 10.5 | 03 04.12 +16 34.1 17.0 | -1.80 +11.6 | 0.4/10.5  | 5533  |
| 1992 FL <sub>3</sub>   | 2000 11 10.5 | 03 04.18 +14 01.4 19.5 | -0.80 - 3.4 | 0.9/09.8  | 6185  |
| 1999 LD <sub>27</sub>  | 2000 11 10.5 | 03 04.23 +00 49.4 18.8 | -0.98 - 0.5 | 5.7/07.5  | 6239  |
| 2000 SX <sub>126</sub> | 2000 11 10.6 | 03 04.25 +02 03.4 17.4 | -0.91 - 7.5 | 6.4/06.8  | 5991  |
| 2000 SG <sub>226</sub> | 2000 11 10.6 | 03 04.26 +05 40.5 17.3 | -1.15 - 0.6 | 4.8/08.7  | 6046  |
| 1999 JX <sub>22</sub>  | 2000 11 10.6 | 03 04.33 +17 11.9 19.4 | -1.06 - 4.5 | 0.1/10.6  | 4458  |
| 1097 T-3               | 2000 11 10.6 | 03 04.37 +21 16.8 16.9 | -0.87 - 7.8 | 1.6/11.7  | 6440  |
| 1999 JO <sub>92</sub>  | 2000 11 10.6 | 03 04.43 +06 44.6 19.5 | -0.99 - 4.6 | 4.0/08.3  | 6236  |
| 2000 SS <sub>275</sub> | 2000 11 10.6 | 03 04.45 +09 38.6 18.7 | -0.93 - 7.3 | 3.5/08.7  | 6067  |
| (18589)                | 2000 11 10.6 | 03 04.61 +19 45.0 16.7 | -1.10 - 2.1 | 1.2/11.2  | 5236  |
| (18958)                | 2000 11 10.7 | 03 04.61 +17 26.4 16.1 | -0.90 + 0.2 | 0.0/10.7  | 5345  |
| 2247 T-1               | 2000 11 10.7 | 03 04.61 +17 36.0 18.3 | -0.87 - 2.8 | 0.1/10.8  | 6151  |
| 2000 UV <sub>7</sub>   | 2000 11 10.7 | 03 04.74 +19 11.4 16.8 | -0.99 - 3.8 | 0.8/11.1  | 6110  |
| (12131)                | 2000 11 10.7 | 03 04.80 +18 35.6 18.0 | -0.88 - 3.8 | 0.4/11.0  | 36310 |
| 1994 SD <sub>11</sub>  | 2000 11 10.7 | 03 04.83 +16 52.0 18.0 | -0.85 - 2.5 | 0.2/10.6  | 5408  |
| (18253)                | 2000 11 10.7 | 03 04.85 +05 53.7 17.9 | -0.94 - 4.8 | 4.8/08.2  | 4288  |
| 1998 KH <sub>47</sub>  | 2000 11 10.7 | 03 04.91 +19 45.5 17.8 | -0.81 - 6.7 | 0.7/11.4  | 6215  |
| (10953)                | 2000 11 10.7 | 03 05.03 +24 53.4 18.9 | -1.18 - 3.4 | 2.8/12.3  | 34810 |
| 1997 BO <sub>6</sub>   | 2000 11 10.7 | 03 05.05 +12 59.9 19.3 | -0.91 - 2.8 | 1.5/09.9  | 5428  |
| 1999 JS <sub>62</sub>  | 2000 11 10.8 | 03 05.01 +09 11.6 18.8 | -0.95 - 3.7 | 2.7/09.1  | 6233  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 2000 UG <sub>72</sub>  | 2000 11 10.8 | 03 05.07 +22 27.4 17.6 | -1.18 - 1.0 | 2.3/11.7  | 6131  |
| (11680)                | 2000 11 10.8 | 03 05.09 +09 18.3 18.6 | -0.92 - 4.1 | 2.6/09.0  | 35879 |
| (18920)                | 2000 11 10.8 | 03 05.10 +17 34.7 15.6 | -1.05 - 0.3 | 0.1/10.9  | 5335  |
| 2000 RN <sub>48</sub>  | 2000 11 10.8 | 03 05.10 +35 01.9 16.9 | -1.07 - 4.3 | 7.2/15.1  | 6327  |
| 2048 T-2               | 2000 11 10.8 | 03 05.23 +09 23.9 18.0 | -0.78 - 6.2 | 2.7/08.8  | 6156  |
| 2000 RQ <sub>48</sub>  | 2000 11 10.8 | 03 05.28 +21 20.9 18.0 | -0.91 -11.4 | 1.6/12.0  | 5909  |
| 1999 JN <sub>45</sub>  | 2000 11 10.8 | 03 05.35 +16 23.5 18.7 | -1.05 - 6.5 | 0.4/10.6  | 5546  |
| (11567)                | 2000 11 10.8 | 03 05.37 +20 07.6 17.5 | -0.95 - 2.3 | 0.9/11.4  | 35849 |
| (12129)                | 2000 11 10.8 | 03 05.39 +17 36.0 17.9 | -0.80 - 3.0 | 0.0/10.9  | 36309 |
| 2000 SW <sub>319</sub> | 2000 11 10.8 | 03 05.44 +31 00.0 17.7 | -0.93 - 3.5 | 4.5/14.1  | 6085  |
| 1981 EH <sub>2</sub>   | 2000 11 10.9 | 03 05.41 +15 38.4 18.8 | -0.81 - 6.7 | 0.6/10.5  | 30779 |
| 2000 RS <sub>72</sub>  | 2000 11 10.9 | 03 05.47 +13 34.8 16.8 | -0.84 - 6.2 | 1.8/10.0  | 6332  |
| 1999 JG <sub>96</sub>  | 2000 11 10.9 | 03 05.85 -10 53.3 15.8 | -0.92 + 3.4 | 13.5/06.8 | 5571  |
| (19012)                | 2000 11 10.9 | 03 05.86 +37 44.0 16.7 | -1.17 - 1.9 | 7.4/15.3  | 5361  |
| 2000 SX <sub>179</sub> | 2000 11 11.0 | 03 05.78 +26 50.5 17.4 | -0.98 - 0.6 | 3.4/12.8  | 6026  |
| 1996 HS <sub>7</sub>   | 2000 11 11.0 | 03 05.78 +45 22.6 17.6 | -1.98 + 6.8 | 13.7/13.9 | 6193  |
| 1981 EV <sub>14</sub>  | 2000 11 11.0 | 03 05.79 +23 44.7 19.4 | -0.84 - 3.6 | 1.7/12.5  | 29608 |
| 1998 DT <sub>13</sub>  | 2000 11 11.0 | 03 05.83 +20 15.8 18.6 | -1.08 - 3.0 | 1.2/11.6  | 5446  |
| 2000 SU <sub>275</sub> | 2000 11 11.0 | 03 06.03 +07 00.2 17.8 | -0.84 -12.3 | 3.8/07.9  | 6067  |
| 5112 T-3               | 2000 11 11.0 | 03 06.04 +05 41.6 18.5 | -0.90 - 2.2 | 4.0/08.6  | 6441  |
| (18436)                | 2000 11 11.0 | 03 06.09 +17 09.6 18.2 | -1.00 - 1.6 | 0.1/11.0  | 5192  |
| 2000 SW <sub>155</sub> | 2000 11 11.0 | 03 06.15 +06 29.8 17.5 | -0.78 - 7.2 | 3.7/08.2  | 6010  |
| (12121)                | 2000 11 11.1 | 03 06.22 -01 05.3 18.1 | -0.88 - 5.4 | 6.1/06.5  | 36307 |
| 1999 JJ <sub>68</sub>  | 2000 11 11.1 | 03 06.27 +10 45.3 17.2 | -1.01 - 3.6 | 3.0/09.7  | 5560  |
| (17960)                | 2000 11 11.1 | 03 06.27 +11 46.3 17.5 | -1.01 - 3.8 | 2.1/09.9  | 4204  |
| 1999 JZ <sub>65</sub>  | 2000 11 11.1 | 03 06.30 +14 38.0 19.2 | -1.04 - 4.3 | 1.0/10.5  | 6233  |
| (18405)                | 2000 11 11.1 | 03 06.30 +04 40.8 17.2 | -0.82 - 4.4 | 3.9/08.1  | 5183  |
| 2000 SQ <sub>155</sub> | 2000 11 11.1 | 03 06.32 +09 22.9 17.9 | -0.84 - 2.3 | 4.3/09.4  | 6010  |
| 1998 HN <sub>5</sub>   | 2000 11 11.1 | 03 06.34 +19 53.2 18.9 | -1.17 + 1.8 | 0.9/11.5  | 5473  |
| 2000 RF <sub>55</sub>  | 2000 11 11.1 | 03 06.43 +24 07.0 15.6 | -0.79 -10.2 | 2.5/13.1  | 5913  |
| 1986 QD <sub>1</sub>   | 2000 11 11.1 | 03 06.51 -01 33.6 17.3 | -0.89 - 1.8 | 9.9/07.1  | 5386  |
| 2000 RQ <sub>7</sub>   | 2000 11 11.1 | 03 06.56 +14 09.8 17.6 | -0.88 - 1.4 | 1.2/10.5  | 5899  |
| (18611)                | 2000 11 11.1 | 03 06.64 +22 21.9 16.6 | -1.01 - 3.9 | 2.3/12.3  | 5242  |
| 1981 ES <sub>15</sub>  | 2000 11 11.2 | 03 06.60 +32 06.5 20.3 | -1.04 - 2.9 | 4.2/14.5  | 26918 |
| (12122)                | 2000 11 11.2 | 03 06.72 +22 12.5 16.8 | -0.84 - 6.5 | 1.5/12.4  | 36307 |
| 1996 VE <sub>2</sub>   | 2000 11 11.2 | 03 06.74 +11 53.7 17.5 | -1.12 + 2.1 | 2.3/10.4  | 6195  |
| (17850)                | 2000 11 11.2 | 03 06.76 +09 25.3 16.7 | -0.84 - 9.3 | 3.1/09.0  | 4171  |
| 1999 JT <sub>51</sub>  | 2000 11 11.2 | 03 06.80 +17 21.1 19.0 | -1.03 - 6.6 | 0.1/11.2  | 5550  |
| 1999 GO <sub>12</sub>  | 2000 11 11.2 | 03 06.80 +16 48.1 18.9 | -1.08 - 4.6 | 0.3/11.1  | 5525  |
| (11155)                | 2000 11 11.2 | 03 06.81 +22 11.8 16.5 | -1.08 - 6.5 | 1.9/12.3  | 35251 |
| 1999 LF <sub>4</sub>   | 2000 11 11.2 | 03 06.87 +15 32.9 17.1 | -1.02 - 6.7 | 0.7/10.8  | 6238  |
| (12600)                | 2000 11 11.2 | 03 06.90 +14 23.3 17.3 | -0.77 - 3.1 | 0.8/10.6  | 36769 |
| 1999 NK <sub>50</sub>  | 2000 11 11.2 | 03 06.94 +20 29.3 17.1 | -0.99 - 5.7 | 1.1/12.0  | 6241  |
| (18726)                | 2000 11 11.2 | 03 06.96 +11 34.4 17.9 | -1.04 -15.5 | 2.4/09.5  | 5276  |
| 2000 SX <sub>225</sub> | 2000 11 11.2 | 03 06.98 +07 01.0 18.3 | -0.92 + 0.4 | 3.2/09.4  | 6045  |
| 1998 BY <sub>2</sub>   | 2000 11 11.2 | 03 07.04 +21 36.4 16.8 | -1.12 - 3.0 | 1.8/12.0  | 6201  |
| 1998 KX <sub>60</sub>  | 2000 11 11.3 | 03 06.99 +01 25.2 17.3 | -0.86 - 1.1 | 5.3/08.0  | 6215  |
| (10725)                | 2000 11 11.3 | 03 07.08 +13 32.3 15.9 | -1.11 + 1.0 | 1.9/10.7  | 6177  |
| 2000 RW <sub>49</sub>  | 2000 11 11.3 | 03 07.14 +06 17.1 18.1 | -0.77 -13.0 | 5.1/07.9  | 5910  |
| (18756)                | 2000 11 11.3 | 03 07.19 +11 27.1 17.9 | -1.07 - 6.7 | 2.6/09.9  | 5285  |
| (12531)                | 2000 11 11.3 | 03 07.22 +01 32.3 16.8 | -0.79 - 4.8 | 5.4/07.4  | 36750 |

|                        |              |                        |       |       |           |       |                        |              |                        |       |       |          |       |
|------------------------|--------------|------------------------|-------|-------|-----------|-------|------------------------|--------------|------------------------|-------|-------|----------|-------|
| 2000 RH <sub>51</sub>  | 2000 11 11.3 | 03 07.26 +12 57.2 16.8 | -0.89 | - 9.4 | 2.1/10.1  | 6327  | 1981 EK <sub>3</sub>   | 2000 11 11.9 | 03 09.77 +19 28.3 18.8 | -0.93 | - 5.4 | 0.6/12.4 | 35415 |
| 1998 HF <sub>18</sub>  | 2000 11 11.3 | 03 07.33 +17 23.8 18.8 | -0.95 | - 6.1 | 0.1/11.3  | 5475  | 2000 SW <sub>225</sub> | 2000 11 11.9 | 03 09.85 +05 13.4 18.8 | -0.78 | - 2.6 | 3.8/09.3 | 6045  |
| 2000 SR <sub>155</sub> | 2000 11 11.3 | 03 07.37 +07 38.8 16.9 | -0.82 | - 4.4 | 4.7/09.0  | 6379  | 1993 US <sub>1</sub>   | 2000 11 12.0 | 03 09.90 +23 14.1 18.5 | -1.16 | - 3.3 | 2.1/13.1 | 35425 |
| 1998 EO <sub>2</sub>   | 2000 11 11.3 | 03 07.42 +14 02.7 16.6 | -0.83 | - 3.4 | 1.2/10.6  | 6204  | 2000 UK <sub>8</sub>   | 2000 11 12.0 | 03 09.91 +18 11.4 18.2 | -0.93 | - 0.5 | 0.1/12.1 | 6111  |
| 1998 EV <sub>9</sub>   | 2000 11 11.3 | 03 07.42 +11 44.6 18.2 | -1.00 | - 5.1 | 2.5/10.1  | 5450  | 2293 T-3               | 2000 11 12.0 | 03 09.92 +31 29.0 18.5 | -0.98 | - 0.8 | 4.4/14.8 | 31411 |
| 1999 NW <sub>34</sub>  | 2000 11 11.4 | 03 07.41 -04 45.8 17.3 | -0.94 | - 1.5 | 8.5/06.6  | 6240  | (18675)                | 2000 11 12.0 | 03 09.93 +13 21.6 16.9 | -0.94 | - 3.2 | 1.8/11.1 | 5262  |
| 1999 KF <sub>15</sub>  | 2000 11 11.4 | 03 07.42 +10 56.1 18.3 | -1.09 | - 3.6 | 2.7/10.1  | 5578  | (18858)                | 2000 11 12.0 | 03 09.95 +26 09.0 18.2 | -0.99 | - 6.4 | 2.8/14.1 | 5316  |
| 2000 SW <sub>126</sub> | 2000 11 11.4 | 03 07.46 +06 09.5 17.5 | -0.80 | - 3.7 | 4.1/08.8  | 5991  | 1995 GB                | 2000 11 12.0 | 03 09.96 +13 14.3 18.9 | -1.02 | - 3.7 | 1.5/11.1 | 6191  |
| 2000 UJ <sub>24</sub>  | 2000 11 11.4 | 03 07.49 +11 38.2 18.1 | -0.93 | - 1.3 | 2.2/10.3  | 6121  | 1997 YM <sub>10</sub>  | 2000 11 12.0 | 03 10.00 +03 20.8 16.9 | -1.04 | - 0.2 | 6.7/09.5 | 6200  |
| 1996 RH <sub>25</sub>  | 2000 11 11.4 | 03 07.51 +25 43.5 17.9 | -1.13 | - 2.2 | 3.8/13.0  | 6194  | 1999 NU <sub>9</sub>   | 2000 11 12.0 | 03 10.06 +38 36.1 18.6 | -1.06 | - 4.2 | 6.5/17.2 | 36090 |
| 1999 RZ <sub>151</sub> | 2000 11 11.4 | 03 07.76 +27 18.9 18.7 | -0.89 | - 2.2 | 2.8/13.6  | 6249  | (18854)                | 2000 11 12.0 | 03 10.16 +10 38.2 18.5 | -0.79 | - 6.3 | 2.1/10.3 | 5315  |
| 1999 JC <sub>114</sub> | 2000 11 11.4 | 03 07.80 +12 23.3 17.6 | -0.98 | - 2.4 | 2.4/10.4  | 5573  | (19068)                | 2000 11 12.0 | 03 10.23 +14 56.5 16.1 | -1.00 | - 1.1 | 1.3/11.6 | 5377  |
| 1997 XE <sub>11</sub>  | 2000 11 11.4 | 03 07.82 +03 19.5 16.1 | -0.83 | - 8.7 | 7.0/07.4  | 6199  | 2000 RG <sub>55</sub>  | 2000 11 12.1 | 03 10.29 +39 17.4 17.2 | -1.22 | - 0.9 | 8.8/16.4 | 4756  |
| 1993 QH <sub>7</sub>   | 2000 11 11.4 | 03 07.89 +12 41.2 18.2 | -1.07 | - 4.3 | 2.1/10.5  | 5398  | (18485)                | 2000 11 12.1 | 03 10.30 +21 32.9 16.8 | -0.84 | - 3.6 | 1.3/13.0 | 5206  |
| (12104)                | 2000 11 11.5 | 03 07.84 +08 46.9 16.8 | -0.88 | - 0.7 | 2.8/09.8  | 36302 | 1999 JD <sub>35</sub>  | 2000 11 12.1 | 03 10.31 +17 47.6 17.1 | -1.00 | - 8.1 | 0.0/12.1 | 6230  |
| 1998 FN <sub>75</sub>  | 2000 11 11.5 | 03 07.84 +31 18.3 17.1 | -1.27 | + 3.2 | 5.7/13.5  | 6209  | 1999 NO <sub>3</sub>   | 2000 11 12.1 | 03 10.32 +03 34.4 17.8 | -0.90 | - 5.1 | 5.1/08.8 | 6239  |
| 1999 JB <sub>123</sub> | 2000 11 11.5 | 03 07.85 +16 37.1 21.0 | -1.13 | - 2.3 | 0.4/11.3  | 5576  | 1998 FT <sub>122</sub> | 2000 11 12.1 | 03 10.39 +28 47.8 15.6 | -1.24 | + 3.9 | 5.1/13.6 | 6211  |
| 1998 HZ <sub>26</sub>  | 2000 11 11.5 | 03 07.87 +15 50.7 18.4 | -0.95 | - 1.8 | 0.6/11.2  | 6212  | 1998 FZ <sub>31</sub>  | 2000 11 12.1 | 03 10.56 +38 37.1 19.2 | -1.23 | - 1.2 | 7.0/16.3 | 5456  |
| 2000 SZ <sub>293</sub> | 2000 11 11.5 | 03 07.87 +38 28.4 17.7 | -1.46 | + 4.6 | 8.2/14.3  | 6404  | (10821)                | 2000 11 12.1 | 03 10.60 +16 12.7 15.8 | -0.97 | - 6.4 | 0.8/11.8 | 34776 |
| 1999 GA <sub>31</sub>  | 2000 11 11.5 | 03 07.91 +13 38.5 18.6 | -1.12 | - 3.0 | 1.7/10.8  | 5528  | (18646)                | 2000 11 12.2 | 03 10.67 +01 56.2 17.7 | -0.94 | - 5.4 | 6.8/08.4 | 5252  |
| 1995 WJ <sub>4</sub>   | 2000 11 11.5 | 03 07.95 +10 55.4 16.8 | -0.92 | - 0.4 | 2.5/10.3  | 5414  | 1996 XJ <sub>31</sub>  | 2000 11 12.2 | 03 10.72 +03 14.1 17.4 | -0.91 | - 1.6 | 5.1/09.3 | 6196  |
| 1999 JW <sub>114</sub> | 2000 11 11.5 | 03 08.06 +24 14.2 17.6 | -1.07 | - 6.7 | 2.6/13.2  | 5573  | 1998 FD <sub>75</sub>  | 2000 11 12.2 | 03 10.72 +18 17.8 18.9 | -0.98 | - 3.6 | 0.2/12.3 | 5465  |
| 1998 FQ <sub>109</sub> | 2000 11 11.5 | 03 08.14 +21 35.7 19.0 | -0.93 | - 5.0 | 1.3/12.5  | 35438 | (18647)                | 2000 11 12.2 | 03 10.81 +11 35.5 18.9 | -0.95 | - 3.9 | 2.3/10.9 | 5253  |
| (18300)                | 2000 11 11.5 | 03 08.21 +17 06.6 18.0 | -0.97 | - 8.2 | 8.9/02.0  | 5153  | (18771)                | 2000 11 12.2 | 03 10.89 +16 22.2 17.8 | -1.03 | - 5.2 | 0.6/11.9 | 5290  |
| 1998 BK <sub>1</sub>   | 2000 11 11.5 | 03 08.21 +13 32.9 17.9 | -1.03 | - 3.4 | 1.5/10.7  | 31427 | 2000 SB <sub>280</sub> | 2000 11 12.2 | 03 10.94 +30 51.1 17.4 | -1.21 | - 3.1 | 5.1/15.0 | 6071  |
| 2000 SV <sub>126</sub> | 2000 11 11.5 | 03 08.22 +02 40.4 17.5 | -0.73 | - 8.0 | 5.1/07.4  | 6371  | 1274 T-1               | 2000 11 12.2 | 03 10.96 +23 46.4 16.9 | -1.00 | - 2.5 | 2.2/13.5 | 6439  |
| 1993 FS <sub>29</sub>  | 2000 11 11.5 | 03 08.26 +22 36.8 18.5 | -0.91 | - 4.2 | 1.6/12.7  | 6187  | 1999 JS <sub>1</sub>   | 2000 11 12.2 | 03 11.01 +09 06.2 18.2 | -1.00 | - 7.8 | 3.6/10.2 | 6227  |
| 1996 XL <sub>29</sub>  | 2000 11 11.5 | 03 08.28 +16 37.1 18.2 | -0.96 | - 2.5 | 0.5/11.4  | 5425  | (18467)                | 2000 11 12.2 | 03 11.05 +18 30.0 16.1 | -0.91 | - 5.0 | 0.3/12.4 | 5200  |
| (10777)                | 2000 11 11.6 | 03 08.22 +06 31.3 17.8 | -0.99 | - 4.1 | 4.2/09.2  | 34764 | 2000 UK <sub>72</sub>  | 2000 11 12.2 | 03 11.05 +21 23.2 18.0 | -0.85 | - 6.2 | 1.2/13.2 | 6131  |
| 2000 QC <sub>182</sub> | 2000 11 11.6 | 03 08.35 +20 51.7 17.3 | -1.03 | - 3.3 | 1.6/12.3  | 6309  | 1998 HR <sub>92</sub>  | 2000 11 12.2 | 03 11.06 +13 15.1 18.5 | -0.88 | - 6.9 | 1.5/11.2 | 5481  |
| 2000 QM <sub>2</sub>   | 2000 11 11.6 | 03 08.40 +26 06.1 16.6 | -1.17 | - 0.7 | 4.3/13.2  | 6285  | 1998 FX <sub>113</sub> | 2000 11 12.2 | 03 11.06 +25 37.2 17.7 | -1.07 | - 4.8 | 3.5/14.0 | 6210  |
| 1996 RC                | 2000 11 11.6 | 03 08.56 +12 43.5 18.8 | -1.03 | - 4.8 | 2.0/10.6  | 28596 | (18820)                | 2000 11 12.2 | 03 11.07 +03 14.8 17.5 | -0.84 | - 3.4 | 4.5/09.1 | 5305  |
| 1997 AV <sub>2</sub>   | 2000 11 11.6 | 03 08.56 +15 57.6 18.9 | -1.01 | - 3.1 | 0.6/11.3  | 6196  | 1997 CJ <sub>28</sub>  | 2000 11 12.2 | 03 11.13 +34 29.2 19.0 | -1.03 | - 3.6 | 5.1/16.0 | 1915  |
| 1999 JD <sub>8</sub>   | 2000 11 11.6 | 03 08.64 +10 59.6 20.5 | -0.83 | - 7.6 | 1.7/10.0  | 36087 | 2000 QD <sub>182</sub> | 2000 11 12.3 | 03 11.08 +23 10.6 16.8 | -1.17 | - 2.3 | 2.4/13.3 | 6309  |
| (17919)                | 2000 11 11.6 | 03 08.70 +17 03.7 16.4 | -1.09 | - 7.8 | 11.6/02.0 | 4192  | 1995 YE <sub>5</sub>   | 2000 11 12.3 | 03 11.08 +14 29.9 19.1 | -0.87 | - 2.7 | 1.0/11.6 | 31972 |
| 1998 FV <sub>53</sub>  | 2000 11 11.7 | 03 08.68 +26 37.8 18.4 | -1.06 | - 3.0 | 3.6/13.6  | 6207  | (10672)                | 2000 11 12.3 | 03 11.13 +36 07.4 15.8 | -0.95 | - 6.3 | 5.9/17.3 | 34737 |
| 2000 RJ <sub>48</sub>  | 2000 11 11.7 | 03 08.71 +23 24.6 16.2 | -0.68 | -11.8 | 2.8/13.6  | 6327  | 1999 RG <sub>165</sub> | 2000 11 12.3 | 03 11.24 +38 39.4 18.8 | -0.99 | - 2.1 | 5.5/17.1 | 6250  |
| (17382)                | 2000 11 11.7 | 03 08.74 +40 01.6 17.3 | -1.24 | - 1.6 | 8.7/16.8  | 4036  | 1996 PC <sub>4</sub>   | 2000 11 12.3 | 03 11.33 +06 22.7 19.3 | -1.04 | - 4.0 | 4.2/10.0 | 35428 |
| 1999 RH <sub>198</sub> | 2000 11 11.7 | 03 08.76 +39 07.7 19.5 | -0.96 | - 4.1 | 5.8/17.2  | 3920  | 2000 QK <sub>26</sub>  | 2000 11 12.4 | 03 11.48 +21 05.1 18.2 | -1.01 | - 3.6 | 1.1/13.1 | 6288  |
| 1999 JU <sub>5</sub>   | 2000 11 11.7 | 03 08.80 +19 47.7 18.3 | -1.86 | +11.6 | 1.1/11.8  | 5534  | (15773)                | 2000 11 12.4 | 03 11.50 +12 50.6 18.6 | -0.87 | - 4.1 | 1.7/11.3 | 1698  |
| 2000 RJ <sub>51</sub>  | 2000 11 11.7 | 03 09.06 +18 07.8 17.2 | -1.05 | - 1.6 | 11.3/02.0 | 6327  | 1998 FK <sub>6</sub>   | 2000 11 12.4 | 03 11.54 +17 25.4 18.3 | -1.07 | - 2.5 | 0.2/12.3 | 5453  |
| (11427)                | 2000 11 11.8 | 03 09.14 +11 28.5 17.5 | -0.78 | - 4.0 | 1.8/10.4  | 35598 | 2029 T-3               | 2000 11 12.4 | 03 11.58 +30 31.1 18.1 | -1.08 | - 1.4 | 4.6/14.9 | 6440  |
| 2000 UL <sub>8</sub>   | 2000 11 11.8 | 03 09.15 +17 59.4 17.5 | -1.04 | + 1.1 | 10.0/23.0 | 6112  | (18833)                | 2000 11 12.4 | 03 11.60 +12 08.5 17.8 | -0.87 | - 6.4 | 1.8/11.0 | 5308  |
| (11128)                | 2000 11 11.8 | 03 09.33 +17 30.4 17.8 | -1.04 | - 3.2 | 8.6/23.0  | 35245 | 1997 CX <sub>16</sub>  | 2000 11 12.4 | 03 11.62 +32 49.2 18.4 | -0.96 | - 3.3 | 4.7/15.8 | 6197  |
| 2114 T-1               | 2000 11 11.8 | 03 09.40 +00 47.7 18.6 | -0.84 | - 6.3 | 5.6/07.5  | 6439  | 2000 RV <sub>78</sub>  | 2000 11 12.4 | 03 11.66 +09 42.1 17.0 | -0.86 | - 2.8 | 3.9/10.7 | 6333  |
| 1999 OF <sub>1</sub>   | 2000 11 11.8 | 03 09.41 -03 44.8 19.2 | -0.85 | - 1.9 | 7.1/07.3  | 6241  | 2000 RJ <sub>50</sub>  | 2000 11 12.4 | 03 11.67 +07 27.9 17.4 | -0.77 | -12.9 | 3.8/09.3 | 5910  |
| (18505)                | 2000 11 11.8 | 03 09.44 +13 12.3 18.4 | -1.05 | - 5.6 | 1.7/10.9  | 5211  | 2000 RR <sub>50</sub>  | 2000 11 12.4 | 03 11.69 +19 14.5 16.9 | -1.09 | - 5.7 | 0.5/12.8 | 5911  |
| 1999 NA <sub>35</sub>  | 2000 11 11.9 | 03 09.52 -09 38.0 18.1 | -0.80 | - 1.1 | 8.4/06.1  | 5585  | 2000 RA <sub>76</sub>  | 2000 11 12.4 | 03 11.71 +38 58.4 16.8 | -1.20 | - 1.2 | 8.3/16.6 | 5922  |
| 2716 P-L               | 2000 11 11.9 | 03 09.53 +12 59.0 19.1 | -1.04 | - 4.5 | 2.1/10.9  | 6437  | 3047 T-3               | 2000 11 12.4 | 03 11.72 +19 26.7 17.0 | -1.10 | - 0.3 | 0.7/12.7 | 6168  |
| 1998 BH <sub>25</sub>  | 2000 11 11.9 | 03 09.59 +16 03.4 18.0 | -1.03 | - 3.1 | 0.6/11.6  | 6202  | 1999 GM <sub>35</sub>  | 2000 11 12.4 | 03 11.74 +17 50.8 17.7 | -1.11 | - 5.8 | 0.0/12.5 | 6226  |
| 1998 KH <sub>4</sub>   | 2000 11 11.9 | 03 09.76 +16 32.7 19.0 | -0.78 | - 3.4 | 0.3/11.7  | 5487  | 1998 HE <sub>84</sub>  | 2000 11 12.4 | 03 11.83 +06 30.7 17.9 | -0.75 | - 6.0 | 3.5/09.7 | 6213  |

|                        |              |                        |       |       |           |       |
|------------------------|--------------|------------------------|-------|-------|-----------|-------|
| 2000 ST <sub>278</sub> | 2000 11 12.4 | 03 11.85 +19 08.6 18.9 | -0.95 | - 0.4 | 0.4/12.7  | 6070  |
| 2000 UD <sub>11</sub>  | 2000 11 12.4 | 03 11.87 +13 18.7 16.9 | -0.96 | - 5.0 | 2.1/11.5  | 6422  |
| 1999 NP <sub>11</sub>  | 2000 11 12.4 | 03 11.92 +36 34.3 17.3 | -1.08 | - 3.8 | 6.5/16.8  | 5584  |
| (12171)                | 2000 11 12.5 | 03 12.00 +21 32.0 18.7 | -0.94 | - 3.7 | 1.2/13.3  | 36321 |
| 2000 SY <sub>126</sub> | 2000 11 12.5 | 03 12.14 +06 16.9 17.2 | -0.85 | - 1.6 | 5.8/10.3  | 6371  |
| (18998)                | 2000 11 12.5 | 03 12.27 +28 31.7 16.8 | -1.11 | - 6.4 | 4.3/15.2  | 5357  |
| 2000 UL <sub>43</sub>  | 2000 11 12.5 | 03 12.28 +16 52.9 18.6 | -0.97 | - 4.2 | 0.5/12.4  | 6125  |
| 1992 GZ <sub>4</sub>   | 2000 11 12.5 | 03 12.32 +16 24.2 17.5 | -0.84 | - 2.6 | 0.5/12.3  | 6185  |
| 2000 RZ <sub>50</sub>  | 2000 11 12.6 | 03 12.41 +23 51.4 16.7 | -1.13 | + 3.5 | 2.3/13.5  | 6327  |
| 2000 TX <sub>28</sub>  | 2000 11 12.6 | 03 12.42 +30 44.3 16.0 | -1.21 | + 1.3 | 5.3/14.8  | 6097  |
| 1999 JE <sub>41</sub>  | 2000 11 12.6 | 03 12.44 +10 16.5 18.0 | -1.00 | - 2.8 | 3.0/11.1  | 5544  |
| 1998 FP <sub>106</sub> | 2000 11 12.6 | 03 12.64 +19 46.5 19.7 | -0.97 | - 5.1 | 0.6/13.1  | 6210  |
| 1981 EL <sub>6</sub>   | 2000 11 12.6 | 03 12.71 +19 34.6 19.6 | -0.80 | - 5.5 | 0.5/13.1  | 26915 |
| 3464 T-3               | 2000 11 12.6 | 03 12.71 +21 27.4 18.4 | -1.05 | - 2.8 | 1.7/13.4  | 6441  |
| 1999 JZ <sub>23</sub>  | 2000 11 12.6 | 03 12.76 +21 39.1 18.1 | -1.20 | - 1.2 | 1.6/13.4  | 6229  |
| 1994 LT                | 2000 11 12.7 | 03 12.69 -15 11.7 17.1 | -1.54 | +13.4 | 17.3/12.4 | 5404  |
| 1996 VD <sub>2</sub>   | 2000 11 12.7 | 03 12.86 +14 58.6 16.5 | -1.09 | + 1.6 | 1.3/12.3  | 6195  |
| 1999 NB <sub>25</sub>  | 2000 11 12.7 | 03 12.88 +22 24.6 18.6 | -1.10 | - 3.5 | 1.6/13.7  | 2062  |
| 1998 BE <sub>1</sub>   | 2000 11 12.7 | 03 12.94 +10 09.9 17.7 | -1.09 | - 1.6 | 3.4/11.3  | 6201  |
| 1998 DV <sub>15</sub>  | 2000 11 12.7 | 03 13.02 +16 21.8 17.7 | -0.98 | - 5.3 | 0.7/12.4  | 6204  |
| 1999 JE <sub>98</sub>  | 2000 11 12.7 | 03 13.08 +05 28.3 19.7 | -1.01 | - 0.7 | 4.7/10.6  | 4940  |
| 1999 NZ <sub>55</sub>  | 2000 11 12.7 | 03 13.11 +23 22.8 17.5 | -0.93 | - 7.0 | 1.7/14.1  | 6241  |
| 2692 P-L               | 2000 11 12.7 | 03 13.11 +09 35.6 18.5 | -0.79 | - 4.2 | 2.8/10.9  | 6135  |
| 1999 NM <sub>37</sub>  | 2000 11 12.8 | 03 13.15 -03 10.3 19.5 | -0.92 | - 1.9 | 6.7/08.5  | 6241  |
| 1994 RN <sub>28</sub>  | 2000 11 12.8 | 03 13.37 +19 42.2 19.0 | -0.88 | - 3.1 | 0.5/13.2  | 6190  |
| 1999 JO <sub>50</sub>  | 2000 11 12.8 | 03 13.42 +10 39.3 16.0 | -0.88 | -11.0 | 3.0/10.8  | 6231  |
| 1981 EJ <sub>8</sub>   | 2000 11 12.8 | 03 13.42 +19 24.4 18.9 | -0.87 | - 4.4 | 0.5/13.2  | 6179  |
| 1998 FE <sub>3</sub>   | 2000 11 12.8 | 03 13.49 +12 10.7 17.8 | -0.96 | - 2.0 | 2.3/11.7  | 6205  |
| 1999 RC <sub>121</sub> | 2000 11 12.8 | 03 13.54 +11 29.7 17.7 | -0.81 | - 5.9 | 2.1/11.3  | 6246  |
| 1998 HB <sub>52</sub>  | 2000 11 12.8 | 03 13.56 +10 21.4 19.1 | -0.76 | - 7.5 | 2.1/10.9  | 6212  |
| 1994 EV <sub>6</sub>   | 2000 11 12.8 | 03 13.57 +15 49.7 17.7 | -1.06 | - 1.7 | 0.8/12.5  | 6189  |
| 3005 T-2               | 2000 11 12.8 | 03 13.58 +16 46.0 17.9 | -1.11 | - 3.0 | 0.5/12.7  | 6158  |
| 2000 UH <sub>8</sub>   | 2000 11 12.9 | 03 13.56 +16 48.8 18.3 | -0.88 | - 9.8 | 0.4/12.6  | 6111  |
| (18781)                | 2000 11 12.9 | 03 13.69 +16 34.8 18.0 | -1.03 | - 4.7 | 0.5/12.6  | 5293  |
| (18377)                | 2000 11 12.9 | 03 13.74 +08 23.9 17.5 | -1.03 | 0.0   | 3.2/11.4  | 5175  |
| (17796)                | 2000 11 12.9 | 03 13.75 +03 05.1 16.4 | -0.81 | - 9.7 | 5.6/08.8  | 4155  |
| 1999 JW <sub>70</sub>  | 2000 11 12.9 | 03 13.78 +07 14.6 17.8 | -1.00 | - 5.3 | 4.8/10.6  | 6234  |
| 1999 JG <sub>74</sub>  | 2000 11 12.9 | 03 13.81 +08 42.0 17.7 | -1.04 | - 3.0 | 4.3/11.1  | 5564  |
| 1996 AU <sub>5</sub>   | 2000 11 13.0 | 03 13.91 +10 44.5 18.8 | -0.84 | - 1.7 | 2.5/11.5  | 5416  |
| 1992 ER <sub>25</sub>  | 2000 11 13.0 | 03 14.00 +16 37.3 17.2 | -0.90 | - 2.3 | 0.5/12.7  | 6185  |
| 1998 HY <sub>29</sub>  | 2000 11 13.0 | 03 14.08 +17 40.1 18.2 | -0.94 | - 2.9 | 0.1/13.0  | 5476  |
| 1995 DH <sub>6</sub>   | 2000 11 13.0 | 03 14.16 +25 32.2 19.2 | -1.15 | - 3.2 | 2.9/14.6  | 27918 |
| 2000 SV <sub>275</sub> | 2000 11 13.0 | 03 14.19 +09 46.3 17.7 | -0.84 | - 6.3 | 4.3/11.0  | 6401  |
| 1989 LL                | 2000 11 13.0 | 03 14.20 +18 14.2 17.0 | -1.17 | - 1.7 | 0.1/13.1  | 5388  |
| 2000 UP <sub>8</sub>   | 2000 11 13.0 | 03 14.22 +17 16.5 17.4 | -0.91 | - 6.8 | 0.2/12.9  | 6112  |
| 2725 P-L               | 2000 11 13.0 | 03 14.28 +16 13.9 18.5 | -0.92 | - 4.2 | 0.7/12.7  | 6437  |
| 4086 T-3               | 2000 11 13.0 | 03 14.30 +11 39.3 18.7 | -1.13 | - 2.9 | 2.8/11.9  | 6441  |
| 1999 KP <sub>5</sub>   | 2000 11 13.0 | 03 14.34 +15 31.0 21.3 | -1.02 | - 6.2 | 0.8/12.5  | 35471 |
| 1998 JF <sub>4</sub>   | 2000 11 13.0 | 03 14.37 +11 32.9 18.1 | -0.97 | - 3.0 | 2.4/11.8  | 6214  |
| (18827)                | 2000 11 13.0 | 03 14.37 -02 43.9 16.9 | -0.86 | 0.0   | 6.9/09.3  | 5307  |
| (18443)                | 2000 11 13.1 | 03 14.62 +31 32.6 17.5 | -0.97 | - 2.7 | 4.5/16.1  | 5194  |

|                        |              |                        |       |       |           |       |
|------------------------|--------------|------------------------|-------|-------|-----------|-------|
| 1999 JL <sub>39</sub>  | 2000 11 13.1 | 03 14.65 +20 39.5 19.1 | -1.06 | - 2.5 | 1.0/13.7  | 5543  |
| 1999 RJ <sub>196</sub> | 2000 11 13.1 | 03 14.69 +43 45.5 18.1 | -1.03 | - 1.7 | 6.7/19.0  | 40371 |
| 1998 FV <sub>34</sub>  | 2000 11 13.1 | 03 14.77 +11 32.8 16.9 | -0.92 | - 6.2 | 2.8/11.7  | 6207  |
| 2000 UJ <sub>25</sub>  | 2000 11 13.1 | 03 14.79 +06 21.7 18.4 | -1.00 | - 6.1 | 5.3/10.6  | 6121  |
| 1998 HL <sub>19</sub>  | 2000 11 13.2 | 03 14.73 +08 32.7 19.2 | -0.89 | - 7.7 | 3.4/10.8  | 5475  |
| 2000 SZ <sub>179</sub> | 2000 11 13.2 | 03 14.75 +19 40.8 16.4 | -0.87 | -10.2 | 0.7/13.7  | 6027  |
| 2000 UT <sub>43</sub>  | 2000 11 13.2 | 03 14.77 +17 11.1 18.7 | -0.96 | - 6.1 | 0.4/13.0  | 6125  |
| 1998 HA <sub>32</sub>  | 2000 11 13.2 | 03 14.79 +21 47.5 19.1 | -0.93 | - 5.0 | 1.4/14.1  | 6212  |
| 1998 FT <sub>131</sub> | 2000 11 13.2 | 03 14.83 +01 30.9 18.1 | -0.92 | - 4.5 | 8.0/09.3  | 6211  |
| 1999 JM <sub>77</sub>  | 2000 11 13.2 | 03 15.11 +07 00.0 17.3 | -0.91 | - 6.5 | 4.5/10.7  | 6234  |
| 2000 RM <sub>48</sub>  | 2000 11 13.2 | 03 15.13 +41 46.3 16.3 | -1.16 | + 0.9 | 11.2/17.7 | 6327  |
| 1991 XM                | 2000 11 13.3 | 03 15.30 +22 58.6 16.7 | -0.92 | - 9.0 | 1.7/14.6  | 6185  |
| 1999 LW <sub>26</sub>  | 2000 11 13.3 | 03 15.37 +07 04.7 17.4 | -1.05 | - 2.4 | 4.2/11.3  | 6239  |
| 1998 HZ <sub>29</sub>  | 2000 11 13.3 | 03 15.46 +13 12.0 18.9 | -0.92 | - 4.1 | 1.8/12.3  | 5476  |
| 1244 T-2               | 2000 11 13.3 | 03 15.53 +02 48.3 18.6 | -0.83 | - 8.0 | 5.7/09.3  | 6155  |
| 1998 FK <sub>35</sub>  | 2000 11 13.3 | 03 15.63 +22 03.9 17.5 | -1.07 | - 3.0 | 1.9/14.2  | 6207  |
| (18585)                | 2000 11 13.4 | 03 15.55 +13 16.6 16.5 | -1.14 | - 0.6 | 2.3/12.6  | 5234  |
| 2162 T-3               | 2000 11 13.4 | 03 15.58 +20 06.8 18.5 | -1.01 | - 6.5 | 0.8/13.9  | 6440  |
| 1999 LB <sub>22</sub>  | 2000 11 13.4 | 03 15.66 +09 48.1 18.8 | -1.06 | - 3.6 | 3.2/11.8  | 6239  |
| (10559)                | 2000 11 13.4 | 03 15.67 +09 09.0 17.1 | -1.06 | - 5.2 | 3.8/11.6  | 34451 |
| 1993 TL <sub>5</sub>   | 2000 11 13.4 | 03 15.67 +23 46.0 18.6 | -1.14 | - 4.2 | 2.2/14.6  | 6188  |
| 1991 FD                | 2000 11 13.4 | 03 15.71 -17 28.6 17.3 | -0.95 | - 7.3 | 12.6/02.5 | 6183  |
| 2125 T-1               | 2000 11 13.4 | 03 15.83 +23 18.6 18.6 | -1.08 | - 2.1 | 1.8/14.5  | 6150  |
| 1998 FC <sub>34</sub>  | 2000 11 13.4 | 03 15.93 +12 57.4 18.4 | -1.01 | - 5.8 | 2.0/12.3  | 6207  |
| 2000 RT <sub>7</sub>   | 2000 11 13.4 | 03 15.96 +09 03.3 17.9 | -0.82 | - 2.5 | 3.1/11.6  | 6316  |
| 1999 JQ <sub>64</sub>  | 2000 11 13.4 | 03 15.99 +03 06.7 19.0 | -1.04 | + 1.4 | 5.7/11.3  | 5558  |
| 1993 FB <sub>5</sub>   | 2000 11 13.5 | 03 16.03 +22 59.1 18.3 | -0.98 | - 2.2 | 1.6/14.5  | 6186  |
| 2000 SY <sub>189</sub> | 2000 11 13.5 | 03 16.07 +04 42.7 18.2 | -0.76 | - 9.5 | 4.3/09.8  | 6386  |
| (18627)                | 2000 11 13.5 | 03 16.08 +17 42.6 16.2 | -1.16 | + 0.8 | 0.2/13.5  | 5247  |
| 1998 KG <sub>57</sub>  | 2000 11 13.5 | 03 16.18 +20 56.5 16.8 | -1.03 | + 0.7 | 1.0/14.0  | 6215  |
| 2000 UP <sub>10</sub>  | 2000 11 13.5 | 03 16.19 +18 11.1 17.4 | -0.80 | - 6.0 | 0.0/13.6  | 6113  |
| (18764)                | 2000 11 13.5 | 03 16.22 -17 11.2 17.5 | -1.11 | + 2.4 | 12.4/08.3 | 5288  |
| 1998 HQ <sub>45</sub>  | 2000 11 13.5 | 03 16.27 +20 57.6 17.8 | -0.91 | - 5.3 | 1.0/14.2  | 5479  |
| 1998 FT <sub>64</sub>  | 2000 11 13.5 | 03 16.32 +14 14.9 17.4 | -0.99 | - 5.0 | 1.8/12.7  | 5462  |
| 2000 RS <sub>48</sub>  | 2000 11 13.5 | 03 16.33 +07 21.0 17.4 | -1.05 | -21.8 | 5.2/10.0  | 6327  |
| 2000 SF <sub>261</sub> | 2000 11 13.5 | 03 16.40 +09 03.5 17.7 | -0.87 | - 5.8 | 3.0/11.5  | 6059  |
| 1998 HL <sub>102</sub> | 2000 11 13.5 | 03 16.43 +17 32.5 18.7 | -0.85 | - 1.1 | 0.2/13.5  | 5482  |
| 1998 FJ <sub>57</sub>  | 2000 11 13.6 | 03 16.39 +38 32.0 17.5 | -1.31 | + 1.7 | 8.2/17.0  | 6208  |
| 2000 RN <sub>50</sub>  | 2000 11 13.6 | 03 16.42 +17 43.9 17.7 | -1.05 | - 5.9 | 0.2/13.5  | 6327  |
| 1978 VM <sub>9</sub>   | 2000 11 13.6 | 03 16.52 +13 18.5 17.2 | -1.06 | - 1.3 | 2.1/12.8  | 6178  |
| 2000 VW <sub>23</sub>  | 2000 11 13.6 | 03 16.65 +17 50.4 17.4 | -0.95 | - 6.0 | 0.1/13.6  | 6133  |
| (18474)                | 2000 11 13.6 | 03 16.69 +39 59.8 17.3 | -1.03 | - 5.4 | 6.7/19.0  | 5202  |
| 1999 JX <sub>4</sub>   | 2000 11 13.6 | 03 16.76 +21 30.2 17.7 | -1.16 | -20.0 | 1.5/14.7  | 5534  |
| 2000 RR <sub>67</sub>  | 2000 11 13.6 | 03 16.78 +12 28.7 16.7 | -0.91 | - 3.4 | 2.8/12.5  | 6330  |
| 2000 RQ <sub>50</sub>  | 2000 11 13.7 | 03 16.79 +20 35.1 17.3 | -0.92 | - 0.9 | 0.8/14.2  | 5911  |
| 2000 QQ <sub>129</sub> | 2000 11 13.7 | 03 16.79 +05 06.9 16.5 | -0.60 | - 5.4 | 7.2/10.2  | 6303  |
| 1999 JG <sub>31</sub>  | 2000 11 13.7 | 03 16.87 +16 33.7 17.7 | -0.94 | - 8.5 | 0.6/13.3  | 5541  |
| 1993 RX <sub>5</sub>   | 2000 11 13.7 | 03 16.90 +15 42.3 18.6 | -1.10 | - 5.0 | 1.0/13.2  | 6188  |
| 1998 FM <sub>2</sub>   | 2000 11 13.7 | 03 16.92 +57 29.7 21.2 | -1.71 | + 1.1 | 10.7/21.7 | 1933  |
| 1999 JG <sub>37</sub>  | 2000 11 13.7 | 03 16.98 +20 20.6 19.1 | -1.14 | - 2.1 | 0.8/14.1  | 5543  |
| 1999 JS <sub>46</sub>  | 2000 11 13.7 | 03 17.00 +14 52.3 17.8 | -1.14 | - 0.6 | 1.4/13.2  | 5547  |

|                        |              |                        |             |           |       |                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|------------------------|--------------|------------------------|-------------|-----------|-------|
| 2000 UU <sub>5</sub>   | 2000 11 13.7 | 03 17.17 +14 26.1 18.3 | -0.99 - 2.3 | 1.7/13.1  | 6108  | 1998 HU <sub>39</sub>  | 2000 11 14.3 | 03 19.56 +15 37.2 18.5 | -0.91 - 3.9 | 0.9/13.8  | 6212  |
| (10529)                | 2000 11 13.7 | 03 17.18 +11 29.6 16.9 | -1.10 - 3.5 | 2.8/12.5  | 3858  | 1994 RG <sub>7</sub>   | 2000 11 14.3 | 03 19.61 +20 33.7 18.7 | -0.86 - 3.2 | 0.7/14.8  | 6190  |
| 1999 JZ <sub>131</sub> | 2000 11 13.7 | 03 17.18 +16 23.1 20.1 | -1.06 - 3.6 | 0.6/13.4  | 1092  | 1998 HW <sub>6</sub>   | 2000 11 14.4 | 03 19.69 +10 00.3 16.8 | -0.99 + 1.1 | 2.9/13.1  | 6211  |
| 2211 T-1               | 2000 11 13.8 | 03 17.34 +23 49.5 18.2 | -0.95 - 1.3 | 2.0/14.9  | 6150  | 1991 TD                | 2000 11 14.4 | 03 19.78 +23 02.9 17.0 | -1.21 + 3.8 | 2.0/15.0  | 6184  |
| (17784)                | 2000 11 13.8 | 03 17.42 +10 41.2 18.2 | -0.95 - 6.9 | 3.1/12.0  | 4151  | 2000 UV <sub>5</sub>   | 2000 11 14.4 | 03 19.78 +13 56.0 18.9 | -0.87 - 3.3 | 1.5/13.5  | 6108  |
| 1999 JN <sub>5</sub>   | 2000 11 13.8 | 03 17.42 +08 43.5 18.5 | -1.18 + 3.5 | 3.6/12.7  | 6228  | 2000 RW <sub>50</sub>  | 2000 11 14.4 | 03 19.79 +23 22.0 17.4 | -1.21 + 2.7 | 2.1/15.1  | 5911  |
| 1999 GM <sub>32</sub>  | 2000 11 13.8 | 03 17.55 +12 54.1 18.7 | -1.06 - 6.1 | 2.1/12.7  | 6226  | 1997 XX <sub>4</sub>   | 2000 11 14.4 | 03 19.94 +03 16.9 19.1 | -1.02 - 2.9 | 6.0/11.4  | 6199  |
| 1998 QH <sub>56</sub>  | 2000 11 13.8 | 03 17.56 -42 48.3 19.5 | -1.09 -13.6 | 38.4/07.0 | 6216  | 1994 CZ <sub>17</sub>  | 2000 11 14.5 | 03 20.06 -00 42.9 19.0 | -0.92 - 3.3 | 6.5/10.5  | 35690 |
| 2000 TN <sub>29</sub>  | 2000 11 13.9 | 03 17.68 +19 30.2 17.1 | -0.89 -28.3 | 0.6/14.4  | 6097  | 1981 EU <sub>19</sub>  | 2000 11 14.5 | 03 20.06 +26 50.3 18.0 | -1.16 - 3.4 | 3.2/16.2  | 6179  |
| (17389)                | 2000 11 13.9 | 03 17.69 +17 49.9 17.1 | -0.87 - 2.7 | 0.1/13.8  | 4037  | 2000 UF <sub>75</sub>  | 2000 11 14.5 | 03 20.07 +08 59.4 18.1 | -0.85 - 5.0 | 4.3/12.3  | 6131  |
| (18994)                | 2000 11 13.9 | 03 17.83 +22 25.3 17.0 | -1.17 + 0.4 | 1.9/14.6  | 5355  | (18811)                | 2000 11 14.5 | 03 20.28 +11 36.6 18.3 | -0.98 - 0.6 | 2.3/13.4  | 5302  |
| (18849)                | 2000 11 13.9 | 03 17.85 +14 26.4 18.1 | -0.80 - 2.7 | 1.1/13.2  | 5313  | 1999 NJ <sub>64</sub>  | 2000 11 14.5 | 03 20.33 +16 54.0 18.8 | -0.87 - 2.8 | 0.5/14.3  | 6241  |
| 2000 RX <sub>50</sub>  | 2000 11 13.9 | 03 17.86 +16 11.3 17.4 | -1.10 - 2.3 | 0.9/13.6  | 5911  | 1998 DF                | 2000 11 14.5 | 03 20.35 +09 12.4 16.9 | -1.00 - 3.2 | 4.3/12.7  | 6203  |
| (17322)                | 2000 11 13.9 | 03 17.87 +00 47.4 17.1 | -0.81 - 7.1 | 7.0/09.5  | 3088  | (17494)                | 2000 11 14.5 | 03 20.39 +41 31.4 16.8 | -1.02 - 6.5 | 9.5/20.8  | 4067  |
| 4070 T-3               | 2000 11 13.9 | 03 17.89 -04 36.0 18.0 | -0.74 - 7.3 | 6.8/07.6  | 6441  | 1996 VE <sub>1</sub>   | 2000 11 14.5 | 03 20.45 +05 24.4 17.9 | -0.94 - 2.2 | 5.4/12.1  | 6195  |
| (18290)                | 2000 11 13.9 | 03 17.91 +28 55.0 17.8 | -1.17 - 3.0 | 4.0/16.1  | 5151  | 2000 PB <sub>13</sub>  | 2000 11 14.5 | 03 20.48 +61 05.2 17.0 | -1.29 -15.5 | 19.8/05.5 | 4976  |
| 1050 T-3               | 2000 11 13.9 | 03 17.98 +26 57.3 18.6 | -0.85 - 4.6 | 2.6/16.0  | 6440  | 1998 FE <sub>32</sub>  | 2000 11 14.5 | 03 20.49 +12 07.6 19.2 | -0.99 - 6.4 | 2.4/13.2  | 5456  |
| 1350 T-2               | 2000 11 13.9 | 03 17.99 +17 40.3 19.1 | -0.84 - 3.6 | 0.2/13.9  | 36123 | 1998 KM <sub>57</sub>  | 2000 11 14.6 | 03 20.48 +13 27.6 19.7 | -0.97 - 2.7 | 1.6/13.6  | 5490  |
| 1999 NR <sub>59</sub>  | 2000 11 13.9 | 03 18.04 +40 05.0 16.9 | -0.96 - 7.2 | 6.8/20.1  | 6241  | (18667)                | 2000 11 14.6 | 03 20.55 +32 49.8 18.5 | -1.09 - 1.6 | 4.8/17.4  | 5259  |
| 2000 SY <sub>155</sub> | 2000 11 13.9 | 03 18.07 +18 49.1 16.8 | -0.98 + 5.0 | 0.3/14.1  | 6379  | 1998 HL <sub>126</sub> | 2000 11 14.6 | 03 20.67 +14 03.1 19.0 | -1.03 -12.1 | 1.6/13.5  | 5484  |
| 2000 TB <sub>34</sub>  | 2000 11 13.9 | 03 18.09 +22 48.1 18.6 | -1.06 - 0.6 | 1.5/14.8  | 6098  | 1998 EP <sub>9</sub>   | 2000 11 14.6 | 03 20.69 +13 44.7 18.8 | -1.01 - 3.3 | 1.7/13.7  | 6205  |
| 1981 EE <sub>23</sub>  | 2000 11 14.0 | 03 18.08 +22 32.7 19.2 | -0.99 - 4.0 | 1.5/14.9  | 31781 | 2000 RC <sub>50</sub>  | 2000 11 14.6 | 03 20.82 +11 40.1 16.1 | -0.93 - 5.3 | 3.4/13.2  | 5910  |
| 1999 NZ <sub>52</sub>  | 2000 11 14.0 | 03 18.18 +20 26.5 15.8 | -0.80 - 9.3 | 0.7/14.6  | 6241  | 1981 EC <sub>30</sub>  | 2000 11 14.6 | 03 20.97 +46 14.5 18.8 | -1.12 - 2.3 | 8.3/21.1  | 35909 |
| 1999 JZ <sub>64</sub>  | 2000 11 14.0 | 03 18.24 +13 38.9 18.7 | -1.11 - 1.8 | 1.8/13.2  | 5559  | 2000 UT <sub>8</sub>   | 2000 11 14.7 | 03 20.90 +18 38.2 16.7 | -0.93 - 3.2 | 0.1/14.7  | 6112  |
| (18033)                | 2000 11 14.0 | 03 18.30 +29 40.9 17.6 | -0.92 - 5.1 | 3.7/17.0  | 4225  | 2000 UT <sub>53</sub>  | 2000 11 14.7 | 03 20.91 +13 40.1 17.3 | -1.04 + 1.2 | 2.1/14.0  | 6126  |
| 1998 BY <sub>12</sub>  | 2000 11 14.0 | 03 18.31 +09 52.2 18.1 | -1.05 - 2.8 | 3.2/12.4  | 6201  | 1999 KU                | 2000 11 14.7 | 03 21.05 +07 46.1 18.9 | -1.01 - 1.1 | 4.0/12.9  | 6237  |
| 1998 FZ <sub>30</sub>  | 2000 11 14.0 | 03 18.31 +17 18.2 17.3 | -1.00 - 2.3 | 0.5/13.9  | 6206  | 1999 JY <sub>49</sub>  | 2000 11 14.7 | 03 21.06 +12 43.6 19.8 | -1.02 - 5.0 | 2.2/13.5  | 6231  |
| 1999 LQ <sub>31</sub>  | 2000 11 14.0 | 03 18.37 +07 03.9 20.3 | -0.97 - 2.9 | 3.9/11.9  | 35393 | (17702)                | 2000 11 14.7 | 03 21.07 +17 11.2 17.5 | -0.82 - 5.9 | 0.4/14.4  | 4127  |
| 1999 NK <sub>7</sub>   | 2000 11 14.0 | 03 18.43 +31 43.4 18.9 | -0.93 - 4.1 | 4.0/17.2  | 2649  | (18530)                | 2000 11 14.7 | 03 21.09 +24 37.6 17.0 | -0.98 - 4.7 | 2.4/16.1  | 5218  |
| (18548)                | 2000 11 14.0 | 03 18.45 +13 00.2 18.0 | -0.92 - 6.2 | 1.9/12.9  | 5224  | 2000 UD <sub>2</sub>   | 2000 11 14.7 | 03 21.14 +16 20.8 17.7 | -0.81 - 6.6 | 0.7/14.2  | 6106  |
| 1998 HZ <sub>118</sub> | 2000 11 14.0 | 03 18.46 +07 53.9 18.4 | -0.90 + 0.6 | 3.2/12.4  | 6213  | (11965)                | 2000 11 14.7 | 03 21.15 +33 23.6 19.3 | -0.98 - 2.4 | 4.0/17.9  | 4878  |
| 1998 FR <sub>46</sub>  | 2000 11 14.0 | 03 18.48 +55 54.7 18.3 | -1.81 + 3.1 | 13.6/21.9 | 4907  | 1979 ME <sub>1</sub>   | 2000 11 14.7 | 03 21.16 +24 44.8 18.3 | -1.08 - 6.9 | 2.9/16.2  | 5382  |
| 2000 SW <sub>275</sub> | 2000 11 14.0 | 03 18.49 +09 34.5 17.7 | -1.10 - 4.8 | 3.9/12.4  | 6068  | 1999 LC <sub>4</sub>   | 2000 11 14.7 | 03 21.16 +06 28.7 17.6 | -0.97 - 5.4 | 5.3/12.1  | 6238  |
| (11242)                | 2000 11 14.0 | 03 18.50 +07 44.8 18.7 | -1.02 - 4.8 | 4.1/11.9  | 35274 | (11896)                | 2000 11 14.7 | 03 21.20 +16 27.1 19.2 | -1.01 - 4.3 | 0.7/14.4  | 36245 |
| 2000 UV                | 2000 11 14.1 | 03 18.47 +17 49.4 17.9 | -0.83 - 3.3 | 0.2/14.0  | 6106  | 1998 FU <sub>90</sub>  | 2000 11 14.7 | 03 21.21 +24 29.2 18.8 | -1.04 - 1.8 | 1.9/15.9  | 6209  |
| (17482)                | 2000 11 14.1 | 03 18.48 +35 46.4 15.8 | -1.05 - 5.5 | 7.4/18.5  | 4063  | (18689)                | 2000 11 14.8 | 03 21.30 +14 21.9 17.8 | -0.89 - 3.4 | 1.4/14.0  | 5266  |
| 1997 YP <sub>13</sub>  | 2000 11 14.1 | 03 18.48 +23 42.6 18.1 | -1.08 - 5.8 | 1.9/15.3  | 6200  | (17357)                | 2000 11 14.8 | 03 21.32 -07 28.2 17.5 | -0.95 + 1.2 | 10.7/10.9 | 4029  |
| 1981 EL <sub>41</sub>  | 2000 11 14.1 | 03 18.61 +30 17.9 19.2 | -0.97 - 1.3 | 3.7/16.5  | 6180  | (11045)                | 2000 11 14.8 | 03 21.40 +00 12.0 17.7 | -0.87 - 4.0 | 5.8/10.9  | 35223 |
| 1998 FT <sub>8</sub>   | 2000 11 14.1 | 03 18.61 +27 20.1 18.4 | -1.05 - 1.1 | 2.8/15.8  | 6205  | 1998 HG <sub>39</sub>  | 2000 11 14.8 | 03 21.42 +31 15.7 17.2 | -1.21 + 1.5 | 4.7/16.8  | 5477  |
| (18760)                | 2000 11 14.1 | 03 18.64 +16 47.2 17.3 | -1.07 - 2.8 | 0.6/13.9  | 5287  | 2000 SF <sub>277</sub> | 2000 11 14.8 | 03 21.45 +10 42.2 18.0 | -0.81 -10.4 | 3.1/12.7  | 6069  |
| 1990 TC <sub>9</sub>   | 2000 11 14.2 | 03 18.81 +18 09.9 16.6 | -1.04 - 7.2 | 0.1/14.2  | 6183  | 1994 PF <sub>15</sub>  | 2000 11 14.8 | 03 21.60 +32 48.2 18.9 | -0.97 - 3.2 | 4.4/18.0  | 6190  |
| 1999 FC <sub>34</sub>  | 2000 11 14.2 | 03 18.82 +19 32.1 18.3 | -1.11 - 4.2 | 0.5/14.5  | 6224  | 2000 UJ <sub>14</sub>  | 2000 11 14.8 | 03 21.61 +20 31.4 17.9 | -0.87 - 3.4 | 0.7/15.3  | 6114  |
| (11360)                | 2000 11 14.2 | 03 18.89 +21 06.2 18.5 | -1.08 - 3.1 | 1.0/14.8  | 35580 | (17786)                | 2000 11 14.8 | 03 21.64 +08 51.2 17.3 | -0.87 - 4.0 | 3.1/12.8  | 4151  |
| 1999 GM <sub>2</sub>   | 2000 11 14.2 | 03 18.97 +10 27.7 17.5 | -1.03 - 3.8 | 3.1/12.7  | 5524  | 1996 TH <sub>46</sub>  | 2000 11 14.9 | 03 21.77 +28 37.2 18.7 | -1.13 - 5.0 | 3.9/17.1  | 5420  |
| 1998 FU <sub>69</sub>  | 2000 11 14.2 | 03 19.05 +23 49.8 19.6 | -0.97 - 1.8 | 1.6/15.3  | 5464  | 1991 PL <sub>10</sub>  | 2000 11 14.9 | 03 21.97 +04 27.5 18.3 | -0.94 - 2.8 | 4.8/12.2  | 6184  |
| 1999 FK <sub>32</sub>  | 2000 11 14.2 | 03 19.21 +27 27.4 18.6 | -1.25 - 0.8 | 3.3/15.9  | 5523  | 1998 KB <sub>34</sub>  | 2000 11 14.9 | 03 21.98 +13 23.4 18.8 | -0.79 - 3.4 | 1.4/13.9  | 6215  |
| (18716)                | 2000 11 14.2 | 03 19.28 +02 21.9 17.2 | -0.84 - 1.3 | 5.4/11.2  | 5274  | 1997 YV <sub>7</sub>   | 2000 11 14.9 | 03 22.00 +17 20.7 19.1 | -1.07 - 3.8 | 0.4/14.7  | 6200  |
| 1998 FV <sub>48</sub>  | 2000 11 14.2 | 03 19.28 +10 25.2 18.3 | -0.94 - 6.8 | 3.3/12.4  | 6207  | (18303)                | 2000 11 14.9 | 03 22.02 +17 15.6 17.7 | -1.12 - 6.0 | 0.5/14.7  | 5154  |
| 2000 RL <sub>56</sub>  | 2000 11 14.2 | 03 19.32 +38 24.4 16.9 | -1.27 - 2.0 | 8.3/18.2  | 6328  | (18341)                | 2000 11 14.9 | 03 22.04 +19 34.9 16.6 | -1.14 - 1.2 | 0.4/15.2  | 5165  |
| 1995 UQ <sub>18</sub>  | 2000 11 14.3 | 03 19.30 +08 59.2 19.8 | -0.85 - 5.9 | 2.9/12.1  | 32749 | 1999 RH <sub>151</sub> | 2000 11 14.9 | 03 22.07 +31 23.4 18.3 | -0.96 - 1.8 | 3.8/17.6  | 6249  |
| 2000 UP <sub>53</sub>  | 2000 11 14.3 | 03 19.48 +12 22.3 17.9 | -0.86 - 1.5 | 2.0/13.2  | 6126  | 2000 SG <sub>261</sub> | 2000 11 14.9 | 03 22.16 +09 41.6 17.0 | -0.92 - 6.1 | 4.3/13.0  | 6398  |

2000 NOV. 11

M.P.C. 41595

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| (19067)                | 2000 11 15.0 | 03 22.10 +16 00.5 19.9 | -0.86 - 3.0 | 0.7/14.5  | 5376  |
| 1998 FL <sub>63</sub>  | 2000 11 15.0 | 03 22.17 +12 30.7 18.0 | -0.96 - 3.5 | 2.4/13.8  | 6208  |
| 1999 NX <sub>31</sub>  | 2000 11 15.0 | 03 22.21 +15 28.9 18.0 | -0.98 - 3.7 | 1.1/14.4  | 6240  |
| 1981 EL <sub>37</sub>  | 2000 11 15.0 | 03 22.27 +11 46.3 18.9 | -0.79 - 5.7 | 2.1/13.5  | 6180  |
| 2000 UF <sub>13</sub>  | 2000 11 15.0 | 03 22.27 +29 12.1 16.9 | -1.10 - 3.2 | 5.0/17.3  | 6114  |
| 2000 TC <sub>34</sub>  | 2000 11 15.0 | 03 22.34 +14 33.2 17.0 | -0.79 - 8.5 | 1.8/14.0  | 6098  |
| 1999 RN <sub>100</sub> | 2000 11 15.0 | 03 22.39 +23 37.0 18.8 | -0.87 - 5.6 | 1.6/16.3  | 6245  |
| 1999 JR <sub>59</sub>  | 2000 11 15.0 | 03 22.43 +10 53.4 18.6 | -0.99 - 5.2 | 3.0/13.5  | 6232  |
| 1998 KH <sub>50</sub>  | 2000 11 15.0 | 03 22.51 +01 04.7 18.3 | -0.79 - 2.3 | 5.3/11.5  | 4914  |
| (11096)                | 2000 11 15.0 | 03 22.53 -05 23.4 16.6 | -0.75 - 5.3 | 8.7/09.3  | 35236 |
| 1998 CX <sub>2</sub>   | 2000 11 15.0 | 03 22.58 +07 39.8 17.7 | -0.98 - 4.2 | 4.3/12.8  | 6203  |
| 1994 PS <sub>17</sub>  | 2000 11 15.1 | 03 22.53 +16 45.6 17.5 | -0.84 - 3.9 | 0.6/14.7  | 5406  |
| (18415)                | 2000 11 15.1 | 03 22.55 +17 53.6 16.1 | -1.04 - 6.2 | 0.3/15.0  | 5186  |
| 1995 SD <sub>31</sub>  | 2000 11 15.1 | 03 22.55 +02 37.2 18.0 | -0.88 - 4.6 | 6.0/11.5  | 6191  |
| 1998 FH <sub>15</sub>  | 2000 11 15.1 | 03 22.56 +35 55.9 17.2 | -1.14 - 1.3 | 6.3/18.5  | 6206  |
| (11928)                | 2000 11 15.1 | 03 22.61 +27 17.9 16.9 | -1.06 - 3.2 | 3.1/16.8  | 36253 |
| 3827 T-3               | 2000 11 15.1 | 03 22.67 +19 17.8 19.3 | -1.01 - 2.4 | 0.4/15.3  | 6441  |
| 1998 KV <sub>52</sub>  | 2000 11 15.1 | 03 22.74 -05 59.4 18.8 | -0.73 - 4.8 | 6.6/09.2  | 39195 |
| 2000 UE <sub>2</sub>   | 2000 11 15.1 | 03 22.74 +16 52.3 17.4 | -0.91 - 2.3 | 0.6/14.8  | 6107  |
| 1998 EM <sub>13</sub>  | 2000 11 15.1 | 03 22.76 +11 18.7 19.0 | -1.01 - 3.5 | 2.7/13.7  | 5452  |
| 1999 JV <sub>40</sub>  | 2000 11 15.1 | 03 22.78 +12 51.6 18.3 | -1.02 - 5.6 | 2.0/13.9  | 5544  |
| 1999 RE <sub>74</sub>  | 2000 11 15.1 | 03 22.78 +17 37.3 18.6 | -0.81 - 2.4 | 0.3/15.0  | 6244  |
| 1987 RU                | 2000 11 15.2 | 03 22.94 +13 33.7 17.6 | -1.12 - 4.2 | 2.4/14.2  | 5387  |
| 2000 UP <sub>16</sub>  | 2000 11 15.2 | 03 22.96 +28 39.8 16.8 | -1.19 - 2.8 | 4.8/17.2  | 6115  |
| 1999 JJ <sub>122</sub> | 2000 11 15.2 | 03 23.10 +20 36.7 18.8 | -1.09 - 6.1 | 0.8/15.7  | 5576  |
| 1996 UX <sub>1</sub>   | 2000 11 15.2 | 03 23.20 +27 49.0 18.2 | -1.11 - 4.9 | 3.9/17.0  | 5420  |
| (18552)                | 2000 11 15.3 | 03 23.36 +03 15.7 17.6 | -0.91 - 1.3 | 5.7/12.4  | 5225  |
| (11589)                | 2000 11 15.3 | 03 23.45 +24 26.5 16.4 | -0.79 - 6.4 | 1.7/16.8  | 35855 |
| (18551)                | 2000 11 15.3 | 03 23.45 +26 32.3 17.2 | -0.98 - 4.8 | 3.0/17.1  | 5225  |
| (11337)                | 2000 11 15.3 | 03 23.48 +23 31.4 17.9 | -1.16 - 3.4 | 2.0/16.3  | 35574 |
| 2000 SX <sub>275</sub> | 2000 11 15.3 | 03 23.52 +05 32.5 17.3 | -0.96 - 7.6 | 5.8/12.3  | 6401  |
| 2000 SG <sub>277</sub> | 2000 11 15.3 | 03 23.63 +15 35.8 16.9 | -0.80 - 6.5 | 1.5/14.6  | 6401  |
| (11455)                | 2000 11 15.3 | 03 23.64 +23 27.5 16.7 | -0.85 - 6.1 | 1.6/16.5  | 35821 |
| (18578)                | 2000 11 15.3 | 03 23.69 +13 44.8 17.1 | -1.21 + 0.9 | 2.2/14.7  | 5232  |
| (16462)                | 2000 11 15.3 | 03 23.69 +28 50.4 17.0 | -1.10 - 3.9 | 4.0/17.5  | 2841  |
| (17697)                | 2000 11 15.3 | 03 23.72 +04 59.8 18.2 | -0.80 - 4.3 | 4.2/12.3  | 4126  |
| 2059 T-3               | 2000 11 15.3 | 03 23.80 +19 23.1 18.1 | -1.02 - 6.1 | 0.3/15.6  | 6165  |
| 2000 UL <sub>12</sub>  | 2000 11 15.4 | 03 23.78 +20 34.3 18.5 | -0.89 - 1.8 | 0.7/15.8  | 6114  |
| 6213 P-L               | 2000 11 15.4 | 03 23.78 +18 23.9 17.8 | -1.00 - 5.5 | 0.1/15.4  | 6143  |
| 1999 JX <sub>67</sub>  | 2000 11 15.4 | 03 23.87 +12 59.5 18.5 | -1.03 - 2.9 | 2.0/14.4  | 5560  |
| 1998 FX <sub>29</sub>  | 2000 11 15.4 | 03 24.05 +18 59.7 19.0 | -1.00 - 4.8 | 0.1/15.5  | 5455  |
| 1999 FN <sub>3</sub>   | 2000 11 15.4 | 03 24.34 +47 36.5 18.1 | -2.02 + 6.5 | 14.5/18.7 | 4433  |
| 1995 CA <sub>1</sub>   | 2000 11 15.5 | 03 24.22 +25 43.6 18.9 | -1.18 - 2.8 | 2.7/16.8  | 6191  |
| 1981 ES <sub>32</sub>  | 2000 11 15.5 | 03 24.34 +31 44.9 18.6 | -1.12 - 5.5 | 6.1/18.5  | 6180  |
| 2000 SC <sub>156</sub> | 2000 11 15.5 | 03 24.41 +05 41.0 17.0 | -0.80 - 6.6 | 4.5/12.4  | 6010  |
| 1996 TH <sub>5</sub>   | 2000 11 15.5 | 03 24.47 +21 55.6 17.8 | -1.03 - 1.9 | 1.6/16.2  | 6194  |
| (11683)                | 2000 11 15.5 | 03 24.53 +02 14.8 17.4 | -0.87 - 5.8 | 5.6/11.8  | 35880 |
| (11342)                | 2000 11 15.6 | 03 24.64 +16 55.4 17.2 | -0.92 - 4.4 | 0.6/15.2  | 35576 |
| 2000 RU <sub>7</sub>   | 2000 11 15.6 | 03 24.66 +15 11.4 17.1 | -1.11 - 0.8 | 1.7/15.1  | 6316  |
| 2000 RK <sub>50</sub>  | 2000 11 15.6 | 03 24.67 +13 01.0 16.8 | -0.83 - 8.8 | 2.6/14.2  | 5911  |
| 1998 FT <sub>102</sub> | 2000 11 15.6 | 03 24.69 +10 02.2 18.8 | -0.89 - 7.8 | 2.9/13.5  | 6210  |

|                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|----------|-------|
| 1999 JH <sub>78</sub>  | 2000 11 15.6 | 03 24.73 +18 59.5 16.9 | -1.08 - 6.6 | 0.1/15.7 | 5565  |
| 1991 PM <sub>15</sub>  | 2000 11 15.6 | 03 24.86 +24 12.3 18.2 | -1.03 - 4.1 | 1.9/17.0 | 6184  |
| (11751)                | 2000 11 15.7 | 03 25.00 +22 08.1 17.1 | -1.06 - 3.6 | 1.3/16.4 | 6177  |
| 1999 RD <sub>50</sub>  | 2000 11 15.7 | 03 25.05 +19 35.8 19.3 | -0.82 - 4.1 | 0.3/15.9 | 5595  |
| 1998 HC <sub>124</sub> | 2000 11 15.7 | 03 25.13 +04 29.9 19.1 | -0.87 - 3.4 | 4.4/12.8 | 3894  |
| 1051 T-3               | 2000 11 15.7 | 03 25.13 +15 48.8 16.7 | -0.90 -13.2 | 1.3/14.9 | 6440  |
| 1998 ER <sub>9</sub>   | 2000 11 15.7 | 03 25.17 +09 31.7 18.3 | -1.04 - 2.5 | 4.1/14.0 | 5450  |
| 1999 JW <sub>62</sub>  | 2000 11 15.7 | 03 25.19 +10 48.4 18.8 | -0.98 - 2.5 | 2.8/14.3 | 5557  |
| 2000 SH <sub>226</sub> | 2000 11 15.7 | 03 25.19 +05 16.3 16.0 | -0.89 - 0.6 | 6.7/13.3 | 6046  |
| (19075)                | 2000 11 15.7 | 03 25.36 +10 01.3 18.5 | -0.90 - 2.8 | 2.9/14.1 | 5379  |
| 1997 EL <sub>4</sub>   | 2000 11 15.8 | 03 25.42 +18 51.7 18.7 | -0.85 - 2.8 | 0.1/15.8 | 5429  |
| 1998 FO <sub>48</sub>  | 2000 11 15.8 | 03 25.43 +23 52.9 17.9 | -1.03 - 3.9 | 1.8/16.9 | 6207  |
| (10730)                | 2000 11 15.8 | 03 25.49 +25 48.2 15.6 | -1.19 - 3.0 | 3.4/17.2 | 34752 |
| 1998 FL <sub>118</sub> | 2000 11 15.8 | 03 25.53 +28 27.6 19.1 | -1.00 - 2.6 | 3.1/17.8 | 6210  |
| 1999 RA <sub>186</sub> | 2000 11 15.8 | 03 25.55 +16 28.5 18.1 | -0.84 - 2.7 | 0.7/15.4 | 5615  |
| (17859)                | 2000 11 15.8 | 03 25.66 +15 26.8 16.7 | -0.90 - 0.5 | 1.0/15.3 | 4174  |
| 1999 RL <sub>61</sub>  | 2000 11 15.8 | 03 25.68 +16 12.0 19.5 | -0.81 - 2.6 | 0.7/15.4 | 5596  |
| 1999 RM <sub>224</sub> | 2000 11 15.8 | 03 25.68 +28 09.3 18.0 | -0.91 - 1.0 | 2.7/17.6 | 1467  |
| 2000 RO <sub>51</sub>  | 2000 11 15.8 | 03 25.68 +07 43.0 17.7 | -0.75 - 9.5 | 4.0/12.9 | 6327  |
| 1999 NH <sub>37</sub>  | 2000 11 15.8 | 03 25.78 +33 09.0 17.7 | -0.97 - 3.7 | 5.2/19.1 | 6241  |
| 1979 MR <sub>6</sub>   | 2000 11 15.9 | 03 25.93 +12 22.2 19.0 | -1.06 - 4.5 | 2.4/14.7 | 6178  |
| 1999 JX <sub>6</sub>   | 2000 11 15.9 | 03 25.95 +09 44.7 18.2 | -1.11 - 0.4 | 3.8/14.5 | 6228  |
| 1999 NC <sub>39</sub>  | 2000 11 15.9 | 03 26.02 +04 56.3 19.2 | -0.82 - 1.7 | 4.1/13.4 | 6241  |
| 2000 UA <sub>26</sub>  | 2000 11 15.9 | 03 26.04 +09 35.1 17.4 | -0.97 - 6.1 | 4.3/13.9 | 6426  |
| 1993 FE <sub>26</sub>  | 2000 11 15.9 | 03 26.05 +12 18.0 18.2 | -0.88 - 6.8 | 2.5/14.4 | 6187  |
| 1999 JD <sub>124</sub> | 2000 11 15.9 | 03 26.07 +10 23.6 18.4 | -1.08 - 2.5 | 3.1/14.5 | 6237  |
| 2000 UB <sub>1</sub>   | 2000 11 15.9 | 03 26.08 +13 11.0 18.2 | -0.91 - 6.1 | 1.8/14.7 | 6106  |
| (17982)                | 2000 11 15.9 | 03 26.13 +13 09.3 18.2 | -1.08 - 2.5 | 2.1/15.0 | 4211  |
| (18461)                | 2000 11 15.9 | 03 26.28 +39 47.6 18.8 | -1.14 - 4.0 | 7.0/20.8 | 5199  |
| 1999 LM <sub>33</sub>  | 2000 11 16.0 | 03 26.23 +22 42.6 17.7 | -1.15 - 5.7 | 1.5/17.0 | 6239  |
| 2000 RW <sub>7</sub>   | 2000 11 16.0 | 03 26.27 +14 40.4 17.8 | -0.88 - 0.5 | 1.3/15.3 | 5900  |
| (17846)                | 2000 11 16.0 | 03 26.33 -05 39.1 16.9 | -0.90 - 2.7 | 8.9/10.8 | 4170  |
| 1998 FE <sub>115</sub> | 2000 11 16.0 | 03 26.39 +16 10.1 17.5 | -0.90 - 6.5 | 0.8/15.4 | 6210  |
| 2000 SA <sub>288</sub> | 2000 11 16.0 | 03 26.53 +35 03.9 16.8 | -0.98 - 8.6 | 7.1/20.5 | 6074  |
| 1998 FV <sub>71</sub>  | 2000 11 16.0 | 03 26.59 +24 34.8 19.0 | -0.99 - 3.1 | 2.0/17.2 | 5464  |
| 1999 LJ                | 2000 11 16.1 | 03 26.68 +13 23.4 17.8 | -0.96 - 5.2 | 1.9/15.0 | 6238  |
| 1981 EF <sub>29</sub>  | 2000 11 16.1 | 03 26.70 +25 02.6 19.5 | -0.88 - 3.0 | 1.8/17.4 | 6180  |
| 1995 KQ <sub>4</sub>   | 2000 11 16.1 | 03 26.73 +17 57.6 19.6 | -1.04 - 3.7 | 0.3/16.0 | 38450 |
| 1998 DW <sub>33</sub>  | 2000 11 16.1 | 03 26.86 +15 21.9 18.6 | -1.04 - 3.8 | 1.4/15.5 | 6204  |
| 1995 YU <sub>6</sub>   | 2000 11 16.1 | 03 26.96 +18 19.7 18.7 | -0.86 - 6.3 | 0.2/16.1 | 5416  |
| (11747)                | 2000 11 16.1 | 03 27.01 +15 09.1 17.7 | -0.90 - 3.8 | 1.3/15.4 | 35897 |
| 1999 FV <sub>28</sub>  | 2000 11 16.1 | 03 27.03 +10 59.6 18.4 | -1.09 - 5.1 | 3.2/14.6 | 2645  |
| 1995 KK                | 2000 11 16.2 | 03 27.07 +21 11.1 19.5 | -1.06 - 4.9 | 0.8/16.7 | 2620  |
| 1998 HW <sub>122</sub> | 2000 11 16.2 | 03 27.24 +09 21.7 17.3 | -0.95 - 0.6 | 3.3/14.6 | 5484  |
| 1998 FO <sub>5</sub>   | 2000 11 16.2 | 03 27.38 +11 12.6 18.5 | -0.94 - 3.1 | 2.7/14.8 | 6205  |
| 1999 JS <sub>21</sub>  | 2000 11 16.3 | 03 27.45 +24 39.7 17.7 | -1.11 - 4.7 | 2.4/17.5 | 6229  |
| 2000 SE <sub>222</sub> | 2000 11 16.3 | 03 27.45 -03 53.4 18.6 | -0.93 - 4.9 | 9.6/11.3 | 6043  |
| 1998 FO <sub>78</sub>  | 2000 11 16.3 | 03 27.52 +16 57.5 18.0 | -0.97 - 1.8 | 0.6/16.0 | 6209  |
| 2000 UD <sub>5</sub>   | 2000 11 16.3 | 03 27.67 +18 44.6 18.2 | -1.05 - 4.2 | 0.0/16.3 | 6108  |
| 1998 DA <sub>33</sub>  | 2000 11 16.3 | 03 27.70 +24 25.9 18.9 | -1.01 - 2.5 | 1.9/17.4 | 6204  |
| (12997)                | 2000 11 16.3 | 03 27.75 +11 15.4 19.5 | -0.89 - 6.4 | 2.4/14.6 | 37486 |

|                        |              |                        |             |           |       |                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|------------------------|--------------|------------------------|-------------|----------|-------|
| 1998 EC <sub>4</sub>   | 2000 11 16.3 | 03 27.91 +11 16.9 18.7 | -1.03 - 4.2 | 3.4/14.9  | 5449  | 1999 OK                | 2000 11 17.1 | 03 31.12 -07 17.3 18.6 | -0.83 - 0.1 | 8.8/12.3 | 36092 |
| 2000 UF <sub>26</sub>  | 2000 11 16.4 | 03 27.88 +12 10.6 15.6 | -1.15 + 4.6 | 3.1/15.7  | 6122  | (17789)                | 2000 11 17.2 | 03 31.17 +04 16.1 18.1 | -0.89 - 5.7 | 4.9/13.9 | 4152  |
| (11348)                | 2000 11 16.4 | 03 27.88 +20 33.8 17.0 | -0.92 - 3.3 | 0.6/16.7  | 35577 | 1999 HR                | 2000 11 17.2 | 03 31.27 +19 19.8 19.5 | -1.08 - 6.5 | 0.1/17.3 | 5530  |
| 2000 UZ <sub>25</sub>  | 2000 11 16.4 | 03 27.92 +09 44.7 18.2 | -0.78 - 7.8 | 2.6/14.1  | 6122  | (11611)                | 2000 11 17.2 | 03 31.42 +02 50.2 17.5 | -0.84 - 1.2 | 5.0/14.3 | 35861 |
| 1999 FH                | 2000 11 16.4 | 03 28.00 +05 43.6 17.9 | -1.03 - 6.9 | 5.2/13.6  | 5520  | (10674)                | 2000 11 17.2 | 03 31.48 +19 13.8 17.4 | -1.05 - 4.6 | 0.1/17.3 | 34737 |
| (18616)                | 2000 11 16.4 | 03 28.26 +40 18.7 17.8 | -1.15 - 4.3 | 6.7/21.4  | 5243  | 1996 TA <sub>18</sub>  | 2000 11 17.2 | 03 31.52 +22 05.8 18.4 | -1.08 - 2.9 | 1.2/17.8 | 5419  |
| 2000 UE <sub>26</sub>  | 2000 11 16.5 | 03 28.34 +09 44.4 18.0 | -1.05 - 1.9 | 3.6/14.9  | 6122  | 1993 RE <sub>7</sub>   | 2000 11 17.2 | 03 31.57 +29 44.4 18.6 | -1.30 - 2.5 | 4.6/19.2 | 5399  |
| (18401)                | 2000 11 16.5 | 03 28.37 +10 31.2 15.7 | -1.21 + 6.7 | 3.9/15.9  | 5182  | 1999 SJ <sub>14</sub>  | 2000 11 17.2 | 03 31.64 +31 50.8 17.9 | -0.97 - 2.1 | 4.2/19.8 | 5625  |
| 1998 FZ <sub>132</sub> | 2000 11 16.5 | 03 28.38 +00 21.1 18.7 | -0.90 - 4.6 | 6.2/12.5  | 6211  | 4739 P-L               | 2000 11 17.2 | 03 31.69 +28 33.4 18.7 | -1.17 - 1.8 | 4.3/19.0 | 6140  |
| (11719)                | 2000 11 16.5 | 03 28.46 +18 26.0 17.7 | -0.94 - 2.7 | 0.2/16.4  | 35890 | (11616)                | 2000 11 17.3 | 03 31.61 -03 18.7 16.8 | -0.74 - 1.9 | 6.6/12.8 | 35862 |
| 1979 MQ <sub>6</sub>   | 2000 11 16.5 | 03 28.59 +23 38.5 18.0 | -1.13 - 5.4 | 1.8/17.5  | 30779 | 1998 HJ <sub>99</sub>  | 2000 11 17.3 | 03 31.61 +15 14.5 18.7 | -0.84 - 2.5 | 1.1/16.6 | 6213  |
| (10487)                | 2000 11 16.5 | 03 28.79 -14 20.4 16.5 | -1.21 + 5.8 | 13.2/13.9 | 34433 | 1981 ES <sub>7</sub>   | 2000 11 17.3 | 03 31.72 +17 37.2 19.9 | -1.05 - 5.3 | 0.5/17.0 | 26916 |
| 1999 RQ <sub>192</sub> | 2000 11 16.6 | 03 28.74 +22 53.8 19.5 | -0.86 - 3.2 | 1.1/17.4  | 39314 | (18323)                | 2000 11 17.3 | 03 31.73 +05 48.1 17.4 | -1.00 - 0.7 | 5.3/15.3 | 5160  |
| 1998 HC <sub>122</sub> | 2000 11 16.6 | 03 28.74 +02 23.6 17.0 | -0.83 - 1.9 | 5.1/13.5  | 6214  | 1999 RB <sub>158</sub> | 2000 11 17.3 | 03 31.78 +40 48.3 17.3 | -1.06 - 0.9 | 6.2/21.6 | 4946  |
| 1998 EM <sub>7</sub>   | 2000 11 16.6 | 03 28.74 +26 34.5 18.1 | -1.16 - 2.0 | 3.6/17.9  | 5449  | 1999 LK <sub>20</sub>  | 2000 11 17.3 | 03 32.00 +18 58.1 20.0 | -1.09 - 2.8 | 0.0/17.4 | 35657 |
| 1992 DG <sub>7</sub>   | 2000 11 16.6 | 03 28.77 +05 57.3 18.1 | -0.83 - 2.7 | 4.4/14.1  | 6185  | 1086 T-2               | 2000 11 17.3 | 03 32.06 +19 43.5 18.1 | -1.04 - 4.6 | 0.3/17.5 | 6154  |
| 1996 TU <sub>48</sub>  | 2000 11 16.6 | 03 29.05 +20 09.8 16.8 | -0.98 - 4.4 | 0.6/17.0  | 6194  | 1999 JP <sub>73</sub>  | 2000 11 17.4 | 03 32.15 +09 55.0 17.3 | -1.09 - 0.5 | 4.0/16.0 | 5564  |
| (18484)                | 2000 11 16.6 | 03 29.07 +15 54.9 16.8 | -0.87 - 2.3 | 1.1/16.1  | 5205  | 1998 FO <sub>47</sub>  | 2000 11 17.4 | 03 32.18 +21 13.6 17.9 | -0.98 - 3.8 | 0.8/17.9 | 6207  |
| 1999 KY <sub>14</sub>  | 2000 11 16.6 | 03 29.07 +24 36.3 18.0 | -1.13 - 4.5 | 2.1/17.8  | 6238  | (11732)                | 2000 11 17.4 | 03 32.18 +04 27.6 17.2 | -0.84 - 1.4 | 4.5/14.8 | 35893 |
| 1999 JK <sub>62</sub>  | 2000 11 16.6 | 03 29.13 +13 39.3 18.5 | -1.12 - 2.6 | 2.0/15.8  | 6233  | (10961)                | 2000 11 17.4 | 03 32.20 +18 23.6 19.3 | -1.14 - 3.5 | 0.3/17.3 | 34812 |
| 2000 UB <sub>52</sub>  | 2000 11 16.6 | 03 29.13 +14 25.7 18.6 | -0.89 - 3.5 | 1.5/15.8  | 6126  | 1998 DU <sub>32</sub>  | 2000 11 17.4 | 03 32.50 +03 55.2 19.8 | -0.91 - 0.8 | 4.7/14.9 | 3886  |
| (11568)                | 2000 11 16.6 | 03 29.14 +19 21.7 16.6 | -0.92 - 2.4 | 0.1/16.8  | 35849 | (11890)                | 2000 11 17.4 | 03 32.50 +44 45.8 18.1 | -1.08 - 1.5 | 7.2/22.7 | 36243 |
| (11001)                | 2000 11 16.7 | 03 29.13 +09 33.8 18.3 | -1.05 - 4.3 | 3.3/14.9  | 35212 | 1999 JN <sub>33</sub>  | 2000 11 17.4 | 03 32.50 +20 59.9 17.6 | -1.11 - 2.9 | 0.7/17.8 | 6230  |
| 1993 OH <sub>5</sub>   | 2000 11 16.7 | 03 29.15 +17 40.3 18.9 | -0.82 - 2.9 | 0.4/16.5  | 6187  | 1993 FH <sub>19</sub>  | 2000 11 17.5 | 03 32.46 +11 13.5 16.6 | -0.94 - 1.1 | 3.0/16.2 | 6186  |
| 2000 RM <sub>50</sub>  | 2000 11 16.7 | 03 29.22 +26 12.7 15.3 | -1.06 + 0.7 | 3.7/17.9  | 6327  | 1994 PT                | 2000 11 17.5 | 03 32.50 +14 51.4 16.9 | -0.86 - 2.7 | 1.5/16.7 | 6189  |
| (17977)                | 2000 11 16.7 | 03 29.23 +27 23.1 16.3 | -1.22 + 1.8 | 3.5/17.9  | 4209  | 1998 HA <sub>120</sub> | 2000 11 17.5 | 03 32.57 +01 15.4 18.3 | -0.83 - 1.1 | 5.8/14.4 | 6214  |
| (18644)                | 2000 11 16.7 | 03 29.24 +12 03.1 17.3 | -0.97 - 5.0 | 2.5/15.3  | 5252  | 2000 RP <sub>51</sub>  | 2000 11 17.5 | 03 32.65 +20 00.9 16.6 | -0.89 - 2.3 | 0.3/17.7 | 5912  |
| 1999 RW <sub>114</sub> | 2000 11 16.7 | 03 29.24 +29 33.4 18.5 | -0.90 - 3.7 | 3.0/19.0  | 6246  | 1999 LL <sub>26</sub>  | 2000 11 17.5 | 03 32.73 +19 04.5 18.1 | -1.09 - 4.3 | 0.0/17.5 | 6239  |
| (10956)                | 2000 11 16.7 | 03 29.31 +16 15.3 18.8 | -1.02 - 6.5 | 1.0/16.2  | 6177  | 1999 JX <sub>83</sub>  | 2000 11 17.5 | 03 32.79 +08 08.3 18.8 | -1.04 - 3.5 | 3.8/15.6 | 35465 |
| (18757)                | 2000 11 16.7 | 03 29.39 +17 39.7 17.4 | -1.05 - 4.5 | 10.0/07.0 | 5286  | 1999 JK <sub>83</sub>  | 2000 11 17.5 | 03 32.83 +01 32.5 17.3 | -0.95 - 6.0 | 6.4/13.8 | 6235  |
| 1999 RV <sub>107</sub> | 2000 11 16.7 | 03 29.44 +18 31.9 18.3 | -0.90 - 5.0 | 0.1/16.7  | 5600  | (10671)                | 2000 11 17.5 | 03 32.83 +27 06.3 16.1 | -1.11 - 2.3 | 3.6/19.0 | 34737 |
| 1998 HE <sub>52</sub>  | 2000 11 16.8 | 03 29.64 +19 01.9 17.9 | -0.90 - 3.5 | 8.0/28.0  | 6212  | 1999 RS <sub>111</sub> | 2000 11 17.5 | 03 32.85 +10 26.3 18.6 | -0.79 - 5.9 | 2.5/15.6 | 5600  |
| 1998 AF <sub>7</sub>   | 2000 11 16.8 | 03 29.67 +09 18.8 18.2 | -1.07 - 1.5 | 3.7/15.2  | 6201  | 1999 JK <sub>60</sub>  | 2000 11 17.6 | 03 32.91 +26 09.7 18.6 | -1.19 - 3.6 | 2.7/18.9 | 6232  |
| 2000 RT <sub>36</sub>  | 2000 11 16.8 | 03 29.83 +05 52.7 17.0 | -0.56 - 9.4 | 7.2/13.0  | 6323  | 1998 KE <sub>1</sub>   | 2000 11 17.6 | 03 32.94 +19 04.6 17.4 | -0.94 + 0.1 | 0.0/17.6 | 5486  |
| (11317)                | 2000 11 16.8 | 03 29.86 +20 01.0 17.9 | -0.85 - 2.9 | 0.3/17.1  | 35570 | 1998 BA <sub>7</sub>   | 2000 11 17.6 | 03 33.02 +15 31.7 18.4 | -1.04 - 2.8 | 1.3/17.0 | 6201  |
| (18804)                | 2000 11 16.8 | 03 29.91 +07 04.0 16.5 | -1.05 - 1.2 | 5.0/14.9  | 5300  | 1990 HY                | 2000 11 17.6 | 03 33.04 +04 02.2 17.0 | -1.02 + 1.1 | 5.2/15.5 | 6182  |
| 2576 P-L               | 2000 11 16.9 | 03 29.96 +22 54.8 19.3 | -1.15 - 2.5 | 1.4/17.6  | 6437  | 2000 SC <sub>294</sub> | 2000 11 17.6 | 03 33.05 +31 32.2 17.4 | -1.22 - 2.2 | 5.9/19.9 | 6077  |
| 3264 T-3               | 2000 11 16.9 | 03 30.05 +19 13.1 18.4 | -0.85 - 2.9 | 8.5/28.0  | 6169  | 1999 JY <sub>66</sub>  | 2000 11 17.6 | 03 33.14 +12 06.3 17.3 | -1.12 - 1.5 | 3.0/16.5 | 5560  |
| 1998 HQ <sub>94</sub>  | 2000 11 16.9 | 03 30.24 +19 18.2 18.2 | -0.93 - 4.0 | 8.6/28.0  | 6213  | 1997 AD <sub>14</sub>  | 2000 11 17.6 | 03 33.21 +27 47.0 17.4 | -0.98 - 4.9 | 3.2/19.5 | 6197  |
| (18422)                | 2000 11 16.9 | 03 30.35 +07 39.9 17.6 | -1.06 - 3.2 | 5.0/15.0  | 5188  | (10767)                | 2000 11 17.7 | 03 33.30 +18 41.5 15.5 | -1.18 - 0.9 | 0.2/17.6 | 34762 |
| 2000 RW <sub>36</sub>  | 2000 11 17.0 | 03 30.54 +11 49.4 18.0 | -0.68 - 6.5 | 3.9/15.3  | 6323  | (18801)                | 2000 11 17.7 | 03 33.40 +08 12.8 17.7 | -1.03 - 2.4 | 4.2/15.8 | 5299  |
| 1999 NL <sub>4</sub>   | 2000 11 17.0 | 03 30.56 +19 58.4 18.8 | -1.00 - 2.8 | 0.3/17.2  | 6240  | 1991 RP <sub>23</sub>  | 2000 11 17.7 | 03 33.52 +37 15.2 18.1 | -1.24 - 0.1 | 6.2/20.8 | 6184  |
| 1998 HH <sub>9</sub>   | 2000 11 17.0 | 03 30.59 +01 08.8 17.0 | -0.87 - 1.1 | 7.5/13.8  | 6211  | 1997 FE <sub>4</sub>   | 2000 11 17.7 | 03 33.52 +18 38.1 18.3 | -0.85 - 2.3 | 0.2/17.7 | 40316 |
| 1995 HQ <sub>2</sub>   | 2000 11 17.0 | 03 30.61 +17 38.8 20.2 | -1.10 - 1.1 | 0.5/16.8  | 28302 | 1997 AF <sub>4</sub>   | 2000 11 17.7 | 03 33.59 +05 12.9 17.6 | -0.91 - 2.5 | 4.9/15.1 | 6196  |
| 1998 GX <sub>8</sub>   | 2000 11 17.0 | 03 30.63 +01 28.9 20.1 | -0.90 - 2.1 | 5.4/13.7  | 3891  | 1981 EW <sub>8</sub>   | 2000 11 17.7 | 03 33.67 +16 50.3 17.4 | -0.92 - 5.7 | 1.1/17.3 | 6179  |
| 2000 UL <sub>26</sub>  | 2000 11 17.0 | 03 30.76 +07 58.1 17.9 | -0.99 - 5.1 | 4.9/14.9  | 6122  | (10522)                | 2000 11 17.7 | 03 33.70 +22 45.6 16.5 | -1.26 - 1.6 | 1.6/18.4 | 34442 |
| 1998 FG <sub>40</sub>  | 2000 11 17.0 | 03 30.79 +20 38.4 18.3 | -1.07 - 3.4 | 0.6/17.4  | 6207  | 1993 FE <sub>43</sub>  | 2000 11 17.7 | 03 33.72 +13 58.2 18.6 | -0.90 - 3.3 | 2.0/16.8 | 6187  |
| 1999 GA <sub>34</sub>  | 2000 11 17.1 | 03 30.80 +20 07.4 16.4 | -1.21 - 0.4 | 0.5/17.3  | 5528  | 1990 GS                | 2000 11 17.8 | 03 33.66 +35 26.7 17.6 | -1.21 - 1.1 | 6.0/20.7 | 6182  |
| 1999 JQ <sub>48</sub>  | 2000 11 17.1 | 03 30.89 +22 41.2 17.8 | -1.10 - 3.5 | 1.4/17.8  | 5549  | 1999 NX <sub>17</sub>  | 2000 11 17.8 | 03 33.70 +18 56.6 18.3 | -1.00 - 2.1 | 0.1/17.8 | 38800 |
| 2203 T-3               | 2000 11 17.1 | 03 31.04 +13 04.9 18.2 | -0.79 - 6.2 | 1.9/15.8  | 6440  | (11583)                | 2000 11 17.8 | 03 33.70 +12 53.9 18.6 | -0.86 - 2.3 | 1.9/16.6 | 35854 |
| 2722 P-L               | 2000 11 17.1 | 03 31.08 +01 24.3 19.2 | -0.85 - 5.1 | 5.4/13.3  | 36578 | 1999 JM <sub>108</sub> | 2000 11 17.8 | 03 33.74 +21 22.1 16.8 | -1.04 - 4.2 | 1.1/18.2 | 6236  |

|                        |              |                        |       |       |           |       |
|------------------------|--------------|------------------------|-------|-------|-----------|-------|
| 2000 UO <sub>26</sub>  | 2000 11 17.8 | 03 33.78 +08 47.7 17.4 | -1.05 | - 2.3 | 4.6/16.1  | 6122  |
| 2000 TC <sub>2</sub>   | 2000 11 17.8 | 03 33.90 +14 02.1 16.8 | -0.81 | - 9.6 | 2.1/16.5  | 6091  |
| 1998 AM <sub>6</sub>   | 2000 11 17.8 | 03 33.92 +17 04.8 18.5 | -1.11 | - 2.7 | 0.8/17.5  | 35615 |
| 2000 UC <sub>11</sub>  | 2000 11 17.8 | 03 33.98 +24 47.8 16.5 | -1.07 | - 6.7 | 2.5/19.1  | 6113  |
| 4072 P-L               | 2000 11 17.9 | 03 34.18 +19 13.3 18.8 | -1.05 | - 4.4 | 0.0/17.9  | 6438  |
| 2000 RQ <sub>38</sub>  | 2000 11 17.9 | 03 34.21 +20 05.2 15.4 | -1.16 | + 8.0 | 0.5/18.0  | 6324  |
| (11678)                | 2000 11 17.9 | 03 34.21 +20 34.2 17.7 | -1.03 | - 4.1 | 0.5/18.2  | 6177  |
| 1999 NJ <sub>32</sub>  | 2000 11 17.9 | 03 34.22 +15 07.8 18.7 | -0.90 | - 3.1 | 1.4/17.1  | 6240  |
| 1999 LS <sub>13</sub>  | 2000 11 17.9 | 03 34.25 +14 31.6 19.7 | -1.03 | - 5.6 | 1.7/17.0  | 5580  |
| 1998 GO <sub>9</sub>   | 2000 11 17.9 | 03 34.26 -02 23.7 18.3 | -0.83 | - 0.3 | 6.7/14.4  | 6211  |
| 1995 UW <sub>12</sub>  | 2000 11 17.9 | 03 34.39 +21 59.0 18.6 | -0.96 | - 2.6 | 1.0/18.5  | 6192  |
| (17603)                | 2000 11 17.9 | 03 34.46 +36 50.9 16.3 | -1.30 | + 1.9 | 6.9/20.6  | 4098  |
| (17626)                | 2000 11 17.9 | 03 34.58 +38 25.9 16.2 | -0.99 | - 3.7 | 6.3/22.2  | 4105  |
| 1999 LC <sub>6</sub>   | 2000 11 18.0 | 03 34.57 +09 08.5 17.9 | -0.94 | -10.9 | 3.1/15.4  | 5579  |
| 1981 ED <sub>10</sub>  | 2000 11 18.0 | 03 34.61 +23 08.1 19.6 | -1.14 | - 3.9 | 1.5/18.7  | 26916 |
| 1995 XF <sub>1</sub>   | 2000 11 18.0 | 03 34.68 +16 42.6 16.4 | -0.94 | + 0.2 | 0.9/17.6  | 5415  |
| 2000 SS <sub>226</sub> | 2000 11 18.0 | 03 34.81 +01 57.8 17.3 | -0.89 | - 5.5 | 6.9/14.2  | 6046  |
| 1998 HC <sub>102</sub> | 2000 11 18.0 | 03 34.88 +23 08.6 17.7 | -0.96 | - 0.4 | 1.2/18.7  | 6213  |
| 1998 HP <sub>98</sub>  | 2000 11 18.0 | 03 34.94 +17 32.9 17.6 | -0.88 | - 4.8 | 0.6/17.7  | 6213  |
| 1999 RF <sub>128</sub> | 2000 11 18.0 | 03 34.94 +12 41.7 17.1 | -0.83 | - 3.8 | 2.2/16.8  | 6247  |
| (11068)                | 2000 11 18.0 | 03 35.01 +21 05.1 17.6 | -1.15 | - 3.8 | 0.7/18.4  | 6177  |
| 1998 FX <sub>41</sub>  | 2000 11 18.1 | 03 34.98 +15 29.4 19.6 | -0.94 | - 4.3 | 1.3/17.4  | 5457  |
| 1998 DA <sub>34</sub>  | 2000 11 18.1 | 03 35.05 +26 07.7 17.8 | -1.10 | - 2.2 | 2.6/19.3  | 6204  |
| 1994 PV <sub>9</sub>   | 2000 11 18.1 | 03 35.06 +18 06.7 18.3 | -0.87 | - 3.3 | 0.4/17.9  | 5405  |
| 2000 SS <sub>320</sub> | 2000 11 18.1 | 03 35.16 +33 28.6 16.4 | -1.18 | + 2.4 | 6.0/20.1  | 6085  |
| (11303)                | 2000 11 18.1 | 03 35.18 +41 25.8 17.0 | -1.19 | - 3.0 | 8.0/22.6  | 35566 |
| (11671)                | 2000 11 18.1 | 03 35.24 +20 12.0 18.4 | -1.07 | - 3.3 | 0.3/18.3  | 35876 |
| 2000 RA <sub>51</sub>  | 2000 11 18.1 | 03 35.26 +15 44.2 17.0 | -0.96 | - 6.9 | 1.5/17.4  | 6327  |
| (11154)                | 2000 11 18.1 | 03 35.29 +28 07.7 17.1 | -1.17 | - 3.7 | 3.4/19.9  | 4878  |
| 1998 FY <sub>62</sub>  | 2000 11 18.1 | 03 35.31 +01 58.7 17.2 | -0.88 | - 7.2 | 6.7/14.1  | 6208  |
| 1998 FB <sub>28</sub>  | 2000 11 18.1 | 03 35.37 +23 19.8 18.6 | -1.06 | - 3.6 | 1.5/18.9  | 5454  |
| 1981 EW <sub>7</sub>   | 2000 11 18.2 | 03 35.34 +07 34.6 19.2 | -0.89 | - 5.5 | 3.7/15.7  | 32298 |
| 1998 KP <sub>53</sub>  | 2000 11 18.2 | 03 35.45 +04 24.2 19.8 | -0.77 | - 2.0 | 3.9/15.4  | 32336 |
| 1999 MB <sub>1</sub>   | 2000 11 18.2 | 03 35.58 +13 50.2 18.3 | -0.90 | - 5.3 | 2.2/17.1  | 6239  |
| 1999 JJ <sub>43</sub>  | 2000 11 18.2 | 03 35.66 +22 50.5 18.8 | -1.18 | - 1.6 | 1.3/18.8  | 5545  |
| 1998 FU <sub>67</sub>  | 2000 11 18.2 | 03 35.82 +09 17.7 17.4 | -0.93 | - 4.0 | 4.3/16.3  | 5463  |
| 1999 OF                | 2000 11 18.3 | 03 35.78 +21 16.7 19.5 | -1.06 | - 3.9 | 0.7/18.7  | 36908 |
| (11271)                | 2000 11 18.3 | 03 35.94 -05 12.4 18.0 | -1.12 | + 2.3 | 8.0/15.2  | 35559 |
| (18381)                | 2000 11 18.3 | 03 35.96 +08 10.5 17.1 | -0.89 | - 2.8 | 4.3/16.2  | 5176  |
| (17683)                | 2000 11 18.3 | 03 35.99 +42 54.0 17.6 | -1.16 | - 0.3 | 6.9/22.4  | 4121  |
| 1999 RV <sub>144</sub> | 2000 11 18.3 | 03 36.18 +12 28.1 19.4 | -0.77 | - 4.0 | 1.8/17.0  | 293   |
| 2000 RU <sub>50</sub>  | 2000 11 18.4 | 03 36.41 +24 22.7 17.6 | -1.14 | - 0.6 | 2.4/19.2  | 6327  |
| 1998 DV <sub>6</sub>   | 2000 11 18.4 | 03 36.56 +20 28.8 18.6 | -1.03 | - 5.9 | 0.4/18.7  | 6203  |
| 1991 VY <sub>12</sub>  | 2000 11 18.4 | 03 36.59 +19 45.9 15.4 | -0.91 | - 5.5 | 0.2/18.6  | 6185  |
| (18795)                | 2000 11 18.4 | 03 36.59 +11 16.7 17.6 | -1.11 | - 3.4 | 3.2/17.1  | 5297  |
| 1990 QT <sub>8</sub>   | 2000 11 18.5 | 03 36.63 +12 07.4 18.9 | -1.13 | - 3.6 | 2.9/17.2  | 6183  |
| 1998 BK <sub>33</sub>  | 2000 11 18.5 | 03 36.75 +12 00.0 17.7 | -1.07 | - 1.0 | 2.9/17.4  | 6202  |
| (11454)                | 2000 11 18.5 | 03 36.76 +44 46.4 16.5 | -1.25 | - 2.4 | 10.1/23.7 | 35820 |
| 1990 EK <sub>2</sub>   | 2000 11 18.5 | 03 36.78 +23 58.6 18.1 | -1.05 | - 5.7 | 1.9/19.5  | 5389  |
| 1999 NC <sub>2</sub>   | 2000 11 18.5 | 03 36.84 -01 54.9 18.3 | -0.87 | - 4.7 | 7.4/14.0  | 6239  |
| 2000 VD <sub>16</sub>  | 2000 11 18.5 | 03 36.90 +12 39.6 17.0 | -0.98 | - 3.6 | 3.0/17.3  | 6133  |

|                        |              |                        |       |       |          |       |
|------------------------|--------------|------------------------|-------|-------|----------|-------|
| 1992 HN                | 2000 11 18.5 | 03 36.90 +17 43.2 17.7 | -1.18 | - 1.6 | 0.7/18.3 | 6185  |
| 1999 VV <sub>203</sub> | 2000 11 18.5 | 03 36.93 +38 17.8 16.8 | -1.14 | + 2.0 | 5.8/21.3 | 6262  |
| (11433)                | 2000 11 18.5 | 03 36.93 +19 05.0 18.2 | -1.07 | - 2.5 | 0.1/18.5 | 35599 |
| 2000 QD <sub>35</sub>  | 2000 11 18.5 | 03 37.00 +19 02.5 17.7 | -0.84 | - 5.4 | 0.1/18.5 | 6289  |
| 1999 KU <sub>10</sub>  | 2000 11 18.6 | 03 37.18 +16 10.5 18.2 | -1.06 | - 6.1 | 1.3/18.0 | 5577  |
| (12095)                | 2000 11 18.6 | 03 37.24 +21 31.8 17.3 | -0.93 | - 2.9 | 0.7/19.1 | 6177  |
| 1998 KD <sub>9</sub>   | 2000 11 18.6 | 03 37.24 +00 45.8 18.4 | -0.90 | - 3.9 | 6.2/14.8 | 4412  |
| 1997 AF <sub>2</sub>   | 2000 11 18.6 | 03 37.39 +02 26.0 18.0 | -0.90 | - 0.5 | 7.0/15.9 | 4343  |
| 1997 AC <sub>3</sub>   | 2000 11 18.6 | 03 37.49 +37 22.0 18.0 | -1.08 | - 2.8 | 5.8/22.2 | 6196  |
| (18471)                | 2000 11 18.7 | 03 37.47 +11 41.4 17.8 | -0.89 | - 5.9 | 2.6/17.0 | 5202  |
| 1999 RO <sub>148</sub> | 2000 11 18.7 | 03 37.79 -01 50.0 18.5 | -0.73 | - 3.8 | 6.4/14.1 | 6249  |
| (11731)                | 2000 11 18.7 | 03 37.85 +16 14.1 17.9 | -0.79 | - 2.5 | 0.8/18.2 | 35893 |
| 2000 RV <sub>7</sub>   | 2000 11 18.7 | 03 37.86 -01 04.0 17.0 | -0.87 | - 8.7 | 9.3/13.7 | 6316  |
| (17795)                | 2000 11 18.7 | 03 37.88 +22 43.3 16.5 | -1.05 | - 2.9 | 1.6/19.4 | 4154  |
| 1999 RY <sub>55</sub>  | 2000 11 18.7 | 03 37.90 +34 19.1 17.3 | -1.01 | - 1.1 | 5.0/21.5 | 6244  |
| (19072)                | 2000 11 18.8 | 03 37.98 +29 03.9 17.6 | -0.92 | - 2.8 | 3.4/20.7 | 5378  |
| 1985 CY <sub>1</sub>   | 2000 11 18.8 | 03 38.03 +00 46.2 18.4 | -0.82 | - 4.1 | 6.2/14.7 | 6180  |
| 1981 EH <sub>8</sub>   | 2000 11 18.8 | 03 38.03 +32 12.1 18.9 | -1.23 | - 3.5 | 5.2/21.1 | 6179  |
| (18560)                | 2000 11 18.8 | 03 38.17 +32 41.0 17.9 | -0.93 | - 2.7 | 3.7/21.5 | 5227  |
| (15421)                | 2000 11 18.8 | 03 38.22 +19 30.8 18.0 | -0.93 | - 2.2 | 0.0/18.9 | 6178  |
| 1999 TP <sub>37</sub>  | 2000 11 18.9 | 03 38.38 +28 18.4 17.9 | -0.85 | - 3.9 | 2.4/20.8 | 5630  |
| 1995 UG <sub>11</sub>  | 2000 11 18.9 | 03 38.44 +14 59.3 19.4 | -0.90 | - 4.8 | 1.6/18.0 | 30784 |
| 1999 RN <sub>114</sub> | 2000 11 18.9 | 03 38.49 +19 38.6 18.4 | -0.83 | - 2.3 | 0.0/19.0 | 3919  |
| 1998 FC <sub>42</sub>  | 2000 11 18.9 | 03 38.49 -02 34.3 19.0 | -0.75 | - 4.3 | 5.6/14.4 | 40322 |
| (18366)                | 2000 11 18.9 | 03 38.54 +12 19.1 16.4 | -0.83 | - 3.8 | 2.6/17.5 | 5172  |
| 4322 T-3               | 2000 11 18.9 | 03 38.55 +13 52.0 19.1 | -0.96 | - 1.0 | 2.1/18.1 | 6172  |
| 1998 DV <sub>4</sub>   | 2000 11 18.9 | 03 38.64 +18 18.1 17.4 | -1.04 | - 3.5 | 0.6/18.8 | 6203  |
| 1999 JR <sub>41</sub>  | 2000 11 18.9 | 03 38.66 +11 12.1 18.2 | -0.94 | - 7.2 | 3.2/17.2 | 5545  |
| 1998 CY                | 2000 11 18.9 | 03 38.70 +20 20.1 18.3 | -1.02 | - 4.8 | 0.3/19.2 | 6202  |
| 1998 CW <sub>1</sub>   | 2000 11 18.9 | 03 38.72 +09 47.6 18.4 | -1.07 | - 1.0 | 4.3/17.5 | 5443  |
| (11562)                | 2000 11 18.9 | 03 38.72 +19 43.5 17.0 | -0.98 | - 1.5 | 0.1/19.0 | 35848 |
| 1998 BO <sub>12</sub>  | 2000 11 19.0 | 03 38.72 +09 04.6 17.7 | -1.05 | - 1.9 | 3.7/17.3 | 6201  |
| 1996 RY <sub>22</sub>  | 2000 11 19.0 | 03 38.82 +17 23.6 19.7 | -1.07 | - 3.9 | 0.8/18.7 | 6194  |
| 1999 JM <sub>4</sub>   | 2000 11 19.0 | 03 38.87 +11 37.3 16.2 | -1.00 | -20.9 | 3.5/16.6 | 6228  |
| 1999 RP <sub>174</sub> | 2000 11 19.0 | 03 38.89 +17 26.3 18.2 | -0.85 | - 2.3 | 0.6/18.7 | 6251  |
| 1998 BU <sub>6</sub>   | 2000 11 19.0 | 03 38.92 +07 27.3 16.7 | -1.04 | - 1.5 | 5.7/17.1 | 6201  |
| 1999 JD <sub>58</sub>  | 2000 11 19.0 | 03 39.12 +23 08.0 17.8 | -1.04 | - 4.8 | 1.3/19.8 | 5554  |
| 1999 HJ <sub>1</sub>   | 2000 11 19.1 | 03 39.11 -01 18.9 17.3 | -1.02 | - 9.3 | 7.7/14.3 | 6227  |
| 1999 RY <sub>136</sub> | 2000 11 19.1 | 03 39.22 +33 27.8 18.2 | -0.97 | - 2.9 | 4.2/22.0 | 1458  |
| 1998 HC <sub>63</sub>  | 2000 11 19.1 | 03 39.32 +27 52.5 17.0 | -1.20 | + 2.1 | 3.1/20.2 | 5480  |
| 1999 NJ <sub>40</sub>  | 2000 11 19.1 | 03 39.32 +13 07.9 19.6 | -0.94 | - 2.6 | 2.0/18.0 | 36091 |
| 2000 SH <sub>309</sub> | 2000 11 19.1 | 03 39.50 +23 41.7 16.2 | -0.93 | - 5.3 | 2.2/20.1 | 6407  |
| 1999 JY <sub>54</sub>  | 2000 11 19.2 | 03 39.54 +20 33.2 18.0 | -1.17 | - 1.1 | 0.4/19.4 | 5552  |
| 1999 NO <sub>9</sub>   | 2000 11 19.2 | 03 39.84 +30 02.3 17.6 | -0.96 | - 4.3 | 3.6/21.4 | 36545 |
| (10548)                | 2000 11 19.2 | 03 39.88 +15 40.2 17.8 | -1.08 | - 5.3 | 1.4/18.5 | 34449 |
| 1999 NJ <sub>4</sub>   | 2000 11 19.2 | 03 39.99 +15 20.5 19.7 | -1.06 | - 2.7 | 1.4/18.6 | 36089 |
| 6775 P-L               | 2000 11 19.3 | 03 39.95 +17 12.7 17.8 | -0.99 | - 2.3 | 1.2/18.9 | 6146  |
| 1998 DD <sub>35</sub>  | 2000 11 19.3 | 03 39.95 +14 46.9 18.2 | -1.07 | - 3.2 | 2.0/18.5 | 5448  |
| (17689)                | 2000 11 19.3 | 03 39.95 +33 27.5 17.4 | -0.98 | - 1.9 | 4.1/21.9 | 4123  |
| 1998 FL <sub>114</sub> | 2000 11 19.3 | 03 39.96 +17 28.0 18.1 | -0.93 | - 6.4 | 0.7/18.9 | 6210  |
| 1998 AB <sub>5</sub>   | 2000 11 19.3 | 03 39.97 +07 44.4 18.6 | -1.06 | - 1.9 | 4.5/17.4 | 6200  |

|                        |              |                        |             |          |       |                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|----------|-------|------------------------|--------------|------------------------|-------------|----------|-------|
| 1999 FH <sub>32</sub>  | 2000 11 19.3 | 03 39.99 +17 29.4 16.7 | -1.12 - 5.3 | 0.9/18.9 | 5523  | 1986 RV <sub>5</sub>   | 2000 11 20.0 | 03 43.15 +20 34.7 16.6 | -1.02 - 7.1 | 0.4/20.2 | 6181  |
| 1997 YF <sub>11</sub>  | 2000 11 19.3 | 03 40.08 +10 03.3 18.5 | -1.06 - 1.7 | 3.5/17.8 | 6200  | (11109)                | 2000 11 20.0 | 03 43.29 +21 25.5 17.4 | -0.92 - 3.0 | 0.6/20.4 | 6177  |
| 1998 FU <sub>66</sub>  | 2000 11 19.3 | 03 40.10 +10 37.7 17.9 | -0.90 - 4.0 | 3.3/17.6 | 5463  | 1995 SD <sub>24</sub>  | 2000 11 20.0 | 03 43.30 +11 53.0 17.8 | -0.91 - 3.4 | 2.8/18.7 | 6191  |
| 1999 JN <sub>59</sub>  | 2000 11 19.3 | 03 40.11 +11 03.7 18.6 | -1.05 - 3.4 | 3.2/17.8 | 5555  | 1998 BB <sub>7</sub>   | 2000 11 20.0 | 03 43.33 +29 36.1 18.5 | -1.16 - 2.6 | 3.7/21.8 | 6201  |
| 1999 KO <sub>6</sub>   | 2000 11 19.3 | 03 40.24 +19 37.1 16.9 | -1.11 - 2.2 | 0.0/19.4 | 6238  | 2000 UT <sub>18</sub>  | 2000 11 20.1 | 03 43.26 +30 53.9 16.7 | -1.00 - 0.4 | 4.2/21.8 | 6116  |
| (11178)                | 2000 11 19.3 | 03 40.38 +10 07.6 18.1 | -0.86 - 5.6 | 2.9/17.4 | 35257 | (11111)                | 2000 11 20.1 | 03 43.35 +15 38.4 17.2 | -0.90 - 2.1 | 1.4/19.4 | 6177  |
| 1998 MC <sub>3</sub>   | 2000 11 19.3 | 03 40.39 +11 38.4 18.4 | -0.96 - 4.8 | 3.3/17.8 | 5491  | 1999 JE <sub>11</sub>  | 2000 11 20.1 | 03 43.47 +17 15.3 19.2 | -1.09 - 2.4 | 0.9/19.7 | 6228  |
| 1998 FW <sub>61</sub>  | 2000 11 19.3 | 03 40.40 +15 54.0 16.5 | -0.92 - 6.9 | 1.7/18.6 | 6208  | 2000 UC <sub>9</sub>   | 2000 11 20.1 | 03 43.53 +18 49.3 17.3 | -0.81 - 5.4 | 0.3/20.0 | 6112  |
| 1999 RS <sub>146</sub> | 2000 11 19.4 | 03 40.45 +33 00.8 18.4 | -0.97 - 3.5 | 4.1/22.1 | 1459  | 2000 SV <sub>226</sub> | 2000 11 20.1 | 03 43.55 +03 19.7 19.6 | -0.83 - 3.3 | 5.8/17.0 | 6046  |
| 1999 RJ <sub>1</sub>   | 2000 11 19.4 | 03 40.68 +22 46.0 16.9 | -0.92 - 0.2 | 1.0/20.0 | 5589  | 1999 RY <sub>202</sub> | 2000 11 20.1 | 03 43.55 +34 57.9 18.1 | -0.97 - 5.4 | 4.5/23.4 | 6252  |
| 1998 AT <sub>6</sub>   | 2000 11 19.4 | 03 40.73 +11 12.3 18.6 | -1.08 - 1.2 | 3.3/18.2 | 6200  | 2000 UG <sub>82</sub>  | 2000 11 20.1 | 03 43.63 +32 33.3 18.1 | -1.20 - 3.2 | 5.2/22.6 | 6133  |
| 1998 FM <sub>10</sub>  | 2000 11 19.4 | 03 40.77 -00 14.4 17.5 | -0.82 - 8.2 | 8.2/14.8 | 6206  | 4125 T-1               | 2000 11 20.1 | 03 43.68 +19 56.2 16.9 | -1.21 - 2.6 | 0.1/20.2 | 6439  |
| 1999 JW <sub>93</sub>  | 2000 11 19.4 | 03 40.78 +07 32.3 18.8 | -0.93 - 4.0 | 4.3/17.3 | 5570  | 1998 FW <sub>99</sub>  | 2000 11 20.1 | 03 43.71 +21 18.6 18.9 | -1.06 - 5.5 | 0.6/20.5 | 5467  |
| 1999 JA <sub>64</sub>  | 2000 11 19.5 | 03 40.82 +13 24.1 19.4 | -1.09 - 4.7 | 2.3/18.4 | 35461 | 1999 FZ <sub>10</sub>  | 2000 11 20.2 | 03 43.68 +26 09.1 18.2 | -1.27 - 1.8 | 2.9/21.2 | 5521  |
| (18791)                | 2000 11 19.5 | 03 40.93 +23 24.6 16.0 | -1.15 - 0.3 | 1.7/20.1 | 5296  | (18350)                | 2000 11 20.2 | 03 43.81 +21 08.6 16.8 | -1.09 - 2.2 | 0.7/20.5 | 5168  |
| 1999 JN <sub>58</sub>  | 2000 11 19.5 | 03 40.97 +18 38.0 18.0 | -1.16 - 0.4 | 0.4/19.4 | 5554  | 1993 TQ <sub>32</sub>  | 2000 11 20.2 | 03 43.85 +25 30.8 16.8 | -1.28 + 1.8 | 2.6/20.9 | 6188  |
| (11610)                | 2000 11 19.5 | 03 40.98 +26 55.7 16.0 | -0.90 - 5.4 | 2.5/21.1 | 35861 | 1999 JW <sub>78</sub>  | 2000 11 20.2 | 03 43.87 +18 05.7 18.1 | -1.10 - 5.2 | 0.6/19.9 | 5566  |
| 1993 EL                | 2000 11 19.5 | 03 41.03 +01 42.4 19.8 | -0.95 - 0.9 | 5.3/16.5 | 32306 | 2000 VG <sub>38</sub>  | 2000 11 20.2 | 03 43.91 +21 40.6 16.3 | -0.92 - 6.5 | 0.7/20.7 | 6134  |
| 1999 JV <sub>120</sub> | 2000 11 19.6 | 03 41.16 +13 01.1 16.9 | -1.13 + 1.5 | 3.1/18.8 | 6237  | 1999 NB <sub>53</sub>  | 2000 11 20.2 | 03 43.99 +14 43.7 16.0 | -0.90 - 9.3 | 2.0/19.1 | 6241  |
| (11505)                | 2000 11 19.6 | 03 41.27 +22 23.0 17.2 | -0.81 - 2.5 | 0.8/20.1 | 35834 | 1999 JH <sub>53</sub>  | 2000 11 20.2 | 03 44.10 +11 05.4 17.5 | -1.04 - 5.4 | 3.4/18.6 | 5551  |
| 1999 JX <sub>41</sub>  | 2000 11 19.6 | 03 41.29 +14 36.4 19.3 | -1.04 - 4.5 | 1.8/18.7 | 1445  | 1998 GH <sub>1</sub>   | 2000 11 20.2 | 03 44.12 +23 24.5 19.5 | -0.97 - 1.2 | 1.1/20.9 | 6211  |
| 1999 JT <sub>84</sub>  | 2000 11 19.6 | 03 41.42 -01 08.8 20.1 | -0.95 - 0.1 | 6.1/16.7 | 35465 | (18621)                | 2000 11 20.2 | 03 44.17 +06 43.7 18.0 | -0.97 - 3.4 | 5.7/17.9 | 5245  |
| 2000 VG <sub>3</sub>   | 2000 11 19.6 | 03 41.46 +24 39.9 18.4 | -1.22 - 1.0 | 2.2/20.4 | 6133  | 1996 NG <sub>5</sub>   | 2000 11 20.3 | 03 44.17 +22 34.7 18.9 | -1.16 - 3.5 | 1.1/20.8 | 6193  |
| 1998 GA <sub>1</sub>   | 2000 11 19.6 | 03 41.46 +18 45.9 18.8 | -1.03 - 2.4 | 0.3/19.5 | 5471  | 1998 HQ <sub>86</sub>  | 2000 11 20.3 | 03 44.24 +21 14.8 18.7 | -0.91 - 3.1 | 0.5/20.6 | 5480  |
| 1997 AG <sub>4</sub>   | 2000 11 19.7 | 03 41.68 +38 42.3 16.1 | -1.12 - 4.5 | 7.2/23.6 | 5426  | 1999 JX <sub>40</sub>  | 2000 11 20.3 | 03 44.35 +12 40.8 18.0 | -1.07 - 5.1 | 3.1/19.0 | 5544  |
| 1989 SN <sub>10</sub>  | 2000 11 19.7 | 03 41.81 +30 22.0 20.6 | -0.98 - 2.4 | 2.9/22.0 | 1867  | 1999 HW <sub>2</sub>   | 2000 11 20.3 | 03 44.40 -11 41.8 21.0 | -0.89 - 4.4 | 8.6/14.2 | 38068 |
| (10943)                | 2000 11 19.7 | 03 41.88 +20 25.8 17.0 | -1.17 - 4.3 | 0.4/19.9 | 34808 | 1999 RN <sub>2</sub>   | 2000 11 20.3 | 03 44.40 +17 28.5 18.1 | -0.85 - 5.2 | 0.7/19.9 | 6242  |
| 1999 KQ <sub>10</sub>  | 2000 11 19.7 | 03 41.99 +19 51.1 17.4 | -1.06 - 4.1 | 0.1/19.8 | 5577  | (11868)                | 2000 11 20.3 | 03 44.53 +33 02.6 18.9 | -0.96 - 2.5 | 3.8/22.8 | 6177  |
| 1981 EL <sub>17</sub>  | 2000 11 19.7 | 03 42.00 +04 23.8 19.2 | -0.88 - 6.0 | 5.1/16.5 | 4880  | 1998 FW <sub>47</sub>  | 2000 11 20.4 | 03 44.50 +18 03.1 16.9 | -0.98 - 6.4 | 0.9/20.0 | 5459  |
| 1997 CD <sub>26</sub>  | 2000 11 19.7 | 03 42.02 +03 29.7 19.6 | -0.83 - 2.1 | 4.9/16.9 | 32058 | 1999 RT <sub>39</sub>  | 2000 11 20.4 | 03 44.61 +20 49.0 18.2 | -0.86 - 5.2 | 0.3/20.6 | 6243  |
| 1997 AQ <sub>5</sub>   | 2000 11 19.7 | 03 42.04 +18 40.2 16.9 | -0.96 - 0.9 | 0.3/19.6 | 6196  | (18329)                | 2000 11 20.4 | 03 44.80 +27 06.0 16.9 | -1.22 - 2.7 | 3.3/22.0 | 5162  |
| 1998 FF <sub>49</sub>  | 2000 11 19.7 | 03 42.09 +23 26.3 18.6 | -1.12 - 3.4 | 1.6/20.5 | 34019 | 1999 KT <sub>14</sub>  | 2000 11 20.4 | 03 44.80 +16 13.5 17.8 | -1.08 - 2.4 | 1.4/19.9 | 6238  |
| (18047)                | 2000 11 19.8 | 03 42.14 +39 08.7 17.5 | -0.98 - 3.0 | 5.5/23.9 | 4229  | (11330)                | 2000 11 20.4 | 03 44.81 +16 43.6 16.6 | -0.97 + 1.1 | 1.1/20.0 | 3859  |
| 1992 DY <sub>5</sub>   | 2000 11 19.8 | 03 42.22 +15 54.5 16.8 | -0.90 - 1.9 | 1.4/19.2 | 6185  | 1989 SC <sub>3</sub>   | 2000 11 20.4 | 03 44.85 +27 19.4 16.7 | -1.30 + 2.5 | 3.2/21.3 | 5388  |
| 1999 JQ <sub>52</sub>  | 2000 11 19.8 | 03 42.26 +19 47.4 18.5 | -1.11 - 2.2 | 0.0/19.9 | 5550  | (11168)                | 2000 11 20.4 | 03 44.87 +23 32.4 17.5 | -1.10 - 2.7 | 1.5/21.1 | 35255 |
| 1999 JC <sub>51</sub>  | 2000 11 19.8 | 03 42.29 +13 58.4 18.1 | -1.04 - 4.5 | 2.3/18.8 | 5550  | 1999 PF <sub>6</sub>   | 2000 11 20.4 | 03 45.00 +24 38.6 19.2 | -0.91 - 3.1 | 1.5/21.4 | 5588  |
| 1999 JJ <sub>81</sub>  | 2000 11 19.8 | 03 42.30 +15 50.9 18.4 | -1.00 - 4.6 | 1.2/19.1 | 36087 | 2000 SF <sub>294</sub> | 2000 11 20.5 | 03 44.94 +17 58.8 17.5 | -0.98 -18.2 | 0.8/20.0 | 6404  |
| 1999 RH <sub>47</sub>  | 2000 11 19.8 | 03 42.36 +00 06.2 17.9 | -0.80 - 1.4 | 6.3/16.5 | 6244  | 1998 FP <sub>125</sub> | 2000 11 20.5 | 03 45.01 +11 29.8 18.3 | -0.90 - 6.2 | 2.7/18.8 | 6211  |
| 1997 GF <sub>11</sub>  | 2000 11 19.8 | 03 42.48 +27 23.7 17.9 | -0.93 - 1.7 | 2.4/21.2 | 5431  | 1998 GV <sub>8</sub>   | 2000 11 20.5 | 03 45.14 +01 47.3 18.0 | -0.92 - 0.8 | 5.7/17.6 | 36081 |
| 1999 NY <sub>52</sub>  | 2000 11 19.9 | 03 42.48 +11 18.0 18.6 | -0.85 - 6.3 | 2.6/18.1 | 36017 | 1999 QO                | 2000 11 20.5 | 03 45.25 +19 39.6 17.2 | -0.86 - 5.6 | 0.1/20.5 | 6242  |
| (11722)                | 2000 11 19.9 | 03 42.49 +02 21.6 17.3 | -0.83 - 2.2 | 5.6/16.8 | 4878  | 2000 SB <sub>172</sub> | 2000 11 20.5 | 03 45.40 +02 26.0 17.8 | -0.89 - 5.5 | 5.9/17.0 | 6382  |
| (11993)                | 2000 11 19.9 | 03 42.62 +26 19.3 17.5 | -0.95 - 0.7 | 2.0/21.0 | 36271 | 1998 HR <sub>99</sub>  | 2000 11 20.6 | 03 45.37 +12 27.5 19.1 | -0.91 - 3.4 | 2.5/19.3 | 5481  |
| 1999 JB <sub>13</sub>  | 2000 11 19.9 | 03 42.63 +04 54.5 18.4 | -0.95 - 1.1 | 5.0/17.7 | 6228  | 2000 SL <sub>309</sub> | 2000 11 20.6 | 03 45.46 +15 19.1 17.4 | -0.95 - 8.5 | 1.7/19.6 | 6082  |
| 1999 JK <sub>25</sub>  | 2000 11 19.9 | 03 42.69 +23 43.5 18.7 | -1.12 - 4.8 | 1.5/20.7 | 6229  | 1998 KF <sub>7</sub>   | 2000 11 20.6 | 03 45.49 +19 42.9 17.3 | -1.07 + 0.5 | 0.0/20.6 | 5487  |
| (18776)                | 2000 11 19.9 | 03 42.70 +21 53.3 16.3 | -1.10 - 3.5 | 1.1/20.3 | 5292  | 1981 EO <sub>10</sub>  | 2000 11 20.6 | 03 45.69 +03 36.2 18.3 | -0.87 - 7.6 | 6.3/16.9 | 6179  |
| 2000 UG <sub>9</sub>   | 2000 11 19.9 | 03 42.71 +21 46.1 18.0 | -1.10 - 3.5 | 1.1/20.3 | 6112  | 1999 JM <sub>56</sub>  | 2000 11 20.6 | 03 45.75 +16 50.6 19.2 | -1.08 - 2.7 | 1.1/20.2 | 5553  |
| 1999 JL <sub>13</sub>  | 2000 11 20.0 | 03 42.86 +16 42.9 17.9 | -1.07 -12.1 | 1.1/19.3 | 6228  | 2000 UB <sub>9</sub>   | 2000 11 20.6 | 03 45.82 +21 08.4 16.6 | -1.03 + 4.9 | 0.6/20.8 | 6421  |
| 1999 NP <sub>8</sub>   | 2000 11 20.0 | 03 42.94 +23 54.2 18.3 | -1.01 - 4.2 | 1.5/20.8 | 6240  | 1999 NK <sub>42</sub>  | 2000 11 20.7 | 03 45.87 +23 48.6 18.6 | -1.07 - 3.2 | 1.4/21.4 | 6241  |
| (18615)                | 2000 11 20.0 | 03 42.97 +01 45.6 17.8 | -0.99 - 0.1 | 6.4/17.5 | 5243  | 1981 EH <sub>33</sub>  | 2000 11 20.7 | 03 45.97 +09 29.6 19.4 | -0.80 - 4.3 | 3.1/18.7 | 6180  |
| 1999 RT <sub>100</sub> | 2000 11 20.0 | 03 43.06 +29 17.5 17.4 | -0.87 - 4.5 | 2.7/22.1 | 5599  | (11803)                | 2000 11 20.7 | 03 46.04 +07 25.5 17.4 | -0.80 - 6.8 | 4.3/17.9 | 6177  |
| 1998 FJ <sub>118</sub> | 2000 11 20.0 | 03 43.08 +18 55.6 18.0 | -1.03 - 6.1 | 0.3/19.9 | 5469  | (11161)                | 2000 11 20.7 | 03 46.16 +18 02.5 16.8 | -1.10 - 2.1 | 0.8/20.5 | 6177  |

|                        |              |                        |             |          |       |                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|----------|-------|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1998 KM <sub>47</sub>  | 2000 11 20.7 | 03 46.21 +16 11.4 16.3 | -0.81 - 8.6 | 1.1/19.9 | 6215  | (18427)                | 2000 11 21.4 | 03 48.99 +19 58.2 15.8 | -0.97 - 4.4 | 0.0/21.4  | 5190  |
| 1999 RB <sub>122</sub> | 2000 11 20.7 | 03 46.24 +12 08.5 19.5 | -0.80 - 2.7 | 2.3/19.4 | 6246  | 1998 CP                | 2000 11 21.4 | 03 49.13 +25 24.3 17.3 | -1.09 - 3.5 | 2.6/22.4  | 5443  |
| 1981 EL <sub>32</sub>  | 2000 11 20.7 | 03 46.26 +40 14.6 19.3 | -1.20 - 2.1 | 7.0/24.5 | 6180  | 1990 QB <sub>3</sub>   | 2000 11 21.4 | 03 49.19 +11 45.4 16.7 | -1.00 - 3.5 | 4.3/20.1  | 5389  |
| 1998 EU <sub>8</sub>   | 2000 11 20.8 | 03 46.27 +21 38.8 19.2 | -1.09 - 3.3 | 0.7/21.1 | 35705 | 1998 HB <sub>95</sub>  | 2000 11 21.5 | 03 49.15 +18 19.2 18.5 | -0.91 - 1.9 | 0.5/21.2  | 6213  |
| 2000 UQ <sub>9</sub>   | 2000 11 20.8 | 03 46.30 +18 55.1 17.8 | -1.18 - 0.5 | 0.4/20.7 | 6113  | 1997 BV <sub>2</sub>   | 2000 11 21.5 | 03 49.36 +19 16.7 18.3 | -0.94 - 1.7 | 0.3/21.4  | 6197  |
| 2000 UV <sub>26</sub>  | 2000 11 20.8 | 03 46.31 +06 38.1 17.2 | -0.86 - 9.1 | 5.2/17.6 | 6122  | 1998 DS <sub>35</sub>  | 2000 11 21.5 | 03 49.42 +06 16.1 17.3 | -1.01 - 3.3 | 6.2/19.1  | 5449  |
| 2000 RK <sub>37</sub>  | 2000 11 20.8 | 03 46.34 +30 23.3 17.0 | -1.00 -10.0 | 4.9/23.5 | 6323  | 1999 RK <sub>155</sub> | 2000 11 21.5 | 03 49.50 +32 36.3 17.5 | -0.95 - 3.2 | 3.8/23.9  | 5610  |
| 1995 VG <sub>13</sub>  | 2000 11 20.8 | 03 46.37 +15 20.8 18.8 | -0.91 - 2.2 | 1.5/20.1 | 6192  | 1998 DU <sub>37</sub>  | 2000 11 21.5 | 03 49.55 +24 23.9 19.9 | -1.04 - 3.2 | 1.4/22.3  | 4369  |
| (18483)                | 2000 11 20.8 | 03 46.41 +07 30.8 15.6 | -0.90 + 1.2 | 4.7/19.2 | 5205  | 1991 FS                | 2000 11 21.5 | 03 49.58 +23 43.1 16.8 | -1.20 - 0.9 | 1.6/22.0  | 6183  |
| 1995 FY <sub>20</sub>  | 2000 11 20.8 | 03 46.52 +26 18.6 17.6 | -1.20 - 1.1 | 2.5/21.8 | 6191  | 2000 TB                | 2000 11 21.6 | 03 49.55 +19 03.7 16.4 | -1.04 - 0.3 | 0.5/21.5  | 6089  |
| 2191 T-1               | 2000 11 20.9 | 03 46.66 +09 44.3 19.7 | -1.05 - 3.5 | 3.8/19.2 | 2586  | 6632 P-L               | 2000 11 21.6 | 03 49.67 +15 54.8 18.2 | -0.90 - 2.3 | 1.4/20.9  | 6145  |
| 1998 FC <sub>44</sub>  | 2000 11 20.9 | 03 46.70 +28 56.0 19.0 | -1.03 - 2.0 | 2.8/22.5 | 6207  | 1998 EG <sub>11</sub>  | 2000 11 21.6 | 03 49.68 +10 55.5 18.8 | -1.00 - 2.5 | 3.3/20.1  | 5451  |
| 1990 EZ <sub>2</sub>   | 2000 11 20.9 | 03 46.75 +12 21.9 17.6 | -0.77 - 3.6 | 2.2/19.5 | 6182  | 2000 UL <sub>9</sub>   | 2000 11 21.6 | 03 49.94 +18 35.6 16.6 | -0.98 - 6.8 | 0.7/21.4  | 6113  |
| 1999 JU <sub>82</sub>  | 2000 11 20.9 | 03 46.91 +06 01.9 19.1 | -1.07 - 0.8 | 4.9/19.0 | 35465 | 1999 NA <sub>10</sub>  | 2000 11 21.7 | 03 50.01 +21 29.0 17.2 | -0.93 - 3.0 | 0.5/22.0  | 6240  |
| (18433)                | 2000 11 20.9 | 03 46.92 +32 13.9 18.5 | -1.16 - 0.3 | 4.0/22.8 | 5191  | 1981 EK <sub>32</sub>  | 2000 11 21.7 | 03 50.03 +20 45.7 19.6 | -1.08 - 6.2 | 0.3/21.8  | 26921 |
| 1999 JN <sub>2</sub>   | 2000 11 20.9 | 03 46.92 +11 05.1 17.8 | -1.13 - 1.5 | 3.9/19.7 | 6227  | 1999 NJ <sub>9</sub>   | 2000 11 21.7 | 03 50.23 +28 45.9 18.9 | -0.99 - 3.5 | 2.5/23.4  | 6240  |
| 5366 T-2               | 2000 11 20.9 | 03 46.96 +23 33.1 18.8 | -0.87 - 4.6 | 1.1/21.7 | 6440  | 1995 KF                | 2000 11 21.7 | 03 50.45 -12 07.7 18.9 | -0.98 - 0.2 | 9.7/16.9  | 36516 |
| 5183 T-3               | 2000 11 20.9 | 03 47.02 +02 34.9 17.9 | -0.86 - 2.6 | 7.3/17.9 | 6173  | 1997 FO <sub>1</sub>   | 2000 11 21.8 | 03 50.51 +13 55.0 17.5 | -0.86 - 2.3 | 2.1/20.8  | 5430  |
| 1999 JO <sub>119</sub> | 2000 11 20.9 | 03 47.03 +18 34.3 16.8 | -1.04 - 4.9 | 0.6/20.7 | 6237  | 1993 XU <sub>1</sub>   | 2000 11 21.8 | 03 50.52 +14 47.1 14.2 | -0.91 -28.2 | 2.6/19.9  | 5401  |
| 2000 RS <sub>7</sub>   | 2000 11 21.0 | 03 47.06 +02 45.4 16.1 | -0.76 - 7.6 | 8.0/16.8 | 6316  | 4223 T-2               | 2000 11 21.8 | 03 50.59 +03 08.3 18.8 | -0.96 - 4.7 | 6.2/18.5  | 36124 |
| 2000 RB <sub>52</sub>  | 2000 11 21.0 | 03 47.22 +28 42.4 16.5 | -0.95 - 8.9 | 3.5/23.1 | 6327  | 1995 FB <sub>7</sub>   | 2000 11 21.8 | 03 50.69 +21 24.4 18.8 | -1.15 - 2.1 | 0.5/22.1  | 35426 |
| (18663)                | 2000 11 21.0 | 03 47.24 +12 14.3 17.5 | -0.98 - 5.7 | 3.3/19.5 | 5258  | (11557)                | 2000 11 21.8 | 03 50.71 +16 26.0 17.1 | -0.97 - 1.3 | 1.4/21.3  | 35847 |
| 1998 FV <sub>46</sub>  | 2000 11 21.0 | 03 47.33 +17 36.6 19.4 | -1.03 - 3.9 | 0.9/20.6 | 3208  | 1994 AB <sub>8</sub>   | 2000 11 21.8 | 03 50.88 +21 35.3 19.0 | -1.10 - 2.6 | 0.6/22.0  | 36070 |
| 1999 NF <sub>48</sub>  | 2000 11 21.0 | 03 47.37 +14 26.2 17.7 | -0.90 - 5.7 | 2.1/20.0 | 6241  | 1989 WZ <sub>1</sub>   | 2000 11 21.9 | 03 50.87 +20 21.9 15.8 | -1.04 - 0.3 | 12.1/12.0 | 6182  |
| (11485)                | 2000 11 21.0 | 03 47.47 +21 27.9 18.0 | -0.87 - 2.4 | 0.5/21.4 | 6177  | 4085 P-L               | 2000 11 21.9 | 03 50.93 +09 25.6 19.4 | -0.90 - 5.5 | 3.5/19.8  | 6438  |
| (17436)                | 2000 11 21.1 | 03 47.45 +10 37.8 16.9 | -0.89 - 3.5 | 4.9/19.4 | 4050  | 1998 HT <sub>127</sub> | 2000 11 21.9 | 03 50.93 +23 25.7 18.3 | -1.10 - 1.9 | 1.4/22.4  | 5484  |
| 1981 EM <sub>16</sub>  | 2000 11 21.1 | 03 47.52 +34 46.4 19.2 | -0.98 - 2.6 | 4.6/23.9 | 6179  | 2000 SJ <sub>277</sub> | 2000 11 21.9 | 03 50.93 +27 08.8 15.8 | -1.12 + 5.5 | 3.9/22.5  | 6401  |
| 1996 HY <sub>12</sub>  | 2000 11 21.1 | 03 47.52 +17 58.0 18.0 | -1.18 - 4.3 | 0.9/20.8 | 6193  | 1998 HK <sub>19</sub>  | 2000 11 21.9 | 03 51.04 +14 05.5 17.6 | -0.90 - 7.9 | 2.6/20.6  | 6212  |
| 1998 KF <sub>54</sub>  | 2000 11 21.1 | 03 47.52 -01 15.9 18.6 | -0.77 - 0.5 | 5.8/17.7 | 6215  | 1999 RD <sub>102</sub> | 2000 11 21.9 | 03 51.09 +22 10.6 17.6 | -0.86 - 5.1 | 0.6/22.4  | 6245  |
| (11106)                | 2000 11 21.1 | 03 47.54 +23 42.5 16.2 | -0.91 - 8.5 | 1.3/22.0 | 6177  | 1998 BS <sub>8</sub>   | 2000 11 21.9 | 03 51.16 +17 46.0 18.9 | -1.05 - 2.3 | 0.8/21.6  | 6201  |
| 1999 NR <sub>52</sub>  | 2000 11 21.1 | 03 47.57 +16 51.7 16.8 | -0.92 -10.2 | 1.3/20.4 | 6241  | 3249 T-1               | 2000 11 21.9 | 03 51.16 +28 30.4 16.4 | -1.11 - 2.1 | 3.6/23.3  | 6439  |
| 1999 RY <sub>2</sub>   | 2000 11 21.1 | 03 47.59 +05 23.1 19.0 | -0.74 - 3.3 | 3.7/18.3 | 4945  | 1999 JC <sub>64</sub>  | 2000 11 21.9 | 03 51.28 +17 49.4 18.0 | -1.00 - 3.8 | 0.9/22.0  | 5558  |
| (10985)                | 2000 11 21.1 | 03 47.65 +22 07.3 16.8 | -1.22 - 1.1 | 0.9/21.5 | 34819 | 2000 UZ <sub>14</sub>  | 2000 11 22.0 | 03 51.22 +27 15.2 18.0 | -1.18 - 0.1 | 3.2/23.0  | 6114  |
| (17767)                | 2000 11 21.1 | 03 47.72 +12 57.8 16.3 | -0.99 - 5.1 | 3.2/19.8 | 4146  | (11258)                | 2000 11 22.0 | 03 51.31 +20 50.1 16.6 | -0.85 - 4.9 | 0.2/22.2  | 35556 |
| 2000 SP <sub>89</sub>  | 2000 11 21.1 | 03 47.93 +19 29.5 17.6 | -0.85 - 8.0 | 0.1/21.1 | 5970  | 1998 KV <sub>33</sub>  | 2000 11 22.0 | 03 51.36 +19 24.3 19.7 | -0.83 - 2.4 | 0.2/21.9  | 40326 |
| 5089 T-2               | 2000 11 21.2 | 03 47.94 +17 32.0 19.5 | -1.10 - 7.0 | 1.0/20.7 | 6440  | 1993 FU <sub>52</sub>  | 2000 11 22.0 | 03 51.45 +12 12.5 18.1 | -0.92 - 2.3 | 3.1/20.7  | 6187  |
| 1997 EJ                | 2000 11 21.2 | 03 47.99 +32 01.6 17.4 | -1.01 - 1.0 | 3.8/23.2 | 6197  | 1999 NR <sub>10</sub>  | 2000 11 22.0 | 03 51.48 +32 06.4 16.7 | -0.96 - 3.7 | 3.8/24.3  | 5583  |
| 5019 T-3               | 2000 11 21.2 | 03 48.09 -02 00.3 18.4 | -0.78 - 2.7 | 7.4/17.1 | 6441  | 1999 NL <sub>7</sub>   | 2000 11 22.0 | 03 51.52 +14 55.9 19.0 | -1.03 - 2.9 | 1.9/21.2  | 36089 |
| 1998 FO <sub>69</sub>  | 2000 11 21.2 | 03 48.20 +13 53.3 17.4 | -1.03 - 3.9 | 2.5/20.2 | 6209  | 1999 RO <sub>48</sub>  | 2000 11 22.0 | 03 51.54 +16 14.1 18.8 | -1.05 - 3.3 | 1.4/21.4  | 5594  |
| 1994 PQ <sub>38</sub>  | 2000 11 21.2 | 03 48.29 +19 19.7 17.4 | -0.89 - 2.8 | 0.3/21.2 | 5407  | 1978 VW <sub>3</sub>   | 2000 11 22.0 | 03 51.58 +21 20.8 18.5 | -1.05 - 6.1 | 0.5/22.3  | 5381  |
| (12173)                | 2000 11 21.2 | 03 48.30 +15 29.0 17.3 | -0.92 - 3.8 | 1.7/20.5 | 36321 | 1998 FD <sub>56</sub>  | 2000 11 22.0 | 03 51.60 +21 25.8 17.9 | -1.02 - 1.5 | 0.4/22.3  | 5461  |
| 1999 JX <sub>65</sub>  | 2000 11 21.3 | 03 48.30 +18 43.3 17.5 | -1.18 - 2.8 | 0.5/21.1 | 5559  | 1999 RN <sub>112</sub> | 2000 11 22.0 | 03 51.67 -20 28.3 18.7 | -0.91 - 1.1 | 13.2/14.0 | 4946  |
| 1998 FY <sub>42</sub>  | 2000 11 21.3 | 03 48.45 +20 08.9 18.6 | -1.07 - 3.7 | 0.1/21.4 | 5458  | 1999 RW <sub>178</sub> | 2000 11 22.1 | 03 51.75 +18 17.4 18.6 | -0.80 - 1.6 | 0.5/21.8  | 5614  |
| 1998 FZ <sub>103</sub> | 2000 11 21.3 | 03 48.62 +27 47.3 19.9 | -0.94 - 3.1 | 2.1/22.8 | 36530 | 1998 BQ <sub>8</sub>   | 2000 11 22.1 | 03 51.80 +10 40.3 19.3 | -1.03 - 2.5 | 3.5/20.6  | 36077 |
| 1030 T-1               | 2000 11 21.3 | 03 48.63 +27 29.9 17.5 | -1.17 - 3.6 | 2.8/22.7 | 6439  | 1995 WQ <sub>3</sub>   | 2000 11 22.1 | 03 51.86 +19 12.4 17.6 | -0.92 - 1.8 | 0.3/22.0  | 6192  |
| 1316 T-2               | 2000 11 21.3 | 03 48.64 +21 52.4 18.6 | -1.02 - 2.2 | 0.9/21.7 | 6439  | 2000 UJ <sub>2</sub>   | 2000 11 22.1 | 03 51.88 +20 07.2 16.0 | -1.21 + 1.2 | 0.0/22.1  | 6419  |
| (10687)                | 2000 11 21.3 | 03 48.71 +14 45.1 16.4 | -1.10 + 0.6 | 2.7/20.7 | 6177  | 1993 OX <sub>11</sub>  | 2000 11 22.1 | 03 51.90 +24 06.6 16.4 | -0.88 - 3.3 | 1.4/22.9  | 6187  |
| 1999 NT <sub>38</sub>  | 2000 11 21.3 | 03 48.78 +15 53.3 18.8 | -0.95 - 1.8 | 1.3/20.7 | 6241  | 1995 VS <sub>8</sub>   | 2000 11 22.1 | 03 51.91 +20 19.6 18.5 | -0.92 - 1.9 | 0.0/22.2  | 6192  |
| 1999 JE <sub>61</sub>  | 2000 11 21.4 | 03 48.73 +11 33.6 18.4 | -1.12 - 1.0 | 3.3/20.2 | 5556  | (17599)                | 2000 11 22.2 | 03 52.06 +15 58.3 18.7 | -0.98 - 2.8 | 1.4/21.5  | 6178  |
| 1991 GV <sub>4</sub>   | 2000 11 21.4 | 03 48.93 +16 36.1 18.4 | -1.03 - 3.8 | 1.2/20.8 | 6184  | (18818)                | 2000 11 22.2 | 03 52.11 +10 38.7 17.3 | -1.07 - 2.5 | 3.6/20.7  | 5304  |
| (11361)                | 2000 11 21.4 | 03 48.98 +23 22.0 17.9 | -1.09 - 1.6 | 1.1/22.0 | 35581 | 1999 KM <sub>15</sub>  | 2000 11 22.2 | 03 52.15 +22 39.4 17.3 | -0.98 - 6.2 | 0.8/22.7  | 6238  |

|                        |              |                        |             |           |       |                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1999 RX <sub>151</sub> | 2000 11 22.2 | 03 52.25 +13 47.7 17.5 | -0.87 - 2.2 | 2.1/21.2  | 6249  | 1998 GX <sub>10</sub>  | 2000 11 22.8 | 03 54.92 +19 16.2 18.0 | -1.11 + 0.3 | 0.5/22.7  | 5473  |
| 6027 P-L               | 2000 11 22.3 | 03 52.48 +22 58.9 20.0 | -1.11 - 2.8 | 1.0/22.7  | 3838  | 1994 RQ <sub>16</sub>  | 2000 11 22.8 | 03 55.00 +17 47.6 17.8 | -0.88 - 2.9 | 0.8/22.4  | 5408  |
| 1999 RZ <sub>36</sub>  | 2000 11 22.3 | 03 52.58 +34 08.5 18.0 | -0.97 - 2.8 | 4.2/24.9  | 40358 | (11591)                | 2000 11 22.9 | 03 55.09 +12 20.5 17.2 | -1.06 - 3.3 | 3.1/21.6  | 6177  |
| 1998 FA <sub>1</sub>   | 2000 11 22.3 | 03 52.60 +18 46.8 17.9 | -1.01 - 1.6 | 0.5/22.1  | 6205  | 1997 FZ <sub>2</sub>   | 2000 11 22.9 | 03 55.13 +25 31.3 19.3 | -0.84 - 2.2 | 1.4/23.8  | 2626  |
| 1999 RF <sub>46</sub>  | 2000 11 22.3 | 03 52.69 +53 06.4 19.3 | -1.58 - 3.5 | 10.0/29.2 | 1450  | 1997 FA <sub>4</sub>   | 2000 11 22.9 | 03 55.28 +37 43.5 17.1 | -1.04 + 0.1 | 5.0/25.5  | 3880  |
| 1998 FZ <sub>65</sub>  | 2000 11 22.3 | 03 52.71 +23 12.7 18.7 | -1.04 - 3.2 | 1.1/22.8  | 6208  | 1999 JS <sub>20</sub>  | 2000 11 22.9 | 03 55.40 +15 24.7 18.0 | -1.13 - 5.8 | 2.1/22.1  | 6229  |
| 1999 NH <sub>55</sub>  | 2000 11 22.3 | 03 52.76 +23 22.4 18.3 | -0.97 - 6.2 | 1.0/23.0  | 5586  | 4292 T-3               | 2000 11 23.0 | 03 55.46 +07 25.6 19.1 | -0.89 - 3.3 | 4.5/20.8  | 6172  |
| 1999 NW                | 2000 11 22.3 | 03 52.80 +13 09.0 19.7 | -0.90 - 3.7 | 2.5/21.1  | 36544 | 1996 VL <sub>38</sub>  | 2000 11 23.0 | 03 55.56 +24 20.7 16.4 | -0.99 -10.5 | 1.7/24.0  | 5422  |
| 1995 FD <sub>4</sub>   | 2000 11 22.3 | 03 52.81 +22 12.9 20.1 | -1.12 - 2.6 | 0.7/22.7  | 34857 | (11652)                | 2000 11 23.0 | 03 55.59 +17 41.1 17.4 | -0.84 - 2.0 | 0.8/22.6  | 35871 |
| 1999 RD <sub>218</sub> | 2000 11 22.3 | 03 52.89 +01 53.7 19.4 | -0.88 - 3.1 | 5.8/19.2  | 5621  | 2000 SL <sub>279</sub> | 2000 11 23.0 | 03 55.67 +25 11.9 17.3 | -0.91 - 2.2 | 1.9/23.9  | 6071  |
| (17776)                | 2000 11 22.3 | 03 52.94 +32 13.0 18.3 | -1.14 - 3.4 | 4.4/24.5  | 4148  | 1998 HK <sub>39</sub>  | 2000 11 23.0 | 03 55.70 +24 24.6 17.8 | -1.01 - 1.5 | 1.3/23.7  | 6212  |
| (11424)                | 2000 11 22.4 | 03 52.93 +17 02.7 14.0 | -1.21 + 6.0 | 1.5/22.2  | 35597 | 1118 T-3               | 2000 11 23.0 | 03 55.74 +31 24.7 18.2 | -0.92 - 3.7 | 3.6/25.1  | 36055 |
| 1999 RG <sub>45</sub>  | 2000 11 22.4 | 03 52.95 +29 31.3 17.7 | -0.90 - 2.6 | 2.6/24.1  | 6244  | 2000 SL <sub>277</sub> | 2000 11 23.0 | 03 55.84 +17 40.0 17.3 | -1.05 - 0.4 | 1.4/22.7  | 6069  |
| 2000 RD <sub>76</sub>  | 2000 11 22.4 | 03 52.96 +32 12.3 16.6 | -1.03 - 4.8 | 4.6/24.8  | 6332  | (11129)                | 2000 11 23.0 | 03 55.92 +18 19.0 16.5 | -0.97 - 7.9 | 0.7/22.7  | 35245 |
| 1998 ML <sub>4</sub>   | 2000 11 22.4 | 03 52.98 -14 58.8 18.3 | -0.78 - 0.7 | 10.0/16.4 | 6215  | 1999 HX <sub>7</sub>   | 2000 11 23.0 | 03 55.92 +12 52.3 19.2 | -0.99 - 6.0 | 2.8/21.7  | 5532  |
| 1999 JL <sub>57</sub>  | 2000 11 22.4 | 03 52.99 +15 56.8 18.7 | -1.05 - 1.1 | 1.5/21.8  | 5553  | (18431)                | 2000 11 23.1 | 03 56.00 +31 24.2 16.9 | -1.12 - 3.9 | 5.0/25.1  | 5191  |
| 2000 RV <sub>53</sub>  | 2000 11 22.4 | 03 53.30 +34 07.8 16.0 | -0.87 -10.8 | 6.9/26.3  | 6328  | (10544)                | 2000 11 23.1 | 03 56.04 +31 18.7 17.1 | -1.32 - 1.5 | 4.5/24.8  | 6176  |
| 1999 RQ <sub>53</sub>  | 2000 11 22.4 | 03 53.32 +14 58.0 18.0 | -0.85 - 3.7 | 1.7/21.5  | 6244  | 1994 LC <sub>3</sub>   | 2000 11 23.1 | 03 56.05 +07 24.1 19.2 | -0.87 - 2.6 | 3.8/21.0  | 1415  |
| (18337)                | 2000 11 22.5 | 03 53.35 +18 42.9 17.1 | -0.85 - 2.7 | 0.6/22.2  | 5164  | 1999 JB <sub>124</sub> | 2000 11 23.1 | 03 56.06 +14 09.7 18.6 | -1.07 - 4.6 | 2.4/22.1  | 6237  |
| (18430)                | 2000 11 22.5 | 03 53.36 +14 54.6 16.9 | -1.00 - 6.5 | 2.3/21.4  | 5190  | 1999 JT <sub>76</sub>  | 2000 11 23.1 | 03 56.12 +07 49.3 17.0 | -1.01 - 1.8 | 5.4/21.3  | 6234  |
| 1999 NG <sub>5</sub>   | 2000 11 22.5 | 03 53.37 +04 14.5 18.9 | -0.89 - 1.3 | 4.8/20.1  | 6240  | 1998 FD <sub>58</sub>  | 2000 11 23.1 | 03 56.17 +22 00.1 17.6 | -1.07 - 3.4 | 0.7/23.4  | 6208  |
| (18649)                | 2000 11 22.5 | 03 53.40 +32 12.4 18.2 | -1.06 - 1.8 | 3.9/24.5  | 5253  | 1995 GB <sub>7</sub>   | 2000 11 23.1 | 03 56.18 +10 58.5 19.0 | -1.10 - 1.8 | 4.0/21.8  | 6191  |
| 1999 NJ <sub>8</sub>   | 2000 11 22.5 | 03 53.41 +06 26.4 18.6 | -0.89 - 1.4 | 4.4/20.4  | 36545 | (18641)                | 2000 11 23.1 | 03 56.20 +32 52.4 16.0 | -1.15 - 4.8 | 5.6/25.5  | 5251  |
| 1998 DN <sub>28</sub>  | 2000 11 22.5 | 03 53.42 +13 01.7 19.0 | -0.95 - 2.5 | 2.5/21.3  | 5448  | 1999 NZ <sub>39</sub>  | 2000 11 23.1 | 03 56.34 +34 18.1 20.0 | -1.07 - 2.7 | 4.4/25.6  | 2063  |
| 1981 EM <sub>28</sub>  | 2000 11 22.5 | 03 53.51 +51 58.2 20.8 | -1.25 - 0.5 | 7.7/28.4  | 26920 | 1995 OH <sub>10</sub>  | 2000 11 23.2 | 03 56.36 +24 06.3 17.7 | -1.04 - 3.9 | 1.4/23.9  | 6191  |
| 1998 FU <sub>68</sub>  | 2000 11 22.5 | 03 53.51 +10 33.2 18.5 | -0.90 - 5.4 | 3.1/20.6  | 6209  | 1990 QX <sub>4</sub>   | 2000 11 23.2 | 03 56.36 +22 55.6 16.9 | -1.27 - 0.4 | 1.2/23.5  | 6183  |
| 1997 ET <sub>32</sub>  | 2000 11 22.5 | 03 53.51 +14 20.4 18.9 | -0.83 - 3.5 | 2.1/21.5  | 5430  | (11533)                | 2000 11 23.2 | 03 56.49 +06 51.9 17.7 | -0.83 - 1.6 | 4.0/21.1  | 4878  |
| 1997 CY <sub>27</sub>  | 2000 11 22.5 | 03 53.54 +44 11.9 17.6 | -1.16 - 3.2 | 7.7/27.2  | 6197  | 2000 UE <sub>15</sub>  | 2000 11 23.2 | 03 56.51 +23 58.8 17.6 | -1.04 - 6.7 | 1.8/24.0  | 6115  |
| 4128 T-2               | 2000 11 22.5 | 03 53.58 +13 54.0 18.7 | -1.05 - 2.0 | 2.8/21.6  | 6440  | (11894)                | 2000 11 23.2 | 03 56.54 +25 31.7 18.4 | -1.18 - 0.8 | 1.8/23.9  | 36244 |
| 1981 ER <sub>33</sub>  | 2000 11 22.5 | 03 53.67 +15 26.0 19.5 | -1.07 - 5.1 | 1.9/21.7  | 26921 | 1999 LN <sub>4</sub>   | 2000 11 23.2 | 03 56.56 -18 14.9 20.0 | -0.91 - 3.3 | 11.8/16.2 | 35737 |
| 1999 JH <sub>81</sub>  | 2000 11 22.5 | 03 53.71 +19 38.0 16.8 | -0.97 - 7.1 | 0.2/22.4  | 6235  | 1998 FE <sub>62</sub>  | 2000 11 23.2 | 03 56.60 +44 27.8 17.1 | -1.35 + 1.2 | 10.7/27.0 | 6208  |
| 1996 XL <sub>5</sub>   | 2000 11 22.5 | 03 53.76 +05 35.6 16.1 | -1.05 + 4.2 | 6.4/21.3  | 6196  | 1999 JP <sub>57</sub>  | 2000 11 23.2 | 03 56.61 +17 28.8 18.5 | -1.14 - 3.1 | 1.2/22.8  | 6232  |
| (10597)                | 2000 11 22.5 | 03 53.76 +02 52.1 16.8 | -1.03 - 3.0 | 6.7/19.9  | 4878  | 1999 RW <sub>42</sub>  | 2000 11 23.2 | 03 56.73 +08 36.5 16.5 | -0.72 - 1.4 | 3.6/21.4  | 5593  |
| 1999 JM <sub>96</sub>  | 2000 11 22.6 | 03 53.77 +05 39.0 17.9 | -1.12 + 4.2 | 6.3/21.5  | 6236  | 1999 NX <sub>40</sub>  | 2000 11 23.2 | 03 56.79 +16 02.1 18.1 | -1.04 - 1.3 | 1.5/22.7  | 6241  |
| 1998 BB <sub>15</sub>  | 2000 11 22.6 | 03 53.77 +14 07.2 18.2 | -1.09 - 4.6 | 2.8/21.5  | 6201  | 1999 JL <sub>84</sub>  | 2000 11 23.3 | 03 56.69 +01 59.1 18.9 | -0.94 - 4.3 | 6.3/20.1  | 35465 |
| 2000 SB <sub>227</sub> | 2000 11 22.6 | 03 53.79 +07 13.3 18.4 | -1.00 - 1.6 | 6.0/20.7  | 6047  | 1999 RZ <sub>100</sub> | 2000 11 23.3 | 03 56.70 +18 35.3 17.5 | -0.83 - 6.4 | 0.6/22.9  | 6245  |
| 1998 HR <sub>119</sub> | 2000 11 22.6 | 03 53.88 +14 56.8 16.7 | -0.92 + 0.9 | 1.8/22.0  | 5483  | 1999 JF <sub>61</sub>  | 2000 11 23.3 | 03 56.72 +14 10.2 18.3 | -1.03 - 5.0 | 2.4/22.2  | 5556  |
| 2000 SL <sub>222</sub> | 2000 11 22.6 | 03 53.93 -03 27.3 16.0 | -0.89 - 0.4 | 10.0/19.1 | 6044  | (18780)                | 2000 11 23.3 | 03 56.82 +22 20.8 17.2 | -1.19 - 0.6 | 0.9/23.6  | 5293  |
| 1989 DK                | 2000 11 22.6 | 03 54.01 +37 12.0 16.0 | -1.12 - 5.5 | 6.6/26.0  | 6182  | 1998 KH <sub>58</sub>  | 2000 11 23.3 | 03 56.86 +31 24.7 20.1 | -0.99 + 0.3 | 3.0/24.9  | 36000 |
| 1999 NK <sub>4</sub>   | 2000 11 22.6 | 03 54.18 +20 40.8 19.3 | -0.89 - 2.1 | 0.1/22.7  | 5582  | 1999 VH <sub>155</sub> | 2000 11 23.3 | 03 56.93 -01 00.2 18.8 | -0.76 - 4.9 | 5.8/18.9  | 1536  |
| 2000 ND <sub>2</sub>   | 2000 11 22.7 | 03 54.30 +22 26.8 18.0 | -1.19 - 1.0 | 1.1/23.0  | 6274  | 1998 GC <sub>9</sub>   | 2000 11 23.3 | 03 56.96 +11 10.8 18.5 | -1.06 + 1.8 | 3.6/22.3  | 6211  |
| 1999 LF <sub>27</sub>  | 2000 11 22.7 | 03 54.36 +23 55.8 18.5 | -1.02 - 7.4 | 1.3/23.5  | 5581  | 1999 RO <sub>160</sub> | 2000 11 23.3 | 03 56.99 +31 41.4 17.7 | -1.01 - 0.9 | 3.5/25.1  | 6250  |
| 2000 UW <sub>9</sub>   | 2000 11 22.7 | 03 54.42 +23 07.9 16.3 | -1.08 - 2.4 | 1.4/23.2  | 6421  | 1992 ME                | 2000 11 23.3 | 03 57.00 -13 15.6 18.4 | -1.07 + 1.4 | 11.1/19.3 | 6185  |
| (10873)                | 2000 11 22.7 | 03 54.44 +22 29.1 17.3 | -1.11 - 4.2 | 0.8/23.1  | 34789 | (11774)                | 2000 11 23.3 | 03 57.07 +39 57.3 18.1 | -1.06 - 1.5 | 5.8/27.0  | 4878  |
| 1999 KL <sub>7</sub>   | 2000 11 22.7 | 03 54.46 +12 13.5 18.5 | -1.15 + 3.6 | 3.0/22.1  | 5577  | 1981 DU <sub>2</sub>   | 2000 11 23.3 | 03 57.18 +37 10.1 19.2 | -1.13 - 3.9 | 5.3/26.6  | 36062 |
| (17520)                | 2000 11 22.7 | 03 54.55 +41 10.9 16.2 | -1.22 - 3.0 | 8.2/26.4  | 4074  | 1999 NS <sub>18</sub>  | 2000 11 23.3 | 03 57.21 +25 51.5 18.9 | -1.15 - 3.0 | 2.0/24.3  | 6240  |
| 1998 EV <sub>8</sub>   | 2000 11 22.7 | 03 54.62 +42 43.5 19.0 | -1.47 + 4.2 | 6.7/24.9  | 6205  | 1981 ER <sub>7</sub>   | 2000 11 23.4 | 03 57.16 +19 41.3 19.4 | -1.09 - 4.9 | 0.3/23.3  | 26916 |
| 1992 PT                | 2000 11 22.8 | 03 54.62 +19 36.9 18.0 | -1.09 - 3.6 | 0.3/22.7  | 6185  | 1981 EO <sub>44</sub>  | 2000 11 23.4 | 03 57.24 +23 44.4 18.8 | -1.13 - 3.3 | 1.5/24.0  | 6180  |
| 1999 JP <sub>61</sub>  | 2000 11 22.8 | 03 54.68 +17 33.0 18.1 | -1.09 - 4.3 | 1.0/22.3  | 6233  | 1996 RS <sub>24</sub>  | 2000 11 23.4 | 03 57.41 +10 31.0 18.4 | -1.04 - 3.7 | 3.8/21.8  | 6194  |
| 1982 JY <sub>1</sub>   | 2000 11 22.8 | 03 54.68 +15 47.4 18.5 | -0.87 - 1.3 | 1.4/22.1  | 32739 | 1999 NF <sub>54</sub>  | 2000 11 23.4 | 03 57.59 +24 43.4 18.2 | -0.87 - 7.1 | 1.4/24.4  | 6241  |
| 1999 PV                | 2000 11 22.8 | 03 54.74 -02 30.4 17.2 | -0.92 - 3.5 | 8.4/18.5  | 6242  | 1979 TY <sub>1</sub>   | 2000 11 23.5 | 03 57.57 +29 03.6 16.0 | -1.24 + 2.9 | 4.3/24.4  | 6179  |

2000 NOV. 11

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|                        |              |                        |             |          |       |                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|----------|-------|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1999 NO <sub>56</sub>  | 2000 11 23.5 | 03 57.79 +20 50.8 18.6 | -0.95 - 6.1 | 0.1/23.6 | 5586  | 1994 PO <sub>25</sub>  | 2000 11 24.0 | 03 59.84 +21 20.7 19.2 | -0.93 - 1.9 | 0.2/24.2  | 6190  |
| 1998 HB <sub>148</sub> | 2000 11 23.5 | 03 57.84 +18 32.3 19.4 | -0.82 - 2.4 | 0.5/23.2 | 6214  | (11801)                | 2000 11 24.0 | 03 59.88 +21 45.9 16.5 | -0.87 - 6.1 | 0.4/24.3  | 36219 |
| (17349)                | 2000 11 23.5 | 03 57.96 +20 10.9 17.4 | -0.87 - 0.9 | 0.1/23.5 | 6178  | 1998 HR <sub>6</sub>   | 2000 11 24.0 | 03 59.91 +17 58.8 17.9 | -0.93 + 0.3 | 0.9/23.7  | 5473  |
| 2000 UZ <sub>5</sub>   | 2000 11 23.5 | 03 57.98 +32 14.4 17.6 | -1.95 +16.8 | 6.5/23.1 | 6109  | 1994 FE                | 2000 11 24.0 | 03 59.92 -06 21.6 19.3 | -0.92 - 2.7 | 8.9/19.3  | 31725 |
| 1999 NW <sub>21</sub>  | 2000 11 23.5 | 03 58.00 +15 07.1 18.0 | -0.97 - 0.7 | 2.0/22.8 | 6240  | 1992 DV <sub>8</sub>   | 2000 11 24.0 | 03 59.95 +12 37.4 17.1 | -1.10 - 4.8 | 3.3/22.7  | 6185  |
| 4780 P-L               | 2000 11 23.5 | 03 58.02 +13 50.5 17.8 | -0.83 - 3.4 | 2.1/22.4 | 6438  | 1990 SN <sub>7</sub>   | 2000 11 24.0 | 04 00.01 +22 26.3 17.3 | -1.26 - 1.2 | 0.8/24.3  | 6183  |
| (17445)                | 2000 11 23.5 | 03 58.03 +42 58.7 16.5 | -1.09 - 4.9 | 7.9/28.6 | 4053  | 1998 BE <sub>4</sub>   | 2000 11 24.0 | 04 00.04 +28 02.6 18.3 | -1.17 - 3.3 | 2.9/25.3  | 6201  |
| (17749)                | 2000 11 23.6 | 03 57.98 +12 06.9 15.9 | -1.12 + 2.3 | 4.1/22.8 | 4140  | 1999 JR <sub>3</sub>   | 2000 11 24.0 | 04 00.05 +01 41.6 16.3 | -1.12 -19.6 | 9.1/18.5  | 6228  |
| 2000 RM <sub>77</sub>  | 2000 11 23.6 | 03 58.03 +38 42.6 18.2 | -1.87 + 8.5 | 7.8/24.7 | 6333  | 2000 SY <sub>8</sub>   | 2000 11 24.1 | 04 00.08 -29 36.7 18.2 | -1.04 + 2.3 | 25.9/13.8 | 5934  |
| (10707)                | 2000 11 23.6 | 03 58.06 +21 12.4 14.9 | -1.13 + 2.6 | 0.4/23.7 | 3858  | 1999 JG <sub>80</sub>  | 2000 11 24.1 | 04 00.16 +08 37.4 17.1 | -1.09 0.0   | 5.2/22.7  | 6235  |
| (18393)                | 2000 11 23.6 | 03 58.20 +25 17.1 17.7 | -1.42 + 4.9 | 1.8/24.0 | 5180  | 1999 GF <sub>33</sub>  | 2000 11 24.1 | 04 00.21 +11 55.8 18.4 | -1.17 - 0.6 | 3.6/23.1  | 6226  |
| 1998 BJ <sub>26</sub>  | 2000 11 23.6 | 03 58.23 +22 14.1 18.9 | -1.11 - 2.4 | 0.7/23.9 | 5441  | (11008)                | 2000 11 24.1 | 04 00.24 +05 14.3 16.4 | -0.89 - 7.5 | 6.2/20.9  | 4878  |
| 2000 UE <sub>19</sub>  | 2000 11 23.6 | 03 58.34 -00 36.3 17.0 | -0.92 + 0.3 | 9.0/20.6 | 6116  | 1998 DQ <sub>7</sub>   | 2000 11 24.1 | 04 00.26 +23 03.2 16.4 | -0.98 - 7.7 | 1.2/24.6  | 5445  |
| (15713)                | 2000 11 23.6 | 03 58.34 +17 34.4 17.4 | -0.89 - 2.0 | 1.0/23.2 | 1682  | 1999 RM <sub>95</sub>  | 2000 11 24.1 | 04 00.38 +41 29.3 18.0 | -1.10 + 0.6 | 6.0/27.0  | 40363 |
| 1999 MO                | 2000 11 23.6 | 03 58.35 +23 00.7 19.4 | -1.09 - 2.6 | 0.9/24.1 | 6239  | (17472)                | 2000 11 24.1 | 04 00.39 +05 54.9 16.6 | -1.03 - 1.8 | 6.2/22.0  | 4061  |
| 1999 JU <sub>88</sub>  | 2000 11 23.6 | 03 58.40 +07 40.1 17.7 | -1.11 + 0.6 | 6.1/22.2 | 6235  | 1981 EA <sub>18</sub>  | 2000 11 24.1 | 04 00.46 +04 19.5 18.3 | -0.81 - 3.4 | 5.2/21.3  | 36501 |
| 1999 RK <sub>196</sub> | 2000 11 23.7 | 03 58.39 +29 48.1 18.5 | -0.99 - 3.3 | 2.7/25.3 | 6252  | 1999 RW <sub>112</sub> | 2000 11 24.1 | 04 00.47 +28 50.8 17.1 | -0.93 - 5.7 | 2.9/25.8  | 6245  |
| 1999 LH <sub>6</sub>   | 2000 11 23.7 | 03 58.49 +24 23.2 16.4 | -1.08 - 4.8 | 1.5/24.4 | 6238  | (11581)                | 2000 11 24.1 | 04 00.54 +05 32.9 18.3 | -0.83 - 2.6 | 4.8/21.7  | 4878  |
| 2000 VJ <sub>3</sub>   | 2000 11 23.7 | 03 58.55 +22 51.5 17.0 | -1.09 - 5.2 | 1.0/24.1 | 6133  | 1998 DG <sub>6</sub>   | 2000 11 24.2 | 04 00.56 +38 19.5 19.0 | -1.23 - 1.9 | 6.1/27.1  | 31990 |
| 1996 SG <sub>6</sub>   | 2000 11 23.7 | 03 58.57 +23 43.5 18.5 | -1.15 - 2.2 | 1.3/24.2 | 5419  | 1996 XA <sub>1</sub>   | 2000 11 24.2 | 04 00.58 +24 33.4 16.7 | -1.08 + 0.3 | 1.8/24.7  | 5423  |
| 1999 JP <sub>126</sub> | 2000 11 23.7 | 03 58.66 +09 24.8 17.7 | -1.00 - 5.3 | 5.0/21.8 | 6237  | 1992 EO                | 2000 11 24.2 | 04 00.63 +36 29.0 18.1 | -0.98 - 1.0 | 3.9/26.7  | 4884  |
| 1999 LK <sub>14</sub>  | 2000 11 23.7 | 03 58.66 +13 36.4 19.1 | -0.98 - 3.2 | 2.3/22.6 | 6239  | (17574)                | 2000 11 24.2 | 04 00.64 +04 54.3 17.7 | -0.83 - 2.8 | 5.3/21.6  | 4089  |
| 1991 EH <sub>1</sub>   | 2000 11 23.7 | 03 58.71 +12 40.6 17.9 | -0.84 - 1.5 | 2.5/22.5 | 5392  | (18352)                | 2000 11 24.2 | 04 00.72 +10 04.8 18.0 | -0.91 - 2.6 | 3.8/22.5  | 5168  |
| 1998 HF <sub>22</sub>  | 2000 11 23.7 | 03 58.88 +21 06.1 18.4 | -1.04 - 2.7 | 0.2/23.9 | 6212  | (18475)                | 2000 11 24.2 | 04 00.73 +16 02.9 17.4 | -0.96 + 1.1 | 1.7/23.7  | 5203  |
| 1998 DA <sub>5</sub>   | 2000 11 23.8 | 03 58.90 +13 27.0 18.7 | -1.08 - 2.6 | 2.8/22.7 | 6203  | 1999 RE <sub>16</sub>  | 2000 11 24.2 | 04 00.75 +28 15.2 17.5 | -0.90 - 2.5 | 2.2/25.5  | 6243  |
| 2000 TC                | 2000 11 23.8 | 03 58.90 +10 50.7 16.3 | -0.87 - 8.7 | 4.2/21.7 | 6090  | 1999 RS <sub>144</sub> | 2000 11 24.2 | 04 00.89 +26 58.2 17.9 | -0.91 - 4.6 | 2.0/25.5  | 6248  |
| (18524)                | 2000 11 23.8 | 03 58.96 +22 45.5 15.8 | -1.02 - 5.8 | 0.9/24.2 | 5217  | 1998 FG                | 2000 11 24.2 | 04 00.89 +22 05.0 18.3 | -1.04 - 6.7 | 0.6/24.6  | 6205  |
| 1998 AN <sub>10</sub>  | 2000 11 23.8 | 03 58.99 +19 37.4 17.2 | -1.08 - 5.2 | 0.4/23.7 | 6201  | 1998 HF <sub>79</sub>  | 2000 11 24.2 | 04 00.91 +25 45.0 17.1 | -1.05 - 3.9 | 2.2/25.1  | 6213  |
| 6514 P-L               | 2000 11 23.8 | 03 59.03 +41 03.6 18.0 | -1.28 + 0.1 | 7.8/27.0 | 6438  | (18850)                | 2000 11 24.2 | 04 00.99 +22 10.5 17.0 | -0.88 - 2.7 | 0.5/24.6  | 5314  |
| (11013)                | 2000 11 23.8 | 03 59.04 +14 00.2 17.2 | -1.10 - 2.8 | 2.7/22.9 | 35214 | 2000 RP <sub>60</sub>  | 2000 11 24.3 | 04 00.96 +33 17.4 18.8 | -1.04 - 8.4 | 4.9/27.1  | 6329  |
| 1999 JA <sub>113</sub> | 2000 11 23.8 | 03 59.10 +30 07.9 17.3 | -1.15 - 3.3 | 4.1/25.5 | 5573  | (10868)                | 2000 11 24.3 | 04 01.02 +10 20.9 17.3 | -1.09 - 0.9 | 4.1/23.0  | 34788 |
| 1998 FR <sub>70</sub>  | 2000 11 23.8 | 03 59.15 +28 35.1 18.1 | -1.21 0.0   | 3.5/24.9 | 6209  | (18506)                | 2000 11 24.3 | 04 01.11 +44 06.7 18.2 | -1.73 + 3.9 | 9.3/27.0  | 5212  |
| 1999 JN <sub>39</sub>  | 2000 11 23.8 | 03 59.21 +23 24.6 18.7 | -1.14 - 2.4 | 1.1/24.3 | 5543  | 1996 AB <sub>7</sub>   | 2000 11 24.3 | 04 01.16 +34 53.8 18.2 | -0.96 - 3.3 | 4.5/27.0  | 36342 |
| 1992 DM <sub>7</sub>   | 2000 11 23.8 | 03 59.21 +16 12.4 17.5 | -0.89 - 2.3 | 1.4/23.2 | 6185  | 1997 EW <sub>55</sub>  | 2000 11 24.3 | 04 01.17 +22 08.9 19.2 | -0.84 - 2.3 | 0.4/24.6  | 3162  |
| 1981 ET <sub>33</sub>  | 2000 11 23.8 | 03 59.22 +24 06.6 19.3 | -0.87 - 2.9 | 1.0/24.5 | 35909 | 1991 FC <sub>4</sub>   | 2000 11 24.3 | 04 01.18 +21 21.0 17.6 | -1.11 - 4.2 | 0.3/24.5  | 6183  |
| (11940)                | 2000 11 23.8 | 03 59.24 +22 59.2 17.6 | -0.96 - 1.6 | 0.8/24.3 | 6177  | 1999 RL <sub>2</sub>   | 2000 11 24.3 | 04 01.35 +36 42.7 18.9 | -1.08 - 4.7 | 4.9/27.4  | 1447  |
| (11513)                | 2000 11 23.9 | 03 59.35 +17 15.5 17.1 | -0.82 - 3.6 | 1.0/23.3 | 35836 | 1989 AZ <sub>6</sub>   | 2000 11 24.3 | 04 01.37 +12 48.4 18.1 | -0.98 - 2.3 | 3.1/23.2  | 6181  |
| 2000 UB <sub>50</sub>  | 2000 11 23.9 | 03 59.35 +24 09.9 18.7 | -1.06 + 2.3 | 1.8/24.3 | 6125  | 1990 UQ <sub>4</sub>   | 2000 11 24.3 | 04 01.42 +13 43.4 17.5 | -1.06 - 1.2 | 3.6/23.5  | 6183  |
| (11669)                | 2000 11 23.9 | 03 59.38 +20 06.3 17.5 | -1.06 - 2.3 | 0.2/23.9 | 4878  | 1996 WS <sub>1</sub>   | 2000 11 24.4 | 04 01.49 +23 13.5 16.8 | -1.02 - 4.6 | 1.0/24.9  | 6195  |
| (11461)                | 2000 11 23.9 | 03 59.42 +30 46.2 17.1 | -1.23 - 2.7 | 4.2/25.5 | 35822 | 1996 WZ <sub>2</sub>   | 2000 11 24.4 | 04 01.67 +17 42.6 15.9 | -1.13 + 3.2 | 1.3/24.2  | 5423  |
| 2000 UG <sub>1</sub>   | 2000 11 23.9 | 03 59.46 +17 50.4 16.1 | -0.89 - 8.8 | 1.0/23.3 | 6106  | (11870)                | 2000 11 24.4 | 04 01.72 +08 30.6 16.9 | -0.84 - 3.5 | 4.5/22.3  | 3859  |
| 1998 GA <sub>9</sub>   | 2000 11 23.9 | 03 59.58 +02 09.8 19.1 | -0.98 + 0.9 | 6.4/21.7 | 6211  | (11518)                | 2000 11 24.5 | 04 01.93 +21 26.6 17.9 | -0.84 - 2.2 | 0.2/24.7  | 35837 |
| 1997 YY <sub>2</sub>   | 2000 11 23.9 | 03 59.60 +19 10.9 16.2 | -1.13 - 2.7 | 0.7/23.8 | 6200  | 1981 EM <sub>39</sub>  | 2000 11 24.5 | 04 01.96 +28 44.8 19.2 | -1.21 - 2.1 | 3.1/25.7  | 6180  |
| 1996 RU                | 2000 11 23.9 | 03 59.62 +22 42.2 18.6 | -1.11 - 3.5 | 1.0/24.3 | 5418  | 2000 SF <sub>227</sub> | 2000 11 24.5 | 04 02.03 +03 18.2 17.2 | -0.83 - 2.9 | 6.3/21.6  | 6047  |
| 1978 VZ <sub>6</sub>   | 2000 11 23.9 | 03 59.69 +20 35.0 18.3 | -0.86 - 3.0 | 0.0/24.0 | 6178  | 1981 EW <sub>28</sub>  | 2000 11 24.5 | 04 02.15 +24 35.1 18.6 | -1.14 - 4.2 | 1.6/25.2  | 26920 |
| (18486)                | 2000 11 23.9 | 03 59.70 +21 52.1 17.1 | -0.90 - 1.7 | 0.5/24.2 | 5206  | (12857)                | 2000 11 24.5 | 04 02.24 +23 15.3 17.3 | -0.95 - 2.2 | 0.9/25.0  | 6178  |
| 1998 FZ <sub>14</sub>  | 2000 11 24.0 | 03 59.66 +24 13.2 19.2 | -0.93 - 3.9 | 1.1/24.7 | 36528 | 1996 VM <sub>14</sub>  | 2000 11 24.5 | 04 02.30 +21 15.9 18.6 | -1.06 - 2.5 | 0.2/24.7  | 1911  |
| (11498)                | 2000 11 24.0 | 03 59.66 +17 22.5 18.4 | -0.92 - 2.9 | 1.0/23.5 | 35832 | 1989 EJ <sub>1</sub>   | 2000 11 24.6 | 04 02.33 +13 47.2 17.5 | -1.13 - 3.6 | 2.8/23.6  | 6182  |
| 1999 NP <sub>53</sub>  | 2000 11 24.0 | 03 59.70 +12 09.8 20.0 | -0.91 - 6.5 | 2.7/22.4 | 2065  | 1998 KK <sub>54</sub>  | 2000 11 24.6 | 04 02.38 +02 30.1 18.1 | -0.92 + 0.7 | 6.3/22.3  | 6215  |
| 1998 FN <sub>10</sub>  | 2000 11 24.0 | 03 59.83 +23 22.5 20.0 | -1.11 - 3.5 | 1.1/24.5 | 35706 | 1998 KA <sub>36</sub>  | 2000 11 24.6 | 04 02.63 +21 15.9 16.8 | -1.00 - 8.0 | 0.2/24.8  | 6215  |
| 1999 RY <sub>167</sub> | 2000 11 24.0 | 03 59.84 +05 03.5 18.9 | -0.77 - 2.4 | 4.3/21.4 | 40368 | 1998 EZ <sub>5</sub>   | 2000 11 24.6 | 04 02.68 +16 24.6 16.8 | -1.01 - 0.9 | 2.2/24.1  | 6205  |

|                        |              |                   |      |       |       |          |       |                        |              |                   |      |       |       |           |       |
|------------------------|--------------|-------------------|------|-------|-------|----------|-------|------------------------|--------------|-------------------|------|-------|-------|-----------|-------|
| 1999 TJ <sub>106</sub> | 2000 11 24.7 | 04 02.63 +02 25.0 | 19.1 | -0.77 | - 5.5 | 5.4/21.1 | 6255  | 1992 DT <sub>2</sub>   | 2000 11 25.5 | 04 06.13 +16 29.8 | 19.7 | -0.89 | - 2.2 | 1.4/24.9  | 6185  |
| 1107 T-1               | 2000 11 24.7 | 04 02.70 +19 08.9 | 19.1 | -0.87 | - 3.0 | 0.5/24.5 | 1386  | 1998 HJ <sub>118</sub> | 2000 11 25.5 | 04 06.33 -00 30.9 | 18.5 | -0.88 | - 2.8 | 7.0/22.0  | 36534 |
| 1998 FR <sub>77</sub>  | 2000 11 24.7 | 04 02.73 +17 21.2 | 16.9 | -1.06 | - 0.3 | 1.6/24.3 | 5466  | 1999 FR <sub>28</sub>  | 2000 11 25.6 | 04 06.47 +38 45.0 | 17.1 | -1.48 | - 0.1 | 7.2/28.1  | 5522  |
| 1999 TC <sub>89</sub>  | 2000 11 24.7 | 04 02.81 +28 50.2 | 18.7 | -1.03 | - 1.0 | 2.4/25.9 | 6255  | 1999 NV <sub>10</sub>  | 2000 11 25.6 | 04 06.53 +31 31.8 | 18.3 | -0.95 | - 3.7 | 3.5/27.5  | 36090 |
| 1999 RS <sub>100</sub> | 2000 11 24.7 | 04 02.85 +19 07.7 | 17.7 | -0.87 | - 5.0 | 0.5/24.5 | 6245  | 4058 T-1               | 2000 11 25.6 | 04 06.55 +09 39.3 | 18.1 | -1.06 | - 3.6 | 4.6/23.9  | 6439  |
| 1999 RF <sub>147</sub> | 2000 11 24.8 | 04 03.08 +26 54.8 | 19.0 | -0.97 | - 4.5 | 2.0/25.9 | 6249  | (11689)                | 2000 11 25.6 | 04 06.61 -01 30.0 | 17.7 | -0.91 | - 3.8 | 8.0/21.7  | 35881 |
| 5124 T-2               | 2000 11 24.8 | 04 03.11 +18 49.4 | 18.0 | -0.94 | - 6.3 | 0.6/24.4 | 6440  | (17408)                | 2000 11 25.6 | 04 06.75 +00 46.1 | 15.4 | -1.13 | -29.6 | 10.2/18.7 | 4043  |
| 1981 EN <sub>31</sub>  | 2000 11 24.8 | 04 03.14 +13 15.0 | 18.4 | -1.07 | - 3.1 | 3.2/23.7 | 6180  | 6705 P-L               | 2000 11 25.7 | 04 06.97 +30 31.0 | 17.7 | -1.21 | + 1.5 | 4.7/26.7  | 6439  |
| 1981 EV <sub>6</sub>   | 2000 11 24.8 | 04 03.23 +28 02.6 | 17.7 | -0.92 | - 4.5 | 2.4/26.2 | 6179  | 1999 RR <sub>158</sub> | 2000 11 25.7 | 04 07.03 +40 45.4 | 19.1 | -1.04 | - 1.7 | 5.3/29.1  | 6250  |
| (18845)                | 2000 11 24.8 | 04 03.37 +39 00.8 | 17.0 | -1.19 | - 1.3 | 6.0/27.6 | 5312  | 1996 TZ <sub>3</sub>   | 2000 11 25.7 | 04 07.07 +21 02.9 | 19.4 | -1.14 | - 1.6 | 0.1/25.8  | 35429 |
| 1999 JO <sub>1</sub>   | 2000 11 24.8 | 04 03.51 +19 51.5 | 19.2 | -1.15 | - 2.3 | 0.3/24.8 | 35649 | (11728)                | 2000 11 25.7 | 04 07.09 +17 50.8 | 18.1 | -0.92 | - 1.7 | 1.0/25.3  | 6177  |
| 1995 YW <sub>4</sub>   | 2000 11 24.9 | 04 03.48 +18 33.6 | 18.2 | -0.91 | - 3.0 | 0.8/24.6 | 35428 | 1999 RB <sub>52</sub>  | 2000 11 25.7 | 04 07.25 +16 56.3 | 16.8 | -0.88 | - 1.6 | 1.5/25.2  | 6244  |
| 1999 JQ <sub>59</sub>  | 2000 11 24.9 | 04 03.64 +13 26.1 | 18.3 | -1.11 | - 1.4 | 2.8/24.0 | 5555  | 1999 RW <sub>52</sub>  | 2000 11 25.7 | 04 07.32 +21 38.0 | 18.3 | -0.89 | - 2.0 | 0.2/25.9  | 6244  |
| 1994 JJ <sub>5</sub>   | 2000 11 24.9 | 04 03.68 +24 08.1 | 17.4 | -1.06 | - 0.4 | 1.3/25.4 | 6189  | (18358)                | 2000 11 25.8 | 04 07.34 +26 54.7 | 16.7 | -1.16 | - 6.1 | 3.0/27.0  | 5170  |
| 1999 RO <sub>44</sub>  | 2000 11 24.9 | 04 03.74 -12 04.7 | 19.8 | -0.88 | - 3.5 | 8.6/19.3 | 2651  | (18206)                | 2000 11 25.8 | 04 07.35 +35 54.0 | 18.4 | -1.02 | - 4.1 | 4.6/28.5  | 4275  |
| 1999 NM <sub>11</sub>  | 2000 11 24.9 | 04 03.83 +31 45.9 | 19.1 | -1.05 | - 3.4 | 3.4/26.8 | 1446  | 1997 AQ <sub>11</sub>  | 2000 11 25.8 | 04 07.38 +24 39.1 | 19.0 | -0.97 | - 3.8 | 1.3/26.4  | 5426  |
| 2000 TR                | 2000 11 24.9 | 04 03.92 +23 18.4 | 15.3 | -1.00 | + 1.3 | 0.9/25.3 | 6090  | (18340)                | 2000 11 25.8 | 04 07.40 +37 40.5 | 17.9 | -1.20 | + 0.6 | 5.3/28.1  | 5165  |
| 1998 BA <sub>38</sub>  | 2000 11 24.9 | 04 03.96 +09 14.9 | 18.3 | -1.08 | - 1.3 | 4.5/23.5 | 5442  | (18344)                | 2000 11 25.8 | 04 07.51 +31 05.3 | 16.9 | -1.24 | - 1.0 | 4.6/27.2  | 5166  |
| 1998 FE <sub>53</sub>  | 2000 11 25.0 | 04 04.05 +26 01.1 | 19.9 | -1.07 | - 2.6 | 1.9/25.8 | 5461  | 1999 JK <sub>55</sub>  | 2000 11 25.8 | 04 07.55 +13 30.1 | 18.1 | -1.08 | - 1.4 | 3.1/24.9  | 6232  |
| 1999 JL <sub>40</sub>  | 2000 11 25.0 | 04 04.08 +17 22.1 | 17.8 | -1.09 | - 2.4 | 1.4/24.6 | 5543  | (10723)                | 2000 11 25.8 | 04 07.55 +30 17.4 | 16.6 | -1.16 | - 4.6 | 4.4/27.4  | 4878  |
| 1998 KC <sub>50</sub>  | 2000 11 25.0 | 04 04.24 +08 12.6 | 17.3 | -0.87 | + 1.0 | 3.6/23.6 | 6215  | (11684)                | 2000 11 25.8 | 04 07.64 +08 31.5 | 18.0 | -0.91 | - 2.6 | 3.9/24.0  | 35880 |
| 1998 DD <sub>14</sub>  | 2000 11 25.0 | 04 04.25 +08 28.9 | 17.6 | -0.82 | - 4.3 | 3.9/22.9 | 6203  | 1989 TE <sub>3</sub>   | 2000 11 25.8 | 04 07.73 +15 16.3 | 18.4 | -0.88 | - 2.1 | 2.1/25.0  | 5388  |
| 1999 GQ <sub>15</sub>  | 2000 11 25.0 | 04 04.26 +19 11.7 | 17.4 | -1.11 | - 3.6 | 0.6/24.8 | 34961 | 1996 RL                | 2000 11 25.8 | 04 07.75 +17 12.4 | 18.6 | -1.10 | - 4.3 | 1.5/25.3  | 6193  |
| 1999 RH <sub>149</sub> | 2000 11 25.0 | 04 04.37 +05 38.1 | 18.7 | -0.82 | - 2.4 | 4.7/22.7 | 2654  | 1999 TG <sub>219</sub> | 2000 11 25.8 | 04 07.84 +42 52.5 | 18.1 | -1.36 | - 6.9 | 7.5/30.2  | 5639  |
| (18357)                | 2000 11 25.1 | 04 04.33 +25 11.3 | 16.9 | -1.28 | - 1.5 | 1.9/25.7 | 5170  | 1999 RM <sub>102</sub> | 2000 11 25.9 | 04 07.90 +16 46.6 | 19.1 | -1.00 | - 4.6 | 1.3/25.2  | 40363 |
| 2000 SH <sub>295</sub> | 2000 11 25.1 | 04 04.35 +38 30.7 | 17.4 | -1.25 | + 2.1 | 7.4/27.0 | 6404  | 1998 HE <sub>12</sub>  | 2000 11 25.9 | 04 07.98 +31 34.0 | 18.0 | -1.15 | - 0.3 | 3.9/27.3  | 5474  |
| 1998 FM <sub>117</sub> | 2000 11 25.1 | 04 04.37 +38 23.6 | 19.4 | -1.14 | - 1.1 | 5.2/27.7 | 36364 | 1988 CY <sub>3</sub>   | 2000 11 25.9 | 04 08.03 +15 59.8 | 16.9 | -0.90 | - 6.6 | 2.0/25.0  | 6181  |
| 1997 EZ <sub>3</sub>   | 2000 11 25.1 | 04 04.41 +26 09.0 | 19.3 | -0.87 | - 1.9 | 1.5/26.0 | 38041 | (18812)                | 2000 11 25.9 | 04 08.06 +19 56.3 | 17.1 | -1.07 | - 5.7 | 0.4/25.8  | 5302  |
| (11879)                | 2000 11 25.1 | 04 04.41 +19 09.1 | 17.5 | -0.95 | - 2.4 | 0.6/24.9 | 36240 | 1998 GW                | 2000 11 25.9 | 04 08.08 +08 05.7 | 17.4 | -0.98 | - 0.6 | 5.4/24.3  | 6211  |
| 1174 T-2               | 2000 11 25.1 | 04 04.49 +31 45.9 | 18.6 | -0.99 | - 1.2 | 3.4/26.8 | 2803  | 1993 RJ <sub>3</sub>   | 2000 11 25.9 | 04 08.21 +20 41.4 | 16.9 | -1.07 | - 7.8 | 0.1/25.9  | 6188  |
| 1992 PR <sub>1</sub>   | 2000 11 25.1 | 04 04.56 +01 05.0 | 17.9 | -1.01 | - 0.6 | 8.4/22.7 | 6185  | (17770)                | 2000 11 25.9 | 04 08.22 +05 44.6 | 15.6 | -0.98 | + 0.7 | 7.2/24.4  | 4146  |
| 1998 FY <sub>122</sub> | 2000 11 25.1 | 04 04.69 +02 17.1 | 19.5 | -0.84 | - 4.1 | 5.3/21.9 | 36531 | 1999 NG <sub>11</sub>  | 2000 11 25.9 | 04 08.23 +21 19.2 | 18.0 | -0.94 | - 1.5 | 0.1/26.1  | 6240  |
| 1999 RX <sub>119</sub> | 2000 11 25.1 | 04 04.81 -00 48.4 | 19.3 | -0.83 | - 1.6 | 6.4/22.0 | 2085  | 1995 SC <sub>17</sub>  | 2000 11 25.9 | 04 08.24 +14 45.9 | 18.8 | -0.95 | - 2.9 | 2.0/25.1  | 6191  |
| (18522)                | 2000 11 25.2 | 04 04.95 +10 27.3 | 16.5 | -1.11 | + 5.2 | 4.6/24.6 | 5216  | 1005 T-2               | 2000 11 26.0 | 04 08.15 +18 55.4 | 17.4 | -0.88 | - 3.0 | 0.7/25.7  | 36943 |
| 1981 EJ <sub>12</sub>  | 2000 11 25.2 | 04 05.08 +23 36.9 | 19.7 | -0.87 | - 3.1 | 0.8/25.7 | 26917 | 1999 ND <sub>56</sub>  | 2000 11 26.0 | 04 08.19 +13 43.7 | 18.3 | -0.83 | - 5.4 | 2.1/24.7  | 6241  |
| 1999 RN <sub>226</sub> | 2000 11 25.3 | 04 05.19 +18 12.8 | 17.8 | -0.91 | - 4.8 | 1.0/24.8 | 5621  | (11796)                | 2000 11 26.0 | 04 08.20 +14 08.0 | 18.1 | -1.03 | - 3.3 | 2.3/25.0  | 6177  |
| 1999 RR <sub>123</sub> | 2000 11 25.3 | 04 05.27 +17 09.7 | 17.3 | -0.82 | - 4.9 | 1.1/24.6 | 5604  | 1998 DT <sub>22</sub>  | 2000 11 26.0 | 04 08.21 +30 50.5 | 19.8 | -1.17 | - 3.7 | 3.8/27.6  | 32971 |
| 1996 XD <sub>22</sub>  | 2000 11 25.3 | 04 05.29 +32 36.2 | 18.7 | -1.05 | - 3.5 | 4.0/27.3 | 6196  | 2000 TN <sub>2</sub>   | 2000 11 26.0 | 04 08.26 +19 26.0 | 15.8 | -1.03 | + 2.1 | 0.6/25.9  | 6091  |
| 1998 DV <sub>27</sub>  | 2000 11 25.3 | 04 05.36 +18 47.7 | 16.9 | -1.03 | - 1.2 | 1.0/25.1 | 6204  | (19055)                | 2000 11 26.0 | 04 08.28 +16 50.0 | 18.4 | -0.87 | - 3.2 | 1.4/25.4  | 5373  |
| 2000 QR <sub>7</sub>   | 2000 11 25.3 | 04 05.39 +25 07.6 | 15.7 | -0.92 | - 7.7 | 2.0/26.2 | 6286  | 1998 EZ <sub>8</sub>   | 2000 11 26.0 | 04 08.42 +25 14.4 | 18.3 | -1.09 | - 0.2 | 1.4/26.6  | 6205  |
| 1999 JO <sub>23</sub>  | 2000 11 25.3 | 04 05.65 +21 42.5 | 19.6 | -1.16 | - 1.8 | 0.3/25.5 | 6229  | 1999 NX <sub>24</sub>  | 2000 11 26.1 | 04 08.60 +21 38.0 | 18.5 | -1.11 | - 2.0 | 0.2/26.2  | 6240  |
| 1998 FH <sub>123</sub> | 2000 11 25.3 | 04 05.67 +22 34.5 | 20.2 | -1.00 | - 3.0 | 0.5/25.7 | 36896 | 1997 AV <sub>7</sub>   | 2000 11 26.1 | 04 08.67 +23 45.0 | 19.8 | -0.97 | - 3.7 | 1.0/26.6  | 30786 |
| 1993 TB <sub>14</sub>  | 2000 11 25.3 | 04 05.70 +22 01.2 | 18.7 | -1.17 | - 2.0 | 0.6/25.6 | 1886  | 1999 JL <sub>61</sub>  | 2000 11 26.1 | 04 08.84 +15 21.2 | 19.3 | -1.01 | - 3.8 | 2.0/25.3  | 35737 |
| 1999 RB <sub>129</sub> | 2000 11 25.4 | 04 05.90 -12 28.4 | 18.1 | -0.78 | - 1.6 | 9.7/19.9 | 6247  | 1981 EH <sub>25</sub>  | 2000 11 26.1 | 04 08.94 +14 16.8 | 19.2 | -0.97 | - 3.3 | 2.4/25.1  | 32043 |
| 1999 RQ <sub>173</sub> | 2000 11 25.4 | 04 05.92 +19 28.6 | 18.9 | -0.89 | - 1.3 | 0.4/25.3 | 37299 | 2200 T-2               | 2000 11 26.1 | 04 08.95 +21 30.0 | 18.4 | -1.08 | - 2.8 | 0.2/26.2  | 35125 |
| 2000 RU <sub>48</sub>  | 2000 11 25.4 | 04 05.94 +26 37.9 | 16.5 | -1.05 | - 9.8 | 2.5/27.0 | 6327  | 1997 EA                | 2000 11 26.1 | 04 09.01 +04 50.3 | 18.0 | -0.89 | - 2.2 | 5.7/23.6  | 35940 |
| 2000 TS                | 2000 11 25.4 | 04 06.03 +19 12.3 | 16.3 | -0.87 | - 2.8 | 0.7/25.2 | 6090  | 1981 EH <sub>5</sub>   | 2000 11 26.1 | 04 09.05 +19 48.4 | 18.2 | -0.86 | - 5.1 | 0.4/26.0  | 6179  |
| (10995)                | 2000 11 25.4 | 04 06.05 +20 45.7 | 17.7 | -0.93 | - 2.4 | 0.0/25.5 | 35210 | 1998 ED <sub>3</sub>   | 2000 11 26.2 | 04 09.02 +13 07.2 | 17.7 | -1.05 | - 0.2 | 3.2/25.2  | 6205  |
| 1998 HG <sub>93</sub>  | 2000 11 25.4 | 04 06.08 +33 28.2 | 17.8 | -1.24 | + 1.8 | 4.8/26.8 | 5481  | 1998 EP <sub>11</sub>  | 2000 11 26.2 | 04 09.06 +38 42.5 | 18.1 | -1.27 | - 0.4 | 5.9/28.5  | 6205  |
| 1998 KE <sub>11</sub>  | 2000 11 25.5 | 04 06.02 +00 15.7 | 19.4 | -0.78 | - 1.9 | 5.8/22.3 | 35995 | 1996 XN <sub>6</sub>   | 2000 11 26.2 | 04 09.17 +20 54.3 | 16.6 | -0.93 | - 6.0 | 0.0/26.2  | 5424  |
| (17169)                | 2000 11 25.5 | 04 06.08 +21 07.4 | 17.5 | -0.92 | - 2.8 | 0.1/25.6 | 3046  | 1999 JB <sub>12</sub>  | 2000 11 26.2 | 04 09.17 +06 09.5 | 18.0 | -1.17 | -16.1 | 6.9/22.4  | 5536  |

|                        |              |                        |             |           |       |                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|------------------------|--------------|------------------------|-------------|-----------|-------|
| (10902)                | 2000 11 26.2 | 04 09.36 +12 04.5 16.6 | -1.11 + 0.2 | 3.4/25.3  | 34797 | 1998 HG <sub>97</sub>  | 2000 11 27.1 | 04 13.07 +23 06.5 18.6 | -0.91 - 0.9 | 0.6/27.4  | 6213  |
| 1999 NW <sub>31</sub>  | 2000 11 26.2 | 04 09.40 +18 12.3 18.3 | -1.01 - 2.5 | 1.0/25.9  | 6240  | 1999 NL <sub>8</sub>   | 2000 11 27.1 | 04 13.09 -10 06.8 17.3 | -0.83 + 1.3 | 11.1/23.3 | 6240  |
| 1999 JT <sub>94</sub>  | 2000 11 26.2 | 04 09.49 -00 50.9 17.9 | -0.99 - 2.0 | 8.7/23.4  | 6236  | 2187 T-2               | 2000 11 27.1 | 04 13.12 +24 59.0 18.1 | -1.11 - 2.5 | 1.7/27.7  | 6440  |
| 2000 RR <sub>38</sub>  | 2000 11 26.3 | 04 09.49 +17 21.4 15.9 | -0.99 + 0.2 | 1.9/25.9  | 6324  | (18372)                | 2000 11 27.1 | 04 13.24 +21 26.2 17.4 | -1.05 - 0.8 | 0.1/27.2  | 5174  |
| (18685)                | 2000 11 26.3 | 04 09.55 +11 43.0 18.1 | -0.95 - 6.9 | 3.3/24.5  | 5264  | (12084)                | 2000 11 27.1 | 04 13.27 +07 12.8 17.2 | -0.92 - 5.5 | 4.7/24.7  | 3860  |
| (18607)                | 2000 11 26.3 | 04 09.57 +17 18.3 16.0 | -1.11 + 1.6 | 1.8/26.0  | 5241  | 1992 ED <sub>8</sub>   | 2000 11 27.1 | 04 13.31 +23 23.1 18.4 | -0.93 - 2.3 | 0.7/27.5  | 6185  |
| (10870)                | 2000 11 26.3 | 04 09.73 +20 31.4 17.4 | -1.13 - 1.2 | 0.2/26.3  | 34788 | 1167 T-2               | 2000 11 27.2 | 04 13.43 +20 58.9 18.8 | -0.98 - 3.1 | 0.1/27.2  | 6439  |
| 1997 GK <sub>12</sub>  | 2000 11 26.3 | 04 09.92 +15 20.6 20.2 | -0.81 - 2.5 | 1.6/25.5  | 1918  | 1999 JK <sub>58</sub>  | 2000 11 27.2 | 04 13.55 +22 33.8 18.4 | -1.14 - 4.7 | 0.5/27.5  | 5554  |
| 1997 GB <sub>35</sub>  | 2000 11 26.4 | 04 09.88 +37 31.5 17.5 | -1.04 - 0.2 | 5.2/28.6  | 6198  | 1998 KM <sub>31</sub>  | 2000 11 27.2 | 04 13.70 +14 10.9 18.5 | -0.92 + 0.6 | 2.2/26.5  | 6215  |
| 2000 SZ <sub>278</sub> | 2000 11 26.4 | 04 10.07 +24 16.2 16.8 | -1.07 + 3.7 | 1.0/26.7  | 6070  | (11664)                | 2000 11 27.2 | 04 13.71 +18 01.7 17.6 | -0.84 - 1.8 | 0.9/26.8  | 35874 |
| 1999 LM <sub>25</sub>  | 2000 11 26.4 | 04 10.23 +15 17.4 18.8 | -1.10 - 2.8 | 2.2/25.7  | 35390 | 1999 NB <sub>7</sub>   | 2000 11 27.2 | 04 13.77 +37 51.0 16.4 | -1.13 - 6.0 | 6.9/30.4  | 6240  |
| 1999 JD <sub>117</sub> | 2000 11 26.4 | 04 10.25 +21 46.2 17.9 | -1.06 - 4.2 | 9.4/17.0  | 5574  | 2000 UH <sub>10</sub>  | 2000 11 27.3 | 04 13.74 +24 09.5 16.5 | -1.01 + 0.3 | 1.1/27.7  | 6113  |
| 1999 LE <sub>4</sub>   | 2000 11 26.5 | 04 10.32 +10 16.4 18.0 | -1.06 - 1.8 | 4.1/25.1  | 6238  | 1999 OC <sub>1</sub>   | 2000 11 27.3 | 04 13.80 +09 00.4 18.7 | -0.86 - 1.9 | 3.8/25.7  | 35668 |
| 1999 RR <sub>21</sub>  | 2000 11 26.5 | 04 10.39 +18 19.9 18.9 | -0.81 - 1.8 | 0.7/26.1  | 40356 | 1995 OB <sub>1</sub>   | 2000 11 27.3 | 04 13.80 +27 35.8 19.1 | -1.06 - 4.4 | 2.3/28.4  | 6191  |
| 1999 TM <sub>133</sub> | 2000 11 26.5 | 04 10.59 +22 20.5 19.5 | -0.95 - 2.7 | 0.4/26.8  | 2125  | 2000 RS <sub>60</sub>  | 2000 11 27.3 | 04 13.88 +34 48.2 17.0 | -1.12 - 7.4 | 5.4/30.0  | 6329  |
| 1992 EB <sub>27</sub>  | 2000 11 26.5 | 04 10.59 +21 10.6 18.3 | -0.92 - 2.7 | 0.0/26.6  | 6185  | 2000 UN <sub>79</sub>  | 2000 11 27.3 | 04 14.05 +21 35.0 17.5 | -1.06 - 6.2 | 0.2/27.4  | 6132  |
| 1999 TS <sub>37</sub>  | 2000 11 26.6 | 04 10.76 +26 54.7 19.2 | -0.97 - 3.2 | 1.7/27.5  | 6255  | 1292 T-1               | 2000 11 27.4 | 04 14.16 +28 32.5 18.0 | -1.11 - 3.5 | 3.9/28.6  | 2586  |
| 1999 RH <sub>112</sub> | 2000 11 26.6 | 04 10.93 +24 20.3 18.3 | -1.05 - 4.8 | 1.1/27.2  | 6245  | 1999 RC <sub>114</sub> | 2000 11 27.4 | 04 14.40 +22 31.7 18.2 | -0.88 - 4.2 | 0.4/27.7  | 5601  |
| 1997 EO <sub>47</sub>  | 2000 11 26.6 | 04 10.96 +21 03.0 17.7 | -0.88 - 2.1 | 0.0/26.6  | 6197  | (12579)                | 2000 11 27.4 | 04 14.47 +22 17.8 19.3 | -0.87 - 1.9 | 0.3/27.6  | 36763 |
| (11898)                | 2000 11 26.6 | 04 10.98 +18 18.9 17.7 | -0.84 - 2.0 | 0.8/26.2  | 36246 | (11479)                | 2000 11 27.4 | 04 14.49 +18 16.1 17.7 | -0.82 - 2.1 | 0.8/27.0  | 6177  |
| 1996 SU <sub>4</sub>   | 2000 11 26.6 | 04 11.11 +29 29.9 17.7 | -1.20 - 0.3 | 3.5/27.7  | 6194  | 1996 CM <sub>9</sub>   | 2000 11 27.4 | 04 14.50 +40 41.4 17.6 | -0.96 - 2.2 | 5.1/30.6  | 6192  |
| 1994 PU <sub>5</sub>   | 2000 11 26.6 | 04 11.15 +06 03.0 17.9 | -0.85 - 1.8 | 5.0/24.5  | 36514 | (15501)                | 2000 11 27.4 | 04 14.52 +23 38.1 18.0 | -0.96 - 2.2 | 0.8/27.8  | 909   |
| 1999 JN <sub>122</sub> | 2000 11 26.7 | 04 11.27 +28 05.6 17.8 | -1.16 - 5.3 | 2.6/27.9  | 5576  | 1999 RV <sub>167</sub> | 2000 11 27.4 | 04 14.61 +08 27.6 17.8 | -0.80 - 1.9 | 4.0/25.6  | 6251  |
| 1991 TX <sub>2</sub>   | 2000 11 26.8 | 04 11.56 +21 58.1 17.9 | -0.99 - 3.7 | 0.3/26.9  | 6184  | 1996 OF                | 2000 11 27.4 | 04 14.61 +12 16.1 18.2 | -1.11 + 1.2 | 4.3/26.6  | 6193  |
| 2164 T-3               | 2000 11 26.8 | 04 11.78 +13 34.6 17.2 | -0.88 - 6.2 | 3.2/25.4  | 6440  | 1997 EG <sub>41</sub>  | 2000 11 27.5 | 04 14.66 +33 56.7 17.2 | -1.04 - 4.1 | 5.2/29.7  | 6197  |
| 2000 UM <sub>79</sub>  | 2000 11 26.8 | 04 11.89 +22 47.7 18.4 | -1.03 - 6.8 | 0.6/27.2  | 6132  | 1999 RO <sub>15</sub>  | 2000 11 27.5 | 04 14.71 +53 54.7 18.5 | -1.33 - 0.9 | 9.5/03.0  | 639   |
| 1999 KF <sub>4</sub>   | 2000 11 26.8 | 04 11.90 +22 44.9 17.3 | -0.91 - 7.4 | 0.5/27.2  | 6238  | 5163 T-2               | 2000 11 27.5 | 04 14.74 +32 45.5 17.8 | -0.98 - 3.8 | 3.6/29.4  | 36054 |
| 1999 NE <sub>55</sub>  | 2000 11 26.8 | 04 11.97 +33 04.2 17.5 | -0.96 - 8.1 | 3.8/29.4  | 36907 | 1999 RX <sub>213</sub> | 2000 11 27.5 | 04 14.94 +04 36.3 19.0 | -0.84 - 1.5 | 5.4/25.3  | 1467  |
| 1999 NV <sub>54</sub>  | 2000 11 26.8 | 04 11.98 +09 46.1 19.0 | -0.83 - 4.0 | 3.6/25.0  | 6241  | (16071)                | 2000 11 27.5 | 04 14.97 +26 09.8 17.2 | -1.01 - 3.4 | 1.8/28.3  | 1780  |
| 1999 JZ <sub>48</sub>  | 2000 11 26.8 | 04 12.02 +21 33.5 17.7 | -1.11 - 3.1 | 10.2/17.0 | 5549  | 3042 T-2               | 2000 11 27.6 | 04 15.07 +13 30.3 18.1 | -1.10 - 2.4 | 3.5/26.6  | 6440  |
| 1999 RB <sub>246</sub> | 2000 11 26.8 | 04 12.07 +17 06.2 19.5 | -0.91 - 1.0 | 1.2/26.4  | 5623  | 1033 T-3               | 2000 11 27.6 | 04 15.10 +44 16.7 19.6 | -1.11 - 1.1 | 6.7/01.1  | 2804  |
| 1998 BL <sub>13</sub>  | 2000 11 26.8 | 04 12.07 +14 11.0 17.0 | -1.16 - 0.5 | 3.0/26.1  | 6201  | (11726)                | 2000 11 27.6 | 04 15.14 +10 01.7 18.0 | -0.81 - 1.7 | 3.1/26.1  | 35892 |
| 1999 NP <sub>4</sub>   | 2000 11 26.8 | 04 12.09 +12 00.3 19.2 | -1.03 - 0.6 | 3.3/25.8  | 35658 | 1993 UQ <sub>4</sub>   | 2000 11 27.6 | 04 15.21 +14 59.4 17.7 | -1.14 - 1.9 | 2.6/26.9  | 6188  |
| 1999 JY <sub>59</sub>  | 2000 11 26.9 | 04 12.01 +16 48.2 18.8 | -1.08 - 2.5 | 1.6/26.3  | 35461 | (11749)                | 2000 11 27.6 | 04 15.27 +22 16.5 17.2 | -0.93 - 2.5 | 0.3/27.8  | 35897 |
| (11760)                | 2000 11 26.9 | 04 12.03 +28 28.8 17.8 | -0.93 - 2.2 | 2.5/28.0  | 35900 | 1999 JU <sub>20</sub>  | 2000 11 27.6 | 04 15.39 +22 26.7 17.0 | -1.20 - 1.6 | 0.5/27.8  | 5539  |
| 1999 RV <sub>111</sub> | 2000 11 26.9 | 04 12.03 -01 32.4 18.5 | -0.79 - 4.2 | 7.4/23.0  | 5601  | (18587)                | 2000 11 27.6 | 04 15.45 +16 33.9 17.3 | -1.14 - 1.3 | 2.0/27.1  | 5235  |
| (11814)                | 2000 11 26.9 | 04 12.09 +03 33.3 18.1 | -0.80 - 3.2 | 5.5/24.1  | 36223 | 1999 RF <sub>118</sub> | 2000 11 27.6 | 04 15.45 +00 56.4 18.6 | -0.88 - 2.0 | 6.5/24.8  | 6246  |
| 1997 CB <sub>5</sub>   | 2000 11 26.9 | 04 12.16 +20 22.2 17.7 | -0.99 - 0.2 | 10.9/17.0 | 29927 | (11449)                | 2000 11 27.7 | 04 15.44 +22 42.5 17.2 | -0.93 - 2.5 | 0.5/27.9  | 35819 |
| (10683)                | 2000 11 26.9 | 04 12.34 +16 30.0 17.8 | -1.18 - 1.4 | 1.8/26.4  | 34740 | 2130 T-2               | 2000 11 27.7 | 04 15.50 +33 01.5 18.3 | -1.14 - 0.6 | 4.2/29.2  | 6439  |
| 1998 DE <sub>14</sub>  | 2000 11 26.9 | 04 12.42 +33 21.4 17.7 | -1.06 + 0.1 | 3.9/28.6  | 5446  | 1999 RC <sub>47</sub>  | 2000 11 27.7 | 04 15.54 +37 58.7 19.7 | -1.15 - 2.4 | 5.3/30.3  | 6244  |
| 1998 HC <sub>150</sub> | 2000 11 27.0 | 04 12.57 +33 32.4 16.1 | -1.29 + 5.4 | 5.6/27.8  | 5486  | 1997 FQ <sub>2</sub>   | 2000 11 27.7 | 04 15.57 +05 33.5 19.5 | -0.78 - 3.7 | 4.6/25.1  | 1002  |
| (18609)                | 2000 11 27.0 | 04 12.65 +10 47.6 15.9 | -1.07 - 0.9 | 4.9/25.8  | 5241  | 1999 NC <sub>3</sub>   | 2000 11 27.7 | 04 15.67 +12 56.3 18.1 | -0.95 - 2.7 | 2.9/26.6  | 6239  |
| 1998 HL <sub>36</sub>  | 2000 11 27.0 | 04 12.67 +32 09.8 15.9 | -1.23 + 6.3 | 6.1/27.5  | 5477  | 1999 RL <sub>125</sub> | 2000 11 27.7 | 04 15.74 +44 24.3 18.2 | -1.10 - 2.3 | 6.9/01.6  | 1456  |
| 1999 RZ <sub>125</sub> | 2000 11 27.0 | 04 12.68 +43 35.7 18.4 | -1.28 - 3.0 | 7.6/30.6  | 6246  | 1998 HK <sub>34</sub>  | 2000 11 27.7 | 04 15.75 +21 36.7 18.5 | -1.11 - 1.6 | 0.1/27.8  | 36532 |
| 1990 TW <sub>10</sub>  | 2000 11 27.0 | 04 12.69 +31 27.0 18.6 | -1.21 - 1.8 | 5.2/28.5  | 970   | 1981 EK <sub>20</sub>  | 2000 11 27.7 | 04 15.75 +37 03.8 19.0 | -1.16 - 1.3 | 5.0/29.9  | 36501 |
| 1999 RC <sub>242</sub> | 2000 11 27.0 | 04 12.76 +20 49.1 18.2 | -0.87 - 4.7 | 0.1/27.0  | 3920  | 1999 RY                | 2000 11 27.7 | 04 15.79 +16 13.0 19.7 | -0.96 - 3.0 | 1.6/27.0  | 5589  |
| 1981 EF <sub>27</sub>  | 2000 11 27.0 | 04 12.80 +15 57.8 19.0 | -0.96 - 3.1 | 1.7/26.3  | 32043 | 1998 HB <sub>97</sub>  | 2000 11 27.7 | 04 15.89 +16 45.5 17.3 | -0.93 - 2.9 | 1.6/27.1  | 6213  |
| 1978 VT <sub>4</sub>   | 2000 11 27.0 | 04 12.90 +22 21.7 17.7 | -0.90 - 1.8 | 0.4/27.3  | 6178  | 1998 FM <sub>115</sub> | 2000 11 27.8 | 04 15.88 +33 16.8 19.2 | -1.25 - 1.2 | 5.2/29.2  | 5468  |
| (18730)                | 2000 11 27.1 | 04 12.84 +16 48.4 18.5 | -0.88 - 2.2 | 1.4/26.5  | 5277  | 1999 JP <sub>22</sub>  | 2000 11 27.8 | 04 15.90 +23 21.6 18.5 | -1.18 - 3.8 | 0.8/28.1  | 6229  |
| 1989 TH <sub>3</sub>   | 2000 11 27.1 | 04 12.92 +15 46.7 19.8 | -1.13 - 1.9 | 2.3/26.4  | 25328 | 1998 HH <sub>33</sub>  | 2000 11 27.8 | 04 15.99 +29 29.1 17.0 | -1.14 - 1.1 | 3.9/28.8  | 6212  |
| 1994 LH                | 2000 11 27.1 | 04 12.96 +05 18.4 19.7 | -0.90 - 1.3 | 4.8/25.0  | 36071 | 1999 RC <sub>117</sub> | 2000 11 27.8 | 04 16.02 +18 08.3 18.1 | -0.93 - 3.5 | 1.1/27.4  | 6246  |

|                        |              |                   |      |       |     |          |           |                        |                        |                   |                   |       |       |       |          |           |       |
|------------------------|--------------|-------------------|------|-------|-----|----------|-----------|------------------------|------------------------|-------------------|-------------------|-------|-------|-------|----------|-----------|-------|
| 1999 RM <sub>92</sub>  | 2000 11 27.8 | 04 16.19 +20 59.9 | 17.9 | -0.84 | -   | 2.1      | 0.1/27.8  | 6245                   | (10983)                | 2000 11 28.6      | 04 19.30 +20 29.2 | 18.2  | -1.11 | -     | 1.8      | 0.4/28.5  | 6177  |
| 1994 SV <sub>7</sub>   | 2000 11 27.8 | 04 16.35 +26 50.8 | 18.4 | -0.95 | -   | 1.0      | 1.8/28.6  | 6190                   | 1999 JR <sub>119</sub> | 2000 11 28.6      | 04 19.39 +17 37.3 | 18.1  | -1.09 | -     | 1.5      | 1.5/28.2  | 5575  |
| 1995 XA <sub>1</sub>   | 2000 11 27.9 | 04 16.49 +16 51.2 | 15.7 | -0.97 | +   | 1.8      | 1.6/27.5  | 5415                   | 1998 HO <sub>116</sub> | 2000 11 28.6      | 04 19.40 +01 57.1 | 17.4  | -0.92 | -     | 5.1      | 7.5/25.2  | 6213  |
| 1999 TV <sub>228</sub> | 2000 11 27.9 | 04 16.52 +13 30.5 | 18.3 | -0.82 | -   | 2.1      | 2.2/26.8  | 6257                   | (11672)                | 2000 11 28.6      | 04 19.42 +26 47.9 | 18.4  | -1.14 | -     | 4.2      | 1.9/29.4  | 35876 |
| 1175 T-2               | 2000 11 27.9 | 04 16.58 +20 52.4 | 18.6 | -1.08 | -   | 2.9      | 0.2/27.9  | 36123                  | (11057)                | 2000 11 28.6      | 04 19.43 +26 54.9 | 17.5  | -1.09 | -     | 8.0      | 2.0/29.7  | 35226 |
| 1998 FA <sub>51</sub>  | 2000 11 27.9 | 04 16.60 +41 39.9 | 19.3 | -1.30 | +   | 0.2      | 7.0/30.4  | 5460                   | 1998 KK <sub>8</sub>   | 2000 11 28.6      | 04 19.48 +10 55.1 | 18.2  | -0.83 | -     | 3.9      | 3.2/27.0  | 6214  |
| 1998 FQ <sub>76</sub>  | 2000 11 27.9 | 04 16.60 +22 46.1 | 16.6 | -1.09 | +   | 0.9      | 0.6/28.1  | 6209                   | 1999 VD <sub>133</sub> | 2000 11 28.6      | 04 19.52 +35 25.1 | 19.6  | -1.00 | -     | 1.0      | 3.9/30.5  | 2686  |
| 1998 FH <sub>78</sub>  | 2000 11 27.9 | 04 16.62 +01 36.9 | 19.0 | -0.90 | -   | 3.6      | 6.9/24.8  | 6209                   | 1992 YE <sub>4</sub>   | 2000 11 28.6      | 04 19.61 +13 27.9 | 16.5  | -0.94 | -     | 1.6      | 3.8/27.7  | 6186  |
| (18495)                | 2000 11 27.9 | 04 16.68 +20 35.3 | 16.9 | -1.26 | -   | 0.5      | 0.3/27.9  | 5208                   | 1999 JX <sub>123</sub> | 2000 11 28.6      | 04 19.62 +18 22.4 | 18.5  | -1.15 | -     | 1.3      | 1.2/28.3  | 5576  |
| 1998 DT <sub>33</sub>  | 2000 11 27.9 | 04 16.70 +11 10.5 | 18.7 | -1.03 | -   | 2.7      | 4.2/26.6  | 6204                   | 1999 KR <sub>6</sub>   | 2000 11 28.6      | 04 19.63 -04 57.9 | 20.4  | -0.90 | -     | 1.5      | 7.7/25.4  | 3411  |
| 1996 AV                | 2000 11 27.9 | 04 16.72 +31 37.0 | 18.0 | -0.93 | -   | 3.1      | 3.2/29.6  | 6192                   | 1999 JV <sub>64</sub>  | 2000 11 28.6      | 04 19.65 +20 00.2 | 18.8  | -1.09 | -     | 6.7      | 0.5/28.4  | 6233  |
| 1999 RE <sub>26</sub>  | 2000 11 27.9 | 04 16.87 +65 31.0 | 18.1 | -2.28 | +   | 3.0      | 13.5/02.0 | 40357                  | 1981 EN <sub>25</sub>  | 2000 11 28.7      | 04 19.81 +15 32.0 | 18.8  | -1.10 | -     | 3.3      | 2.6/27.9  | 6180  |
| 1983 YK                | 2000 11 28.0 | 04 16.73 +07 01.7 | 17.5 | -0.78 | -   | 2.1      | 4.2/25.9  | 6180                   | 1998 FU <sub>70</sub>  | 2000 11 28.7      | 04 19.88 -07 16.8 | 18.0  | -0.90 | -     | 6.5      | 10.5/23.0 | 6209  |
| (18772)                | 2000 11 28.0 | 04 16.78 +26 30.8 | 16.9 | -1.22 | -   | 2.2      | 2.5/28.7  | 5290                   | 1988 DX <sub>1</sub>   | 2000 11 28.7      | 04 19.91 +25 47.6 | 19.3  | -0.94 | -     | 3.9      | 1.3/29.4  | 5387  |
| 1999 NW <sub>50</sub>  | 2000 11 28.0 | 04 16.98 +18 33.1 | 18.8 | -1.03 | -   | 2.7      | 1.0/27.7  | 36091                  | (11184)                | 2000 11 28.7      | 04 20.14 +01 42.8 | 16.7  | -0.83 | -     | 2.4      | 7.1/26.0  | 35259 |
| (10720)                | 2000 11 28.0 | 04 16.99 +25 54.3 | 16.2 | -1.26 | -   | 1.9      | 2.1/28.6  | 34749                  | 1999 JQ <sub>71</sub>  | 2000 11 28.7      | 04 20.14 +16 08.9 | 18.0  | -1.16 | +     | 0.3      | 2.3/28.3  | 5563  |
| 1981 SG <sub>3</sub>   | 2000 11 28.0 | 04 17.03 +25 17.5 | 16.9 | -1.12 | -   | 4.9      | 1.8/28.7  | 6180                   | 1989 SF <sub>4</sub>   | 2000 11 28.7      | 04 20.21 +30 18.1 | 18.2  | -1.01 | +     | 0.3      | 2.8/29.8  | 6182  |
| 1998 MU <sub>30</sub>  | 2000 11 28.0 | 04 17.05 +18 40.0 | 17.6 | -1.04 | +   | 4.3      | 0.9/27.9  | 5491                   | 1996 CA <sub>1</sub>   | 2000 11 28.7      | 04 20.23 +47 25.2 | 19.0  | -1.22 | +     | 1.6      | 6.7/01.6  | 993   |
| (18434)                | 2000 11 28.0 | 04 17.09 -17 41.8 | 17.2 | -1.06 | +   | 0.7      | 14.5/21.6 | 5191                   | 1999 JK <sub>81</sub>  | 2000 11 28.8      | 04 20.16 +08 28.7 | 17.9  | -0.89 | -     | 2.0      | 4.0/27.1  | 6235  |
| (18762)                | 2000 11 28.0 | 04 17.15 +24 44.7 | 16.9 | -1.24 | -   | 4.0      | 1.7/28.6  | 5287                   | 1997 EK                | 2000 11 28.8      | 04 20.20 +38 03.6 | 17.2  | -1.12 | 0.0   | 5.5/30.7 | 6197      |       |
| (18319)                | 2000 11 28.0 | 04 17.21 +16 11.8 | 16.7 | -1.01 | -   | 1.3      | 2.5/27.5  | 5159                   | 1999 JT <sub>93</sub>  | 2000 11 28.8      | 04 20.27 +11 21.4 | 17.9  | -1.12 | +     | 0.6      | 4.6/27.9  | 5570  |
| 1991 TB <sub>5</sub>   | 2000 11 28.1 | 04 17.32 +38 32.2 | 18.1 | -1.24 | -   | 0.3      | 6.1/30.4  | 6184                   | 3303 T-2               | 2000 11 28.8      | 04 20.36 +23 20.1 | 19.1  | -1.13 | -     | 1.7      | 0.7/29.1  | 587   |
| 1999 JY <sub>33</sub>  | 2000 11 28.1 | 04 17.36 +23 53.2 | 16.5 | -1.17 | -   | 5.5      | 1.0/28.6  | 6230                   | 1981 EN <sub>43</sub>  | 2000 11 28.8      | 04 20.39 +36 11.0 | 19.5  | -1.06 | -     | 0.6      | 5.0/30.7  | 26923 |
| 1991 SD <sub>1</sub>   | 2000 11 28.1 | 04 17.56 +01 38.5 | 18.4 | -0.96 | -   | 0.7      | 6.6/25.7  | 6184                   | 1997 WL <sub>2</sub>   | 2000 11 28.8      | 04 20.43 +20 58.8 | 17.5  | -1.30 | -     | 1.4      | 0.2/28.8  | 5435  |
| 1993 FE <sub>13</sub>  | 2000 11 28.1 | 04 17.57 +24 24.0 | 16.1 | -1.03 | 0.0 | 1.2/28.5 | 5396      | 1997 GW <sub>30</sub>  | 2000 11 28.8           | 04 20.44 +20 58.6 | 18.5              | -0.83 | -     | 2.0   | 0.1/28.8 | 36525     |       |
| 4636 P-L               | 2000 11 28.1 | 04 17.59 +38 34.0 | 18.3 | -1.07 | +   | 0.3      | 5.4/30.2  | 6438                   | 2000 UU <sub>79</sub>  | 2000 11 28.8      | 04 20.46 +25 24.2 | 17.5  | -1.18 | +     | 0.6      | 1.9/29.3  | 6132  |
| 1999 JF <sub>11</sub>  | 2000 11 28.2 | 04 17.60 +18 33.5 | 18.9 | -1.09 | -   | 2.6      | 1.1/27.8  | 6228                   | 1998 MN <sub>4</sub>   | 2000 11 28.8      | 04 20.49 -07 56.5 | 18.9  | -0.87 | -     | 0.3      | 9.0/24.8  | 6215  |
| (11758)                | 2000 11 28.2 | 04 17.69 +24 14.6 | 17.9 | -0.88 | -   | 2.9      | 0.9/28.7  | 6177                   | 1999 JQ <sub>11</sub>  | 2000 11 28.8      | 04 20.65 +22 49.1 | 17.3  | -1.90 | +18.3 | 0.7/28.8 | 5536      |       |
| 1998 ER <sub>3</sub>   | 2000 11 28.2 | 04 17.70 +23 55.9 | 18.3 | -1.13 | -   | 1.9      | 1.0/28.6  | 6205                   | 1999 FU <sub>28</sub>  | 2000 11 28.9      | 04 20.56 +09 11.7 | 17.3  | -1.10 | -     | 3.8      | 4.9/27.3  | 6224  |
| 1999 RB <sub>128</sub> | 2000 11 28.2 | 04 17.73 +04 29.5 | 18.9 | -0.84 | -   | 1.6      | 5.3/26.0  | 6247                   | 1999 JR <sub>30</sub>  | 2000 11 28.9      | 04 20.57 +31 50.5 | 17.1  | -1.29 | -     | 0.8      | 5.1/30.2  | 5541  |
| 1999 JR <sub>123</sub> | 2000 11 28.2 | 04 17.93 +13 14.5 | 17.9 | -1.12 | -   | 1.3      | 3.1/27.3  | 6237                   | 1999 NH <sub>49</sub>  | 2000 11 28.9      | 04 20.57 +23 25.6 | 17.7  | -1.10 | -     | 4.7      | 0.8/29.2  | 5585  |
| 1997 AH <sub>2</sub>   | 2000 11 28.2 | 04 17.97 +26 01.3 | 18.4 | -1.01 | -   | 2.7      | 2.0/28.9  | 5425                   | 1981 EP <sub>37</sub>  | 2000 11 28.9      | 04 20.61 +22 46.0 | 18.0  | -1.01 | -     | 3.8      | 0.5/29.1  | 6180  |
| 1998 MZ <sub>8</sub>   | 2000 11 28.2 | 04 18.00 +09 25.0 | 18.9 | -0.81 | -   | 2.6      | 3.5/26.5  | 40327                  | 1999 LZ <sub>5</sub>   | 2000 11 28.9      | 04 20.69 -10 56.5 | 19.8  | -1.03 | -     | 4.4      | 11.1/23.5 | 35737 |
| 1994 PB <sub>38</sub>  | 2000 11 28.3 | 04 17.99 +36 08.9 | 18.1 | -1.04 | -   | 3.1      | 5.3/30.6  | 6190                   | 1992 DK <sub>6</sub>   | 2000 11 28.9      | 04 20.74 +22 23.2 | 17.6  | -0.96 | -     | 1.1      | 0.3/29.0  | 6185  |
| 1995 QB <sub>10</sub>  | 2000 11 28.3 | 04 18.31 +42 26.4 | 18.1 | -1.23 | -   | 3.8      | 7.7/01.8  | 6191                   | 1999 LA <sub>27</sub>  | 2000 11 28.9      | 04 20.74 +09 15.2 | 17.2  | -1.05 | +     | 2.4      | 4.6/28.0  | 6239  |
| 1998 FR <sub>76</sub>  | 2000 11 28.3 | 04 18.34 +13 53.9 | 18.0 | -1.03 | -   | 1.6      | 2.9/27.4  | 6209                   | 6652 P-L               | 2000 11 28.9      | 04 20.77 +19 10.5 | 19.4  | -0.83 | -     | 1.8      | 0.6/28.6  | 3840  |
| 2000 SA <sub>279</sub> | 2000 11 28.4 | 04 18.50 +20 49.8 | 17.2 | -1.18 | -   | 0.4      | 0.3/28.4  | 6070                   | 1999 LH <sub>13</sub>  | 2000 11 28.9      | 04 20.94 +10 42.7 | 18.0  | -1.07 | -     | 1.6      | 4.1/27.7  | 6239  |
| 1999 JE <sub>12</sub>  | 2000 11 28.4 | 04 18.59 -13 38.7 | 18.7 | -0.92 | -   | 4.8      | 10.7/22.5 | 36542                  | 1999 RZ <sub>217</sub> | 2000 11 28.9      | 04 21.04 +02 35.7 | 19.5  | -0.87 | -     | 2.0      | 6.1/26.5  | 6252  |
| 1999 RV <sub>17</sub>  | 2000 11 28.4 | 04 18.84 +32 14.4 | 19.3 | -0.94 | -   | 2.1      | 3.1/30.1  | 5591                   | 1999 RS <sub>154</sub> | 2000 11 29.0      | 04 20.98 +23 49.2 | 18.1  | -0.87 | -     | 2.6      | 0.7/29.3  | 5610  |
| 1999 RL <sub>50</sub>  | 2000 11 28.4 | 04 18.89 +20 05.6 | 17.3 | -0.92 | -   | 2.5      | 0.5/28.3  | 2651                   | 1999 PT <sub>1</sub>   | 2000 11 29.0      | 04 20.99 +44 58.9 | 19.0  | -1.22 | -     | 3.3      | 7.2/02.9  | 36548 |
| 2000 US <sub>79</sub>  | 2000 11 28.4 | 04 18.90 +23 20.3 | 17.7 | -0.97 | -   | 5.2      | 0.7/28.8  | 6132                   | 1992 UQ <sub>2</sub>   | 2000 11 29.0      | 04 21.00 +41 27.7 | 14.8  | -1.74 | +     | 9.5      | 9.0/29.4  | 6186  |
| (18572)                | 2000 11 28.5 | 04 18.83 +24 44.7 | 17.0 | -1.13 | -   | 3.5      | 1.6/29.0  | 5231                   | 1999 TV <sub>264</sub> | 2000 11 29.0      | 04 21.03 +38 34.4 | 18.9  | -1.01 | -     | 6.0      | 4.7/02.3  | 2137  |
| 1999 QU                | 2000 11 28.5 | 04 18.99 +03 28.4 | 18.9 | -0.80 | -   | 2.5      | 6.1/25.8  | 5588                   | 1998 FS <sub>13</sub>  | 2000 11 29.0      | 04 21.07 +23 00.5 | 17.0  | -1.19 | +     | 2.1      | 0.7/29.1  | 6206  |
| (19044)                | 2000 11 28.5 | 04 19.01 +32 58.3 | 17.3 | -1.27 | 0.0 | 6.2/29.9 | 5370      | 1999 RU <sub>156</sub> | 2000 11 29.0           | 04 21.08 +15 18.9 | 19.6              | -0.84 | -     | 2.6   | 1.8/28.1 | 3920      |       |
| 1998 FA <sub>114</sub> | 2000 11 28.5 | 04 19.06 +23 41.4 | 17.8 | -1.02 | -   | 4.0      | 0.8/28.9  | 6210                   | (18612)                | 2000 11 29.0      | 04 21.11 +24 51.9 | 18.0  | -1.09 | -     | 2.2      | 1.2/29.5  | 5242  |
| 2000 UK <sub>10</sub>  | 2000 11 28.5 | 04 19.08 +25 07.0 | 15.9 | -1.11 | +   | 4.4      | 2.1/28.8  | 6421                   | (19060)                | 2000 11 29.0      | 04 21.12 +41 50.2 | 18.8  | -1.26 | -     | 0.3      | 7.3/01.7  | 5374  |
| (11328)                | 2000 11 28.5 | 04 19.14 +28 17.8 | 17.1 | -1.03 | -   | 1.8      | 2.4/29.5  | 35572                  | 1981 EF <sub>15</sub>  | 2000 11 29.0      | 04 21.12 +34 19.5 | 19.2  | -0.98 | -     | 2.5      | 3.8/30.9  | 30779 |
| 1999 RJ <sub>142</sub> | 2000 11 28.5 | 04 19.27 +14 19.4 | 18.5 | -0.81 | -   | 1.8      | 2.0/27.6  | 40366                  | 1981 EY <sub>2</sub>   | 2000 11 29.0      | 04 21.15 +15 57.2 | 18.2  | -0.85 | -     | 4.5      | 1.8/28.1  | 6179  |
| 1997 XD <sub>5</sub>   | 2000 11 28.5 | 04 19.28 +12 38.4 | 19.0 | -1.04 | -   | 1.2      | 3.4/27.5  | 6199                   | 1988 RZ <sub>10</sub>  | 2000 11 29.0      | 04 21.20 +14 47.2 | 19.1  | -0.84 | -     | 1.9      | 2.1/28.1  | 36504 |
| 1279 T-2               | 2000 11 28.5 | 04 19.32 +18 47.2 | 17.5 | -1.08 | -   | 2.8      | 1.3/28.2  | 6439                   | (11735)                | 2000 11 29.0      | 04 21.20 +26 44.6 | 18.0  | -0.95 | -     | 1.9      | 1.7/29.8  | 35894 |
| 5578 P-L               | 2000 11 28.6 | 04 19.29 +11 34.0 | 19.2 | -0.91 | -   | 3.2      | 3.0/27.   |                        |                        |                   |                   |       |       |       |          |           |       |

2000 NOV. 11

M.P.C. 41605

|                        |              |                        |             |          |       |                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|----------|-------|------------------------|--------------|------------------------|-------------|----------|-------|
| 1999 NC <sub>55</sub>  | 2000 11 29.1 | 04 21.42 +19 41.8 17.1 | -0.85 - 5.5 | 0.6/28.8 | 6241  | 1997 WY <sub>19</sub>  | 2000 11 29.9 | 04 25.21 +17 37.7 18.3 | -1.19 + 0.8 | 1.6/29.6 | 6199  |
| 1994 PX <sub>4</sub>   | 2000 11 29.1 | 04 21.43 +43 54.8 18.5 | -1.15 - 3.0 | 7.7/02.8 | 6190  | (18846)                | 2000 11 29.9 | 04 25.30 -02 31.6 16.9 | -0.90 - 2.3 | 8.5/26.7 | 5312  |
| (10546)                | 2000 11 29.1 | 04 21.45 +14 13.0 17.1 | -1.13 - 0.5 | 2.8/28.3 | 34448 | 2000 RO <sub>67</sub>  | 2000 11 29.9 | 04 25.32 +29 55.8 16.6 | -1.12 + 4.3 | 2.7/30.5 | 6330  |
| 1997 EG <sub>26</sub>  | 2000 11 29.1 | 04 21.54 +38 58.8 17.4 | -1.13 - 4.7 | 6.8/02.0 | 6197  | 1999 LP <sub>26</sub>  | 2000 11 30.0 | 04 25.30 +14 09.7 16.9 | -1.06 - 4.9 | 3.5/28.9 | 6239  |
| 1998 KR <sub>42</sub>  | 2000 11 29.1 | 04 21.55 +04 56.0 18.5 | -0.89 - 4.5 | 5.6/26.4 | 6215  | 1999 PH <sub>1</sub>   | 2000 11 30.0 | 04 25.34 +18 50.8 17.6 | -0.86 - 1.7 | 1.0/29.7 | 6242  |
| (19031)                | 2000 11 29.1 | 04 21.61 +37 42.7 16.7 | -1.31 + 2.7 | 6.2/30.6 | 5366  | 1997 YA <sub>18</sub>  | 2000 11 30.0 | 04 25.35 +29 34.7 20.4 | -1.17 - 3.1 | 2.8/01.1 | 35615 |
| (11948)                | 2000 11 29.1 | 04 21.67 +18 52.7 18.1 | -0.82 - 2.0 | 0.7/28.8 | 6177  | 1996 XD <sub>32</sub>  | 2000 11 30.0 | 04 25.40 +19 14.4 17.3 | -1.12 + 3.4 | 0.9/29.9 | 6196  |
| 1998 FS <sub>115</sub> | 2000 11 29.1 | 04 21.77 +40 44.0 19.1 | -1.23 - 0.8 | 6.3/01.6 | 36531 | 1999 RN <sub>132</sub> | 2000 11 30.0 | 04 25.45 +42 59.0 19.1 | -1.08 - 3.2 | 5.9/03.6 | 1457  |
| 1999 NF <sub>57</sub>  | 2000 11 29.2 | 04 21.96 +19 38.9 18.9 | -0.95 - 4.8 | 0.6/28.9 | 6241  | 1998 BK <sub>19</sub>  | 2000 11 30.0 | 04 25.56 +10 48.7 18.2 | -1.08 - 1.2 | 4.5/28.8 | 6202  |
| 1997 GY <sub>26</sub>  | 2000 11 29.2 | 04 22.04 +20 12.2 19.3 | -0.85 - 1.9 | 0.4/29.1 | 36525 | 4839 P-L               | 2000 11 30.0 | 04 25.72 +18 10.2 19.5 | -1.10 - 2.5 | 1.3/29.7 | 35479 |
| 1999 JC <sub>46</sub>  | 2000 11 29.2 | 04 22.05 +12 18.1 17.9 | -1.07 - 4.1 | 3.9/28.0 | 5547  | 1999 KT                | 2000 11 30.1 | 04 25.72 +09 46.0 19.0 | -1.08 - 2.5 | 4.7/28.7 | 6237  |
| 3197 T-2               | 2000 11 29.2 | 04 22.26 +33 47.9 19.0 | -1.04 - 0.2 | 4.1/30.7 | 586   | 1996 MU                | 2000 11 30.1 | 04 25.72 +00 07.5 20.2 | -1.35 + 8.3 | 8.8/30.1 | 30785 |
| 1999 FH                | 2000 11 29.2 | 04 22.27 +03 55.2 18.0 | -0.79 - 5.4 | 5.1/26.1 | 4883  | 1999 JV <sub>77</sub>  | 2000 11 30.1 | 04 25.76 +11 55.7 17.5 | -1.13 + 2.2 | 3.8/29.4 | 6234  |
| 1999 TB <sub>109</sub> | 2000 11 29.2 | 04 22.28 +17 45.3 18.4 | -0.85 - 6.3 | 1.2/28.6 | 5634  | 1999 LU <sub>26</sub>  | 2000 11 30.1 | 04 25.79 +29 46.7 18.1 | -1.11 - 6.1 | 2.6/01.5 | 6239  |
| 1999 NV <sub>22</sub>  | 2000 11 29.2 | 04 22.34 +14 08.0 18.4 | -1.11 - 1.3 | 2.9/28.4 | 6240  | (18479)                | 2000 11 30.1 | 04 25.83 +21 08.1 16.9 | -0.89 - 4.5 | 0.2/30.0 | 5204  |
| 1997 YN                | 2000 11 29.3 | 04 22.35 +21 57.4 18.8 | -1.15 - 4.0 | 0.2/29.4 | 1016  | (18291)                | 2000 11 30.1 | 04 25.98 +28 06.1 18.8 | -1.09 - 1.8 | 2.1/30.9 | 5151  |
| 1998 HX <sub>45</sub>  | 2000 11 29.3 | 04 22.35 +24 01.8 17.8 | -1.01 - 1.5 | 0.9/29.6 | 6212  | 1999 OH                | 2000 11 30.1 | 04 26.02 +35 28.3 18.1 | -1.11 - 4.0 | 4.5/02.3 | 36547 |
| 1999 JA <sub>7</sub>   | 2000 11 29.3 | 04 22.63 +19 12.9 19.1 | -1.18 + 1.4 | 0.8/29.2 | 3909  | 1996 TM <sub>28</sub>  | 2000 11 30.1 | 04 26.06 +22 31.2 18.2 | -1.16 0.0   | 0.3/30.2 | 5420  |
| (16611)                | 2000 11 29.4 | 04 22.73 +25 31.5 17.5 | -0.99 - 2.2 | 1.4/29.9 | 2884  | 1999 JQ <sub>80</sub>  | 2000 11 30.1 | 04 26.11 +11 04.1 17.2 | -1.12 + 0.8 | 4.5/29.3 | 6235  |
| 1999 XU <sub>38</sub>  | 2000 11 29.4 | 04 22.73 +31 14.3 18.7 | -0.99 + 0.9 | 2.9/30.4 | 6263  | 1998 DM <sub>16</sub>  | 2000 11 30.1 | 04 26.18 +19 38.2 18.6 | -1.11 - 5.4 | 0.9/29.9 | 5447  |
| 1999 NT <sub>52</sub>  | 2000 11 29.4 | 04 22.98 +08 00.3 18.4 | -0.95 - 4.6 | 4.7/27.4 | 36546 | (18695)                | 2000 11 30.2 | 04 26.18 +15 22.6 17.7 | -0.95 - 1.0 | 2.4/29.5 | 5267  |
| (17559)                | 2000 11 29.4 | 04 22.99 +28 48.1 16.6 | -1.12 - 8.3 | 3.2/30.8 | 4085  | 2000 UM <sub>10</sub>  | 2000 11 30.2 | 04 26.21 +28 52.7 16.3 | -1.18 + 7.1 | 3.5/30.5 | 6421  |
| 1993 LR <sub>1</sub>   | 2000 11 29.4 | 04 23.08 +35 56.6 18.1 | -1.10 - 4.5 | 4.9/01.7 | 6187  | 1999 TK <sub>107</sub> | 2000 11 30.2 | 04 26.22 +33 43.8 18.9 | -0.98 - 3.0 | 3.5/02.0 | 1140  |
| 1999 LZ <sub>26</sub>  | 2000 11 29.4 | 04 23.17 +06 35.5 16.7 | -1.03 + 2.1 | 5.4/28.3 | 6239  | 1997 YZ <sub>12</sub>  | 2000 11 30.2 | 04 26.26 +14 59.8 19.3 | -1.11 - 0.8 | 2.5/29.5 | 35704 |
| 1993 RP <sub>6</sub>   | 2000 11 29.4 | 04 23.18 +27 21.8 17.6 | -1.22 - 2.7 | 2.5/30.2 | 34847 | (18521)                | 2000 11 30.2 | 04 26.27 +15 25.9 17.6 | -1.00 - 4.1 | 2.5/29.3 | 5216  |
| (18370)                | 2000 11 29.4 | 04 23.19 +11 15.2 17.6 | -0.96 - 3.2 | 3.5/28.1 | 5173  | 1987 SH <sub>4</sub>   | 2000 11 30.2 | 04 26.59 +39 36.9 17.3 | -1.32 + 0.6 | 6.7/02.3 | 6181  |
| 1999 NH <sub>29</sub>  | 2000 11 29.4 | 04 23.20 +20 20.5 20.1 | -1.06 - 2.6 | 0.4/29.3 | 36013 | (18864)                | 2000 11 30.2 | 04 26.62 +04 55.1 17.3 | -0.80 - 5.7 | 5.8/27.3 | 5318  |
| 1998 LL <sub>2</sub>   | 2000 11 29.5 | 04 23.19 +05 42.8 17.7 | -0.85 - 1.1 | 5.0/27.5 | 6215  | (10684)                | 2000 11 30.2 | 04 26.68 +26 57.2 16.5 | -1.24 - 2.9 | 2.5/31.0 | 34740 |
| 1999 XL                | 2000 11 29.5 | 04 23.27 +41 11.3 17.3 | -1.16 + 0.7 | 6.0/01.7 | 6262  | 4061 P-L               | 2000 11 30.3 | 04 26.76 +20 33.3 18.9 | -0.84 - 2.9 | 0.3/30.2 | 6438  |
| 2000 UX <sub>79</sub>  | 2000 11 29.5 | 04 23.34 +25 08.8 18.4 | -1.05 - 1.7 | 1.4/30.0 | 6132  | (11578)                | 2000 11 30.3 | 04 26.96 +10 46.9 17.2 | -1.00 - 3.1 | 4.5/28.9 | 35852 |
| 1999 RA <sub>220</sub> | 2000 11 29.5 | 04 23.62 +30 16.3 17.8 | -0.97 + 0.4 | 2.6/30.5 | 5621  | 1999 RN <sub>51</sub>  | 2000 11 30.3 | 04 26.97 +17 08.3 18.6 | -0.93 - 2.9 | 1.5/29.8 | 1095  |
| 1999 RM <sub>168</sub> | 2000 11 29.6 | 04 23.58 +12 20.5 19.8 | -0.82 - 2.1 | 2.5/28.4 | 40368 | 1981 DW <sub>2</sub>   | 2000 11 30.3 | 04 27.02 +23 21.0 18.5 | -1.14 - 5.3 | 0.7/30.6 | 34822 |
| 1999 RW <sub>167</sub> | 2000 11 29.6 | 04 23.61 +16 04.4 17.6 | -0.87 - 1.6 | 1.8/28.9 | 5612  | (11468)                | 2000 11 30.3 | 04 27.05 +20 54.5 17.7 | -0.91 - 2.2 | 0.3/30.3 | 6177  |
| 2000 TQ <sub>25</sub>  | 2000 11 29.6 | 04 23.79 +13 03.2 17.0 | -0.92 - 8.3 | 3.6/28.0 | 6096  | (18830)                | 2000 11 30.4 | 04 27.04 +25 08.6 17.2 | -1.18 - 3.6 | 1.5/30.9 | 5307  |
| 1999 RN <sub>73</sub>  | 2000 11 29.6 | 04 23.87 +30 09.0 19.0 | -0.95 - 3.1 | 2.7/30.9 | 5597  | 1994 LD <sub>1</sub>   | 2000 11 30.4 | 04 27.05 +42 38.9 20.1 | -1.26 - 0.9 | 6.4/03.3 | 24409 |
| 1999 JC <sub>120</sub> | 2000 11 29.6 | 04 24.01 +16 40.9 17.9 | -1.13 - 5.4 | 2.2/28.9 | 5575  | (18317)                | 2000 11 30.4 | 04 27.14 +31 13.8 17.6 | -0.99 - 2.1 | 3.4/02.0 | 5158  |
| 2000 RQ <sub>39</sub>  | 2000 11 29.6 | 04 24.05 +29 54.3 17.6 | -1.23 + 2.6 | 3.1/30.4 | 6324  | 1999 JE <sub>15</sub>  | 2000 11 30.4 | 04 27.46 +27 22.6 19.2 | -1.28 - 0.4 | 2.2/01.1 | 35452 |
| 1999 JJ                | 2000 11 29.6 | 04 24.11 +22 10.0 16.8 | -1.33 -15.6 | 0.2/29.8 | 5532  | 1991 CD                | 2000 11 30.4 | 04 27.50 +36 03.9 16.3 | -1.28 - 1.4 | 6.5/02.2 | 5391  |
| 1998 FE <sub>112</sub> | 2000 11 29.7 | 04 24.33 +14 44.5 15.9 | -0.97 - 8.3 | 2.7/28.5 | 6210  | 1999 TA <sub>6</sub>   | 2000 11 30.5 | 04 27.58 +34 55.6 19.3 | -0.93 - 1.1 | 3.9/02.2 | 5627  |
| (12135)                | 2000 11 29.8 | 04 24.42 +35 33.9 17.5 | -0.97 - 3.6 | 4.1/01.9 | 36311 | 1998 FF <sub>117</sub> | 2000 11 30.5 | 04 27.66 +11 24.3 19.6 | -0.90 - 4.5 | 3.3/29.0 | 3891  |
| 1999 RQ <sub>27</sub>  | 2000 11 29.8 | 04 24.67 +34 15.6 18.5 | -0.95 - 1.2 | 3.6/01.5 | 40357 | (18580)                | 2000 11 30.5 | 04 27.82 +28 00.8 16.7 | -1.18 - 3.7 | 3.0/01.4 | 5233  |
| 2000 TP <sub>25</sub>  | 2000 11 29.8 | 04 24.76 +25 04.2 17.3 | -1.17 + 3.1 | 1.7/30.1 | 6096  | 1996 TP <sub>30</sub>  | 2000 11 30.5 | 04 27.87 +24 46.2 18.7 | -1.15 - 1.8 | 1.2/30.9 | 6194  |
| 1999 OK <sub>3</sub>   | 2000 11 29.8 | 04 24.76 +33 53.6 18.3 | -1.10 - 3.2 | 4.0/01.6 | 36908 | 1998 EP <sub>2</sub>   | 2000 11 30.5 | 04 27.88 +25 17.2 18.6 | -1.13 - 1.9 | 1.4/31.0 | 32316 |
| 1998 FK <sub>101</sub> | 2000 11 29.8 | 04 24.94 +13 41.3 18.7 | -0.95 - 4.6 | 2.6/28.7 | 40323 | 1999 JV <sub>58</sub>  | 2000 11 30.5 | 04 27.91 +18 04.7 17.8 | -1.14 - 3.9 | 1.4/30.1 | 6232  |
| (11510)                | 2000 11 29.9 | 04 24.86 +00 28.8 17.0 | -0.85 - 3.6 | 6.9/26.6 | 4878  | (12573)                | 2000 11 30.6 | 04 27.93 +14 47.1 16.7 | -0.88 - 6.0 | 2.5/29.5 | 4878  |
| (12029)                | 2000 11 29.9 | 04 24.93 +11 24.3 18.0 | -0.92 - 0.8 | 3.2/28.7 | 36280 | 1999 RX <sub>181</sub> | 2000 11 30.6 | 04 27.95 +25 26.1 19.6 | -0.87 - 1.7 | 1.0/01.1 | 1104  |
| 2000 UM <sub>50</sub>  | 2000 11 29.9 | 04 24.97 +19 48.4 18.4 | -1.05 - 5.0 | 0.8/29.6 | 6125  | 1998 LV <sub>2</sub>   | 2000 11 30.6 | 04 28.04 +09 43.5 17.3 | -0.82 - 6.3 | 4.1/28.5 | 6215  |
| 1999 OE <sub>1</sub>   | 2000 11 29.9 | 04 25.03 +13 39.9 20.1 | -0.97 - 0.6 | 2.6/29.1 | 36092 | 1994 CN <sub>17</sub>  | 2000 11 30.6 | 04 28.14 +33 07.0 18.0 | -1.21 - 0.3 | 4.7/01.8 | 6189  |
| (11676)                | 2000 11 29.9 | 04 25.05 +24 24.8 18.2 | -1.11 - 2.8 | 1.0/30.3 | 35877 | 4789 P-L               | 2000 11 30.6 | 04 28.21 +22 58.4 20.8 | -1.23 - 2.4 | 0.5/30.8 | 35048 |
| (19041)                | 2000 11 29.9 | 04 25.13 +25 33.8 17.7 | -1.04 - 2.8 | 2.0/30.5 | 5369  | 2000 TA                | 2000 11 30.6 | 04 28.23 +25 29.7 19.0 | -0.91 - 5.2 | 1.3/01.3 | 6089  |
| 2000 RC <sub>77</sub>  | 2000 11 29.9 | 04 25.21 +21 15.6 17.1 | -0.93 + 0.7 | 0.1/29.9 | 5922  | 1998 FF <sub>43</sub>  | 2000 11 30.6 | 04 28.30 +01 03.5 17.3 | -0.92 - 4.4 | 8.8/27.7 | 6207  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| (11064)                | 2000 11 30.7 | 04 28.43 +04 25.7 14.6 | -1.73 +27.3 | 8.7/03.4  | 4878  |
| 1991 SR                | 2000 11 30.7 | 04 28.51 -02 32.0 16.9 | -0.95 + 1.6 | 9.9/28.6  | 35421 |
| 1998 FB <sub>11</sub>  | 2000 11 30.7 | 04 28.54 +12 05.0 18.6 | -0.91 - 2.1 | 3.1/29.5  | 36528 |
| 1999 RW <sub>49</sub>  | 2000 11 30.7 | 04 28.60 +18 13.6 18.3 | -0.93 - 2.3 | 1.3/30.3  | 6244  |
| 1998 FJ <sub>105</sub> | 2000 11 30.7 | 04 28.63 +16 38.7 18.9 | -0.92 - 4.0 | 1.6/30.0  | 6210  |
| (18315)                | 2000 11 30.7 | 04 28.71 +26 20.9 17.6 | -1.23 - 1.3 | 1.9/01.3  | 5158  |
| 1981 EH <sub>22</sub>  | 2000 11 30.7 | 04 28.74 +19 44.9 18.8 | -0.99 - 2.7 | 0.7/30.5  | 36062 |
| 1999 RB <sub>84</sub>  | 2000 11 30.7 | 04 28.81 +36 35.4 17.9 | -1.07 - 0.9 | 4.7/02.5  | 40361 |
| 1998 FL <sub>123</sub> | 2000 11 30.8 | 04 28.73 +23 05.8 19.6 | -1.10 - 2.9 | 0.5/31.0  | 32754 |
| 1999 RD <sub>48</sub>  | 2000 11 30.8 | 04 28.97 +18 58.5 16.7 | -0.88 - 1.7 | 1.1/30.5  | 5594  |
| (18299)                | 2000 11 30.8 | 04 29.13 +18 40.1 17.2 | -0.92 - 3.8 | 1.2/30.4  | 5153  |
| (11028)                | 2000 11 30.8 | 04 29.24 -14 16.1 17.2 | -0.95 -10.3 | 13.6/22.7 | 35219 |
| 1991 PP <sub>2</sub>   | 2000 11 30.9 | 04 29.18 +27 09.5 18.1 | -1.09 - 2.3 | 2.1/01.6  | 6184  |
| 2000 RQ <sub>37</sub>  | 2000 11 30.9 | 04 29.22 +12 58.3 16.3 | -1.22 -22.8 | 4.5/28.5  | 6323  |
| 1998 FG <sub>90</sub>  | 2000 11 30.9 | 04 29.28 +20 17.7 16.8 | -1.07 - 0.4 | 0.6/30.8  | 5467  |
| 6860 P-L               | 2000 11 30.9 | 04 29.34 +14 01.9 18.8 | -0.86 - 1.1 | 2.8/30.0  | 4863  |
| 2000 SH <sub>186</sub> | 2000 11 30.9 | 04 29.59 +12 33.9 16.8 | -0.95 - 8.7 | 3.9/29.3  | 6029  |
| 1981 EV <sub>10</sub>  | 2000 11 30.9 | 04 29.61 +20 00.6 18.5 | -1.09 - 5.4 | 0.8/30.7  | 22270 |
| (12503)                | 2000 11 30.9 | 04 29.62 +11 49.5 18.3 | -0.90 - 3.4 | 3.1/29.6  | 36741 |
| 1999 RD <sub>47</sub>  | 2000 12 01.0 | 04 29.60 -11 09.1 18.0 | -0.97 + 2.0 | 11.8/28.0 | 6244  |
| (11456)                | 2000 12 01.0 | 04 29.68 +24 31.6 18.3 | -0.90 - 2.5 | 0.8/01.4  | 35821 |
| 1999 JS <sub>61</sub>  | 2000 12 01.0 | 04 29.74 +21 17.8 17.8 | -1.20 - 2.7 | 0.2/31.0  | 6233  |
| 2000 RG <sub>62</sub>  | 2000 12 01.0 | 04 29.81 +14 48.9 17.6 | -1.20 - 0.1 | 2.8/30.4  | 5915  |
| 1999 RO <sub>144</sub> | 2000 12 01.0 | 04 29.82 +04 21.7 17.5 | -0.91 - 5.0 | 6.2/28.2  | 5607  |
| 1991 GY <sub>7</sub>   | 2000 12 01.0 | 04 29.87 +24 24.7 19.0 | -1.10 - 2.5 | 0.9/01.4  | 36878 |
| (11946)                | 2000 12 01.0 | 04 29.91 +21 08.8 17.8 | -0.84 - 1.8 | 0.2/31.0  | 36258 |
| 2000 RR <sub>37</sub>  | 2000 12 01.0 | 04 29.93 +28 27.9 16.7 | -1.02 - 8.8 | 2.8/02.4  | 6323  |
| 1988 CG <sub>2</sub>   | 2000 12 01.0 | 04 30.08 +02 02.5 18.0 | -0.94 + 0.4 | 6.6/29.0  | 6181  |
| 1998 BK <sub>25</sub>  | 2000 12 01.0 | 04 30.08 +18 07.8 17.1 | -1.14 + 0.9 | 1.6/30.8  | 6202  |
| (11675)                | 2000 12 01.1 | 04 30.24 +18 44.8 17.5 | -1.12 - 2.8 | 1.2/30.8  | 35877 |
| 1999 LN                | 2000 12 01.1 | 04 30.50 +21 46.3 18.1 | -0.97 - 6.3 | 0.0/01.2  | 5578  |
| 1996 VY <sub>7</sub>   | 2000 12 01.1 | 04 30.55 +15 40.3 16.7 | -1.02 - 1.3 | 2.9/30.5  | 6195  |
| 1999 RO <sub>143</sub> | 2000 12 01.2 | 04 30.47 +22 10.8 19.3 | -0.85 - 1.9 | 0.1/01.2  | 293   |
| (18488)                | 2000 12 01.2 | 04 30.57 -06 29.2 15.3 | -0.83 + 2.5 | 11.3/29.2 | 5206  |
| 1998 FM <sub>72</sub>  | 2000 12 01.2 | 04 30.58 +18 14.2 17.3 | -1.01 - 3.2 | 1.5/30.8  | 5465  |
| 1995 OU                | 2000 12 01.2 | 04 30.61 +29 49.5 18.2 | -1.12 - 1.8 | 2.7/02.2  | 36072 |
| (10832)                | 2000 12 01.2 | 04 30.86 +16 36.5 17.2 | -1.10 - 2.0 | 2.4/30.7  | 34778 |
| 1981 EN <sub>10</sub>  | 2000 12 01.2 | 04 30.93 +42 19.5 19.6 | -1.22 - 2.0 | 6.0/04.1  | 36501 |
| (18725)                | 2000 12 01.3 | 04 30.91 +10 04.6 15.9 | -0.89 - 4.6 | 4.7/29.5  | 5276  |
| (18819)                | 2000 12 01.3 | 04 30.92 +24 44.5 16.8 | -1.00 - 3.4 | 1.1/01.7  | 5304  |
| (11180)                | 2000 12 01.3 | 04 30.92 +29 28.3 17.2 | -1.05 - 2.3 | 2.8/02.3  | 35258 |
| (11512)                | 2000 12 01.3 | 04 30.95 +14 45.6 16.4 | -1.10 - 3.2 | 3.2/30.4  | 35836 |
| 1999 RJ <sub>10</sub>  | 2000 12 01.3 | 04 30.97 +22 37.3 17.7 | -0.89 - 1.8 | 0.2/01.4  | 5590  |
| (12134)                | 2000 12 01.3 | 04 31.07 +50 55.5 18.0 | -1.34 + 2.1 | 9.4/04.0  | 36310 |
| (11570)                | 2000 12 01.3 | 04 31.08 +06 18.0 17.6 | -0.84 - 0.4 | 4.7/29.7  | 35850 |
| 1996 AH <sub>1</sub>   | 2000 12 01.3 | 04 31.22 +37 20.4 17.8 | -1.00 - 5.0 | 5.6/03.9  | 6192  |
| (16435)                | 2000 12 01.3 | 04 31.24 +09 12.1 15.9 | -0.92 + 0.1 | 6.2/30.1  | 2832  |
| 2000 SQ <sub>295</sub> | 2000 12 01.4 | 04 31.42 +28 48.2 17.7 | -1.16 - 2.9 | 3.5/02.3  | 6077  |
| 1987 QH <sub>10</sub>  | 2000 12 01.4 | 04 31.43 +32 35.1 17.0 | -1.41 - 4.2 | 5.3/03.0  | 5386  |
| 1998 CW <sub>2</sub>   | 2000 12 01.4 | 04 31.45 +16 49.4 18.3 | -1.07 - 1.7 | 2.0/30.9  | 6202  |
| 1998 HQ <sub>150</sub> | 2000 12 01.4 | 04 31.48 +17 00.1 18.4 | -1.08 - 1.2 | 2.3/30.9  | 6214  |

|                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|----------|-------|
| 2266 T-3               | 2000 12 01.4 | 04 31.51 +05 15.6 18.1 | -0.89 - 6.2 | 6.1/28.7 | 32344 |
| 1994 PP <sub>34</sub>  | 2000 12 01.4 | 04 31.52 +23 42.7 17.6 | -0.95 - 2.4 | 0.6/01.7 | 24570 |
| (17971)                | 2000 12 01.4 | 04 31.62 +17 39.5 17.9 | -1.14 - 1.7 | 1.7/01.0 | 4207  |
| 1999 HX                | 2000 12 01.4 | 04 31.76 +05 24.8 19.4 | -1.00 - 8.3 | 5.2/28.7 | 6227  |
| 1981 EB <sub>33</sub>  | 2000 12 01.4 | 04 31.81 +40 09.4 19.2 | -1.22 - 3.1 | 6.2/04.1 | 6180  |
| 1999 NV <sub>8</sub>   | 2000 12 01.4 | 04 31.84 +23 10.1 18.9 | -1.02 - 2.5 | 0.4/01.7 | 2060  |
| 1978 VL <sub>8</sub>   | 2000 12 01.5 | 04 31.75 +22 40.1 17.3 | -1.10 + 5.7 | 0.3/01.5 | 6178  |
| 1994 CM <sub>7</sub>   | 2000 12 01.5 | 04 31.86 +11 19.9 19.8 | -1.02 - 0.6 | 4.7/30.5 | 35690 |
| 1998 FM <sub>34</sub>  | 2000 12 01.5 | 04 31.87 +14 12.5 18.2 | -1.03 - 4.0 | 3.1/30.5 | 6207  |
| 1998 FO <sub>121</sub> | 2000 12 01.5 | 04 32.15 +18 21.6 18.8 | -1.01 - 2.1 | 1.2/01.2 | 36081 |
| (18590)                | 2000 12 01.5 | 04 32.17 +23 36.7 15.3 | -1.19 - 0.1 | 0.7/01.7 | 5236  |
| 1998 GL <sub>1</sub>   | 2000 12 01.5 | 04 32.31 +41 01.3 17.5 | -1.36 + 3.1 | 7.5/02.9 | 6211  |
| 1994 ST <sub>2</sub>   | 2000 12 01.6 | 04 32.30 +36 30.7 19.9 | -1.04 - 1.4 | 4.4/03.4 | 3131  |
| 1999 RX <sub>56</sub>  | 2000 12 01.6 | 04 32.40 +25 48.5 18.9 | -1.06 - 2.9 | 1.3/02.1 | 1451  |
| 1996 VP <sub>9</sub>   | 2000 12 01.6 | 04 32.56 +14 45.9 19.0 | -1.07 + 2.9 | 3.3/01.2 | 3155  |
| 1990 SO <sub>7</sub>   | 2000 12 01.6 | 04 32.63 +09 53.5 19.0 | -0.92 - 1.4 | 4.3/30.4 | 6183  |
| 1978 UR <sub>4</sub>   | 2000 12 01.6 | 04 32.68 +26 27.1 17.2 | -1.05 - 3.0 | 2.3/02.3 | 6178  |
| 1999 RJ <sub>189</sub> | 2000 12 01.7 | 04 32.65 +21 22.0 20.2 | -0.92 - 2.1 | 0.2/01.6 | 1105  |
| 1999 RA <sub>115</sub> | 2000 12 01.7 | 04 32.67 +35 00.8 17.9 | -1.05 - 3.4 | 4.4/03.5 | 6246  |
| (18584)                | 2000 12 01.7 | 04 32.74 +23 33.2 18.3 | -1.18 - 3.1 | 0.6/02.0 | 5234  |
| 1995 GZ <sub>6</sub>   | 2000 12 01.7 | 04 32.81 +13 25.3 19.5 | -1.09 - 1.0 | 3.1/30.9 | 4326  |
| (12101)                | 2000 12 01.7 | 04 32.94 +06 56.7 18.1 | -0.84 - 1.9 | 4.7/30.0 | 6177  |
| (19074)                | 2000 12 01.7 | 04 32.94 +22 20.6 18.4 | -0.88 - 0.4 | 0.1/01.8 | 5378  |
| 1995 WO <sub>15</sub>  | 2000 12 01.7 | 04 32.99 +24 29.4 18.4 | -1.00 - 1.4 | 0.9/02.1 | 6192  |
| 2000 ST <sub>295</sub> | 2000 12 01.8 | 04 33.10 +25 15.1 17.4 | -1.13 - 7.2 | 1.5/02.4 | 6077  |
| (17765)                | 2000 12 01.8 | 04 33.11 +26 19.8 17.9 | -1.11 - 0.5 | 1.5/02.3 | 4145  |
| 1998 FF <sub>65</sub>  | 2000 12 01.8 | 04 33.16 +11 42.4 18.9 | -0.96 - 3.7 | 3.5/30.4 | 1936  |
| 1999 RF <sub>58</sub>  | 2000 12 01.8 | 04 33.22 +16 45.6 19.5 | -0.94 - 2.0 | 1.6/01.2 | 6244  |
| 1991 EY <sub>1</sub>   | 2000 12 01.8 | 04 33.24 +29 44.5 18.1 | -1.21 - 3.0 | 3.0/02.8 | 4883  |
| 1993 FU <sub>23</sub>  | 2000 12 01.8 | 04 33.32 +15 24.6 19.6 | -0.91 - 3.2 | 2.1/31.0 | 35687 |
| 1998 FV <sub>55</sub>  | 2000 12 01.8 | 04 33.32 +21 12.0 16.9 | -1.08 + 0.5 | 0.4/01.8 | 5461  |
| 1998 FR <sub>61</sub>  | 2000 12 01.8 | 04 33.44 +23 43.2 18.6 | -1.02 - 2.4 | 0.6/02.1 | 36529 |
| 1999 NS <sub>59</sub>  | 2000 12 01.8 | 04 33.45 +22 41.2 18.6 | -0.99 - 5.0 | 7.8/22.0 | 5587  |
| 1997 FS <sub>2</sub>   | 2000 12 01.8 | 04 33.53 +06 12.5 17.4 | -0.81 - 4.4 | 6.2/29.5 | 6197  |
| 1999 RE <sub>196</sub> | 2000 12 01.8 | 04 33.54 +27 28.7 18.2 | -0.94 - 4.2 | 1.7/02.7 | 5616  |
| 2000 SY <sub>319</sub> | 2000 12 01.8 | 04 33.57 +33 11.8 16.5 | -1.01 + 0.3 | 3.8/03.0 | 6085  |
| 1998 HA <sub>15</sub>  | 2000 12 01.9 | 04 33.50 +19 42.6 17.5 | -1.07 - 0.4 | 1.1/01.7 | 6211  |
| 1401 T-2               | 2000 12 01.9 | 04 33.51 +24 38.9 19.5 | -1.11 - 2.6 | 1.0/02.2 | 24237 |
| 1999 RS <sub>63</sub>  | 2000 12 01.9 | 04 33.56 +21 55.2 18.9 | -0.87 - 2.0 | 7.0/22.0 | 1097  |
| 1999 NC <sub>7</sub>   | 2000 12 01.9 | 04 33.67 +37 08.5 18.2 | -1.26 - 5.9 | 6.0/04.3 | 6240  |
| 1996 TG <sub>38</sub>  | 2000 12 01.9 | 04 33.74 +27 54.8 18.5 | -1.24 - 0.9 | 2.4/02.6 | 35300 |
| 1994 PT <sub>28</sub>  | 2000 12 01.9 | 04 33.79 +20 37.8 17.6 | -0.94 - 1.0 | 0.5/01.8 | 36514 |
| 1998 KK <sub>35</sub>  | 2000 12 01.9 | 04 33.85 +22 21.7 17.3 | -0.96 + 0.7 | 7.4/22.0 | 6215  |
| 1998 KY <sub>53</sub>  | 2000 12 01.9 | 04 33.89 +11 23.3 17.9 | -0.88 + 0.5 | 3.3/01.0 | 4915  |
| (10731)                | 2000 12 02.0 | 04 33.99 +24 48.6 15.5 | -1.19 - 6.4 | 1.3/02.4 | 34752 |
| 1994 AE <sub>9</sub>   | 2000 12 02.0 | 04 34.08 +23 24.5 18.9 | -1.12 - 2.8 | 0.6/02.2 | 23982 |
| (18499)                | 2000 12 02.0 | 04 34.12 +14 59.8 18.9 | -1.19 - 0.9 | 3.0/01.4 | 5210  |
| 1999 RC <sub>33</sub>  | 2000 12 02.0 | 04 34.34 +05 05.0 17.8 | -0.93 - 1.6 | 5.5/30.1 | 6243  |
| 1997 AV <sub>4</sub>   | 2000 12 02.0 | 04 34.34 +11 41.3 17.4 | -0.92 - 0.9 | 3.4/31.0 | 6196  |
| 1998 FD <sub>130</sub> | 2000 12 02.0 | 04 34.35 +07 22.5 19.1 | -0.91 - 3.9 | 5.0/30.1 | 6211  |
| (17578)                | 2000 12 02.0 | 04 34.37 +36 30.2 17.9 | -1.06 - 1.8 | 4.4/03.9 | 4091  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1998 GX <sub>7</sub>   | 2000 12 02.0 | 04 34.38 -22 49.6 18.3 | -0.96 - 3.9 | 19.5/20.4 | 5472  |
| 1999 RX <sub>48</sub>  | 2000 12 02.0 | 04 34.39 -03 52.1 18.3 | -0.84 + 1.7 | 8.6/30.1  | 1450  |
| (18380)                | 2000 12 02.0 | 04 34.41 +24 07.2 17.8 | -1.08 + 1.1 | 0.9/02.3  | 5176  |
| (17170)                | 2000 12 02.0 | 04 34.42 +18 21.8 17.8 | -1.18 + 0.2 | 1.4/01.8  | 3046  |
| (12597)                | 2000 12 02.1 | 04 34.37 +18 09.6 17.8 | -0.91 - 1.5 | 1.3/01.7  | 36768 |
| 1993 FE <sub>11</sub>  | 2000 12 02.1 | 04 34.39 +21 41.5 15.9 | -1.01 - 0.1 | 0.1/02.1  | 5395  |
| 1997 UL <sub>20</sub>  | 2000 12 02.1 | 04 34.40 -27 27.1 18.4 | -0.94 -14.2 | 25.5/17.0 | 4351  |
| 1998 BK <sub>4</sub>   | 2000 12 02.1 | 04 34.42 +17 41.0 19.3 | -1.18 - 1.3 | 1.8/01.7  | 31797 |
| 1998 HA                | 2000 12 02.1 | 04 34.49 +31 33.4 19.0 | -1.22 + 2.6 | 3.4/02.8  | 6211  |
| 1998 BV <sub>25</sub>  | 2000 12 02.1 | 04 34.57 +09 47.3 17.4 | -1.08 - 1.0 | 5.3/30.9  | 6202  |
| 1993 TT <sub>27</sub>  | 2000 12 02.1 | 04 34.65 +12 36.6 18.3 | -1.12 - 2.9 | 3.9/01.1  | 3871  |
| (12384)                | 2000 12 02.1 | 04 34.81 +35 46.6 17.3 | -1.03 - 2.7 | 4.3/04.0  | 6177  |
| 1999 RJ <sub>16</sub>  | 2000 12 02.1 | 04 34.85 +18 54.1 18.1 | -0.90 - 1.8 | 1.0/01.8  | 6243  |
| 1999 RB <sub>151</sub> | 2000 12 02.1 | 04 34.86 +13 18.4 17.1 | -0.86 - 0.3 | 3.1/01.3  | 40367 |
| (18835)                | 2000 12 02.2 | 04 34.81 +26 26.1 16.0 | -1.02 - 5.3 | 1.4/02.9  | 5309  |
| (11263)                | 2000 12 02.2 | 04 34.91 +46 43.9 18.9 | -1.19 - 4.5 | 6.2/06.4  | 35557 |
| 1999 RM <sub>116</sub> | 2000 12 02.2 | 04 34.98 +26 18.8 18.6 | -0.98 - 4.5 | 1.4/02.9  | 6246  |
| 1981 EF <sub>44</sub>  | 2000 12 02.2 | 04 35.05 +27 58.8 19.1 | -0.91 - 1.9 | 1.7/03.0  | 128   |
| 1998 KW <sub>48</sub>  | 2000 12 02.2 | 04 35.07 +15 12.8 18.5 | -1.01 + 1.2 | 2.2/01.7  | 5489  |
| (11267)                | 2000 12 02.2 | 04 35.15 +28 08.1 17.5 | -1.02 - 2.0 | 2.1/03.0  | 6177  |
| 1997 YP <sub>10</sub>  | 2000 12 02.2 | 04 35.20 +30 40.7 17.5 | -1.28 - 1.1 | 3.9/03.1  | 31285 |
| 1996 TM <sub>3</sub>   | 2000 12 02.2 | 04 35.22 +11 22.2 18.4 | -1.07 - 2.3 | 4.2/01.1  | 6194  |
| 1999 NU <sub>10</sub>  | 2000 12 02.2 | 04 35.24 +14 45.3 18.5 | -1.04 - 1.7 | 2.6/01.5  | 2061  |
| (13401)                | 2000 12 02.2 | 04 35.29 +32 43.6 18.0 | -1.03 - 3.4 | 3.1/03.8  | 37596 |
| 1998 CE <sub>4</sub>   | 2000 12 02.3 | 04 35.22 +23 59.2 17.1 | -1.20 + 0.4 | 0.9/02.5  | 6203  |
| 1998 DK <sub>14</sub>  | 2000 12 02.3 | 04 35.28 +27 44.7 19.5 | -1.15 - 1.8 | 2.0/02.9  | 6203  |
| 1997 AQ <sub>2</sub>   | 2000 12 02.3 | 04 35.31 +36 37.6 16.4 | -1.12 - 3.9 | 6.1/04.4  | 5426  |
| 1999 RW <sub>116</sub> | 2000 12 02.3 | 04 35.33 +10 00.1 19.8 | -0.91 - 1.5 | 3.6/01.0  | 36562 |
| (18544)                | 2000 12 02.3 | 04 35.34 +25 03.5 17.1 | -1.05 - 1.2 | 1.1/02.6  | 5222  |
| 1999 PA <sub>4</sub>   | 2000 12 02.3 | 04 35.44 +30 06.5 18.9 | -0.95 - 1.2 | 2.4/03.3  | 6242  |
| 1993 QS <sub>1</sub>   | 2000 12 02.4 | 04 35.70 +24 52.3 18.3 | -1.23 - 2.7 | 1.1/02.7  | 35424 |
| 1999 RZ <sub>54</sub>  | 2000 12 02.4 | 04 35.73 +08 27.3 18.9 | -0.84 - 2.2 | 4.3/30.8  | 1096  |
| 1999 RU <sub>33</sub>  | 2000 12 02.4 | 04 35.74 +41 00.0 19.3 | -1.13 - 0.8 | 6.0/04.5  | 6243  |
| (18555)                | 2000 12 02.4 | 04 35.75 +23 59.2 18.3 | -0.97 - 2.0 | 0.7/02.6  | 5226  |
| 1999 RD <sub>183</sub> | 2000 12 02.4 | 04 35.80 +22 43.8 18.7 | -0.87 - 1.4 | 0.2/02.5  | 3920  |
| 1999 NC                | 2000 12 02.4 | 04 35.96 +13 01.2 19.1 | -1.09 - 1.3 | 3.4/01.5  | 6239  |
| 1995 FT <sub>20</sub>  | 2000 12 02.4 | 04 35.99 +11 01.2 18.2 | -1.10 - 0.6 | 4.3/01.5  | 6191  |
| 1999 RF <sub>50</sub>  | 2000 12 02.4 | 04 36.04 +13 02.5 18.4 | -0.95 - 2.2 | 2.9/01.4  | 6244  |
| 1999 TH                | 2000 12 02.5 | 04 36.17 +21 41.2 18.6 | -0.88 - 1.8 | 0.1/02.5  | 5626  |
| 1999 HN <sub>1</sub>   | 2000 12 02.5 | 04 36.26 +28 09.9 18.7 | -1.31 - 1.8 | 2.6/03.2  | 6227  |
| 1999 RA <sub>183</sub> | 2000 12 02.5 | 04 36.31 +51 59.7 17.9 | -1.27 0.0   | 8.8/06.1  | 40370 |
| 2000 RB <sub>77</sub>  | 2000 12 02.5 | 04 36.60 +24 06.2 17.4 | -1.21 + 1.8 | 0.9/02.7  | 5922  |
| 1998 KF <sub>49</sub>  | 2000 12 02.6 | 04 36.56 +13 56.3 18.7 | -0.96 - 0.4 | 2.8/01.8  | 6215  |
| 2000 SA <sub>296</sub> | 2000 12 02.6 | 04 36.65 +29 25.5 16.9 | -1.24 - 5.3 | 3.2/03.7  | 6078  |
| 1997 YP <sub>11</sub>  | 2000 12 02.6 | 04 36.67 +17 26.3 16.7 | -1.12 - 3.4 | 2.1/02.1  | 6200  |
| 1999 RQ <sub>168</sub> | 2000 12 02.6 | 04 36.69 +26 53.1 18.5 | -1.07 - 1.8 | 1.6/03.2  | 40368 |
| 1999 RY <sub>192</sub> | 2000 12 02.6 | 04 36.79 +19 53.9 19.0 | -0.86 - 1.1 | 0.6/02.4  | 2655  |
| (17974)                | 2000 12 02.6 | 04 36.80 +23 47.6 16.9 | -1.18 - 3.8 | 0.7/02.9  | 4208  |
| (18472)                | 2000 12 02.6 | 04 36.97 +24 28.9 17.0 | -0.94 - 2.3 | 1.1/03.0  | 5202  |
| 1981 ES <sub>47</sub>  | 2000 12 02.6 | 04 37.05 +23 25.7 18.0 | -1.16 - 0.7 | 0.6/02.8  | 6180  |
| (18371)                | 2000 12 02.7 | 04 36.94 +19 56.9 16.2 | -1.01 - 1.3 | 0.9/02.5  | 5173  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1999 RB <sub>197</sub> | 2000 12 02.7 | 04 36.95 +39 22.0 16.8 | -1.08 - 2.7 | 5.5/04.9  | 6252  |
| 1998 GH <sub>9</sub>   | 2000 12 02.7 | 04 36.98 +10 37.0 18.9 | -1.00 + 1.9 | 4.0/01.9  | 5472  |
| 1999 JB <sub>44</sub>  | 2000 12 02.7 | 04 37.03 +32 25.7 18.0 | -1.24 - 0.4 | 4.2/03.8  | 5546  |
| 1984 JR                | 2000 12 02.7 | 04 37.14 +19 26.3 19.0 | -1.09 - 1.3 | 0.9/02.5  | 35416 |
| 1998 FK <sub>15</sub>  | 2000 12 02.7 | 04 37.18 +12 45.6 18.9 | -1.06 - 2.7 | 3.6/01.6  | 35953 |
| 1999 RW <sub>119</sub> | 2000 12 02.7 | 04 37.20 +39 31.4 18.4 | -1.17 - 2.8 | 5.5/05.1  | 6246  |
| 1998 CC <sub>5</sub>   | 2000 12 02.7 | 04 37.26 +31 53.4 17.4 | -1.19 - 3.9 | 4.5/04.1  | 6203  |
| (12506)                | 2000 12 02.7 | 04 37.35 +22 19.8 17.6 | -1.05 - 4.7 | 0.1/02.8  | 36742 |
| 1999 NP <sub>10</sub>  | 2000 12 02.7 | 04 37.44 +26 18.2 19.1 | -1.14 - 2.5 | 1.5/03.3  | 40353 |
| 1990 KD <sub>1</sub>   | 2000 12 02.8 | 04 37.41 +04 06.2 17.7 | -0.95 - 4.0 | 6.7/30.2  | 6182  |
| 2000 RW <sub>76</sub>  | 2000 12 02.8 | 04 37.42 +24 54.1 18.4 | -1.16 + 0.4 | 1.1/03.0  | 6332  |
| 1998 FW <sub>66</sub>  | 2000 12 02.8 | 04 37.47 +30 11.2 19.3 | -1.03 - 0.6 | 2.4/03.7  | 36529 |
| 7613 P-L               | 2000 12 02.8 | 04 37.51 +11 09.0 17.9 | -0.84 - 1.2 | 3.7/01.6  | 6439  |
| 1998 FB <sub>16</sub>  | 2000 12 02.8 | 04 37.56 +12 16.2 17.5 | -1.01 - 4.4 | 4.4/01.5  | 5454  |
| 1998 DQ <sub>4</sub>   | 2000 12 02.8 | 04 37.72 +09 53.9 18.8 | -1.04 - 2.1 | 4.6/01.5  | 6203  |
| 6791 P-L               | 2000 12 02.8 | 04 37.81 +38 13.3 19.0 | -1.20 + 0.4 | 5.3/04.3  | 6439  |
| 1998 HJ <sub>20</sub>  | 2000 12 02.9 | 04 37.83 +20 11.2 18.2 | -1.02 - 2.6 | 0.7/02.7  | 5476  |
| 1999 RM <sub>2</sub>   | 2000 12 02.9 | 04 37.96 +28 41.1 17.8 | -0.96 - 4.8 | 2.3/03.9  | 5590  |
| (17546)                | 2000 12 02.9 | 04 38.09 +29 57.3 17.2 | -1.27 - 3.1 | 3.3/03.9  | 4082  |
| (11017)                | 2000 12 02.9 | 04 38.09 +03 44.1 15.6 | -0.98 + 3.5 | 7.2/02.1  | 35216 |
| 1999 RX <sub>230</sub> | 2000 12 02.9 | 04 38.19 +08 42.9 18.4 | -0.75 + 0.1 | 3.5/01.7  | 6253  |
| 1999 JX <sub>19</sub>  | 2000 12 02.9 | 04 38.21 +26 59.3 18.3 | -1.25 - 3.8 | 2.0/03.6  | 6229  |
| 1999 JX <sub>73</sub>  | 2000 12 02.9 | 04 38.33 +16 11.6 19.0 | -1.19 + 0.2 | 2.6/02.5  | 6234  |
| 1998 HP <sub>124</sub> | 2000 12 02.9 | 04 38.33 +15 00.0 18.7 | -0.96 - 0.3 | 2.5/02.3  | 6214  |
| 1999 RK <sub>61</sub>  | 2000 12 02.9 | 04 38.34 +08 03.0 17.8 | -0.99 - 1.0 | 5.5/01.5  | 6244  |
| (18468)                | 2000 12 03.0 | 04 38.35 +29 34.8 17.5 | -1.05 + 0.2 | 2.5/03.7  | 5201  |
| 1999 JY <sub>120</sub> | 2000 12 03.0 | 04 38.35 +16 06.2 18.6 | -1.04 - 2.0 | 2.3/02.4  | 6237  |
| 1998 MG <sub>38</sub>  | 2000 12 03.0 | 04 38.38 +20 31.3 18.7 | -1.00 - 5.3 | 0.5/02.8  | 6216  |
| 1999 KS <sub>5</sub>   | 2000 12 03.0 | 04 38.38 +10 52.3 18.0 | -0.99 - 4.1 | 4.3/01.6  | 6238  |
| 1998 FE <sub>47</sub>  | 2000 12 03.0 | 04 38.48 +33 49.7 18.8 | -1.23 - 1.4 | 5.0/04.2  | 5459  |
| (18712)                | 2000 12 03.0 | 04 38.49 +18 14.6 18.1 | -0.96 + 0.2 | 1.2/02.7  | 5272  |
| 1999 NH <sub>32</sub>  | 2000 12 03.0 | 04 38.54 +13 45.2 19.4 | -0.98 - 0.9 | 2.8/02.2  | 1093  |
| 1981 EL <sub>31</sub>  | 2000 12 03.1 | 04 38.79 +12 10.2 18.5 | -1.09 - 2.6 | 4.0/02.0  | 26921 |
| (18997)                | 2000 12 03.1 | 04 38.83 +17 48.0 18.0 | -1.02 - 1.6 | 1.6/02.7  | 5356  |
| 1991 GB <sub>7</sub>   | 2000 12 03.1 | 04 38.90 +30 13.0 18.2 | -0.96 0.0   | 2.6/03.9  | 6184  |
| 1999 NU <sub>41</sub>  | 2000 12 03.1 | 04 38.99 +45 51.4 18.3 | -1.15 - 2.5 | 7.5/06.6  | 38069 |
| 1998 HC <sub>18</sub>  | 2000 12 03.1 | 04 39.09 +23 22.6 18.8 | -0.98 - 2.9 | 0.4/03.3  | 6212  |
| 1987 QW                | 2000 12 03.1 | 04 39.11 +08 15.3 18.9 | -0.96 - 4.0 | 4.6/01.4  | 6181  |
| 1100 T-2               | 2000 12 03.1 | 04 39.19 +09 08.3 18.5 | -0.93 - 3.3 | 4.5/01.5  | 40532 |
| 1999 JO <sub>34</sub>  | 2000 12 03.2 | 04 39.17 +24 52.3 18.6 | -1.21 - 3.3 | 1.1/03.5  | 35736 |
| (11725)                | 2000 12 03.2 | 04 39.34 +19 03.4 17.9 | -0.95 - 1.7 | 1.1/02.9  | 35891 |
| 1995 NE                | 2000 12 03.2 | 04 39.42 +14 26.8 19.9 | -1.05 - 2.6 | 2.6/02.4  | 36516 |
| 1999 JU <sub>98</sub>  | 2000 12 03.2 | 04 39.42 +11 34.8 19.9 | -1.13 - 0.5 | 4.2/02.3  | 4493  |
| 1998 FQ <sub>103</sub> | 2000 12 03.2 | 04 39.45 +25 21.7 18.5 | -1.04 - 3.0 | 1.1/03.6  | 36530 |
| 1999 RZ <sub>162</sub> | 2000 12 03.2 | 04 39.46 +14 57.8 19.4 | -0.83 - 2.7 | 2.1/02.4  | 5612  |
| 1998 GG <sub>1</sub>   | 2000 12 03.2 | 04 39.54 +15 36.1 19.7 | -0.91 - 3.4 | 2.0/02.5  | 36531 |
| 1999 JH <sub>8</sub>   | 2000 12 03.2 | 04 39.57 -11 12.8 17.2 | -1.13 -15.5 | 16.3/24.0 | 5535  |
| 2788 P-L               | 2000 12 03.3 | 04 39.55 +19 47.5 19.1 | -0.85 - 1.3 | 0.7/03.0  | 573   |
| 1999 RA <sub>130</sub> | 2000 12 03.3 | 04 39.57 +18 05.1 18.6 | -1.07 - 1.9 | 1.4/02.9  | 38561 |
| (18733)                | 2000 12 03.3 | 04 39.76 +23 16.6 17.6 | -1.03 + 2.1 | 0.4/03.4  | 5279  |
| 1999 SC <sub>7</sub>   | 2000 12 03.3 | 04 39.79 +32 15.2 18.8 | -1.09 - 0.5 | 3.0/04.4  | 6254  |

|                        |              |                        |             |          |       |                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|----------|-------|------------------------|--------------|------------------------|-------------|-----------|-------|
| (11118)                | 2000 12 03.3 | 04 39.85 +26 46.6 17.5 | -1.19 - 1.6 | 1.8/03.8 | 35242 | 1999 HV                | 2000 12 04.0 | 04 42.92 +26 42.8 18.7 | -1.42 + 6.0 | 1.7/04.2  | 5530  |
| 1999 JF <sub>23</sub>  | 2000 12 03.3 | 04 39.89 +21 03.7 18.6 | -1.23 - 1.8 | 0.5/03.3 | 3910  | 1986 TD                | 2000 12 04.0 | 04 43.0 +73 51.4 16.1  | -3.56 +16.9 | 24.7/24.8 | 5386  |
| 1999 RA <sub>173</sub> | 2000 12 03.3 | 04 40.00 -00 29.8 18.2 | -0.82 + 0.1 | 6.8/01.3 | 6251  | (18289)                | 2000 12 04.0 | 04 43.00 +33 23.1 17.9 | -1.15 + 1.3 | 3.9/05.0  | 5150  |
| 1993 PD <sub>3</sub>   | 2000 12 03.4 | 04 40.06 +23 37.8 17.2 | -1.20 - 4.1 | 0.7/03.6 | 6187  | 1978 XX                | 2000 12 04.0 | 04 43.11 +25 55.6 16.7 | -1.13 + 2.9 | 1.3/04.3  | 5381  |
| 1996 XC <sub>18</sub>  | 2000 12 03.4 | 04 40.22 +25 33.8 18.1 | -1.14 + 0.7 | 1.2/03.7 | 3878  | (18512)                | 2000 12 04.1 | 04 43.05 +23 36.7 16.6 | -1.15 - 2.8 | 0.6/04.3  | 5213  |
| (18599)                | 2000 12 03.4 | 04 40.27 +20 46.0 17.9 | -1.17 - 0.5 | 0.6/03.3 | 5238  | 1995 YV <sub>22</sub>  | 2000 12 04.1 | 04 43.09 +19 52.5 18.2 | -0.89 - 1.6 | 0.8/03.9  | 36519 |
| 1993 FF <sub>20</sub>  | 2000 12 03.4 | 04 40.33 +17 20.3 17.0 | -1.00 + 0.1 | 1.9/03.0 | 6186  | 1999 RE <sub>135</sub> | 2000 12 04.1 | 04 43.20 +14 41.9 17.4 | -0.95 - 1.8 | 2.7/03.3  | 6248  |
| (18797)                | 2000 12 03.4 | 04 40.36 +18 02.1 17.6 | -1.07 - 0.3 | 1.7/03.1 | 5298  | (11101)                | 2000 12 04.1 | 04 43.22 +03 38.1 18.0 | -0.92 - 3.8 | 6.5/01.7  | 35237 |
| 1997 CL <sub>12</sub>  | 2000 12 03.4 | 04 40.38 +24 55.8 18.8 | -0.97 - 1.7 | 0.9/03.8 | 6197  | 1998 FK <sub>44</sub>  | 2000 12 04.1 | 04 43.23 +27 47.0 19.4 | -0.98 - 1.4 | 1.6/04.7  | 3889  |
| 1999 RP <sub>183</sub> | 2000 12 03.4 | 04 40.38 +02 16.6 18.1 | -0.79 - 1.5 | 5.9/01.2 | 1463  | 1999 NS <sub>26</sub>  | 2000 12 04.1 | 04 43.29 +17 55.8 18.3 | -1.01 - 1.2 | 1.5/03.7  | 38800 |
| (12042)                | 2000 12 03.4 | 04 40.44 +07 18.0 17.5 | -0.86 0.0   | 4.6/02.1 | 36284 | 1999 JN <sub>53</sub>  | 2000 12 04.1 | 04 43.32 +17 12.3 18.3 | -1.18 - 0.4 | 2.1/03.7  | 5551  |
| 2000 RB <sub>54</sub>  | 2000 12 03.4 | 04 40.46 +17 50.8 16.9 | -1.01 - 1.2 | 1.6/03.1 | 6328  | 1999 JJ <sub>32</sub>  | 2000 12 04.1 | 04 43.34 +17 24.5 19.0 | -1.13 - 1.7 | 2.0/03.7  | 6230  |
| 1994 SX <sub>9</sub>   | 2000 12 03.4 | 04 40.46 +07 58.1 18.2 | -0.83 - 2.7 | 4.8/01.7 | 6190  | (11703)                | 2000 12 04.1 | 04 43.37 +19 56.9 18.3 | -1.01 - 1.7 | 0.8/03.9  | 35885 |
| 1999 KJ <sub>15</sub>  | 2000 12 03.5 | 04 40.44 -04 30.1 18.7 | -0.84 + 0.4 | 8.0/01.4 | 6238  | 1996 SV <sub>7</sub>   | 2000 12 04.1 | 04 43.38 +28 12.1 17.8 | -1.15 - 4.7 | 2.6/05.0  | 6194  |
| 1999 RK <sub>158</sub> | 2000 12 03.5 | 04 40.45 +19 08.3 19.1 | -0.93 - 1.1 | 1.0/03.2 | 6250  | 1999 NJ <sub>50</sub>  | 2000 12 04.1 | 04 43.42 +35 09.7 18.8 | -1.13 - 4.7 | 4.3/06.0  | 36546 |
| (17174)                | 2000 12 03.5 | 04 40.46 +05 17.2 17.5 | -0.94 - 0.7 | 6.3/01.8 | 3047  | (18770)                | 2000 12 04.1 | 04 43.43 +25 44.1 17.8 | -1.24 - 2.0 | 1.4/04.5  | 5290  |
| 1999 RB <sub>113</sub> | 2000 12 03.5 | 04 40.46 +03 10.0 19.5 | -0.94 - 1.5 | 6.3/01.5 | 290   | 1999 JK <sub>61</sub>  | 2000 12 04.1 | 04 43.47 +14 54.0 18.6 | -1.09 - 4.0 | 3.0/03.3  | 5557  |
| 1998 KK <sub>58</sub>  | 2000 12 03.5 | 04 40.60 +24 33.7 19.3 | -0.95 - 1.7 | 0.7/03.8 | 36537 | 1999 RM <sub>70</sub>  | 2000 12 04.2 | 04 43.58 +20 31.0 19.1 | -0.95 - 2.8 | 0.6/04.0  | 39310 |
| (17983)                | 2000 12 03.5 | 04 40.77 +15 54.6 17.6 | -1.08 - 1.6 | 2.5/03.0 | 4211  | (11995)                | 2000 12 04.2 | 04 43.60 +15 56.8 17.4 | -0.85 - 0.7 | 1.9/03.6  | 36271 |
| (11555)                | 2000 12 03.5 | 04 40.79 +01 09.1 17.4 | -0.93 - 0.8 | 7.4/01.3 | 35846 | (17651)                | 2000 12 04.2 | 04 43.62 +26 14.0 15.6 | -1.16 + 1.8 | 1.7/04.5  | 4112  |
| 1999 RX <sub>134</sub> | 2000 12 03.5 | 04 40.81 +41 42.7 19.2 | -1.24 - 2.7 | 6.4/06.0 | 1457  | (11220)                | 2000 12 04.2 | 04 43.76 +21 42.1 15.6 | -1.16 - 6.2 | 0.3/04.2  | 35268 |
| 1998 BJ <sub>25</sub>  | 2000 12 03.5 | 04 40.85 +23 19.6 18.0 | -1.18 - 0.5 | 0.5/03.7 | 5440  | 1998 KZ <sub>7</sub>   | 2000 12 04.2 | 04 43.83 +21 15.3 17.2 | -0.96 + 2.6 | 0.3/04.2  | 6214  |
| 1999 PL <sub>4</sub>   | 2000 12 03.5 | 04 40.95 +32 05.4 18.5 | -1.10 - 4.1 | 3.5/04.9 | 36094 | 1981 EU <sub>2</sub>   | 2000 12 04.2 | 04 43.85 +36 45.7 18.9 | -1.02 - 3.0 | 4.5/06.1  | 35907 |
| (18661)                | 2000 12 03.6 | 04 41.00 +14 35.4 18.8 | -1.01 - 3.2 | 2.7/02.7 | 5257  | 1999 JN <sub>61</sub>  | 2000 12 04.2 | 04 43.89 +18 52.1 18.4 | -1.14 - 3.4 | 1.3/03.9  | 6232  |
| 1996 WR <sub>1</sub>   | 2000 12 03.6 | 04 41.01 +18 42.4 17.5 | -1.05 - 2.9 | 1.4/03.2 | 5422  | 1996 XL <sub>33</sub>  | 2000 12 04.3 | 04 43.90 +21 59.9 17.7 | -1.14 + 2.2 | 0.1/04.3  | 6196  |
| 1981 DD <sub>2</sub>   | 2000 12 03.6 | 04 41.02 +25 26.7 18.5 | -0.92 - 3.9 | 1.1/04.1 | 26914 | 1999 RD <sub>191</sub> | 2000 12 04.3 | 04 43.91 +35 16.8 19.5 | -1.08 - 3.6 | 4.1/06.0  | 39313 |
| 1998 FD <sub>69</sub>  | 2000 12 03.6 | 04 41.08 +26 23.3 16.7 | -1.08 - 1.8 | 2.1/04.1 | 4909  | 1991 RP <sub>17</sub>  | 2000 12 04.3 | 04 43.92 +40 00.2 18.9 | -1.24 - 1.7 | 5.6/06.3  | 35421 |
| 1981 EY <sub>4</sub>   | 2000 12 03.6 | 04 41.10 +35 01.3 18.1 | -1.14 - 3.9 | 4.8/05.4 | 6179  | 1996 RC <sub>12</sub>  | 2000 12 04.3 | 04 44.02 +13 46.7 18.6 | -1.10 - 1.1 | 3.8/03.5  | 6193  |
| 1999 NZ <sub>6</sub>   | 2000 12 03.6 | 04 41.22 +20 23.2 18.2 | -1.00 - 2.3 | 0.7/03.5 | 6240  | 1981 EF <sub>3</sub>   | 2000 12 04.3 | 04 44.03 +20 39.8 18.1 | -1.12 - 5.5 | 0.7/04.1  | 6179  |
| 1998 HX <sub>127</sub> | 2000 12 03.7 | 04 41.41 +28 51.9 19.4 | -1.03 - 1.5 | 2.1/04.4 | 35990 | (18333)                | 2000 12 04.3 | 04 44.03 +10 03.1 17.7 | -0.98 - 3.1 | 4.7/03.0  | 5163  |
| (18295)                | 2000 12 03.7 | 04 41.46 +18 02.0 16.6 | -1.11 + 2.6 | 1.7/03.5 | 5152  | (11908)                | 2000 12 04.3 | 04 44.07 +22 31.4 17.8 | -0.91 - 1.0 | 0.1/04.4  | 36248 |
| 1998 FW <sub>77</sub>  | 2000 12 03.7 | 04 41.48 +26 41.9 18.4 | -1.09 + 0.3 | 1.5/04.1 | 36080 | 1998 FJ <sub>66</sub>  | 2000 12 04.3 | 04 44.08 +35 46.5 17.6 | -1.21 - 0.1 | 4.9/05.5  | 6208  |
| 1995 UP <sub>11</sub>  | 2000 12 03.7 | 04 41.49 +13 43.2 18.8 | -0.94 - 3.4 | 3.3/02.7 | 30784 | 1998 HP <sub>3</sub>   | 2000 12 04.3 | 04 44.08 +16 22.9 19.7 | -0.99 - 1.8 | 1.9/03.7  | 3228  |
| 1999 JT <sub>43</sub>  | 2000 12 03.7 | 04 41.53 +32 22.9 18.1 | -1.29 - 1.0 | 4.4/04.8 | 5546  | (18481)                | 2000 12 04.3 | 04 44.10 +22 18.7 16.3 | -0.92 - 4.5 | 0.0/04.3  | 5204  |
| 2000 RC <sub>61</sub>  | 2000 12 03.7 | 04 41.77 +22 12.6 17.3 | -1.16 + 0.7 | 0.0/03.8 | 5914  | 1999 RR <sub>47</sub>  | 2000 12 04.3 | 04 44.13 +16 16.4 19.3 | -1.04 - 2.1 | 2.1/03.7  | 3919  |
| 1999 TZ <sub>91</sub>  | 2000 12 03.7 | 04 41.80 +24 45.2 18.2 | -1.02 + 0.5 | 0.8/04.0 | 5631  | 1999 RZ <sub>123</sub> | 2000 12 04.3 | 04 44.15 +27 52.6 17.7 | -1.04 - 5.3 | 1.9/05.1  | 6246  |
| 1999 RH <sub>57</sub>  | 2000 12 03.8 | 04 41.91 +14 08.9 18.3 | -0.94 - 0.9 | 2.8/03.1 | 6244  | 1989 YC                | 2000 12 04.3 | 04 44.24 +11 36.5 15.9 | -1.10 + 7.0 | 5.5/04.4  | 6182  |
| 1999 NG <sub>64</sub>  | 2000 12 03.9 | 04 42.18 +06 07.8 19.0 | -0.89 - 3.3 | 5.3/01.8 | 36547 | 2000 RP <sub>62</sub>  | 2000 12 04.3 | 04 44.29 +18 08.1 17.9 | -1.00 + 0.7 | 1.4/04.1  | 6329  |
| 2000 QM <sub>128</sub> | 2000 12 03.9 | 04 42.33 +28 15.2 16.3 | -1.08 + 3.8 | 2.2/04.2 | 6303  | 1998 FE <sub>28</sub>  | 2000 12 04.3 | 04 44.36 +15 38.9 18.0 | -1.07 - 3.1 | 2.9/03.6  | 5455  |
| (11807)                | 2000 12 03.9 | 04 42.40 +11 05.5 18.6 | -0.82 - 2.4 | 3.2/02.6 | 36221 | 1981 EF <sub>45</sub>  | 2000 12 04.4 | 04 44.35 +23 17.8 19.7 | -0.89 - 1.2 | 0.3/04.5  | 40291 |
| 1994 CB <sub>17</sub>  | 2000 12 03.9 | 04 42.65 +20 04.4 18.6 | -1.11 - 0.8 | 0.9/03.8 | 34505 | (19056)                | 2000 12 04.4 | 04 44.36 +25 53.7 18.1 | -1.05 - 1.0 | 1.4/04.8  | 5373  |
| 1998 FL <sub>44</sub>  | 2000 12 03.9 | 04 42.65 +41 14.2 18.4 | -1.24 - 0.6 | 6.1/05.9 | 37276 | 1999 JD <sub>61</sub>  | 2000 12 04.4 | 04 44.40 +13 51.2 18.2 | -1.04 - 1.2 | 3.2/03.7  | 5556  |
| (18284)                | 2000 12 03.9 | 04 42.68 +29 33.1 17.8 | -1.32 - 3.0 | 3.0/04.8 | 5149  | 1993 SC <sub>6</sub>   | 2000 12 04.4 | 04 44.53 +19 12.5 19.0 | -1.16 - 3.0 | 1.2/04.1  | 5399  |
| 1997 EL <sub>36</sub>  | 2000 12 03.9 | 04 42.68 +35 16.2 17.6 | -1.11 - 2.4 | 4.7/05.5 | 6197  | (10701)                | 2000 12 04.4 | 04 44.55 +01 10.2 17.4 | -1.08 + 1.0 | 8.7/03.4  | 6177  |
| 1997 GQ <sub>21</sub>  | 2000 12 04.0 | 04 42.65 +17 34.6 19.1 | -0.83 - 2.4 | 1.4/03.5 | 177   | 1999 LM <sub>19</sub>  | 2000 12 04.4 | 04 44.60 +22 57.5 18.0 | -1.11 - 2.6 | 0.3/04.5  | 6239  |
| 1999 NN <sub>4</sub>   | 2000 12 04.0 | 04 42.66 +13 11.2 19.4 | -0.97 + 0.9 | 3.0/03.4 | 36544 | (10988)                | 2000 12 04.4 | 04 44.65 -05 12.0 18.7 | -1.09 + 2.7 | 9.1/02.9  | 35209 |
| 1998 EB <sub>9</sub>   | 2000 12 04.0 | 04 42.75 +16 23.0 18.2 | -1.08 + 0.6 | 2.2/03.6 | 35705 | 1998 HW <sub>99</sub>  | 2000 12 04.4 | 04 44.76 +28 37.6 19.7 | -1.10 + 1.7 | 2.0/04.9  | 3235  |
| 1998 DG <sub>34</sub>  | 2000 12 04.0 | 04 42.79 +28 23.5 16.8 | -1.14 - 0.7 | 3.0/04.6 | 6204  | 2000 SQ <sub>42</sub>  | 2000 12 04.4 | 04 44.77 -28 24.6 17.2 | -0.46 - 6.2 | 28.7/17.0 | 5947  |
| 1999 RO <sub>161</sub> | 2000 12 04.0 | 04 42.80 +19 52.6 17.5 | -0.88 - 1.4 | 0.7/03.8 | 6250  | 1999 NM <sub>10</sub>  | 2000 12 04.4 | 04 44.80 +13 01.8 19.7 | -0.88 - 0.4 | 2.8/03.7  | 36090 |
| 1999 RV <sub>122</sub> | 2000 12 04.0 | 04 42.82 +15 33.5 18.8 | -0.87 - 0.5 | 2.0/03.4 | 6246  | 1998 CZ <sub>1</sub>   | 2000 12 04.5 | 04 44.89 +14 12.2 18.4 | -1.03 + 1.8 | 2.8/04.0  | 6202  |
| 1998 KE <sub>4</sub>   | 2000 12 04.0 | 04 42.82 +17 26.3 18.2 | -0.96 - 2.5 | 1.7/03.5 | 6214  | 1997 XH <sub>5</sub>   | 2000 12 04.5 | 04 44.95 +28 49.9 18.9 | -1.19 - 1.8 | 2.9/05.2  | 6199  |

|                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|----------|-------|
| (11519)                | 2000 12 04.5 | 04 44.96 +23 49.3 18.4 | -1.11 - 1.5 | 0.5/04.7 | 35838 |
| 1999 SO <sub>26</sub>  | 2000 12 04.5 | 04 45.05 +18 23.9 18.1 | -0.88 + 1.1 | 1.2/04.3 | 6254  |
| 1998 FS <sub>72</sub>  | 2000 12 04.5 | 04 45.07 +23 07.2 18.7 | -1.13 + 1.1 | 0.3/04.6 | 6209  |
| 1999 RW <sub>155</sub> | 2000 12 04.5 | 04 45.10 +06 49.9 19.0 | -0.83 - 2.7 | 4.8/02.8 | 40367 |
| 2000 RG <sub>61</sub>  | 2000 12 04.5 | 04 45.13 +16 56.0 18.9 | -0.88 - 1.7 | 1.8/04.0 | 5914  |
| 1996 XT <sub>2</sub>   | 2000 12 04.5 | 04 45.28 +08 05.9 16.2 | -1.62 +25.5 | 7.2/07.0 | 5423  |
| (18050)                | 2000 12 04.6 | 04 45.24 +14 21.5 17.5 | -0.86 - 3.5 | 2.5/03.6 | 4230  |
| (18562)                | 2000 12 04.6 | 04 45.25 +23 41.8 18.4 | -0.86 - 1.2 | 0.4/04.8 | 5228  |
| (18759)                | 2000 12 04.6 | 04 45.36 +29 14.1 18.1 | -1.26 - 1.3 | 2.8/05.3 | 5286  |
| 1996 SS <sub>4</sub>   | 2000 12 04.6 | 04 45.38 +17 29.5 18.3 | -1.08 - 3.0 | 1.9/04.1 | 35429 |
| 1992 RO <sub>1</sub>   | 2000 12 04.6 | 04 45.42 +03 13.4 17.9 | -1.08 + 1.3 | 7.4/03.6 | 6185  |
| 1999 NC <sub>41</sub>  | 2000 12 04.6 | 04 45.50 +21 55.2 18.6 | -1.04 - 1.3 | 0.1/04.6 | 6241  |
| 1998 HR <sub>63</sub>  | 2000 12 04.6 | 04 45.62 +20 36.0 18.3 | -0.99 - 0.3 | 0.6/04.5 | 6213  |
| 1998 DB <sub>3</sub>   | 2000 12 04.6 | 04 45.67 +14 36.0 18.7 | -1.09 - 0.7 | 3.2/04.0 | 5444  |
| 1999 JR <sub>107</sub> | 2000 12 04.6 | 04 45.69 +22 31.7 17.7 | -1.24 + 0.1 | 0.1/04.7 | 5572  |
| (18051)                | 2000 12 04.6 | 04 45.72 +15 46.2 17.6 | -0.87 - 4.3 | 2.2/03.8 | 4230  |
| 1998 FL <sub>48</sub>  | 2000 12 04.6 | 04 45.73 +23 45.6 18.6 | -1.06 - 3.1 | 0.5/04.9 | 6207  |
| 1993 RA <sub>8</sub>   | 2000 12 04.7 | 04 45.66 +12 22.3 17.6 | -0.78 - 2.3 | 2.9/03.6 | 6188  |
| (11972)                | 2000 12 04.7 | 04 45.73 +29 14.6 17.5 | -0.95 - 0.5 | 2.4/05.4 | 6177  |
| 1999 JH <sub>40</sub>  | 2000 12 04.7 | 04 45.79 +22 56.4 18.2 | -1.20 - 0.4 | 0.2/04.8 | 6230  |
| (19078)                | 2000 12 04.7 | 04 45.80 +26 07.3 17.1 | -1.03 + 3.5 | 1.2/04.9 | 5379  |
| 1999 PK <sub>4</sub>   | 2000 12 04.7 | 04 45.87 +09 31.1 18.7 | -0.86 + 0.2 | 3.9/03.7 | 6242  |
| (18029)                | 2000 12 04.7 | 04 45.89 +13 42.6 17.6 | -1.06 - 5.5 | 3.0/03.6 | 4224  |
| 1999 NV <sub>9</sub>   | 2000 12 04.7 | 04 45.99 +10 33.4 18.3 | -1.11 - 0.8 | 4.9/03.7 | 6240  |
| 2000 RE <sub>61</sub>  | 2000 12 04.7 | 04 46.05 +18 29.5 17.1 | -1.13 + 1.7 | 1.6/04.5 | 5914  |
| (11086)                | 2000 12 04.7 | 04 46.05 +28 22.3 15.5 | -1.22 + 1.4 | 3.0/05.2 | 35234 |
| (12076)                | 2000 12 04.8 | 04 46.08 +25 39.7 19.2 | -1.02 - 1.2 | 1.0/05.1 | 36294 |
| 1998 KK <sub>16</sub>  | 2000 12 04.8 | 04 46.18 +25 47.8 23.1 | -0.93 - 0.3 | 0.8/05.1 | 32333 |
| 1999 NR <sub>56</sub>  | 2000 12 04.8 | 04 46.20 +26 35.4 18.4 | -0.92 - 4.4 | 1.3/05.4 | 36907 |
| 1997 AL <sub>6</sub>   | 2000 12 04.8 | 04 46.22 +41 41.6 18.3 | -1.26 - 9.2 | 7.3/08.4 | 6197  |
| (18437)                | 2000 12 04.8 | 04 46.27 +18 11.9 17.3 | -1.07 + 2.5 | 1.4/04.6 | 5192  |
| 7595 P-L               | 2000 12 04.8 | 04 46.27 +16 58.8 18.8 | -1.12 - 1.2 | 2.3/04.4 | 38736 |
| 1998 HC <sub>149</sub> | 2000 12 04.8 | 04 46.30 +30 08.7 15.0 | -1.13 + 5.9 | 3.3/05.0 | 6214  |
| 1997 EB <sub>36</sub>  | 2000 12 04.8 | 04 46.30 +17 36.5 18.6 | -0.94 - 0.9 | 1.6/04.4 | 5430  |
| 1999 RU <sub>171</sub> | 2000 12 04.8 | 04 46.33 +35 45.5 17.8 | -1.05 - 0.7 | 4.3/06.1 | 5613  |
| (17441)                | 2000 12 04.8 | 04 46.43 +22 55.2 15.8 | -1.09 + 0.9 | 0.3/04.9 | 4052  |
| 1999 RZ <sub>128</sub> | 2000 12 04.8 | 04 46.44 +21 09.8 18.9 | -1.07 - 2.4 | 0.4/04.7 | 1457  |
| 1999 NN <sub>37</sub>  | 2000 12 04.8 | 04 46.45 +37 24.2 18.0 | -1.17 - 5.0 | 5.3/07.0 | 36090 |
| (19064)                | 2000 12 04.8 | 04 46.48 +27 42.1 18.0 | -1.16 - 0.5 | 2.2/05.3 | 5376  |
| 1999 RY <sub>186</sub> | 2000 12 04.9 | 04 46.54 +25 43.0 17.6 | -1.09 - 2.2 | 1.2/05.2 | 6252  |
| 1999 TG <sub>265</sub> | 2000 12 04.9 | 04 46.64 +25 27.4 17.8 | -0.89 - 5.9 | 0.9/05.4 | 5641  |
| 1994 PH <sub>26</sub>  | 2000 12 04.9 | 04 46.74 +23 50.7 17.8 | -0.97 - 0.8 | 0.5/05.1 | 6190  |
| 1998 HP <sub>24</sub>  | 2000 12 04.9 | 04 46.85 +25 27.8 17.9 | -1.00 + 2.6 | 0.9/05.1 | 6212  |
| 2000 RM <sub>62</sub>  | 2000 12 04.9 | 04 46.96 +20 52.5 17.0 | -0.92 - 0.6 | 0.5/04.9 | 5916  |
| 1998 KH <sub>55</sub>  | 2000 12 05.0 | 04 46.94 +01 00.5 17.8 | -0.84 + 0.9 | 6.4/03.4 | 6215  |
| (10841)                | 2000 12 05.0 | 04 47.01 +33 47.0 17.3 | -1.85 +11.8 | 5.5/04.6 | 34781 |
| 1999 NH <sub>12</sub>  | 2000 12 05.0 | 04 47.06 +18 01.7 18.7 | -1.17 - 2.6 | 1.8/04.6 | 3917  |
| 1981 EG <sub>11</sub>  | 2000 12 05.0 | 04 47.14 +15 08.8 18.5 | -0.97 - 5.0 | 3.3/04.0 | 23535 |
| 1985 SH <sub>1</sub>   | 2000 12 05.0 | 04 47.15 +17 21.4 17.4 | -1.07 - 1.7 | 2.3/04.6 | 6181  |
| (18543)                | 2000 12 05.0 | 04 47.15 +32 01.8 17.6 | -1.07 - 3.0 | 3.2/06.2 | 5222  |
| 1999 RE <sub>78</sub>  | 2000 12 05.0 | 04 47.24 +20 53.0 18.9 | -1.01 - 2.3 | 0.5/04.9 | 287   |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1981 EJ <sub>45</sub>  | 2000 12 05.0 | 04 47.24 +25 02.3 19.2 | -0.91 - 2.6 | 0.8/05.4  | 35909 |
| (18642)                | 2000 12 05.0 | 04 47.27 +27 44.3 17.6 | -1.24 + 0.4 | 2.4/05.4  | 5251  |
| (18582)                | 2000 12 05.0 | 04 47.29 +11 26.6 15.0 | -1.36 -16.7 | 5.2/02.8  | 5234  |
| 1999 NQ <sub>11</sub>  | 2000 12 05.0 | 04 47.33 +18 09.0 18.1 | -0.97 - 1.7 | 1.5/04.7  | 6240  |
| 1999 JT <sub>44</sub>  | 2000 12 05.0 | 04 47.40 +28 27.9 17.7 | -1.29 + 0.7 | 2.7/05.5  | 5546  |
| 1996 TX <sub>3</sub>   | 2000 12 05.0 | 04 47.43 +28 33.5 18.1 | -1.22 - 0.1 | 2.4/05.6  | 6194  |
| 1999 NP <sub>54</sub>  | 2000 12 05.1 | 04 47.49 +10 37.4 19.3 | -1.05 - 3.7 | 4.2/03.7  | 36091 |
| 1998 FS <sub>84</sub>  | 2000 12 05.1 | 04 47.51 +02 45.6 18.1 | -1.02 + 2.5 | 7.4/04.3  | 5466  |
| (11875)                | 2000 12 05.1 | 04 47.68 +16 28.0 16.5 | -0.91 + 2.0 | 1.8/04.8  | 36239 |
| 1999 JV <sub>34</sub>  | 2000 12 05.1 | 04 47.74 +12 46.4 17.1 | -1.06 -10.4 | 4.5/03.5  | 5542  |
| 1981 DP <sub>1</sub>   | 2000 12 05.1 | 04 47.76 +21 23.5 18.4 | -1.13 - 4.7 | 0.4/05.0  | 6179  |
| 1992 EH <sub>18</sub>  | 2000 12 05.2 | 04 47.82 +10 23.4 17.7 | -0.88 - 3.3 | 4.6/03.8  | 6185  |
| (18539)                | 2000 12 05.2 | 04 47.87 +20 55.9 15.9 | -0.95 - 4.3 | 0.7/05.0  | 5221  |
| 1999 RA <sub>103</sub> | 2000 12 05.2 | 04 48.01 +22 05.7 16.9 | -0.86 - 3.3 | 0.1/05.2  | 6245  |
| 1992 PN <sub>2</sub>   | 2000 12 05.2 | 04 48.06 +20 07.8 17.1 | -1.09 - 4.5 | 1.0/05.0  | 5394  |
| 1998 BC <sub>8</sub>   | 2000 12 05.2 | 04 48.06 +27 27.5 19.1 | -1.20 - 1.9 | 1.9/05.7  | 34216 |
| (12865)                | 2000 12 05.2 | 04 48.09 +12 07.0 17.8 | -0.83 - 2.8 | 3.1/04.1  | 37082 |
| (10547)                | 2000 12 05.2 | 04 48.15 +24 39.0 17.3 | -1.20 - 0.5 | 0.8/05.4  | 34448 |
| (18304)                | 2000 12 05.2 | 04 48.18 +27 39.0 16.3 | -0.95 - 4.4 | 2.0/06.0  | 5155  |
| (10578)                | 2000 12 05.2 | 04 48.19 +29 50.3 18.1 | -1.24 + 0.8 | 2.6/05.8  | 34457 |
| 1999 KS <sub>7</sub>   | 2000 12 05.2 | 04 48.22 +19 01.5 16.2 | -1.01 - 5.8 | 1.2/04.8  | 6238  |
| 1999 JE <sub>31</sub>  | 2000 12 05.2 | 04 48.28 +21 28.3 17.6 | -1.12 - 2.8 | 0.4/05.2  | 5541  |
| (10721)                | 2000 12 05.3 | 04 48.45 +34 32.5 16.3 | -1.31 - 1.1 | 5.7/07.0  | 34749 |
| 1999 RK <sub>149</sub> | 2000 12 05.3 | 04 48.47 +17 56.1 20.2 | -0.86 - 1.1 | 1.4/04.9  | 5609  |
| 1999 NL <sub>31</sub>  | 2000 12 05.3 | 04 48.51 +30 44.0 18.2 | -1.20 - 2.9 | 2.9/06.2  | 3918  |
| 1999 RQ <sub>231</sub> | 2000 12 05.3 | 04 48.57 +16 33.8 19.5 | -0.94 + 0.4 | 1.8/04.9  | 5622  |
| 1999 RR <sub>11</sub>  | 2000 12 05.3 | 04 48.60 +10 12.5 18.9 | -1.01 - 2.5 | 4.0/04.1  | 40355 |
| 1999 RQ <sub>61</sub>  | 2000 12 05.4 | 04 48.83 +26 31.9 18.9 | -1.14 - 1.7 | 1.5/05.8  | 287   |
| 1999 SU <sub>4</sub>   | 2000 12 05.4 | 04 48.90 +04 32.5 19.4 | -0.81 - 4.3 | 5.3/03.1  | 6254  |
| (18356)                | 2000 12 05.4 | 04 48.94 +23 42.3 16.3 | -0.96 - 3.5 | 0.5/05.6  | 5169  |
| 1998 FP <sub>65</sub>  | 2000 12 05.4 | 04 49.00 +15 06.3 18.7 | -0.92 - 3.0 | 2.3/04.6  | 3890  |
| 1999 RO <sub>72</sub>  | 2000 12 05.4 | 04 49.04 +19 30.1 18.6 | -0.92 - 0.9 | 0.9/05.2  | 3919  |
| 1998 FE <sub>125</sub> | 2000 12 05.4 | 04 49.15 +05 20.6 18.7 | -0.92 - 1.8 | 5.5/03.7  | 6211  |
| 1996 TA <sub>35</sub>  | 2000 12 05.5 | 04 49.14 +26 55.4 17.9 | -1.19 - 4.1 | 1.9/06.0  | 3877  |
| 1998 FD <sub>104</sub> | 2000 12 05.5 | 04 49.18 +05 59.3 19.2 | -0.88 - 3.7 | 4.7/03.5  | 37277 |
| 1999 RM <sub>174</sub> | 2000 12 05.5 | 04 49.27 +10 43.5 20.2 | -0.86 - 1.1 | 3.4/04.5  | 5613  |
| 2204 T-3               | 2000 12 05.5 | 04 49.27 +18 04.3 19.0 | -1.06 - 3.9 | 1.6/05.0  | 2805  |
| 2111 P-L               | 2000 12 05.5 | 04 49.29 +37 26.0 18.6 | -1.00 - 1.2 | 4.4/07.0  | 2578  |
| 2000 RB <sub>61</sub>  | 2000 12 05.5 | 04 49.34 +23 40.8 17.2 | -0.92 - 0.1 | 0.4/05.6  | 6329  |
| 1999 JG <sub>73</sub>  | 2000 12 05.5 | 04 49.43 +12 51.5 17.6 | -1.12 + 0.1 | 4.3/04.9  | 5564  |
| 1996 VG <sub>3</sub>   | 2000 12 05.6 | 04 49.76 +19 27.9 17.0 | -1.06 - 3.8 | 1.3/05.3  | 6195  |
| 1989 TZ <sub>11</sub>  | 2000 12 05.6 | 04 49.83 +23 44.6 16.6 | -1.35 + 4.0 | 12.4/27.0 | 6182  |
| (17727)                | 2000 12 05.6 | 04 49.87 +32 50.3 17.1 | -1.26 + 0.3 | 4.6/06.5  | 4134  |
| (19002)                | 2000 12 05.7 | 04 50.08 +22 46.3 17.6 | -1.17 + 1.9 | 0.1/05.7  | 5358  |
| 1998 FF <sub>26</sub>  | 2000 12 05.7 | 04 50.21 +23 57.8 18.5 | -1.16 - 1.5 | 0.6/05.9  | 3888  |
| 2000 RN <sub>62</sub>  | 2000 12 05.7 | 04 50.34 +12 31.9 17.5 | -0.92 - 5.9 | 3.5/04.3  | 6329  |
| 1999 LD <sub>4</sub>   | 2000 12 05.7 | 04 50.37 +10 37.8 17.9 | -1.03 - 0.9 | 4.9/04.8  | 6238  |
| 1999 NR <sub>60</sub>  | 2000 12 05.7 | 04 50.46 -01 28.7 16.7 | -0.94 + 0.1 | 9.7/04.0  | 6241  |
| (11551)                | 2000 12 05.7 | 04 50.49 +06 06.9 17.0 | -1.00 + 2.2 | 6.5/04.9  | 35845 |
| 1999 KU <sub>14</sub>  | 2000 12 05.8 | 04 50.53 +17 16.0 18.6 | -1.08 - 1.6 | 2.0/05.4  | 35044 |
| 2000 RA <sub>61</sub>  | 2000 12 05.8 | 04 50.53 +28 37.0 17.2 | -1.07 + 2.7 | 2.4/06.1  | 6329  |

|                        |              |                   |      |       |     |      |           |       |                        |              |                   |      |       |     |     |           |       |
|------------------------|--------------|-------------------|------|-------|-----|------|-----------|-------|------------------------|--------------|-------------------|------|-------|-----|-----|-----------|-------|
| 1999 TL <sub>21</sub>  | 2000 12 05.8 | 04 50.66 +22 09.5 | 18.5 | -0.89 | -   | 1.5  | 0.1/05.8  | 3921  | (12098)                | 2000 12 06.3 | 04 53.10 +16 24.7 | 16.6 | -0.94 | +   | 1.9 | 2.1/06.1  | 36300 |
| 1998 JS <sub>2</sub>   | 2000 12 05.8 | 04 50.66 +18 05.9 | 17.7 | -1.15 | +   | 1.4  | 1.8/05.6  | 6214  | 1998 OP <sub>12</sub>  | 2000 12 06.4 | 04 53.08 +21 44.4 | 19.9 | -0.85 | -   | 1.2 | 0.2/06.3  | 32757 |
| 1998 FH <sub>61</sub>  | 2000 12 05.8 | 04 50.71 +16 31.4 | 19.0 | -1.01 | -   | 2.5  | 2.1/05.2  | 6208  | 1999 RG <sub>71</sub>  | 2000 12 06.4 | 04 53.10 +36 34.0 | 17.3 | -1.06 | -   | 1.0 | 4.8/07.7  | 6244  |
| 1999 OA <sub>5</sub>   | 2000 12 05.8 | 04 50.88 +29 38.9 | 18.4 | -1.20 | -   | 3.9  | 2.9/06.7  | 2067  | 1998 FF <sub>69</sub>  | 2000 12 06.4 | 04 53.20 +20 57.6 | 18.8 | -1.11 | -   | 2.0 | 0.7/06.3  | 3216  |
| (17866)                | 2000 12 05.8 | 04 50.93 +25 25.6 | 17.9 | -1.07 | +   | 3.5  | 0.9/06.0  | 4176  | (18656)                | 2000 12 06.4 | 04 53.21 +33 59.3 | 16.9 | -1.21 | -   | 2.9 | 5.1/07.6  | 5255  |
| 1998 HM <sub>92</sub>  | 2000 12 05.9 | 04 50.97 +06 51.3 | 18.1 | -0.94 | -   | 5.0  | 5.7/03.8  | 6213  | (18861)                | 2000 12 06.4 | 04 53.24 +16 27.8 | 18.6 | -1.01 | 0.0 |     | 2.1/06.0  | 5317  |
| 2000 SF <sub>296</sub> | 2000 12 05.9 | 04 51.04 +14 45.8 | 16.6 | -1.16 | -   | 16.2 | 3.5/04.2  | 6078  | (11766)                | 2000 12 06.4 | 04 53.24 +30 01.1 | 17.0 | -0.96 | -   | 1.6 | 2.5/07.2  | 35901 |
| (18442)                | 2000 12 05.9 | 04 51.12 +24 30.1 | 17.3 | -0.96 | -   | 1.8  | 0.7/06.1  | 5193  | (18836)                | 2000 12 06.4 | 04 53.30 +23 23.3 | 17.8 | -1.18 | -   | 3.8 | 0.4/06.5  | 5309  |
| 1999 TU <sub>158</sub> | 2000 12 05.9 | 04 51.16 +19 10.5 | 18.6 | -0.92 | -   | 3.0  | 1.1/05.6  | 6256  | 1998 FQ <sub>63</sub>  | 2000 12 06.4 | 04 53.36 +26 30.0 | 18.2 | -1.03 | -   | 0.3 | 1.3/07.0  | 6208  |
| 1997 YQ <sub>11</sub>  | 2000 12 05.9 | 04 51.16 +19 53.4 | 18.4 | -1.16 | +   | 0.6  | 1.0/05.8  | 6200  | 1999 KX <sub>11</sub>  | 2000 12 06.4 | 04 53.38 +26 26.2 | 19.1 | -1.19 | -   | 2.3 | 1.4/07.0  | 35043 |
| 1998 HV <sub>87</sub>  | 2000 12 05.9 | 04 51.23 +15 54.1 | 18.7 | -0.88 | -   | 4.1  | 2.0/05.2  | 6213  | (19077)                | 2000 12 06.4 | 04 53.48 +15 23.5 | 17.8 | -1.07 | +   | 1.8 | 3.2/06.1  | 5379  |
| (18821)                | 2000 12 05.9 | 04 51.34 +18 46.2 | 17.6 | -0.92 | -   | 1.4  | 1.4/05.6  | 5305  | 1998 HO <sub>145</sub> | 2000 12 06.4 | 04 53.49 +16 28.4 | 18.7 | -1.02 | -   | 1.2 | 2.2/06.0  | 36083 |
| 1997 GZ <sub>24</sub>  | 2000 12 05.9 | 04 51.36 +01 34.9 | 18.8 | -0.80 | -   | 2.7  | 6.5/03.6  | 2626  | (18334)                | 2000 12 06.5 | 04 53.63 +16 26.8 | 17.6 | -1.03 | -   | 0.9 | 2.1/06.0  | 5163  |
| 1999 RU <sub>128</sub> | 2000 12 06.0 | 04 51.31 -03 12.2 | 19.1 | -0.84 | -   | 0.9  | 8.0/03.7  | 6247  | 1985 RX <sub>2</sub>   | 2000 12 06.5 | 04 53.68 +22 56.3 | 18.3 | -1.17 | -   | 1.1 | 10.0/27.0 | 6180  |
| 1981 EE <sub>31</sub>  | 2000 12 06.0 | 04 51.35 -08 45.4 | 19.4 | -1.01 | -   | 2.1  | 10.5/03.1 | 35415 | (10824)                | 2000 12 06.5 | 04 53.68 +26 20.7 | 16.7 | -1.29 | +   | 1.0 | 1.7/07.0  | 34776 |
| 1999 RQ <sub>104</sub> | 2000 12 06.0 | 04 51.38 +11 14.9 | 18.1 | -0.83 | -   | 3.2  | 3.6/04.7  | 6245  | 1999 JH <sub>57</sub>  | 2000 12 06.5 | 04 53.70 +18 15.1 | 18.2 | -1.11 | -   | 0.8 | 1.6/06.2  | 6232  |
| 1999 RH <sub>133</sub> | 2000 12 06.0 | 04 51.40 +24 39.7 | 18.4 | -0.98 | -   | 3.8  | 0.7/06.3  | 6247  | (12180)                | 2000 12 06.5 | 04 53.84 +09 16.8 | 18.8 | -0.83 | -   | 0.1 | 3.9/05.5  | 36323 |
| 1999 NL <sub>11</sub>  | 2000 12 06.0 | 04 51.43 +20 26.7 | 16.7 | -0.89 | -   | 1.3  | 0.8/05.8  | 6240  | (12598)                | 2000 12 06.5 | 04 53.84 +08 06.1 | 18.1 | -0.92 | -   | 0.9 | 5.1/05.3  | 36769 |
| (12125)                | 2000 12 06.0 | 04 51.43 +22 31.3 | 18.2 | -0.89 | -   | 1.4  | 0.0/06.0  | 36308 | 4218 P-L               | 2000 12 06.5 | 04 53.93 +28 15.1 | 19.1 | -1.02 | -   | 2.1 | 1.7/07.1  | 36579 |
| (14213)                | 2000 12 06.0 | 04 51.46 -15 49.0 | 17.2 | -0.89 | 0.0 |      | 13.0/02.5 | 39112 | 1999 RY <sub>105</sub> | 2000 12 06.6 | 04 54.00 +33 58.5 | 18.1 | -0.97 | -   | 4.5 | 3.5/08.1  | 6245  |
| 1998 HY <sub>44</sub>  | 2000 12 06.0 | 04 51.55 +22 37.3 | 18.1 | -1.00 | -   | 1.8  | 0.0/06.1  | 36082 | 1999 PP <sub>4</sub>   | 2000 12 06.6 | 04 54.26 +28 58.4 | 18.1 | -0.94 | -   | 0.2 | 1.9/07.2  | 6242  |
| 9085 P-L               | 2000 12 06.0 | 04 51.71 +29 14.1 | 19.1 | -1.30 | -   | 1.6  | 2.9/07.0  | 4021  | 1999 RY <sub>16</sub>  | 2000 12 06.6 | 04 54.38 +15 18.9 | 18.5 | -0.87 | -   | 2.5 | 2.3/05.9  | 5591  |
| (11752)                | 2000 12 06.0 | 04 51.73 +03 01.4 | 18.5 | -0.95 | +   | 0.3  | 6.3/04.7  | 35898 | 1998 EC <sub>9</sub>   | 2000 12 06.6 | 04 54.41 +20 43.2 | 18.7 | -1.02 | -   | 0.2 | 0.6/06.6  | 37275 |
| 1993 QH <sub>8</sub>   | 2000 12 06.0 | 04 51.75 +21 59.2 | 18.8 | -0.85 | -   | 0.8  | 0.1/06.0  | 6187  | 1999 SG <sub>16</sub>  | 2000 12 06.7 | 04 54.43 +16 37.4 | 18.0 | -0.86 | -   | 4.8 | 1.9/06.0  | 6254  |
| 1994 WU <sub>7</sub>   | 2000 12 06.1 | 04 51.76 +13 05.7 | 18.5 | -0.81 | -   | 0.9  | 2.7/05.3  | 36515 | 1995 PJ                | 2000 12 06.7 | 04 54.46 +29 08.2 | 20.0 | -1.11 | -   | 2.7 | 2.4/07.4  | 5410  |
| 1997 GN <sub>19</sub>  | 2000 12 06.1 | 04 51.95 -04 51.0 | 18.9 | -0.79 | -   | 4.5  | 8.7/02.5  | 6198  | 1999 JS <sub>27</sub>  | 2000 12 06.7 | 04 54.74 +21 08.9 | 19.3 | -1.11 | -   | 1.5 | 8.2/27.0  | 35736 |
| 1999 JM <sub>125</sub> | 2000 12 06.1 | 04 51.95 +24 17.9 | 18.2 | -1.16 | -   | 2.6  | 0.7/06.3  | 6237  | 1998 EY <sub>6</sub>   | 2000 12 06.7 | 04 54.75 +23 08.8 | 17.8 | -1.18 | -   | 2.5 | 10.5/17.0 | 1018  |
| 1998 CR <sub>1</sub>   | 2000 12 06.1 | 04 52.01 +14 24.0 | 18.6 | -1.00 | -   | 1.4  | 2.7/05.4  | 6202  | 1998 HF <sub>3</sub>   | 2000 12 06.8 | 04 54.85 +06 32.8 | 19.3 | -0.82 | -   | 2.5 | 4.7/05.2  | 6211  |
| 2000 RT <sub>51</sub>  | 2000 12 06.1 | 04 52.17 +16 27.8 | 17.5 | -0.95 | -   | 4.2  | 2.3/05.5  | 5912  | 1991 PL <sub>16</sub>  | 2000 12 06.8 | 04 55.06 +41 28.7 | 18.6 | -1.28 | -   | 1.5 | 6.5/08.8  | 4884  |
| 1993 DE <sub>1</sub>   | 2000 12 06.1 | 04 52.17 +33 54.8 | 17.5 | -1.11 | -   | 3.6  | 3.8/07.5  | 6186  | 2000 RO <sub>62</sub>  | 2000 12 06.8 | 04 55.11 +25 12.4 | 17.3 | -1.02 | +   | 0.4 | 0.9/07.0  | 5916  |
| (18391)                | 2000 12 06.1 | 04 52.20 +26 10.9 | 18.7 | -1.19 | -   | 2.9  | 1.4/07.0  | 5179  | 1999 RX <sub>14</sub>  | 2000 12 06.8 | 04 55.17 +26 29.4 | 18.3 | -0.95 | -   | 1.4 | 1.2/07.2  | 6243  |
| 2000 UG <sub>2</sub>   | 2000 12 06.1 | 04 52.21 +27 00.8 | 16.6 | -1.24 | +   | 9.6  | 2.2/06.1  | 6419  | (10511)                | 2000 12 06.8 | 04 55.28 +35 15.6 | 17.4 | -1.09 | -   | 1.0 | 4.0/08.0  | 35676 |
| 1999 RE <sub>82</sub>  | 2000 12 06.1 | 04 52.22 -00 02.7 | 18.7 | -0.78 | -   | 2.9  | 6.8/03.5  | 40361 | 1983 PM <sub>1</sub>   | 2000 12 06.8 | 04 55.29 +25 44.2 | 16.4 | -1.10 | -   | 5.3 | 1.2/07.3  | 6180  |
| (18852)                | 2000 12 06.1 | 04 52.25 +23 07.9 | 17.8 | -0.86 | -   | 1.1  | 0.2/06.3  | 5314  | (11858)                | 2000 12 06.9 | 04 55.25 +19 53.1 | 17.1 | -0.89 | -   | 0.8 | 1.0/06.7  | 36235 |
| 1998 HD <sub>29</sub>  | 2000 12 06.2 | 04 52.20 +10 47.1 | 18.6 | -0.95 | -   | 4.1  | 3.9/04.8  | 202   | 1995 UZ                | 2000 12 06.9 | 04 55.28 +25 54.4 | 18.5 | -1.04 | -   | 0.5 | 1.2/07.2  | 6191  |
| 1999 TZ <sub>219</sub> | 2000 12 06.2 | 04 52.20 +39 53.0 | 18.6 | -1.00 | -   | 1.2  | 4.7/07.9  | 1508  | 1981 EP <sub>47</sub>  | 2000 12 06.9 | 04 55.37 +05 49.5 | 18.2 | -0.84 | -   | 2.5 | 5.9/05.2  | 6180  |
| (10682)                | 2000 12 06.2 | 04 52.27 +21 02.9 | 17.6 | -1.21 | -   | 1.8  | 0.6/06.1  | 34739 | 1999 NU <sub>40</sub>  | 2000 12 06.9 | 04 55.39 +30 13.2 | 18.1 | -0.99 | -   | 1.2 | 2.5/07.6  | 1446  |
| (18816)                | 2000 12 06.2 | 04 52.35 +27 00.1 | 16.3 | -1.10 | -   | 6.2  | 1.8/07.0  | 5304  | 2000 RW <sub>61</sub>  | 2000 12 06.9 | 04 55.42 +21 34.9 | 17.3 | -0.95 | +   | 1.4 | 0.3/07.0  | 5915  |
| 1999 RP <sub>113</sub> | 2000 12 06.2 | 04 52.39 +34 30.1 | 17.7 | -1.02 | -   | 2.5  | 4.2/07.6  | 1455  | (11450)                | 2000 12 06.9 | 04 55.50 +09 33.0 | 17.3 | -1.11 | -   | 0.8 | 5.6/05.9  | 6177  |
| 1999 JD <sub>12</sub>  | 2000 12 06.2 | 04 52.39 -10 27.5 | 18.7 | -0.98 | -   | 2.0  | 10.6/03.2 | 6228  | 1998 FB <sub>30</sub>  | 2000 12 06.9 | 04 55.52 +14 01.5 | 17.3 | -1.02 | -   | 4.1 | 3.9/06.0  | 6206  |
| 1999 RN <sub>218</sub> | 2000 12 06.2 | 04 52.42 +04 57.3 | 19.2 | -0.88 | -   | 2.3  | 5.5/04.4  | 1108  | 1999 TQ <sub>59</sub>  | 2000 12 06.9 | 04 55.55 +08 07.4 | 20.2 | -0.85 | -   | 2.5 | 4.5/05.5  | 4527  |
| 1999 RZ <sub>213</sub> | 2000 12 06.2 | 04 52.59 +17 11.2 | 19.3 | -1.08 | -   | 1.6  | 1.9/05.8  | 4947  | 1996 TN <sub>35</sub>  | 2000 12 06.9 | 04 55.56 +19 40.4 | 18.4 | -1.12 | +   | 0.2 | 1.2/06.8  | 35697 |
| (18027)                | 2000 12 06.2 | 04 52.67 +12 59.3 | 16.5 | -1.08 | -   | 0.4  | 4.6/05.6  | 4224  | 1981 EO <sub>30</sub>  | 2000 12 06.9 | 04 55.63 +04 50.7 | 19.2 | -0.92 | -   | 1.9 | 5.6/05.3  | 36501 |
| 4134 T-1               | 2000 12 06.3 | 04 52.62 +17 34.7 | 17.4 | -1.01 | -   | 0.7  | 2.4/05.9  | 6439  | 1998 EX <sub>2</sub>   | 2000 12 06.9 | 04 55.67 +08 17.7 | 19.8 | -0.89 | -   | 2.7 | 4.4/05.5  | 36527 |
| (11451)                | 2000 12 06.3 | 04 52.69 +24 50.0 | 18.1 | -0.95 | -   | 1.5  | 0.7/06.5  | 35820 | 1999 MR                | 2000 12 06.9 | 04 55.71 +21 55.5 | 19.5 | -1.05 | -   | 0.2 | 8.2/27.0  | 36088 |
| 1996 TP <sub>1</sub>   | 2000 12 06.3 | 04 52.71 +28 58.2 | 16.8 | -1.13 | -   | 0.4  | 3.2/07.0  | 6194  | 1999 JV <sub>60</sub>  | 2000 12 06.9 | 04 55.74 +17 54.6 | 18.9 | -1.15 | -   | 1.2 | 1.9/06.6  | 5556  |
| (12490)                | 2000 12 06.3 | 04 52.82 +21 16.7 | 19.0 | -0.85 | -   | 1.3  | 0.4/06.2  | 36737 | 1998 FX <sub>90</sub>  | 2000 12 06.9 | 04 55.77 +28 23.9 | 17.8 | -1.20 | +   | 1.4 | 2.5/07.3  | 6209  |
| 1997 FB <sub>3</sub>   | 2000 12 06.3 | 04 52.95 +09 49.5 | 18.4 | -0.82 | -   | 2.9  | 3.9/04.9  | 40316 | 1999 NY <sub>41</sub>  | 2000 12 07.0 | 04 55.67 +48 58.9 | 17.7 | -1.22 | -   | 2.6 | 8.6/10.4  | 40353 |
| (17781)                | 2000 12 06.3 | 04 52.97 +19 12.5 | 17.2 | -1.08 | -   | 0.6  | 1.3/06.1  | 4150  | 1996 YT <sub>2</sub>   | 2000 12 07.0 | 04 55.71 +18 12.4 | 17.5 | -1.02 | -   | 1.9 | 2.0/06.6  | 6196  |
| 1997 EG <sub>16</sub>  | 2000 12 06.3 | 04 53.07 +20 21.7 | 20.2 | -0.92 | -   | 1.7  | 0.8/06.2  | 36524 | 1993 SD <sub>5</sub>   | 2000 12 07.0 | 04 55.94 +34 12.9 | 17.3 | -1.33 | -   | 1.6 | 5.3/08.1  | 6188  |
| 1996 TP <sub>39</sub>  | 2000 12 06.3 | 04 53.07 +17 12.8 | 17.7 | -1.02 | -   | 0.7  | 2.6/06.0  | 5420  | 1999 RU <sub>123</sub> | 2000 12 07.0 | 04 55.97 +13 19.9 | 19.3 | -0.89 | -   | 2.0 | 2.8/06.2  | 40365 |

|                        |              |                   |      |       |       |           |       |
|------------------------|--------------|-------------------|------|-------|-------|-----------|-------|
| (12724)                | 2000 12 07.0 | 04 55.99 +14 06.8 | 17.5 | -0.99 | - 2.5 | 2.8/06.2  | 37044 |
| 1999 NA <sub>7</sub>   | 2000 12 07.0 | 04 56.00 +17 16.3 | 17.0 | -1.10 | - 1.5 | 2.4/06.6  | 5583  |
| (11964)                | 2000 12 07.0 | 04 56.14 +20 51.8 | 18.5 | -0.92 | - 1.7 | 0.6/06.9  | 36263 |
| 1998 KE <sub>51</sub>  | 2000 12 07.0 | 04 56.18 +07 47.0 | 19.0 | -0.91 | - 4.0 | 4.9/05.3  | 6215  |
| (17865)                | 2000 12 07.1 | 04 56.15 +18 58.0 | 17.6 | -0.94 | - 1.4 | 1.3/06.8  | 4176  |
| 1999 RU <sub>55</sub>  | 2000 12 07.1 | 04 56.43 -08 56.4 | 19.4 | -0.99 | + 0.7 | 10.2/05.0 | 36107 |
| 1997 HO <sub>11</sub>  | 2000 12 07.1 | 04 56.53 +28 25.1 | 18.5 | -0.94 | - 0.3 | 2.0/07.6  | 3880  |
| 5192 T-2               | 2000 12 07.1 | 04 56.62 +62 26.0 | 18.6 | -2.23 | + 0.7 | 20.6/10.7 | 30776 |
| 1999 NU <sub>3</sub>   | 2000 12 07.2 | 04 56.54 +03 50.0 | 18.0 | -0.97 | + 1.3 | 6.4/06.2  | 36544 |
| 1995 SR                | 2000 12 07.2 | 04 56.65 -00 59.7 | 19.1 | -0.95 | - 5.4 | 7.1/04.3  | 37267 |
| 2000 RL <sub>11</sub>  | 2000 12 07.2 | 04 56.86 +16 03.6 | 17.3 | -1.17 | + 0.4 | 3.0/06.9  | 6317  |
| 1999 RS <sub>102</sub> | 2000 12 07.2 | 04 56.99 +25 51.9 | 18.2 | -0.92 | - 3.8 | 1.0/07.7  | 5600  |
| 1999 NN <sub>40</sub>  | 2000 12 07.2 | 04 57.05 +35 04.7 | 18.6 | -1.10 | - 2.5 | 4.1/08.6  | 1446  |
| 1993 FZ <sub>46</sub>  | 2000 12 07.3 | 04 57.01 +28 21.4 | 18.9 | -1.07 | - 0.9 | 2.2/07.8  | 1412  |
| 1999 RD <sub>156</sub> | 2000 12 07.3 | 04 57.03 +23 37.4 | 18.6 | -0.89 | - 2.2 | 0.3/07.4  | 40367 |
| 1998 FQ <sub>79</sub>  | 2000 12 07.3 | 04 57.13 +18 05.7 | 18.1 | -0.98 | + 0.1 | 1.6/07.0  | 6209  |
| 1998 GP <sub>9</sub>   | 2000 12 07.3 | 04 57.21 +24 53.9 | 18.4 | -1.19 | + 4.6 | 0.9/07.4  | 5473  |
| 1998 CK <sub>1</sub>   | 2000 12 07.3 | 04 57.26 +19 31.3 | 18.8 | -1.11 | 0.0   | 1.1/07.1  | 36526 |
| 1981 EB <sub>31</sub>  | 2000 12 07.3 | 04 57.30 +13 08.0 | 17.9 | -0.87 | - 1.4 | 3.1/06.5  | 36063 |
| (18789)                | 2000 12 07.3 | 04 57.34 +17 55.8 | 18.3 | -1.15 | - 0.7 | 1.8/07.0  | 5296  |
| 1998 HU <sub>125</sub> | 2000 12 07.3 | 04 57.44 +19 03.8 | 16.8 | -0.97 | + 2.3 | 1.2/07.2  | 6214  |
| 1999 JX <sub>58</sub>  | 2000 12 07.4 | 04 57.47 +22 35.6 | 17.9 | -1.22 | + 1.7 | 0.0/07.4  | 6232  |
| 1998 KF <sub>34</sub>  | 2000 12 07.4 | 04 57.48 +15 31.1 | 19.7 | -0.99 | - 1.9 | 2.5/06.8  | 1035  |
| (11126)                | 2000 12 07.4 | 04 57.51 +19 58.1 | 17.2 | -1.06 | + 2.4 | 1.0/07.3  | 35244 |
| 1998 AR <sub>4</sub>   | 2000 12 07.4 | 04 57.51 +31 35.5 | 18.7 | -1.22 | - 3.0 | 3.1/08.3  | 36526 |
| (18043)                | 2000 12 07.4 | 04 57.51 +19 31.6 | 18.2 | -0.94 | - 0.6 | 1.1/07.2  | 4228  |
| 1999 TM <sub>88</sub>  | 2000 12 07.4 | 04 57.63 +29 18.2 | 19.1 | -0.91 | - 1.5 | 1.9/08.1  | 3443  |
| (11710)                | 2000 12 07.4 | 04 57.92 +20 15.3 | 17.4 | -1.09 | - 0.2 | 1.0/07.3  | 6177  |
| (18565)                | 2000 12 07.4 | 04 57.93 +16 36.5 | 17.9 | -0.87 | - 2.4 | 2.1/06.9  | 5229  |
| 1999 RG <sub>145</sub> | 2000 12 07.5 | 04 57.89 +02 55.4 | 18.1 | -0.96 | - 3.1 | 7.2/05.3  | 40367 |
| 1999 RF <sub>64</sub>  | 2000 12 07.5 | 04 57.89 +36 59.8 | 18.8 | -1.05 | - 1.1 | 4.7/08.8  | 40360 |
| (12318)                | 2000 12 07.5 | 04 58.12 +07 13.0 | 18.2 | -0.85 | - 0.2 | 4.5/06.3  | 36691 |
| 1999 RT <sub>73</sub>  | 2000 12 07.5 | 04 58.15 +12 11.9 | 19.5 | -0.93 | - 1.7 | 3.3/06.6  | 36416 |
| 1978 VH <sub>4</sub>   | 2000 12 07.5 | 04 58.21 +21 22.5 | 17.8 | -1.09 | - 2.6 | 0.6/07.4  | 6178  |
| 2000 RG <sub>11</sub>  | 2000 12 07.5 | 04 58.21 +10 49.6 | 17.5 | -1.08 | - 5.7 | 5.4/06.2  | 5901  |
| (12149)                | 2000 12 07.5 | 04 58.25 +05 43.6 | 18.5 | -0.80 | - 2.0 | 4.9/06.0  | 36315 |
| 1996 TS <sub>11</sub>  | 2000 12 07.5 | 04 58.27 +26 03.1 | 19.1 | -1.21 | - 1.5 | 1.3/07.9  | 35070 |
| 1998 FB <sub>114</sub> | 2000 12 07.5 | 04 58.34 +08 55.3 | 18.7 | -0.93 | - 4.6 | 4.5/06.0  | 36896 |
| 1998 KO <sub>15</sub>  | 2000 12 07.6 | 04 58.39 +32 01.1 | 17.9 | -1.25 | + 5.7 | 4.1/07.7  | 6214  |
| 1998 KU <sub>51</sub>  | 2000 12 07.6 | 04 58.40 +08 05.5 | 18.3 | -0.85 | + 0.4 | 4.4/06.7  | 6215  |
| 1994 PV <sub>15</sub>  | 2000 12 07.6 | 04 58.53 +12 54.5 | 17.7 | -0.89 | - 1.3 | 3.5/06.8  | 40305 |
| 1981 EG <sub>47</sub>  | 2000 12 07.6 | 04 58.67 +22 02.9 | 19.1 | -1.02 | - 2.3 | 0.2/07.6  | 1404  |
| 1999 RU <sub>59</sub>  | 2000 12 07.6 | 04 58.68 +32 06.1 | 17.6 | -0.99 | - 0.9 | 3.3/08.5  | 6244  |
| 1999 RS <sub>152</sub> | 2000 12 07.6 | 04 58.74 +06 50.7 | 17.3 | -0.83 | - 2.2 | 5.3/06.2  | 5610  |
| (18628)                | 2000 12 07.6 | 04 58.79 +16 50.4 | 17.3 | -1.15 | + 0.8 | 2.6/07.3  | 5247  |
| 1998 BS <sub>4</sub>   | 2000 12 07.6 | 04 58.79 +27 22.8 | 18.2 | -1.21 | - 4.1 | 1.9/08.2  | 3884  |
| 1996 XH <sub>19</sub>  | 2000 12 07.7 | 04 58.81 +13 07.0 | 17.5 | -1.04 | + 2.7 | 3.3/07.3  | 6196  |
| 1998 HN <sub>148</sub> | 2000 12 07.7 | 04 58.85 +19 44.8 | 18.6 | -0.91 | - 1.4 | 0.9/07.5  | 3894  |
| (17868)                | 2000 12 07.7 | 04 58.91 +19 34.2 | 17.1 | -0.87 | - 4.2 | 1.0/07.4  | 4177  |
| 1999 JJ <sub>111</sub> | 2000 12 07.7 | 04 58.91 +15 01.3 | 18.3 | -1.12 | + 0.1 | 3.2/07.3  | 6237  |
| 1999 SP <sub>18</sub>  | 2000 12 07.7 | 04 59.04 +31 08.3 | 17.9 | -0.98 | + 1.6 | 2.6/08.2  | 6254  |

|                        |              |                   |      |       |       |           |       |
|------------------------|--------------|-------------------|------|-------|-------|-----------|-------|
| (16086)                | 2000 12 07.7 | 04 59.05 +20 48.6 | 17.7 | -0.88 | - 1.2 | 0.6/07.6  | 1784  |
| 1998 FO <sub>34</sub>  | 2000 12 07.7 | 04 59.06 +45 48.6 | 17.0 | -1.44 | - 0.6 | 10.1/09.6 | 6207  |
| 1999 LL                | 2000 12 07.7 | 04 59.13 +14 25.1 | 19.7 | -1.02 | - 6.0 | 2.9/06.7  | 35737 |
| (11558)                | 2000 12 07.7 | 04 59.15 +24 51.6 | 18.0 | -1.01 | - 0.2 | 0.7/07.9  | 35847 |
| 2000 RH <sub>11</sub>  | 2000 12 07.7 | 04 59.26 +25 07.6 | 17.3 | -1.14 | + 1.2 | 1.0/07.9  | 6317  |
| 1998 DL <sub>15</sub>  | 2000 12 07.8 | 04 59.26 +34 54.7 | 16.6 | -1.27 | + 0.5 | 5.7/08.6  | 6204  |
| 1998 HA <sub>116</sub> | 2000 12 07.8 | 04 59.34 +02 27.5 | 16.8 | -0.97 | - 2.2 | 8.8/05.8  | 6213  |
| 1994 CS <sub>13</sub>  | 2000 12 07.8 | 04 59.44 +40 18.6 | 16.5 | -1.34 | - 0.5 | 7.8/09.4  | 6189  |
| 2000 RF <sub>54</sub>  | 2000 12 07.8 | 04 59.49 +11 58.4 | 17.2 | -0.85 | - 6.5 | 4.4/06.4  | 6328  |
| (12590)                | 2000 12 07.8 | 04 59.50 +15 56.5 | 17.5 | -0.93 | - 2.0 | 2.3/07.3  | 36766 |
| (14673)                | 2000 12 07.8 | 04 59.52 +21 20.3 | 17.3 | -0.90 | - 2.4 | 0.5/07.7  | 39897 |
| 1999 RJ <sub>165</sub> | 2000 12 07.8 | 04 59.55 +19 31.4 | 19.8 | -0.87 | - 1.7 | 0.9/07.6  | 1103  |
| 1999 NE <sub>48</sub>  | 2000 12 07.9 | 04 59.65 +02 58.6 | 17.5 | -0.96 | + 1.2 | 6.8/07.0  | 6241  |
| 6191 P-L               | 2000 12 07.9 | 04 59.70 +19 02.1 | 19.9 | -0.87 | - 2.2 | 1.1/07.6  | 2802  |
| 1999 SX <sub>25</sub>  | 2000 12 07.9 | 04 59.71 +21 13.2 | 17.6 | -1.03 | - 5.4 | 0.5/07.7  | 6254  |
| 1981 EV <sub>31</sub>  | 2000 12 07.9 | 04 59.75 +12 34.7 | 17.3 | -1.04 | - 1.4 | 5.0/07.1  | 6180  |
| (18229)                | 2000 12 07.9 | 04 59.76 +21 31.8 | 17.9 | -1.26 | - 2.5 | 0.5/07.8  | 4281  |
| 1999 RG <sub>55</sub>  | 2000 12 07.9 | 04 59.90 +21 13.5 | 18.0 | -0.90 | - 1.3 | 0.5/07.8  | 3919  |
| (12150)                | 2000 12 07.9 | 04 59.97 +38 20.3 | 16.6 | -1.08 | - 0.6 | 5.2/09.2  | 4878  |
| 1998 DA <sub>2</sub>   | 2000 12 07.9 | 05 00.03 +30 31.2 | 18.3 | -1.25 | - 0.5 | 2.9/08.5  | 3885  |
| 2000 RM <sub>11</sub>  | 2000 12 07.9 | 05 00.07 +11 45.2 | 17.0 | -1.04 | - 2.0 | 4.7/07.1  | 6317  |
| 1991 PD <sub>13</sub>  | 2000 12 07.9 | 05 00.14 +27 12.2 | 18.5 | -1.12 | - 1.7 | 1.7/08.4  | 40297 |
| 1998 EK <sub>8</sub>   | 2000 12 08.0 | 05 00.10 +26 04.6 | 17.2 | -1.15 | - 3.9 | 1.3/08.4  | 6205  |
| 1999 RF <sub>102</sub> | 2000 12 08.0 | 05 00.11 +36 08.1 | 16.6 | -1.05 | - 5.5 | 4.8/09.8  | 6245  |
| 1997 YD <sub>2</sub>   | 2000 12 08.0 | 05 00.16 +26 47.0 | 17.0 | -1.24 | - 3.9 | 1.8/08.4  | 3882  |
| 1998 HC <sub>24</sub>  | 2000 12 08.0 | 05 00.23 +18 26.7 | 18.0 | -1.04 | - 0.1 | 1.7/07.7  | 5476  |
| 1999 TX <sub>258</sub> | 2000 12 08.0 | 05 00.23 +24 19.2 | 19.4 | -0.85 | - 0.9 | 0.4/08.2  | 5641  |
| 1999 NQ <sub>4</sub>   | 2000 12 08.0 | 05 00.26 +22 50.0 | 18.4 | -0.99 | - 0.7 | 0.0/08.0  | 35739 |
| 1997 AE <sub>1</sub>   | 2000 12 08.0 | 05 00.28 +35 37.5 | 18.0 | -1.14 | - 4.5 | 4.9/09.5  | 6196  |
| 1999 TG <sub>90</sub>  | 2000 12 08.0 | 05 00.35 +25 50.2 | 19.0 | -0.94 | - 1.0 | 0.9/08.3  | 1126  |
| 1996 XJ <sub>18</sub>  | 2000 12 08.0 | 05 00.38 +08 57.9 | 20.8 | -0.94 | + 0.9 | 4.5/07.2  | 30786 |
| 1991 RV <sub>2</sub>   | 2000 12 08.0 | 05 00.53 +24 42.0 | 19.0 | -1.05 | - 2.4 | 0.6/08.3  | 6184  |
| 1999 RK <sub>76</sub>  | 2000 12 08.0 | 05 00.53 +14 46.8 | 19.4 | -0.99 | - 1.8 | 2.7/07.4  | 40361 |
| 1998 HS <sub>98</sub>  | 2000 12 08.0 | 05 00.56 +15 47.5 | 19.7 | -0.93 | - 2.5 | 2.1/07.4  | 206   |
| 1998 HU <sub>33</sub>  | 2000 12 08.1 | 05 00.54 +29 20.3 | 19.3 | -1.08 | - 1.0 | 2.2/08.6  | 3892  |
| 1999 NS <sub>49</sub>  | 2000 12 08.1 | 05 00.66 -00 41.5 | 16.8 | -0.86 | + 2.6 | 9.7/07.2  | 6241  |
| 1999 RE <sub>229</sub> | 2000 12 08.1 | 05 00.72 +28 02.6 | 19.9 | -1.05 | - 5.3 | 1.6/08.8  | 6253  |
| 1981 EQ <sub>39</sub>  | 2000 12 08.1 | 05 00.84 +22 34.5 | 20.0 | -0.90 | - 1.4 | 0.0/08.2  | 29910 |
| 2000 QL <sub>217</sub> | 2000 12 08.1 | 05 00.86 +21 59.2 | 17.4 | -0.94 | - 6.6 | 0.2/08.1  | 6313  |
| 1998 HV <sub>6</sub>   | 2000 12 08.1 | 05 00.87 +18 00.4 | 18.3 | -1.01 | - 2.9 | 1.6/07.7  | 36532 |
| 4302 P-L               | 2000 12 08.1 | 05 00.90 +20 25.4 | 18.1 | -0.87 | - 2.2 | 0.7/08.0  | 1381  |
| 1999 RB <sub>47</sub>  | 2000 12 08.1 | 05 00.91 +30 23.7 | 18.4 | -1.04 | - 0.8 | 2.6/08.8  | 3919  |
| 1999 JC <sub>72</sub>  | 2000 12 08.2 | 05 00.97 +15 37.2 | 17.9 | -1.18 | + 0.6 | 3.2/07.8  | 6234  |
| 1999 RE <sub>18</sub>  | 2000 12 08.2 | 05 01.07 +09 34.5 | 19.0 | -0.91 | - 1.4 | 4.1/07.1  | 40355 |
| (18698)                | 2000 12 08.2 | 05 01.31 +24 55.2 | 17.9 | -1.13 | 0.0   | 0.9/08.4  | 5268  |
| 1999 SY <sub>3</sub>   | 2000 12 08.2 | 05 01.40 +23 27.5 | 18.7 | -0.85 | - 1.2 | 0.2/08.4  | 6254  |
| 2000 RQ <sub>52</sub>  | 2000 12 08.3 | 05 01.38 +24 40.9 | 17.5 | -1.10 | + 0.3 | 0.9/08.4  | 5912  |
| 1999 NF <sub>61</sub>  | 2000 12 08.3 | 05 01.72 +23 30.7 | 19.0 | -1.04 | - 5.3 | 0.3/08.5  | 4509  |
| 1999 JE <sub>52</sub>  | 2000 12 08.3 | 05 01.87 +26 07.0 | 18.9 | -1.24 | - 2.1 | 1.3/08.7  | 35004 |
| 1996 VU <sub>29</sub>  | 2000 12 08.3 | 05 01.89 +16 27.8 | 17.1 | -1.09 | - 2.5 | 2.6/07.9  | 6195  |
| 1998 FS <sub>49</sub>  | 2000 12 08.4 | 05 01.80 +26 54.5 | 18.8 | -1.14 | - 1.2 | 1.5/08.7  | 6207  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1999 SH <sub>22</sub>  | 2000 12 08.4 | 05 01.81 +15 43.4 20.1 | -0.98 - 1.4 | 2.2/07.9  | 2105  |
| 1999 JG <sub>23</sub>  | 2000 12 08.4 | 05 01.91 +17 02.1 18.9 | -1.14 - 2.3 | 2.2/08.0  | 4458  |
| 6834 P-L               | 2000 12 08.4 | 05 01.92 +26 10.7 19.2 | -0.89 - 0.9 | 0.9/08.7  | 3841  |
| 1998 FW <sub>98</sub>  | 2000 12 08.4 | 05 01.97 +20 39.0 17.9 | -1.09 - 4.4 | 0.9/08.2  | 6210  |
| 1998 EG <sub>14</sub>  | 2000 12 08.4 | 05 02.05 +16 51.1 15.3 | -0.87 + 2.1 | 3.5/08.2  | 6205  |
| (18351)                | 2000 12 08.4 | 05 02.07 +37 14.0 16.8 | -1.14 - 1.8 | 5.8/09.8  | 5168  |
| 1999 NN <sub>11</sub>  | 2000 12 08.4 | 05 02.08 +16 37.7 18.8 | -1.11 - 0.5 | 2.3/08.0  | 36012 |
| (11943)                | 2000 12 08.4 | 05 02.10 +31 52.2 16.9 | -0.98 - 2.9 | 2.8/09.4  | 36257 |
| (17446)                | 2000 12 08.4 | 05 02.11 +14 41.3 16.7 | -1.04 - 3.3 | 3.3/07.7  | 4053  |
| (11059)                | 2000 12 08.4 | 05 02.14 +00 58.2 17.6 | -0.95 - 1.3 | 7.5/06.9  | 35227 |
| (12148)                | 2000 12 08.4 | 05 02.15 +19 05.1 17.7 | -0.94 - 0.4 | 1.3/08.2  | 36314 |
| 1999 RD <sub>192</sub> | 2000 12 08.4 | 05 02.16 +21 32.4 17.6 | -1.02 0.0   | 0.4/08.4  | 6252  |
| (17948)                | 2000 12 08.4 | 05 02.17 +14 43.9 17.6 | -1.08 - 1.0 | 3.0/07.9  | 4200  |
| (19003)                | 2000 12 08.4 | 05 02.18 +17 43.7 17.7 | -0.94 - 2.1 | 1.9/08.0  | 5358  |
| (17853)                | 2000 12 08.4 | 05 02.27 +15 57.8 18.1 | -0.88 0.0   | 2.1/08.1  | 4172  |
| 1998 DP <sub>13</sub>  | 2000 12 08.5 | 05 02.32 +61 01.3 20.4 | -1.73 - 1.4 | 10.0/12.7 | 36526 |
| 2000 RY <sub>51</sub>  | 2000 12 08.5 | 05 02.33 +17 33.3 18.5 | -0.87 - 1.8 | 1.7/08.1  | 6327  |
| 1998 KY <sub>49</sub>  | 2000 12 08.5 | 05 02.35 +09 52.6 18.3 | -0.88 + 0.7 | 4.2/07.8  | 6215  |
| 1999 OT                | 2000 12 08.5 | 05 02.38 +03 36.9 19.9 | -0.84 + 0.4 | 6.3/07.4  | 36547 |
| 2000 RV <sub>8</sub>   | 2000 12 08.5 | 05 02.48 +27 25.2 16.7 | -1.08 + 3.1 | 1.9/08.7  | 6316  |
| (13695)                | 2000 12 08.5 | 05 02.57 +38 02.9 18.2 | -1.18 - 0.4 | 4.9/09.7  | 6178  |
| (17985)                | 2000 12 08.5 | 05 02.63 +27 11.8 17.3 | -1.28 + 0.7 | 1.7/08.8  | 4212  |
| 1999 NA                | 2000 12 08.6 | 05 02.67 +17 48.6 16.1 | -1.10 + 5.8 | 2.2/08.6  | 6239  |
| 1999 TD <sub>144</sub> | 2000 12 08.6 | 05 02.71 +35 56.9 17.8 | -1.06 + 0.6 | 4.1/09.4  | 6256  |
| 2000 RU <sub>8</sub>   | 2000 12 08.6 | 05 02.71 +21 07.7 17.2 | -1.15 + 2.9 | 0.8/08.6  | 5900  |
| 1998 MS <sub>29</sub>  | 2000 12 08.6 | 05 02.75 +16 46.2 18.3 | -0.83 - 0.2 | 1.7/08.2  | 6216  |
| 2000 RA <sub>49</sub>  | 2000 12 08.6 | 05 02.84 +15 58.4 17.8 | -0.98 - 4.3 | 2.7/07.9  | 5909  |
| 1998 FN <sub>71</sub>  | 2000 12 08.6 | 05 02.99 +36 08.1 18.4 | -1.29 + 0.6 | 5.1/09.4  | 32323 |
| (11368)                | 2000 12 08.6 | 05 03.03 +10 57.3 17.7 | -0.92 + 0.4 | 3.7/08.0  | 35582 |
| 1998 KN <sub>42</sub>  | 2000 12 08.6 | 05 03.03 +15 49.7 17.3 | -0.94 + 2.2 | 2.2/08.4  | 5488  |
| (16065)                | 2000 12 08.6 | 05 03.05 +24 15.5 18.8 | -1.04 - 0.3 | 0.5/08.8  | 1778  |
| 1981 EC <sub>32</sub>  | 2000 12 08.7 | 05 03.15 +23 38.8 18.0 | -0.91 - 3.6 | 0.3/08.8  | 963   |
| 1998 EV <sub>1</sub>   | 2000 12 08.7 | 05 03.18 +25 39.4 17.6 | -1.04 - 0.9 | 1.0/08.9  | 6204  |
| 4076 T-3               | 2000 12 08.7 | 05 03.25 +18 42.4 19.2 | -0.83 - 0.8 | 1.1/08.4  | 3851  |
| 1998 HX <sub>112</sub> | 2000 12 08.7 | 05 03.30 +05 06.7 18.9 | -0.95 - 1.6 | 6.1/07.2  | 35988 |
| (18977)                | 2000 12 08.7 | 05 03.36 +35 28.5 17.0 | -1.25 + 2.1 | 4.5/09.3  | 5350  |
| (11600)                | 2000 12 08.7 | 05 03.37 +23 11.2 18.9 | -1.01 - 4.3 | 0.1/08.8  | 35858 |
| (18564)                | 2000 12 08.7 | 05 03.40 +22 51.6 17.9 | -0.90 - 1.2 | 0.0/08.8  | 5229  |
| 2000 QX <sub>182</sub> | 2000 12 08.7 | 05 03.47 +14 57.8 16.6 | -0.99 - 0.7 | 3.6/08.2  | 6309  |
| (11339)                | 2000 12 08.7 | 05 03.51 +21 02.8 17.5 | -1.11 + 0.8 | 0.7/08.7  | 35575 |
| 1996 TH <sub>48</sub>  | 2000 12 08.7 | 05 03.52 +24 48.0 16.6 | -1.13 - 2.5 | 0.9/08.9  | 4894  |
| 1999 JH <sub>50</sub>  | 2000 12 08.7 | 05 03.56 +16 11.7 17.9 | -1.15 + 1.1 | 3.0/08.5  | 5549  |
| 1999 NF <sub>10</sub>  | 2000 12 08.8 | 05 03.56 +22 01.8 18.7 | -0.90 - 1.0 | 0.2/08.7  | 36545 |
| 1999 PW <sub>4</sub>   | 2000 12 08.8 | 05 03.59 -00 26.3 19.1 | -0.93 - 0.6 | 7.9/07.2  | 4945  |
| 1998 FP <sub>10</sub>  | 2000 12 08.8 | 05 03.63 +40 41.9 20.3 | -1.18 - 0.8 | 5.4/10.2  | 40322 |
| (19038)                | 2000 12 08.8 | 05 03.66 +19 31.5 18.2 | -0.93 - 1.1 | 1.1/08.6  | 5368  |
| 1999 GU <sub>8</sub>   | 2000 12 08.8 | 05 03.74 +24 58.6 18.6 | -1.29 + 1.1 | 0.9/08.9  | 3333  |
| 2000 QH <sub>217</sub> | 2000 12 08.8 | 05 03.88 +35 55.9 17.3 | -1.09 + 3.0 | 4.3/09.3  | 6313  |
| (18729)                | 2000 12 08.8 | 05 03.90 +20 33.7 18.6 | -0.93 - 0.3 | 0.7/08.7  | 5277  |
| 1990 OZ                | 2000 12 08.8 | 05 03.93 +04 45.1 18.8 | -0.90 - 1.9 | 5.7/07.4  | 6182  |
| 1996 SH <sub>7</sub>   | 2000 12 08.8 | 05 03.94 +26 06.3 17.6 | -1.20 - 0.8 | 1.3/09.1  | 6194  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1999 SN <sub>10</sub>  | 2000 12 08.8 | 05 04.00 +28 45.0 17.1 | -1.05 + 2.6 | 2.2/09.1  | 6254  |
| 1991 NG <sub>3</sub>   | 2000 12 08.9 | 05 04.08 +26 14.9 16.4 | -1.12 - 6.4 | 1.3/09.4  | 6184  |
| (18053)                | 2000 12 08.9 | 05 04.10 +13 56.6 17.3 | -0.94 - 4.7 | 3.0/07.9  | 4231  |
| 1995 YN                | 2000 12 08.9 | 05 04.16 +12 09.0 16.3 | -0.95 + 4.0 | 3.8/08.7  | 6192  |
| 2000 RP <sub>38</sub>  | 2000 12 08.9 | 05 04.24 +28 33.3 16.4 | -1.22 + 1.9 | 2.6/09.2  | 6324  |
| 1995 TF <sub>1</sub>   | 2000 12 08.9 | 05 04.25 +16 36.9 17.9 | -1.01 - 5.1 | 2.1/08.3  | 3874  |
| 1998 FU <sub>133</sub> | 2000 12 08.9 | 05 04.32 +05 20.5 19.3 | -0.90 - 1.9 | 5.5/07.5  | 1427  |
| (11288)                | 2000 12 08.9 | 05 04.37 +08 45.6 16.7 | -0.89 + 1.3 | 5.1/08.3  | 6177  |
| 1999 NA <sub>8</sub>   | 2000 12 08.9 | 05 04.39 +20 58.9 19.2 | -1.12 - 1.5 | 0.7/08.8  | 40353 |
| 1999 TK <sub>113</sub> | 2000 12 08.9 | 05 04.46 +65 03.1 18.8 | -1.99 + 1.3 | 12.5/11.4 | 2663  |
| 1999 RB <sub>9</sub>   | 2000 12 09.0 | 05 04.50 +31 57.8 20.0 | -1.01 - 1.2 | 2.9/09.7  | 36386 |
| 1998 BH <sub>36</sub>  | 2000 12 09.0 | 05 04.73 +23 28.4 18.2 | -1.23 + 2.1 | 0.3/09.1  | 6202  |
| 1999 LA <sub>35</sub>  | 2000 12 09.0 | 05 04.77 +18 07.8 18.8 | -1.13 - 0.9 | 2.1/08.8  | 5582  |
| 1996 TC <sub>8</sub>   | 2000 12 09.0 | 05 04.83 +20 09.9 18.4 | -1.14 - 2.0 | 1.0/08.9  | 36520 |
| 1999 RL <sub>240</sub> | 2000 12 09.0 | 05 04.84 +14 33.3 17.5 | -0.89 + 1.3 | 2.4/08.7  | 6253  |
| 1999 RL <sub>65</sub>  | 2000 12 09.1 | 05 04.88 +21 49.9 19.4 | -0.96 - 2.2 | 0.3/09.0  | 2651  |
| 1998 HV <sub>129</sub> | 2000 12 09.1 | 05 05.03 +26 36.5 18.8 | -1.21 - 0.8 | 1.7/09.4  | 32330 |
| 1981 EK <sub>30</sub>  | 2000 12 09.1 | 05 05.08 +23 42.8 19.1 | -1.16 - 4.0 | 0.3/09.2  | 2612  |
| (11229)                | 2000 12 09.1 | 05 05.19 +20 45.7 16.9 | -1.20 + 0.7 | 1.0/09.1  | 35270 |
| 1981 EK <sub>28</sub>  | 2000 12 09.1 | 05 05.20 +46 40.0 20.5 | -1.37 - 0.3 | 9.3/10.7  | 26920 |
| (12096)                | 2000 12 09.1 | 05 05.28 +04 56.2 17.4 | -0.98 + 1.0 | 6.1/08.2  | 36300 |
| 1998 KT <sub>51</sub>  | 2000 12 09.1 | 05 05.38 +05 56.0 18.4 | -0.92 - 1.4 | 5.7/07.8  | 36536 |
| (12507)                | 2000 12 09.2 | 05 05.32 +25 02.2 17.8 | -0.98 - 2.9 | 0.7/09.4  | 36742 |
| 1998 FH <sub>67</sub>  | 2000 12 09.2 | 05 05.36 +31 52.9 18.9 | -1.20 + 0.9 | 3.5/09.7  | 5463  |
| 1998 HJ <sub>54</sub>  | 2000 12 09.2 | 05 05.36 +14 47.3 18.6 | -0.93 - 2.9 | 2.6/08.5  | 36897 |
| 1997 AK <sub>22</sub>  | 2000 12 09.2 | 05 05.50 +09 16.4 19.4 | -0.93 + 1.1 | 4.2/08.5  | 35698 |
| 1999 RF <sub>201</sub> | 2000 12 09.2 | 05 05.59 +29 01.6 19.4 | -1.05 - 3.8 | 1.9/09.9  | 5617  |
| 1999 OE <sub>2</sub>   | 2000 12 09.2 | 05 05.67 +18 54.2 17.7 | -0.85 - 4.6 | 1.1/08.8  | 6242  |
| 1999 JK <sub>52</sub>  | 2000 12 09.2 | 05 05.68 +26 29.0 17.6 | -1.27 - 2.6 | 1.5/09.6  | 6232  |
| (17756)                | 2000 12 09.2 | 05 05.68 +15 08.6 17.6 | -1.00 - 5.4 | 2.8/08.4  | 4142  |
| 1999 NL <sub>39</sub>  | 2000 12 09.2 | 05 05.70 +29 10.5 19.1 | -1.20 - 1.9 | 2.3/09.8  | 3918  |
| (17851)                | 2000 12 09.2 | 05 05.74 +23 41.6 17.1 | -1.14 - 0.2 | 0.3/09.3  | 4172  |
| 1999 JA <sub>27</sub>  | 2000 12 09.2 | 05 05.75 +18 50.2 18.0 | -1.16 - 1.4 | 1.7/09.0  | 6229  |
| 2000 RK <sub>9</sub>   | 2000 12 09.3 | 05 05.77 +22 10.0 16.1 | -1.11 + 3.9 | 0.3/09.3  | 6316  |
| 1996 XO <sub>19</sub>  | 2000 12 09.3 | 05 05.80 +15 50.4 16.6 | -0.99 + 0.5 | 3.2/08.9  | 4895  |
| (12102)                | 2000 12 09.3 | 05 05.85 +10 01.0 18.1 | -0.92 - 3.5 | 4.1/08.0  | 3860  |
| 1998 EV <sub>13</sub>  | 2000 12 09.3 | 05 06.04 +26 22.5 18.2 | -1.21 - 0.1 | 1.5/09.6  | 32316 |
| 1996 TY <sub>8</sub>   | 2000 12 09.3 | 05 06.07 -02 40.3 17.5 | -1.03 -16.6 | 12.6/03.7 | 28864 |
| 1993 RX <sub>13</sub>  | 2000 12 09.4 | 05 06.37 +24 24.4 18.5 | -0.87 - 1.1 | 0.4/09.6  | 980   |
| 1998 HH <sub>20</sub>  | 2000 12 09.4 | 05 06.44 +03 01.8 19.5 | -0.98 - 4.0 | 7.1/07.3  | 1938  |
| (18838)                | 2000 12 09.4 | 05 06.45 +21 33.0 17.9 | -0.96 - 1.6 | 0.5/09.3  | 5310  |
| 1999 GX <sub>19</sub>  | 2000 12 09.4 | 05 06.45 +15 28.8 19.0 | -1.16 - 1.7 | 2.8/08.9  | 5526  |
| 1999 RD <sub>22</sub>  | 2000 12 09.4 | 05 06.47 +21 28.2 17.4 | -0.90 - 0.6 | 0.4/09.4  | 3918  |
| (10710)                | 2000 12 09.4 | 05 06.62 +23 42.3 16.0 | -1.23 + 1.9 | 0.4/09.5  | 34747 |
| 1998 FB <sub>14</sub>  | 2000 12 09.4 | 05 06.63 +05 01.0 18.4 | -0.91 - 0.9 | 5.6/08.3  | 37276 |
| 1981 EG <sub>3</sub>   | 2000 12 09.5 | 05 06.76 +25 53.5 17.7 | -0.92 - 3.4 | 0.9/09.8  | 36501 |
| 1998 AF <sub>6</sub>   | 2000 12 09.5 | 05 06.95 +10 36.1 18.4 | -1.08 - 0.9 | 5.2/08.7  | 32314 |
| 1998 HP <sub>64</sub>  | 2000 12 09.5 | 05 07.05 +18 45.7 19.7 | -0.98 - 1.8 | 1.3/09.3  | 38050 |
| 2317 T-3               | 2000 12 09.5 | 05 07.13 +27 48.3 17.8 | -1.16 - 0.9 | 2.1/09.9  | 32293 |
| 1999 RK <sub>49</sub>  | 2000 12 09.6 | 05 07.13 +40 43.6 19.5 | -1.20 - 2.2 | 5.8/11.3  | 2077  |
| 1998 HV <sub>88</sub>  | 2000 12 09.6 | 05 07.18 +32 03.0 19.9 | -1.09 + 0.5 | 3.0/10.1  | 3234  |

2000 NOV. 11

M.P.C. 41613

1999 PU<sub>1</sub> 2000 12 09.6 05 07.20 +37 42.4 18.2 -1.07 - 1.3 5.0/10.8 40353  
 2000 QL<sub>182</sub> 2000 12 09.6 05 07.36 +17 55.7 18.0 -1.03 - 5.4 1.9/09.1 5886  
 1998 KC<sub>9</sub> 2000 12 09.6 05 07.39 +01 56.8 19.3 -0.78 - 1.5 5.5/08.0 36535  
 1999 RM<sub>108</sub> 2000 12 09.6 05 07.39 +28 27.3 18.2 -0.96 - 3.3 1.8/10.2 40364  
 1998 FJ<sub>42</sub> 2000 12 09.6 05 07.45 +22 41.0 18.2 -1.15 - 2.4 0.1/09.7 36528  
 (18407) 2000 12 09.7 05 07.50 +12 40.6 16.9 -0.92 - 2.6 3.6/08.8 5184  
 1997 HX<sub>6</sub> 2000 12 09.7 05 07.59 +21 40.6 17.8 -0.94 - 0.5 0.4/09.6 6198  
 1999 JK<sub>8</sub> 2000 12 09.7 05 07.59 -03 07.7 20.0 -0.97 - 5.1 7.9/07.1 35736  
 (12112) 2000 12 09.7 05 07.65 -08 05.4 17.5 -0.78 0.0 8.2/07.6 36304  
 1998 KY<sub>54</sub> 2000 12 09.7 05 07.68 +11 31.9 18.5 -1.04 + 4.2 3.9/09.6 6215  
 1999 RQ<sub>26</sub> 2000 12 09.7 05 07.70 +09 38.9 18.6 -0.83 - 1.2 3.9/08.7 6243  
 1998 BQ<sub>26</sub> 2000 12 09.7 05 07.77 +19 59.3 18.8 -1.15 + 1.1 1.1/09.6 35313  
 1999 RZ<sub>234</sub> 2000 12 09.7 05 07.82 +31 32.9 18.7 -0.99 + 0.6 2.6/10.2 5622  
 2000 RP<sub>9</sub> 2000 12 09.7 05 07.91 +18 14.8 17.4 -1.09 + 0.2 2.1/09.5 6317  
 1999 NN<sub>7</sub> 2000 12 09.7 05 07.92 +23 37.5 19.2 -1.10 - 1.8 0.3/09.8 1446  
 1997 GO<sub>23</sub> 2000 12 09.7 05 07.93 +29 13.0 18.7 -0.87 - 0.4 1.7/10.2 3880  
 1999 TZ<sub>107</sub> 2000 12 09.7 05 07.97 +28 26.5 17.5 -0.95 - 4.5 1.8/10.4 1485  
 (18395) 2000 12 09.8 05 07.98 +28 39.1 17.1 -1.19 0.0 2.3/10.1 5180  
 1998 FG<sub>65</sub> 2000 12 09.8 05 08.01 +11 06.6 19.7 -0.93 - 2.2 3.6/08.8 36529  
 1998 FH<sub>117</sub> 2000 12 09.8 05 08.12 +27 10.0 18.4 -1.07 - 2.2 1.5/10.2 36531  
 1998 KL<sub>36</sub> 2000 12 09.8 05 08.28 +25 04.4 19.4 -0.96 - 2.7 0.6/10.1 3895  
 1998 BO 2000 12 09.8 05 08.30 +21 26.6 17.4 -1.20 + 1.5 0.6/09.8 6201  
 1999 RD<sub>130</sub> 2000 12 09.8 05 08.34 +39 14.1 18.6 -1.09 - 2.0 5.3/11.4 644  
 1998 KR<sub>55</sub> 2000 12 09.8 05 08.37 +09 29.4 18.9 -0.86 - 0.7 4.2/09.0 37281  
 1991 GY<sub>2</sub> 2000 12 09.8 05 08.42 +15 03.6 18.4 -1.08 - 2.7 3.2/09.2 36507  
 (18052) 2000 12 09.9 05 08.41 +14 13.2 16.6 -0.84 - 4.7 2.8/08.9 4230  
 1999 TV<sub>279</sub> 2000 12 09.9 05 08.59 +21 53.9 19.2 -0.85 - 0.7 0.3/09.9 4948  
 1999 TG<sub>214</sub> 2000 12 09.9 05 08.67 +33 41.7 17.7 -0.99 + 0.8 3.1/10.5 5639  
 (17701) 2000 12 09.9 05 08.70 +29 16.3 16.7 -0.98 + 1.8 2.1/10.2 4127  
 1997 AC<sub>7</sub> 2000 12 09.9 05 08.71 +05 33.1 17.5 -0.95 + 1.3 6.5/09.1 6197  
 2000 RJ<sub>62</sub> 2000 12 09.9 05 08.71 +28 21.2 17.4 -0.98 + 2.7 1.6/10.1 5916  
 3227 T-2 2000 12 09.9 05 08.74 +28 37.0 18.4 -1.09 + 0.9 2.1/10.2 32344  
 (10476) 2000 12 09.9 05 08.79 +20 51.6 18.0 -1.13 - 4.2 0.7/09.8 34430  
 1999 RH<sub>191</sub> 2000 12 09.9 05 08.79 +20 39.1 19.1 -1.03 + 0.1 0.8/09.9 2655  
 1999 SY<sub>8</sub> 2000 12 09.9 05 08.80 +44 43.3 17.1 -1.36 + 1.0 8.7/11.0 6254  
 1998 KA<sub>50</sub> 2000 12 09.9 05 08.87 +18 32.0 19.4 -0.87 + 1.3 1.1/09.8 1948  
 1999 LP<sub>22</sub> 2000 12 09.9 05 08.87 +24 04.2 17.3 -1.23 - 2.5 0.4/10.1 6239  
 (11323) 2000 12 10.0 05 08.86 +46 11.3 18.1 -1.35 - 2.3 7.8/12.3 35571  
 (12572) 2000 12 10.0 05 08.89 +24 42.1 17.8 -1.17 - 3.0 0.7/10.2 36761  
 (15249) 2000 12 10.0 05 09.12 +30 45.3 16.7 -0.99 + 2.3 2.2/10.3 838  
 1999 RX<sub>221</sub> 2000 12 10.0 05 09.17 +21 37.5 18.5 -0.87 - 3.6 0.4/09.9 4947  
 2000 QM<sub>182</sub> 2000 12 10.1 05 09.26 +21 08.2 17.1 -0.88 - 2.5 0.6/09.9 5886  
 1999 RH<sub>144</sub> 2000 12 10.1 05 09.36 +10 58.9 19.5 -0.85 - 2.3 3.7/09.1 2653  
 2000 SM<sub>309</sub> 2000 12 10.1 05 09.39 +18 34.2 17.0 -1.10 - 1.8 2.2/09.8 6082  
 1991 CM 2000 12 10.1 05 09.52 +04 26.3 17.2 -0.82 + 1.3 5.2/09.3 6183  
 1999 RY<sub>180</sub> 2000 12 10.1 05 09.53 +45 45.6 18.7 -1.16 - 0.6 6.4/12.0 40370  
 1998 FC<sub>114</sub> 2000 12 10.1 05 09.55 +18 30.5 18.1 -1.10 - 5.3 2.0/09.7 5468  
 1998 FQ<sub>27</sub> 2000 12 10.1 05 09.65 +27 40.4 18.6 -1.06 - 1.8 1.5/10.5 36528  
 1999 TL<sub>249</sub> 2000 12 10.1 05 09.66 +20 32.5 19.1 -0.94 - 2.8 0.7/10.0 1191  
 1999 RA<sub>122</sub> 2000 12 10.2 05 09.75 +31 23.5 18.8 -1.20 - 2.5 3.2/10.9 3919  
 1999 RX<sub>51</sub> 2000 12 10.2 05 09.84 +18 15.4 20.0 -0.93 - 1.1 1.4/09.9 2651

(16076) 2000 12 10.2 05 09.88 +08 26.8 17.4 -0.97 - 3.3 5.7/08.9 6178  
 (12284) 2000 12 10.2 05 09.92 +04 03.9 17.9 -0.78 - 1.9 5.1/08.6 6177  
 1998 HA<sub>138</sub> 2000 12 10.2 05 09.93 +09 02.7 19.0 -0.90 - 0.9 4.5/09.4 40325  
 1998 HS<sub>95</sub> 2000 12 10.2 05 10.03 +18 12.2 17.8 -1.08 - 1.2 2.0/09.9 3235  
 1999 NX<sub>9</sub> 2000 12 10.2 05 10.07 +02 50.6 18.7 -0.91 + 2.1 6.6/09.7 2649  
 1999 RR<sub>165</sub> 2000 12 10.2 05 10.10 +30 36.2 17.9 -0.98 - 1.4 2.5/10.9 6250  
 1996 SC<sub>1</sub> 2000 12 10.2 05 10.12 +19 48.7 19.1 -1.15 - 1.5 1.2/10.1 36520  
 (17864) 2000 12 10.2 05 10.12 +18 36.9 16.3 -0.91 - 4.0 1.5/09.9 4176  
 (18653) 2000 12 10.2 05 10.19 +28 36.2 18.2 -1.24 + 2.6 2.2/10.4 5255  
 1999 JP<sub>111</sub> 2000 12 10.2 05 10.23 +13 42.3 17.7 -1.12 + 0.7 4.4/09.9 6237  
 1987 QU<sub>7</sub> 2000 12 10.3 05 10.20 +10 24.7 17.8 -1.02 - 0.1 4.9/09.7 6181  
 (11651) 2000 12 10.3 05 10.31 +18 42.8 17.2 -0.95 - 1.4 1.5/10.0 35871  
 1999 RG<sub>11</sub> 2000 12 10.3 05 10.37 +01 30.3 16.8 -0.91 + 2.0 7.9/09.6 6243  
 1998 FC<sub>11</sub> 2000 12 10.3 05 10.40 +32 07.7 20.1 -1.19 + 2.3 3.0/10.6 32317  
 1995 JK 2000 12 10.3 05 10.52 +13 29.1 18.3 -1.08 + 0.6 3.7/09.9 25335  
 (11521) 2000 12 10.3 05 10.53 +20 41.2 16.7 -0.90 - 0.4 0.9/10.2 3859  
 1999 TX<sub>83</sub> 2000 12 10.3 05 10.58 +20 06.5 19.4 -1.07 - 1.0 1.0/10.2 1480  
 1999 NP<sub>59</sub> 2000 12 10.3 05 10.60 +22 23.6 17.6 -1.00 - 6.3 0.2/10.3 5587  
 1998 EM<sub>11</sub> 2000 12 10.3 05 10.64 +28 04.4 18.2 -1.19 + 0.9 2.1/10.6 6205  
 1999 RY<sub>115</sub> 2000 12 10.4 05 10.66 +04 58.7 17.5 -0.86 + 0.4 6.2/09.5 6246  
 1999 SH<sub>16</sub> 2000 12 10.4 05 10.68 +30 53.3 18.2 -1.09 - 3.8 2.5/11.2 2658  
 1998 FF<sub>66</sub> 2000 12 10.4 05 10.75 +28 22.5 18.5 -1.09 - 0.8 1.9/10.8 36529  
 1999 TB<sub>120</sub> 2000 12 10.4 05 10.92 +20 19.8 18.1 -0.84 - 2.3 0.7/10.2 6256  
 1984 WZ<sub>1</sub> 2000 12 10.4 05 11.02 +09 00.7 17.6 -0.88 + 1.5 4.6/10.0 6180  
 1999 MJ 2000 12 10.4 05 11.08 +27 16.6 18.6 -1.11 - 3.3 1.6/10.9 6239  
 1998 HD<sub>103</sub> 2000 12 10.4 05 11.09 +23 50.0 17.6 -1.11 - 2.0 0.4/10.6 3893  
 1999 RR<sub>82</sub> 2000 12 10.5 05 11.02 +15 49.5 20.5 -0.97 - 2.0 2.2/10.0 2651  
 1999 NY<sub>55</sub> 2000 12 10.5 05 11.22 +21 51.2 16.6 -1.02 - 7.2 0.4/10.4 5586  
 2000 RO<sub>9</sub> 2000 12 10.5 05 11.29 +14 17.2 17.7 -0.97 - 1.1 3.8/10.0 6316  
 (17438) 2000 12 10.5 05 11.32 +20 34.7 17.1 -1.14 + 0.5 1.1/10.4 4051  
 1999 RS<sub>136</sub> 2000 12 10.5 05 11.39 +07 31.8 18.7 -0.86 - 0.5 5.1/09.7 4518  
 (18312) 2000 12 10.5 05 11.40 +33 25.9 18.1 -1.26 - 1.5 4.8/11.3 5157  
 (11477) 2000 12 10.5 05 11.42 +15 38.7 15.9 -0.89 - 4.0 2.6/09.9 35826  
 1997 XG 2000 12 10.5 05 11.42 +22 44.3 16.3 -1.15 - 0.8 0.1/10.6 4899  
 (10750) 2000 12 10.5 05 11.54 +13 12.4 17.5 -1.11 - 0.1 3.9/10.1 34757  
 2000 QM<sub>217</sub> 2000 12 10.6 05 11.55 +26 20.4 17.8 -0.95 - 4.0 1.1/11.0 5894  
 1998 JR 2000 12 10.6 05 11.60 +26 20.8 19.0 -1.00 - 2.0 1.1/10.9 3894  
 1999 RY<sub>129</sub> 2000 12 10.6 05 11.70 +22 43.4 18.3 -0.92 - 0.4 0.1/10.6 6247  
 2000 RT<sub>9</sub> 2000 12 10.6 05 11.75 +24 59.2 17.2 -1.16 + 2.6 0.9/10.7 5900  
 1999 RT<sub>213</sub> 2000 12 10.6 05 11.76 +17 55.0 18.9 -0.97 - 0.7 1.8/10.4 2656  
 (11055) 2000 12 10.6 05 11.78 +08 18.5 17.7 -1.00 - 2.6 4.9/09.5 35226  
 1981 EY<sub>13</sub> 2000 12 10.6 05 11.82 +13 35.3 18.8 -0.86 - 2.6 3.1/09.9 6179  
 1994 TZ 2000 12 10.6 05 11.91 +07 54.0 17.0 -0.84 - 1.4 5.1/09.6 6190  
 1998 DR<sub>7</sub> 2000 12 10.6 05 11.91 +26 15.0 17.1 -1.14 + 2.0 1.7/10.8 5445  
 1998 HP<sub>147</sub> 2000 12 10.6 05 11.94 +16 31.1 17.9 -0.97 + 1.0 2.3/10.4 36083  
 1998 CD<sub>3</sub> 2000 12 10.6 05 12.00 +16 37.2 18.8 -1.12 - 1.0 2.6/10.3 5443  
 1999 JV<sub>45</sub> 2000 12 10.7 05 11.89 +16 59.0 19.3 -1.15 - 1.8 2.2/10.3 36542  
 (18709) 2000 12 10.7 05 11.91 +11 25.8 18.1 -0.96 - 2.8 4.4/09.7 5272  
 (16349) 2000 12 10.7 05 11.91 +21 01.0 19.1 -1.00 + 0.3 0.7/10.6 1857  
 (11556) 2000 12 10.7 05 11.99 +23 17.0 16.0 -1.01 - 2.8 0.1/10.7 35847  
 2000 RT<sub>8</sub> 2000 12 10.7 05 12.00 +16 53.4 16.5 -0.93 - 2.1 2.6/10.3 6316

|                        |              |                        |             |          |       |                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|----------|-------|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1999 JO <sub>4</sub>   | 2000 12 10.7 | 05 12.19 +16 37.7 18.5 | -1.13 - 4.8 | 2.3/10.2 | 5533  | 1992 KC                | 2000 12 11.5 | 05 15.59 +17 02.8 18.0 | -1.14 - 1.5 | 2.3/11.2  | 6185  |
| (18867)                | 2000 12 10.7 | 05 12.30 +12 32.3 17.2 | -0.96 - 4.9 | 3.8/09.6 | 5319  | (18814)                | 2000 12 11.5 | 05 15.64 +16 31.8 18.0 | -1.11 - 2.2 | 2.5/11.1  | 5303  |
| 1998 FB <sub>141</sub> | 2000 12 10.8 | 05 12.62 +19 03.2 19.9 | -1.00 - 1.8 | 1.2/10.6 | 1938  | 1998 GO <sub>2</sub>   | 2000 12 11.5 | 05 15.71 +17 35.7 19.4 | -1.15 + 2.0 | 2.1/11.4  | 4911  |
| (10935)                | 2000 12 10.8 | 05 12.62 +13 39.8 16.0 | -1.14 + 6.0 | 3.7/11.0 | 6177  | 1999 RO <sub>163</sub> | 2000 12 11.5 | 05 15.77 +22 04.4 19.0 | -1.01 - 1.8 | 0.3/11.5  | 2654  |
| 1999 JS <sub>5</sub>   | 2000 12 10.8 | 05 12.62 +14 34.4 16.5 | -1.37 -17.6 | 4.2/09.2 | 5534  | 1999 JU <sub>15</sub>  | 2000 12 11.6 | 05 15.86 +25 01.3 15.9 | -1.25 + 2.5 | 0.9/12.0  | 6228  |
| 1995 VX                | 2000 12 10.8 | 05 12.79 +21 07.3 19.6 | -0.94 - 1.3 | 0.7/10.8 | 990   | 1999 RE <sub>139</sub> | 2000 12 11.6 | 05 15.96 +24 03.5 19.1 | -1.13 - 1.7 | 0.4/11.7  | 1458  |
| 1999 NR <sub>53</sub>  | 2000 12 10.8 | 05 12.85 +17 09.6 18.6 | -1.01 - 5.4 | 2.0/10.3 | 1446  | 4619 P-L               | 2000 12 11.6 | 05 16.07 +26 33.7 17.3 | -1.19 - 0.8 | 1.7/11.8  | 30914 |
| (11817)                | 2000 12 10.8 | 05 12.86 +14 01.8 19.4 | -0.97 - 1.0 | 2.9/10.4 | 36223 | 6539 P-L               | 2000 12 11.6 | 05 16.12 +11 07.8 18.5 | -0.95 - 1.0 | 4.1/10.9  | 6439  |
| 1999 RG <sub>80</sub>  | 2000 12 10.9 | 05 12.83 +24 52.5 19.0 | -1.00 - 2.3 | 0.6/11.1 | 287   | 1998 FS <sub>33</sub>  | 2000 12 11.6 | 05 16.19 +21 47.1 16.7 | -1.12 - 0.6 | 0.6/11.6  | 3205  |
| 1996 CK <sub>7</sub>   | 2000 12 10.9 | 05 12.83 +22 59.7 18.4 | -0.91 - 0.4 | 0.0/10.9 | 4332  | (11042)                | 2000 12 11.6 | 05 16.27 +17 56.3 17.4 | -1.13 + 3.0 | 2.3/11.6  | 35222 |
| 1999 RJ <sub>159</sub> | 2000 12 10.9 | 05 12.92 +19 56.4 18.0 | -0.95 - 0.1 | 1.1/10.8 | 6250  | 1998 DO <sub>34</sub>  | 2000 12 11.6 | 05 16.39 +10 48.8 19.9 | -0.98 - 0.3 | 3.9/11.1  | 3196  |
| 1994 LF <sub>1</sub>   | 2000 12 10.9 | 05 12.92 -00 10.4 19.1 | -0.95 - 6.7 | 6.6/08.1 | 36336 | (11561)                | 2000 12 11.7 | 05 16.38 +28 56.7 18.1 | -1.04 - 1.3 | 2.1/12.1  | 35848 |
| 1990 ER <sub>2</sub>   | 2000 12 10.9 | 05 12.94 +20 03.6 18.6 | -1.05 - 2.7 | 1.1/10.7 | 36065 | 1998 DR <sub>35</sub>  | 2000 12 11.7 | 05 16.41 +09 19.7 18.6 | -1.02 0.0   | 4.6/11.0  | 40321 |
| 1978 RY <sub>7</sub>   | 2000 12 10.9 | 05 12.95 +11 13.3 18.7 | -1.07 - 0.8 | 4.6/10.2 | 38429 | 1998 CO                | 2000 12 11.7 | 05 16.45 +11 04.5 18.5 | -1.11 + 0.1 | 5.1/11.1  | 35704 |
| 1996 QP                | 2000 12 10.9 | 05 13.17 +11 03.0 18.9 | -1.11 - 0.5 | 4.9/10.4 | 6193  | 1999 NJ <sub>63</sub>  | 2000 12 11.7 | 05 16.48 +19 00.3 18.0 | -1.07 - 1.1 | 1.7/11.5  | 6241  |
| 1999 RT <sub>19</sub>  | 2000 12 10.9 | 05 13.20 +50 23.2 16.9 | -1.25 - 0.7 | 9.1/13.0 | 40355 | 1998 FX <sub>127</sub> | 2000 12 11.7 | 05 16.58 +11 32.7 17.0 | -1.06 + 1.6 | 5.3/11.4  | 6211  |
| (18784)                | 2000 12 11.0 | 05 13.25 +24 28.9 18.3 | -1.18 - 1.8 | 0.6/11.1 | 5294  | 1999 RR <sub>112</sub> | 2000 12 11.7 | 05 16.65 +14 06.2 19.5 | -1.06 - 1.8 | 3.1/11.2  | 3427  |
| (11457)                | 2000 12 11.0 | 05 13.36 +24 11.7 18.9 | -1.17 - 3.3 | 0.5/11.1 | 35821 | 1994 JQ <sub>6</sub>   | 2000 12 11.7 | 05 16.69 +19 52.6 19.4 | -1.00 - 1.2 | 1.1/11.6  | 36514 |
| 1999 RH <sub>63</sub>  | 2000 12 11.0 | 05 13.40 +18 39.0 18.4 | -1.06 - 2.5 | 1.6/10.7 | 3425  | 1999 TR <sub>157</sub> | 2000 12 11.7 | 05 16.73 +14 36.1 19.6 | -0.82 - 2.2 | 2.5/11.1  | 3448  |
| 1999 RT <sub>137</sub> | 2000 12 11.0 | 05 13.42 +36 23.5 16.7 | -1.06 - 2.0 | 4.7/12.1 | 6248  | 1993 SN <sub>1</sub>   | 2000 12 11.7 | 05 16.80 +12 32.2 17.7 | -1.14 - 0.1 | 4.8/12.0  | 3871  |
| 1999 RS <sub>241</sub> | 2000 12 11.0 | 05 13.46 +24 45.1 19.1 | -1.04 - 1.2 | 0.6/11.2 | 3435  | 1981 EW <sub>6</sub>   | 2000 12 11.8 | 05 16.82 +26 41.7 19.2 | -1.19 - 4.5 | 1.6/12.0  | 26916 |
| 1999 NF <sub>4</sub>   | 2000 12 11.0 | 05 13.49 +27 30.5 20.0 | -1.08 - 1.6 | 1.5/11.4 | 2059  | 1999 JR <sub>61</sub>  | 2000 12 11.8 | 05 16.89 +20 31.0 19.1 | -1.19 - 2.4 | 1.0/11.7  | 35461 |
| 1997 JS <sub>12</sub>  | 2000 12 11.0 | 05 13.55 +22 06.4 18.6 | -0.90 - 1.0 | 0.3/11.0 | 5432  | 2304 T-2               | 2000 12 11.8 | 05 16.92 +25 34.2 18.3 | -0.96 - 0.2 | 0.9/12.0  | 4022  |
| 2083 T-1               | 2000 12 11.0 | 05 13.61 +24 55.6 19.4 | -1.13 + 0.2 | 0.9/11.2 | 38737 | 1998 FZ <sub>72</sub>  | 2000 12 11.8 | 05 16.92 +11 43.7 19.9 | -0.96 - 2.3 | 3.9/11.0  | 5465  |
| 2000 RH <sub>10</sub>  | 2000 12 11.0 | 05 13.62 +15 20.2 17.9 | -1.05 - 1.3 | 3.1/10.6 | 5901  | (11183)                | 2000 12 11.8 | 05 16.97 +12 36.2 16.3 | -1.05 + 4.2 | 3.9/12.0  | 35259 |
| 2000 RE <sub>62</sub>  | 2000 12 11.0 | 05 13.64 +23 16.1 16.3 | -1.14 + 3.7 | 0.1/11.1 | 6329  | 3434 T-3               | 2000 12 11.8 | 05 17.02 +19 05.9 18.6 | -0.96 - 2.1 | 1.7/11.6  | 29669 |
| 2000 RD <sub>9</sub>   | 2000 12 11.0 | 05 13.65 +18 58.6 17.5 | -1.09 - 2.2 | 2.0/10.8 | 5900  | 1998 HZ <sub>124</sub> | 2000 12 11.8 | 05 17.03 +09 26.3 19.7 | -0.91 + 1.1 | 4.1/11.4  | 3237  |
| 1999 RO <sub>196</sub> | 2000 12 11.1 | 05 13.67 +39 37.4 18.0 | -1.22 - 2.6 | 5.5/12.5 | 1464  | (16081)                | 2000 12 11.8 | 05 17.05 +22 15.0 18.0 | -0.87 - 2.4 | 0.2/11.8  | 1782  |
| 2000 RH <sub>62</sub>  | 2000 12 11.1 | 05 14.05 +19 41.4 17.9 | -1.09 - 1.4 | 1.2/11.0 | 5915  | 2000 RB <sub>62</sub>  | 2000 12 11.8 | 05 17.07 +29 44.3 16.6 | -1.16 + 3.6 | 2.5/11.9  | 5915  |
| (18666)                | 2000 12 11.2 | 05 14.10 +42 25.3 17.0 | -1.29 - 1.6 | 7.2/12.8 | 5259  | (11186)                | 2000 12 11.8 | 05 17.08 -00 06.1 16.2 | -0.94 + 2.7 | 10.4/11.4 | 35259 |
| 1999 RK <sub>59</sub>  | 2000 12 11.2 | 05 14.19 +12 32.4 18.3 | -0.98 - 0.5 | 3.9/10.6 | 2651  | (11648)                | 2000 12 11.8 | 05 17.10 +20 38.4 16.8 | -0.96 - 0.1 | 0.9/11.7  | 35871 |
| 1998 HS <sub>42</sub>  | 2000 12 11.2 | 05 14.60 +11 50.1 19.0 | -0.88 - 0.6 | 3.1/10.6 | 37278 | 2000 QJ <sub>217</sub> | 2000 12 11.8 | 05 17.18 +25 08.2 17.2 | -1.12 - 2.8 | 0.8/12.0  | 5894  |
| 1996 RO <sub>4</sub>   | 2000 12 11.3 | 05 14.68 +21 02.7 17.3 | -1.03 + 0.1 | 1.0/11.2 | 6193  | 1999 RJ <sub>40</sub>  | 2000 12 11.8 | 05 17.26 +19 26.2 18.2 | -0.90 - 3.6 | 1.2/11.6  | 6243  |
| 1998 GE <sub>7</sub>   | 2000 12 11.3 | 05 14.73 +18 27.6 17.5 | -1.05 + 2.9 | 1.5/11.2 | 6211  | 1999 RJ <sub>118</sub> | 2000 12 11.9 | 05 17.18 +12 03.4 18.9 | -0.97 - 0.8 | 3.6/11.3  | 3919  |
| (18834)                | 2000 12 11.3 | 05 14.84 +17 26.6 18.8 | -1.02 - 5.5 | 2.0/10.8 | 5308  | 1999 LG <sub>6</sub>   | 2000 12 11.9 | 05 17.22 +19 01.3 18.3 | -1.21 + 1.2 | 1.7/11.8  | 35738 |
| 1997 HV <sub>8</sub>   | 2000 12 11.3 | 05 14.88 +23 43.4 18.9 | -0.91 - 0.5 | 0.2/11.4 | 36525 | 1999 NV <sub>7</sub>   | 2000 12 11.9 | 05 17.30 -00 16.3 19.8 | -0.86 + 2.2 | 6.6/12.0  | 36089 |
| 1999 RX <sub>32</sub>  | 2000 12 11.3 | 05 14.91 +19 24.6 16.5 | -0.94 - 0.2 | 1.3/11.2 | 6243  | 1998 KZ <sub>54</sub>  | 2000 12 11.9 | 05 17.44 +08 16.7 18.5 | -0.83 - 1.1 | 4.3/11.0  | 6215  |
| 1998 DW <sub>25</sub>  | 2000 12 11.3 | 05 14.95 +24 34.5 20.9 | -1.14 - 0.6 | 0.6/11.5 | 31409 | 1992 PH <sub>4</sub>   | 2000 12 11.9 | 05 17.49 +26 03.0 18.2 | -1.17 - 1.5 | 1.1/12.1  | 6185  |
| 1999 JM <sub>29</sub>  | 2000 12 11.3 | 05 15.01 +22 20.2 18.4 | -1.21 - 3.8 | 0.3/11.3 | 6230  | (17562)                | 2000 12 11.9 | 05 17.61 +25 01.4 17.4 | -1.14 - 3.6 | 0.8/12.1  | 4086  |
| 1995 SE <sub>10</sub>  | 2000 12 11.3 | 05 15.01 +15 41.3 17.9 | -1.03 - 1.1 | 3.2/10.9 | 3874  | 1999 RE <sub>132</sub> | 2000 12 12.0 | 05 17.67 +20 51.9 17.4 | -0.98 - 2.7 | 0.8/11.8  | 4946  |
| 1999 RQ <sub>222</sub> | 2000 12 11.4 | 05 15.00 -04 32.7 18.4 | -0.79 - 3.0 | 8.0/09.0 | 6253  | 1999 RZ <sub>233</sub> | 2000 12 12.0 | 05 17.70 +36 54.0 19.6 | -1.06 + 0.4 | 3.8/12.7  | 6253  |
| 2000 RK <sub>62</sub>  | 2000 12 11.4 | 05 15.02 +27 51.2 17.5 | -1.17 + 3.9 | 1.7/11.5 | 5916  | 1999 QG <sub>2</sub>   | 2000 12 12.0 | 05 17.83 +17 16.1 20.0 | -1.06 + 0.5 | 1.8/11.8  | 36549 |
| 1998 FP <sub>53</sub>  | 2000 12 11.4 | 05 15.03 +10 16.7 16.9 | -0.98 - 4.9 | 6.9/10.0 | 6207  | 1999 TX <sub>32</sub>  | 2000 12 12.0 | 05 17.88 +22 29.3 18.1 | -0.87 - 1.1 | 0.2/12.0  | 40382 |
| 1999 RK <sub>62</sub>  | 2000 12 11.4 | 05 15.09 +17 13.1 18.1 | -0.91 + 0.7 | 2.0/11.2 | 3919  | 1997 BU <sub>4</sub>   | 2000 12 12.0 | 05 17.92 +04 45.7 18.6 | -0.91 + 0.8 | 5.9/11.3  | 36523 |
| 1999 RE <sub>193</sub> | 2000 12 11.4 | 05 15.26 +02 17.7 17.7 | -0.84 + 1.1 | 6.8/10.5 | 6252  | 2000 RX <sub>9</sub>   | 2000 12 12.0 | 05 18.03 +14 17.1 17.6 | -1.08 - 3.3 | 3.8/11.4  | 6317  |
| 2000 RS <sub>38</sub>  | 2000 12 11.4 | 05 15.32 +42 30.5 16.4 | -1.18 - 7.3 | 9.9/14.6 | 6324  | (18855)                | 2000 12 12.0 | 05 18.04 +18 27.4 18.1 | -1.06 - 2.1 | 1.6/11.8  | 5315  |
| (18288)                | 2000 12 11.4 | 05 15.33 +28 02.7 16.2 | -1.05 + 2.6 | 2.0/11.6 | 5150  | 1985 RN <sub>4</sub>   | 2000 12 12.0 | 05 18.08 +25 02.2 18.8 | -1.26 - 0.3 | 0.9/12.2  | 6181  |
| 1981 EC <sub>15</sub>  | 2000 12 11.4 | 05 15.36 +31 57.9 19.2 | -1.17 - 1.3 | 3.5/12.0 | 22429 | (10760)                | 2000 12 12.0 | 05 18.13 +21 26.1 15.8 | -1.18 + 2.5 | 0.8/12.1  | 34760 |
| 1999 JG <sub>69</sub>  | 2000 12 11.4 | 05 15.39 +16 37.0 19.0 | -1.16 + 0.4 | 2.6/11.2 | 35375 | 1999 RN <sub>204</sub> | 2000 12 12.1 | 05 18.15 +43 16.8 20.0 | -1.26 - 2.4 | 6.1/13.7  | 6252  |
| 1996 TF <sub>10</sub>  | 2000 12 11.4 | 05 15.49 +31 14.0 16.3 | -1.21 - 1.6 | 3.6/12.0 | 4893  | 1990 EU                | 2000 12 12.1 | 05 18.22 +27 26.9 17.8 | -1.11 - 3.3 | 1.5/12.5  | 19027 |
| 1999 RY <sub>23</sub>  | 2000 12 11.5 | 05 15.57 +08 18.8 18.6 | -0.85 - 0.2 | 4.4/10.7 | 40356 | 1998 EL <sub>8</sub>   | 2000 12 12.1 | 05 18.30 +16 31.3 16.8 | -1.06 - 4.7 | 3.3/11.5  | 5450  |