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### EDITORIAL NOTICE

At the IAU General Assembly in Manchester (England) in August the name of the Small Bodies Names Committee was changed to the Committee for Small Body Nomenclature (CSBN), with the following membership for 2000-2003: M. A'Hearn (U.S.; Division III representative), K. Aksnes (Norway; Working Group on Planetary System Nomenclature representative), J. A. Fernández (Uruguay), P. M. Kilmartin (New Zealand; Chair), Y. Kozai (Japan), B. G. Marsden (U.S.; Director of the Minor Planet Center), L. D. Schmadel (Germany), V. A. Shor (Russia), J. Tichá (Czech Republic), R. M. West (Denmark), G. V. Williams (U.S.), D. K. Yeomans (U.S.) and J. Zhu (China). In addition, D. W. E. Green (U.S.), as Director of the Central Bureau for Astronomical Telegrams, was co-opted to the CSBN on the recommendation of Commission 6 in connection with the naming of comets. Discoverers proposing names for their minor planets should send their proposed names and citations to [bmarsden@cfa.harvard.edu](mailto:bmarsden@cfa.harvard.edu) in plain-language e-mail messages (i.e., not as coded attachments and not using systems such as MIME that introduce spurious characters), strictly in accordance with the format shown at <http://cfa-www.harvard.edu/iau/info/Astrometry.html#cit>. Examples of recent citations can be seen in *MPC* 41381-41389. The four-line maximum is very strict, and it corresponds to a maximum of 300 characters (including spaces).

We have been remiss in not mentioning that T. B. Spahr has been employed full-time at the Minor Planet Center since May. In addition to some extensive work on identifications and linking single-night detections from the large NEO surveys, he has also been checking most of the data submitted by smaller observing programs. Furthermore, since the entire MPC staff was away at the IAU General Assembly, it was necessary then to import special assistance in the form of C. W. Hergenrother. Although it was possible for the staff to attend to some matters from Manchester, this local support was essential to the MPC operation and was greatly appreciated.

### ERRATUM

|            |            |                                                                                                                                                                                                                                                                                                                                                        |
|------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>MPC</i> | Line       |                                                                                                                                                                                                                                                                                                                                                        |
| 41101      | - 7 to - 1 | The names of the observers at 669 Ojai should read: S. Arons, S. Bikkannavar, H. Chang, P. Cook, J. Denmark, V. Desai, G. Devendra, R. Echols, J. Epke, L. Epstein, D. Giampaoli, N. Hoff, S. Hong, C. Jacobs, T. Kuo, T. Laird, T. Lam, J. Lyons, A. Mettler, J. Montalvo, V. Nguyen, L. Ong, J. Przybylowski, D. Robles, N. Sarda, B. Schuettelpelz, |

N. Sengupta, A. Shah, C. Shah, X. Swift, T. Titus, A. Uong, J. Vigorita, J. Wilson, P. Yu, A. Barr, M. Compton, R. Doshi, A. West, C. Wyman, T. Furutani, S. Stephens

### NEW OBSERVATORY CODES

The following listing is a continuation to that on *MPC* 41061. 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. | $\lambda$ | $\rho \cos \phi'$ | $\rho \sin \phi'$ |                                             |
|------|-----------|-------------------|-------------------|---------------------------------------------|
| 196  | 7.3331    | 0.65296           | +0.75490          | Homburg-Erbach                              |
| 197  | 12.1836   | 0.71739           | +0.69434          | Bastia                                      |
| 921  | 254.4725  | 0.83988           | +0.54159          | SW Institute for Space Research, Cloudcroft |
| 922  | 272.8333  | 0.82335           | +0.56569          | Timberland Observatory, Decatur             |
| 942  | 359.3636  | 0.60413           | +0.79423          | Grantham                                    |

### CORRECTED OBSERVATIONS

The following observations correct those previously published.

| Object                | Date             | UT          | $\alpha_{2000}$ | $\delta_{2000}$  | Reference | Mag. | N Obs. |
|-----------------------|------------------|-------------|-----------------|------------------|-----------|------|--------|
| 2000 KN <sub>38</sub> | 2000 07 03.28875 | 15 43 55.81 | -16 32 40.4     | <i>MPS</i> 17683 | 19.7      | V    | 1 643  |
| 2000 KN <sub>38</sub> | 2000 07 03.33044 | 15 43 55.08 | -16 32 55.4     | <i>MPS</i> 17683 | 19.9      | V    | 1 643  |

Note 1: observations interchanged.

### DELETED OBSERVATIONS

The following observations are to be deleted.

| Object                | Date               | UT          | $\alpha_{2000}$ | $\delta_{2000}$  | Reference | Obs. |
|-----------------------|--------------------|-------------|-----------------|------------------|-----------|------|
| 1996 FC <sub>24</sub> | * 1996 03 24.21944 | 14 25 18.43 | -14 05 38.4     | <i>MPC</i> 40878 | 809       |      |
| 1996 FC <sub>24</sub> | 1996 03 24.23125   | 14 25 18.13 | -14 05 36.2     | <i>MPC</i> 40878 | 809       |      |
| 1996 FC <sub>24</sub> | 1996 03 24.24306   | 14 25 17.87 | -14 05 33.9     | <i>MPC</i> 40878 | 809       |      |
| 1998 KR <sub>66</sub> | * 1998 05 19.29996 | 15 34 38.88 | -03 33 23.0     | <i>MPS</i> 17481 | 691       |      |
| 1998 KR <sub>66</sub> | 1998 05 19.32104   | 15 34 37.78 | -03 33 20.1     | <i>MPS</i> 17481 | 691       |      |
| 1998 KR <sub>66</sub> | 1998 05 19.34196   | 15 34 36.63 | -03 33 17.2     | <i>MPS</i> 17481 | 691       |      |

|                       |                    |             |             |           |     |                       |                    |             |             |           |     |
|-----------------------|--------------------|-------------|-------------|-----------|-----|-----------------------|--------------------|-------------|-------------|-----------|-----|
| 1998 KR <sub>66</sub> | 1998 05 22.24473   | 15 32 08.00 | -03 27 15.9 | MPS 17481 | 691 | 1998 KG <sub>68</sub> | 1998 06 02.32184   | 15 19 20.82 | -02 40 10.7 | MPS 17482 | 691 |
| 1998 KR <sub>66</sub> | 1998 05 22.29692   | 15 32 05.20 | -03 27 10.8 | MPS 17481 | 691 | 1998 KG <sub>68</sub> | 1998 06 02.34253   | 15 19 19.92 | -02 40 11.7 | MPS 17482 | 691 |
| 1998 KR <sub>66</sub> | 1998 05 22.34210   | 15 32 02.81 | -03 27 06.1 | MPS 17481 | 691 | 1998 KG <sub>68</sub> | 1998 06 02.36343   | 15 19 19.05 | -02 40 12.4 | MPS 17482 | 691 |
| 1998 KS <sub>66</sub> | * 1998 05 20.23456 | 13 41 21.44 | -10 02 17.1 | MPS 17481 | 691 | 1998 KH <sub>68</sub> | * 1998 05 28.28968 | 15 22 59.85 | -02 37 54.9 | MPS 17482 | 691 |
| 1998 KS <sub>66</sub> | 1998 05 20.25606   | 13 41 20.94 | -10 02 10.3 | MPS 17481 | 691 | 1998 KH <sub>68</sub> | 1998 05 28.31048   | 15 22 58.59 | -02 38 05.8 | MPS 17482 | 691 |
| 1998 KS <sub>66</sub> | 1998 05 20.27788   | 13 41 20.47 | -10 02 04.2 | MPS 17481 | 691 | 1998 KH <sub>68</sub> | 1998 05 28.33135   | 15 22 57.30 | -02 38 17.1 | MPS 17482 | 691 |
| 1998 KS <sub>66</sub> | 1998 05 22.16821   | 13 40 50.41 | -09 53 00.1 | MPS 17481 | 691 | 1998 KH <sub>68</sub> | 1998 06 02.25743   | 15 18 15.92 | -03 23 38.5 | MPS 17482 | 691 |
| 1998 KS <sub>66</sub> | 1998 05 22.19040   | 13 40 50.06 | -09 52 54.1 | MPS 17481 | 691 | 1998 KH <sub>68</sub> | 1998 06 02.27816   | 15 18 14.77 | -03 23 50.6 | MPS 17482 | 691 |
| 1998 KS <sub>66</sub> | 1998 05 22.21169   | 13 40 49.66 | -09 52 48.2 | MPS 17481 | 691 | 1998 KH <sub>68</sub> | 1998 06 02.29895   | 15 18 13.59 | -03 24 02.3 | MPS 17482 | 691 |
| 1998 KZ <sub>67</sub> | * 1998 05 27.28064 | 15 33 59.58 | -03 30 02.8 | MPS 17482 | 691 | 1998 KJ <sub>68</sub> | * 1998 05 28.29049 | 15 24 09.75 | -02 36 29.8 | MPS 17482 | 691 |
| 1998 KZ <sub>67</sub> | 1998 05 27.30177   | 15 33 58.49 | -03 29 59.7 | MPS 17482 | 691 | 1998 KJ <sub>68</sub> | 1998 05 28.31129   | 15 24 08.79 | -02 36 28.0 | MPS 17482 | 691 |
| 1998 KZ <sub>67</sub> | 1998 05 27.32268   | 15 33 57.36 | -03 29 57.2 | MPS 17482 | 691 | 1998 KJ <sub>68</sub> | 1998 05 28.33217   | 15 24 07.85 | -02 36 26.3 | MPS 17482 | 691 |
| 1998 KZ <sub>67</sub> | 1998 06 02.26500   | 15 29 11.56 | -03 19 49.2 | MPS 17482 | 691 | 1998 KJ <sub>68</sub> | 1998 06 02.32267   | 15 20 32.35 | -02 30 46.0 | MPS 17483 | 691 |
| 1998 KZ <sub>67</sub> | 1998 06 02.28573   | 15 29 10.58 | -03 19 47.6 | MPS 17482 | 691 | 1998 KJ <sub>68</sub> | 1998 06 02.34335   | 15 20 31.46 | -02 30 44.3 | MPS 17483 | 691 |
| 1998 KZ <sub>67</sub> | 1998 06 02.30652   | 15 29 09.55 | -03 19 46.6 | MPS 17482 | 691 | 1998 KJ <sub>68</sub> | 1998 06 02.36425   | 15 20 30.58 | -02 30 43.7 | MPS 17483 | 691 |
| 1998 KA <sub>68</sub> | * 1998 05 28.15418 | 13 40 04.01 | -13 20 45.2 | MPS 17482 | 691 | 1998 KK <sub>68</sub> | * 1998 05 28.29123 | 15 25 14.62 | -02 43 05.7 | MPS 17483 | 691 |
| 1998 KA <sub>68</sub> | 1998 05 28.17580   | 13 40 03.44 | -13 20 43.6 | MPS 17482 | 691 | 1998 KK <sub>68</sub> | 1998 05 28.31204   | 15 25 13.68 | -02 43 05.8 | MPS 17483 | 691 |
| 1998 KA <sub>68</sub> | 1998 05 28.20309   | 13 40 02.67 | -13 20 40.3 | MPS 17482 | 691 | 1998 KK <sub>68</sub> | 1998 05 28.33292   | 15 25 12.76 | -02 43 06.2 | MPS 17483 | 691 |
| 1998 KA <sub>68</sub> | 1998 06 01.17626   | 13 38 28.40 | -13 14 33.6 | MPS 17482 | 691 | 1998 KK <sub>68</sub> | 1998 06 02.32350   | 15 21 44.95 | -02 45 54.0 | MPS 17483 | 691 |
| 1998 KA <sub>68</sub> | 1998 06 01.19752   | 13 38 27.92 | -13 14 32.3 | MPS 17482 | 691 | 1998 KK <sub>68</sub> | 1998 06 02.34419   | 15 21 44.09 | -02 45 55.0 | MPS 17483 | 691 |
| 1998 KA <sub>68</sub> | 1998 06 01.21866   | 13 38 27.54 | -13 14 30.7 | MPS 17482 | 691 | 1998 KK <sub>68</sub> | 1998 06 02.36509   | 15 21 43.26 | -02 45 56.4 | MPS 17483 | 691 |
| 1998 KB <sub>68</sub> | * 1998 05 28.16434 | 13 54 44.91 | -13 24 43.9 | MPS 17482 | 691 | 1998 KL <sub>68</sub> | * 1998 05 28.29131 | 15 25 21.41 | -02 45 39.8 | MPS 17483 | 691 |
| 1998 KB <sub>68</sub> | 1998 05 28.18597   | 13 54 44.48 | -13 24 37.1 | MPS 17482 | 691 | 1998 KL <sub>68</sub> | 1998 05 28.31212   | 15 25 20.21 | -02 45 44.4 | MPS 17483 | 691 |
| 1998 KB <sub>68</sub> | 1998 05 28.21327   | 13 54 43.96 | -13 24 28.5 | MPS 17482 | 691 | 1998 KL <sub>68</sub> | 1998 05 28.33299   | 15 25 19.01 | -02 45 48.9 | MPS 17483 | 691 |
| 1998 KB <sub>68</sub> | 1998 06 01.18698   | 13 53 57.58 | -13 05 24.2 | MPS 17482 | 691 | 1998 KL <sub>68</sub> | 1998 06 02.25925   | 15 20 54.08 | -03 05 26.8 | MPS 17483 | 691 |
| 1998 KB <sub>68</sub> | 1998 06 01.20825   | 13 53 57.36 | -13 05 18.5 | MPS 17482 | 691 | 1998 KL <sub>68</sub> | 1998 06 02.27998   | 15 20 52.97 | -03 05 32.4 | MPS 17483 | 691 |
| 1998 KB <sub>68</sub> | 1998 06 01.22940   | 13 53 57.15 | -13 05 12.0 | MPS 17482 | 691 | 1998 KL <sub>68</sub> | 1998 06 02.30078   | 15 20 51.87 | -03 05 37.9 | MPS 17483 | 691 |
| 1998 KC <sub>68</sub> | * 1998 05 28.23219 | 15 31 30.83 | -03 13 01.3 | MPS 17482 | 691 | 1998 KM <sub>68</sub> | * 1998 05 28.29334 | 15 28 17.39 | -02 34 42.8 | MPS 17483 | 691 |
| 1998 KC <sub>68</sub> | 1998 05 28.25291   | 15 31 29.69 | -03 13 01.0 | MPS 17482 | 691 | 1998 KM <sub>68</sub> | 1998 05 28.31415   | 15 28 16.52 | -02 34 41.1 | MPS 17483 | 691 |
| 1998 KC <sub>68</sub> | 1998 05 28.27372   | 15 31 28.56 | -03 13 01.3 | MPS 17482 | 691 | 1998 KM <sub>68</sub> | 1998 05 28.33503   | 15 28 15.67 | -02 34 39.1 | MPS 17483 | 691 |
| 1998 KC <sub>68</sub> | 1998 06 02.26372   | 15 27 20.90 | -03 15 18.9 | MPS 17482 | 691 | 1998 KM <sub>68</sub> | 1998 06 02.32579   | 15 25 03.12 | -02 29 26.9 | MPS 17483 | 691 |
| 1998 KC <sub>68</sub> | 1998 06 02.28445   | 15 27 19.84 | -03 15 20.2 | MPS 17482 | 691 | 1998 KM <sub>68</sub> | 1998 06 02.34648   | 15 25 02.33 | -02 29 25.9 | MPS 17483 | 691 |
| 1998 KC <sub>68</sub> | 1998 06 02.30524   | 15 27 18.81 | -03 15 22.0 | MPS 17482 | 691 | 1998 KM <sub>68</sub> | 1998 06 02.36738   | 15 25 01.53 | -02 29 24.9 | MPS 17483 | 691 |
| 1998 KD <sub>68</sub> | * 1998 05 28.23557 | 15 36 23.94 | -03 09 23.4 | MPS 17482 | 691 | 1998 KN <sub>68</sub> | * 1998 05 28.29613 | 15 32 18.32 | -02 55 50.6 | MPS 17483 | 691 |
| 1998 KD <sub>68</sub> | 1998 05 28.25629   | 15 36 22.77 | -03 09 23.9 | MPS 17482 | 691 | 1998 KN <sub>68</sub> | 1998 05 28.31693   | 15 32 17.34 | -02 55 51.2 | MPS 17483 | 691 |
| 1998 KD <sub>68</sub> | 1998 05 28.27710   | 15 36 21.55 | -03 09 25.8 | MPS 17482 | 691 | 1998 KN <sub>68</sub> | 1998 05 28.33781   | 15 32 16.36 | -02 55 51.6 | MPS 17483 | 691 |
| 1998 KD <sub>68</sub> | 1998 06 02.26680   | 15 31 47.67 | -03 16 10.7 | MPS 17482 | 691 | 1998 KN <sub>68</sub> | 1998 06 02.26462   | 15 28 39.30 | -02 59 30.0 | MPS 17483 | 691 |
| 1998 KD <sub>68</sub> | 1998 06 02.28753   | 15 31 46.52 | -03 16 13.1 | MPS 17482 | 691 | 1998 KN <sub>68</sub> | 1998 06 02.28536   | 15 28 38.38 | -02 59 31.4 | MPS 17483 | 691 |
| 1998 KD <sub>68</sub> | 1998 06 02.30832   | 15 31 45.40 | -03 16 15.1 | MPS 17482 | 691 | 1998 KN <sub>68</sub> | 1998 06 02.30615   | 15 28 37.46 | -02 59 33.2 | MPS 17483 | 691 |
| 1998 KE <sub>68</sub> | * 1998 05 28.28649 | 15 18 23.69 | -02 32 41.2 | MPS 17482 | 691 | 1998 KO <sub>68</sub> | * 1998 05 28.29885 | 15 36 13.89 | -02 49 53.3 | MPS 17483 | 691 |
| 1998 KE <sub>68</sub> | 1998 05 28.30730   | 15 18 22.83 | -02 32 41.0 | MPS 17482 | 691 | 1998 KO <sub>68</sub> | 1998 05 28.31965   | 15 36 12.91 | -02 49 55.2 | MPS 17483 | 691 |
| 1998 KE <sub>68</sub> | 1998 05 28.32817   | 15 18 21.90 | -02 32 40.8 | MPS 17482 | 691 | 1998 KO <sub>68</sub> | 1998 05 28.34052   | 15 36 11.92 | -02 49 56.3 | MPS 17483 | 691 |
| 1998 KE <sub>68</sub> | 1998 06 02.31889   | 15 15 05.32 | -02 34 48.8 | MPS 17482 | 691 | 1998 KO <sub>68</sub> | 1998 06 02.33093   | 15 32 28.32 | -02 56 58.6 | MPS 17483 | 691 |
| 1998 KE <sub>68</sub> | 1998 06 02.33958   | 15 15 04.52 | -02 34 49.5 | MPS 17482 | 691 | 1998 KO <sub>68</sub> | 1998 06 02.35162   | 15 32 27.43 | -02 57 00.8 | MPS 17483 | 691 |
| 1998 KE <sub>68</sub> | 1998 06 02.36048   | 15 15 03.71 | -02 34 50.7 | MPS 17482 | 691 | 1998 KO <sub>68</sub> | 1998 06 02.37252   | 15 32 26.51 | -02 57 02.7 | MPS 17483 | 691 |
| 1998 KF <sub>68</sub> | * 1998 05 28.28869 | 15 21 33.87 | -02 44 36.3 | MPS 17482 | 691 | 1998 KP <sub>68</sub> | * 1998 05 28.35229 | 16 27 29.82 | +00 55 02.3 | MPS 17483 | 691 |
| 1998 KF <sub>68</sub> | 1998 05 28.30949   | 15 21 32.80 | -02 44 40.7 | MPS 17482 | 691 | 1998 KP <sub>68</sub> | 1998 05 28.37308   | 16 27 28.54 | +00 54 56.6 | MPS 17483 | 691 |
| 1998 KF <sub>68</sub> | 1998 05 28.33036   | 15 21 31.71 | -02 44 45.1 | MPS 17482 | 691 | 1998 KP <sub>68</sub> | 1998 05 28.39393   | 16 27 27.24 | +00 54 51.0 | MPS 17483 | 691 |
| 1998 KF <sub>68</sub> | 1998 06 02.25693   | 15 17 32.94 | -03 04 16.9 | MPS 17482 | 691 | 1998 KP <sub>68</sub> | 1998 06 01.32470   | 16 23 33.00 | +00 34 31.4 | MPS 17483 | 691 |
| 1998 KF <sub>68</sub> | 1998 06 02.27766   | 15 17 31.96 | -03 04 22.4 | MPS 17482 | 691 | 1998 KP <sub>68</sub> | 1998 06 01.34543   | 16 23 31.70 | +00 34 23.8 | MPS 17483 | 691 |
| 1998 KF <sub>68</sub> | 1998 06 02.29846   | 15 17 30.94 | -03 04 28.1 | MPS 17482 | 691 | 1998 KP <sub>68</sub> | 1998 06 01.36600   | 16 23 30.43 | +00 34 16.6 | MPS 17483 | 691 |
| 1998 KG <sub>68</sub> | * 1998 05 28.31048 | 15 22 58.59 | -02 37 52.0 | MPS 17482 | 691 | 1998 KQ <sub>68</sub> | * 1998 05 28.35861 | 16 36 37.54 | +00 35 25.9 | MPS 17483 | 691 |
| 1998 KG <sub>68</sub> | 1998 05 28.33136   | 15 22 57.63 | -02 37 52.2 | MPS 17482 | 691 | 1998 KQ <sub>68</sub> | 1998 05 28.37940   | 16 36 36.45 | +00 35 29.5 | MPS 17483 | 691 |

|                        |                    |             |             |           |     |                        |                    |             |             |           |     |
|------------------------|--------------------|-------------|-------------|-----------|-----|------------------------|--------------------|-------------|-------------|-----------|-----|
| 1998 KQ <sub>68</sub>  | 1998 05 28.40026   | 16 36 35.37 | +00 35 33.0 | MPS 17483 | 691 | 1999 RR <sub>222</sub> | 1999 10 19.12225   | 22 41 02.62 | +08 41 36.0 | MPS 15207 | 704 |
| 1998 KQ <sub>68</sub>  | 1998 06 01.33148   | 16 33 20.80 | +00 45 40.2 | MPS 17483 | 691 | 1999 RR <sub>222</sub> | 1999 10 19.14957   | 22 41 02.22 | +08 41 20.4 | MPS 15207 | 704 |
| 1998 KQ <sub>68</sub>  | 1998 06 01.35221   | 16 33 19.75 | +00 45 43.2 | MPS 17483 | 691 | 1999 RR <sub>222</sub> | 1999 10 19.16320   | 22 41 02.13 | +08 41 12.9 | MPS 15207 | 704 |
| 1998 KQ <sub>68</sub>  | 1998 06 01.37279   | 16 33 18.69 | +00 45 45.5 | MPS 17483 | 691 | 1999 RR <sub>222</sub> | 1999 10 19.17685   | 22 41 01.94 | +08 41 06.0 | MPS 15207 | 704 |
| 1998 KT <sub>68</sub>  | * 1998 05 29.30077 | 15 19 24.97 | -03 41 07.0 | MPS 17483 | 691 | 1999 RD <sub>248</sub> | * 1999 09 05.98155 | 21 21 51.69 | -05 52 30.3 | MPS 16513 | 954 |
| 1998 KT <sub>68</sub>  | 1998 05 29.32153   | 15 19 23.86 | -03 40 45.9 | MPS 17483 | 691 | 1999 RD <sub>248</sub> | 1999 09 05.98440   | 21 21 51.58 | -05 52 30.8 | MPS 16513 | 954 |
| 1998 KT <sub>68</sub>  | 1998 05 29.34218   | 15 19 22.80 | -03 40 25.5 | MPS 17483 | 691 | 1999 RD <sub>248</sub> | 1999 09 05.98683   | 21 21 51.49 | -05 52 31.2 | MPS 16513 | 954 |
| 1998 KT <sub>68</sub>  | 1998 06 02.31973   | 15 16 18.48 | -02 37 51.9 | MPS 17483 | 691 | 1999 TV <sub>79</sub>  | 1999 10 16.27990   | 00 46 52.66 | +02 32 46.5 | MPS 13734 | 691 |
| 1998 KT <sub>68</sub>  | 1998 06 02.34042   | 15 16 17.53 | -02 37 33.2 | MPS 17483 | 691 | 1999 TV <sub>79</sub>  | 1999 10 16.32302   | 00 46 49.85 | +02 32 42.8 | MPS 13734 | 691 |
| 1998 KT <sub>68</sub>  | 1998 06 02.36132   | 15 16 16.58 | -02 37 14.5 | MPS 17483 | 691 | 1999 TV <sub>79</sub>  | 1999 10 16.34941   | 00 46 48.13 | +02 32 38.9 | MPS 13734 | 691 |
| 1998 KU <sub>68</sub>  | * 1998 05 29.30638 | 15 27 30.44 | -03 59 31.5 | MPS 17483 | 691 | 1999 TT <sub>120</sub> | 1999 11 01.18955   | 00 46 52.45 | +08 13 31.7 | MPS 15323 | 703 |
| 1998 KU <sub>68</sub>  | 1998 05 29.32713   | 15 27 29.12 | -03 59 14.8 | MPS 17483 | 691 | 1999 TX <sub>229</sub> | 1999 10 07.38155   | 02 44 44.51 | +17 02 14.7 | MPS 15414 | 691 |
| 1998 KU <sub>68</sub>  | 1998 05 29.34778   | 15 27 27.83 | -03 58 58.6 | MPS 17483 | 691 | 1999 TX <sub>229</sub> | 1999 10 07.40338   | 02 44 43.72 | +17 02 01.0 | MPS 15414 | 691 |
| 1998 KU <sub>68</sub>  | 1998 06 02.26118   | 15 23 41.43 | -03 09 05.0 | MPS 17483 | 691 | 1999 TX <sub>229</sub> | 1999 10 07.42583   | 02 44 42.87 | +17 01 46.5 | MPS 15414 | 691 |
| 1998 KU <sub>68</sub>  | 1998 06 02.28191   | 15 23 40.21 | -03 08 50.2 | MPS 17483 | 691 | 1999 TV <sub>232</sub> | 1999 10 08.31880   | 01 50 41.40 | +13 37 39.1 | MPS 15418 | 691 |
| 1998 KU <sub>68</sub>  | 1998 06 02.30271   | 15 23 39.00 | -03 08 35.0 | MPS 17483 | 691 | 1999 TV <sub>232</sub> | 1999 10 08.34036   | 01 50 40.18 | +13 37 32.9 | MPS 15418 | 691 |
| 1998 KV <sub>68</sub>  | * 1998 05 29.31249 | 15 36 20.30 | -03 47 15.4 | MPS 17483 | 691 | 1999 TV <sub>232</sub> | 1999 10 08.36185   | 01 50 39.13 | +13 37 26.1 | MPS 15418 | 691 |
| 1998 KV <sub>68</sub>  | 1998 05 29.33325   | 15 36 19.47 | -03 47 06.4 | MPS 17483 | 691 | 1999 VH <sub>226</sub> | * 1999 11 05.19741 | 00 39 08.48 | +02 53 59.7 | MPS 16661 | 691 |
| 1998 KV <sub>68</sub>  | 1998 05 29.35391   | 15 36 18.60 | -03 46 57.7 | MPS 17483 | 691 | 1999 VH <sub>226</sub> | 1999 11 05.21853   | 00 39 08.92 | +02 53 50.0 | MPS 16661 | 691 |
| 1998 KV <sub>68</sub>  | 1998 06 02.26822   | 15 33 50.80 | -03 20 47.3 | MPS 17483 | 691 | 1999 VH <sub>226</sub> | 1999 11 05.24072   | 00 39 09.38 | +02 53 39.9 | MPS 16661 | 691 |
| 1998 KV <sub>68</sub>  | 1998 06 02.28895   | 15 33 49.97 | -03 20 39.3 | MPS 17483 | 691 | 1999 VJ <sub>226</sub> | * 1999 11 05.23631 | 02 26 43.26 | +18 13 38.6 | MPC41063  | 704 |
| 1998 KV <sub>68</sub>  | 1998 06 02.30975   | 15 33 49.19 | -03 20 32.2 | MPS 17483 | 691 | 1999 VJ <sub>226</sub> | 1999 11 05.25250   | 02 26 42.14 | +18 13 31.1 | MPC41063  | 704 |
| 1998 KW <sub>68</sub>  | * 1998 05 29.42480 | 20 14 52.22 | -19 46 10.0 | MPS 17483 | 691 | 1999 VJ <sub>226</sub> | 1999 11 05.26880   | 02 26 41.11 | +18 13 24.5 | MPC41063  | 704 |
| 1998 KW <sub>68</sub>  | 1998 05 29.44035   | 20 14 52.71 | -19 46 09.8 | MPS 17483 | 691 | 1999 VJ <sub>226</sub> | 1999 11 05.28503   | 02 26 39.93 | +18 13 15.9 | MPC41063  | 704 |
| 1998 KW <sub>68</sub>  | 1998 05 29.45526   | 20 14 53.16 | -19 46 09.0 | MPS 17483 | 691 | 1999 XQ <sub>42</sub>  | 1999 10 22.31051   | 03 47 25.74 | +21 21 59.5 | MPS 8908  | 704 |
| 1998 KW <sub>68</sub>  | 1998 06 02.38839   | 20 16 53.28 | -19 45 10.8 | MPS 17483 | 691 | 1999 XQ <sub>42</sub>  | 1999 10 22.33778   | 03 47 24.62 | +21 22 01.9 | MPS 8908  | 704 |
| 1998 KW <sub>68</sub>  | 1998 06 02.41030   | 20 16 53.80 | -19 45 11.1 | MPS 17483 | 691 | 1999 XQ <sub>42</sub>  | 1999 10 22.35050   | 03 47 24.14 | +21 22 02.0 | MPS 8908  | 704 |
| 1998 KW <sub>68</sub>  | 1998 06 02.43233   | 20 16 54.33 | -19 45 11.0 | MPS 17483 | 691 | 1999 XG <sub>138</sub> | * 1999 12 02.29268 | 03 43 26.18 | +17 39 57.5 | MPS 9024  | 691 |
| 1998 KX <sub>68</sub>  | * 1998 05 29.42909 | 20 21 04.48 | -19 36 38.1 | MPS 17483 | 691 | 1999 XG <sub>138</sub> | 1999 12 02.29659   | 03 43 25.92 | +17 39 56.5 | MPS 9024  | 691 |
| 1998 KX <sub>68</sub>  | 1998 05 29.44464   | 20 21 04.81 | -19 36 40.2 | MPS 17483 | 691 | 1999 XG <sub>138</sub> | 1999 12 02.30066   | 03 43 25.65 | +17 39 55.2 | MPS 9024  | 691 |
| 1998 KX <sub>68</sub>  | 1998 05 29.45956   | 20 21 05.07 | -19 36 43.2 | MPS 17483 | 691 | 1999 XG <sub>232</sub> | * 1999 12 02.29265 | 03 43 20.22 | +17 39 54.1 | MPS 14078 | 691 |
| 1998 KX <sub>68</sub>  | 1998 06 02.39223   | 20 22 26.45 | -19 51 53.5 | MPS 17483 | 691 | 1999 XG <sub>232</sub> | 1999 12 02.29656   | 03 43 20.04 | +17 39 52.6 | MPS 14078 | 691 |
| 1998 KX <sub>68</sub>  | 1998 06 02.41414   | 20 22 26.80 | -19 51 58.0 | MPS 17483 | 691 | 1999 XG <sub>232</sub> | 1999 12 02.30062   | 03 43 19.84 | +17 39 50.6 | MPS 14078 | 691 |
| 1998 KX <sub>68</sub>  | 1998 06 02.43617   | 20 22 27.16 | -19 52 02.3 | MPS 17483 | 691 | 1999 XH <sub>232</sub> | * 1999 12 03.27460 | 03 45 14.74 | +17 40 45.7 | MPS 14078 | 691 |
| 1998 KY <sub>68</sub>  | * 1998 05 29.43081 | 20 23 33.21 | -19 33 26.9 | MPS 17483 | 691 | 1999 XH <sub>232</sub> | 1999 12 03.27863   | 03 45 14.45 | +17 40 44.9 | MPS 14078 | 691 |
| 1998 KY <sub>68</sub>  | 1998 05 29.44636   | 20 23 33.55 | -19 33 29.3 | MPS 17483 | 691 | 1999 XH <sub>232</sub> | 1999 12 03.28253   | 03 45 14.12 | +17 40 44.8 | MPS 14078 | 691 |
| 1998 KY <sub>68</sub>  | 1998 05 29.46127   | 20 23 33.90 | -19 33 32.8 | MPS 17483 | 691 | 1999 XQ <sub>243</sub> | 1999 12 13.44419   | 08 03 53.73 | +21 30 33.6 | MPS 16711 | 691 |
| 1998 KY <sub>68</sub>  | 1998 06 02.39397   | 20 24 56.85 | -19 46 50.0 | MPS 17483 | 691 | 1999 XQ <sub>243</sub> | 1999 12 13.46666   | 08 03 53.03 | +21 30 37.4 | MPS 16711 | 691 |
| 1998 KY <sub>68</sub>  | 1998 06 02.41588   | 20 24 57.20 | -19 46 54.9 | MPS 17483 | 691 | 1999 XQ <sub>243</sub> | 1999 12 13.48926   | 08 03 52.33 | +21 30 40.1 | MPS 16711 | 691 |
| 1998 KY <sub>68</sub>  | 1998 06 02.43791   | 20 24 57.55 | -19 47 00.0 | MPS 17483 | 691 | 2000 AG <sub>219</sub> | 2000 01 12.32321   | 07 58 37.93 | +22 59 36.9 | MPS 9466  | 691 |
| 1998 SV                | 2000 03 04.23739   | 11 20 34.46 | +07 25 58.5 | MPS 11873 | 704 | 2000 AG <sub>219</sub> | 2000 01 12.32952   | 07 58 37.49 | +22 59 38.9 | MPS 9466  | 691 |
| 1998 SV                | 2000 03 04.26432   | 11 20 32.72 | +07 26 07.1 | MPS 11873 | 704 | 2000 AG <sub>219</sub> | 2000 01 12.33549   | 07 58 36.99 | +22 59 41.1 | MPS 9466  | 691 |
| 1998 SV                | 2000 03 04.27777   | 11 20 31.83 | +07 26 11.9 | MPS 11873 | 704 | 2000 AP <sub>242</sub> | 2000 01 10.51846   | 10 36 15.90 | +08 53 42.1 | MPS 10251 | 691 |
| 1998 SV                | 2000 03 04.29143   | 11 20 30.91 | +07 26 16.2 | MPS 11873 | 704 | 2000 AP <sub>242</sub> | 2000 01 10.53313   | 10 36 15.67 | +08 53 45.3 | MPS 10251 | 691 |
| 1998 SD <sub>44</sub>  | 1998 09 30.03117   | 02 16 48.69 | +15 17 36.6 | MPS 2693  | 120 | 2000 AP <sub>242</sub> | 2000 01 10.54771   | 10 36 15.48 | +08 53 48.6 | MPS 10251 | 691 |
| 1998 SD <sub>44</sub>  | 1998 09 30.04061   | 02 16 48.32 | +15 17 37.6 | MPS 2693  | 120 | 2000 BV <sub>28</sub>  | * 2000 01 30.38327 | 10 07 47.71 | +13 50 46.3 | MPS 10304 | 703 |
| 1999 CY <sub>154</sub> | 1999 02 09.41938   | 10 02 44.08 | +12 21 56.9 | MPS 4843  | 568 | 2000 BV <sub>28</sub>  | 2000 01 30.39498   | 10 07 47.10 | +13 50 50.5 | MPS 10304 | 703 |
| 1999 CY <sub>154</sub> | 1999 02 09.42418   | 10 02 43.77 | +12 21 57.9 | MPS 4843  | 568 | 2000 BV <sub>28</sub>  | 2000 01 30.40668   | 10 07 46.53 | +13 50 54.1 | MPS 10304 | 703 |
| 1999 RR <sub>222</sub> | 1999 10 10.17990   | 22 43 30.16 | +10 03 53.0 | MPS 15207 | 704 | 2000 BV <sub>28</sub>  | 2000 01 30.41840   | 10 07 45.87 | +13 50 58.3 | MPS 10304 | 703 |
| 1999 RR <sub>222</sub> | 1999 10 10.19537   | 22 43 29.77 | +10 03 44.2 | MPS 15207 | 704 | 2000 BG <sub>31</sub>  | * 2000 01 26.28495 | 09 11 13.61 | +15 18 13.5 | MPS 14120 | 691 |
| 1999 RR <sub>222</sub> | 1999 10 10.21081   | 22 43 29.37 | +10 03 34.8 | MPS 15207 | 704 | 2000 BG <sub>31</sub>  | 2000 01 26.30660   | 09 11 12.51 | +15 18 19.0 | MPS 14120 | 691 |
| 1999 RR <sub>222</sub> | 1999 10 10.22626   | 22 43 28.98 | +10 03 26.7 | MPS 15207 | 704 | 2000 BG <sub>31</sub>  | 2000 01 26.32840   | 09 11 11.46 | +15 18 24.5 | MPS 14120 | 691 |
| 1999 RR <sub>222</sub> | 1999 10 10.24164   | 22 43 28.63 | +10 03 18.3 | MPS 15207 | 704 | 2000 BG <sub>31</sub>  | 2000 02 01.39053   | 09 06 12.82 | +15 40 11.8 | MPS 14120 | 691 |

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| IDENTIFICATION CHANGES            |                    |             |                 |                       |            |      |     |  |  |
|-----------------------------------|--------------------|-------------|-----------------|-----------------------|------------|------|-----|--|--|
| Continuation to <i>MPC</i> 41062. |                    |             |                 |                       |            |      |     |  |  |
| Object                            | Date               | UT          | $\alpha_{2000}$ | $\delta_{2000}$       | Originally | Mag. | Obs |  |  |
| 1941 SS <sub>2</sub>              | * 1941 09 27.88681 | 00 40 22.97 | +13 20 15.7     | 1941 SX               |            |      | 062 |  |  |
| 1976 UM <sub>21</sub>             | * 1976 10 24.58344 | 01 49 00.41 | +09 27 16.3     | 1976 UJ <sub>11</sub> | 18.7       |      | 381 |  |  |
| 1984 YN <sub>7</sub>              | * 1984 12 29.90953 | 06 06 44.33 | +28 40 27.1     | 1984 YV <sub>3</sub>  | 17.0       |      | 095 |  |  |
| 1987 UB <sub>10</sub>             | * 1987 10 27.93446 | 02 56 21.34 | +15 55 12.6     | 1987 UO <sub>5</sub>  | 15.8       |      | 095 |  |  |
| 1989 GY <sub>8</sub>              | * 1989 04 10.25417 | 13 38 27.11 | -11 29 08.5     | 1989 GD <sub>6</sub>  | 19.0       |      | 809 |  |  |
| 1989 GY <sub>8</sub>              | 1989 04 10.26458   | 13 38 26.58 | -11 29 05.4     | 1989 GD <sub>6</sub>  |            |      | 809 |  |  |
| 1989 GY <sub>8</sub>              | 1989 04 10.27500   | 13 38 26.10 | -11 29 02.8     | 1989 GD <sub>6</sub>  |            |      | 809 |  |  |
| 1991 PD <sub>32</sub>             | * 1991 08 14.16181 | 20 40 12.05 | -22 15 48.1     | 1991 PW <sub>19</sub> | 19.5       |      | 809 |  |  |
| 1991 PD <sub>32</sub>             | 1991 08 14.17500   | 20 40 11.33 | -22 15 50.4     | 1991 PW <sub>19</sub> |            |      | 809 |  |  |
| 1991 PD <sub>32</sub>             | 1991 08 14.18819   | 20 40 10.63 | -22 15 52.0     | 1991 PW <sub>19</sub> |            |      | 809 |  |  |
| 1991 PE <sub>32</sub>             | * 1991 08 14.16181 | 20 49 32.82 | -22 16 24.4     | 1991 PY <sub>19</sub> | 19.3       |      | 809 |  |  |
| 1991 PE <sub>32</sub>             | 1991 08 14.17500   | 20 49 31.99 | -22 16 24.0     | 1991 PY <sub>19</sub> |            |      | 809 |  |  |
| 1991 PE <sub>32</sub>             | 1991 08 14.18819   | 20 49 31.20 | -22 16 23.4     | 1991 PY <sub>19</sub> |            |      | 809 |  |  |
| 1992 CR <sub>8</sub>              | * 1992 02 12.20833 | 08 11 59.75 | +14 36 19.2     | 1992 CR <sub>3</sub>  |            |      | 809 |  |  |
| 1992 CR <sub>8</sub>              | 1992 02 12.22153   | 08 11 58.97 | +14 36 21.4     | 1992 CR <sub>3</sub>  |            |      | 809 |  |  |
| 1992 CR <sub>8</sub>              | 1992 02 12.23472   | 08 11 58.29 | +14 36 22.1     | 1992 CR <sub>3</sub>  |            |      | 809 |  |  |
| 1992 HL <sub>7</sub>              | * 1992 04 26.31074 | 13 52 44.64 | -01 53 42.6     | 2000 QZ <sub>97</sub> |            |      | 691 |  |  |
| 1992 HL <sub>7</sub>              | 1992 04 26.33481   | 13 52 43.63 | -01 53 34.1     | 2000 QZ <sub>97</sub> | 20.5 V     |      | 691 |  |  |
| 1992 HL <sub>7</sub>              | 1992 04 26.35893   | 13 52 42.60 | -01 53 25.4     | 2000 QZ <sub>97</sub> |            |      | 691 |  |  |
| 1992 UW <sub>10</sub>             | * 1992 10 22.51997 | 01 29 58.57 | +14 49 40.3     | 1992 US <sub>2</sub>  | 17         |      | 399 |  |  |
| 1992 UW <sub>10</sub>             | 1992 10 22.53472   | 01 29 57.67 | +14 49 37.3     | 1992 US <sub>2</sub>  |            |      | 399 |  |  |
| 1993 HF <sub>9</sub>              | * 1993 04 16.52653 | 11 55 05.77 | +04 46 05.8     | 1993 FC <sub>52</sub> | 17.4       |      | 413 |  |  |
| 1993 HG <sub>9</sub>              | * 1993 04 17.43889 | 11 56 07.51 | +00 44 27.0     | 1993 FK <sub>48</sub> | 18.6       |      | 413 |  |  |
| 1993 OH <sub>14</sub>             | * 1993 07 24.16042 | 19 49 01.82 | -21 17 59.6     | 1993 OR <sub>10</sub> |            |      | 809 |  |  |
| 1993 QY <sub>10</sub>             | * 1993 08 17.05417 | 23 20 08.63 | -00 14 59.3     | 1993 QV <sub>2</sub>  |            |      | 010 |  |  |
| 1993 QZ <sub>10</sub>             | * 1993 08 17.05417 | 23 20 11.57 | -00 16 01.4     | 1993 QX <sub>2</sub>  |            |      | 010 |  |  |
| 1996 SU <sub>8</sub>              | * 1996 09 18.36242 | 22 55 57.67 | -04 31 34.9     | 1996 RN <sub>24</sub> | 19.0 V     |      | 566 |  |  |
| 1996 SU <sub>8</sub>              | 1996 09 18.37227   | 22 55 57.16 | -04 31 36.9     | 1996 RN <sub>24</sub> | 18.6 V     |      | 566 |  |  |
| 1996 SU <sub>8</sub>              | 1996 09 18.38083   | 22 55 56.75 | -04 31 39.1     | 1996 RN <sub>24</sub> | 19.0 V     |      | 566 |  |  |
| 1996 VG <sub>41</sub>             | * 1996 11 15.82913 | 02 23 56.17 | +03 22 33.4     | 1996 VE <sub>40</sub> | 16.5       |      | 095 |  |  |
| 1996 XM <sub>37</sub>             | * 1996 12 14.09183 | 02 55 08.08 | +24 52 52.4     | 1996 XE <sub>34</sub> | 20.7 V     |      | 691 |  |  |
| 1996 XM <sub>37</sub>             | 1996 12 14.11486   | 02 55 07.34 | +24 52 48.4     | 1996 XE <sub>34</sub> | 21.0 V     |      | 691 |  |  |
| 1996 XM <sub>37</sub>             | 1996 12 14.13797   | 02 55 06.62 | +24 52 43.7     | 1996 XE <sub>34</sub> | 21.1 V     |      | 691 |  |  |
| 1997 XB <sub>14</sub>             | * 1997 12 06.32023 | 05 43 32.66 | +42 39 11.9     | 1981 EX               | 20.1       |      | 704 |  |  |
| 1997 XB <sub>14</sub>             | 1997 12 06.33901   | 05 43 31.38 | +42 39 13.6     | 1981 EX               | 20.3       |      | 704 |  |  |
| 1997 XB <sub>14</sub>             | 1997 12 06.35630   | 05 43 29.82 | +42 39 16.8     | 1981 EX               | 20.6       |      | 704 |  |  |
| 1997 XB <sub>14</sub>             | 1997 12 06.37329   | 05 43 28.75 | +42 39 20.9     | 1981 EX               | 20.7       |      | 704 |  |  |
| 1998 BF <sub>49</sub>             | * 1998 01 24.08472 | 09 13 35.09 | +16 53 31.1     | 1998 BM <sub>6</sub>  | 19.7 V     |      | 910 |  |  |
| 1998 BF <sub>49</sub>             | 1998 01 24.09763   | 09 13 34.51 | +16 53 36.1     | 1998 BM <sub>6</sub>  | 19.7 V     |      | 910 |  |  |
| 1998 BF <sub>49</sub>             | 1998 01 24.11090   | 09 13 33.84 | +16 53 41.0     | 1998 BM <sub>6</sub>  | 19.3 V     |      | 910 |  |  |
| 1998 BF <sub>49</sub>             | 1998 01 24.37453   | 09 13 22.13 | +16 55 24.7     | 1998 BM <sub>6</sub>  | 19.8 V     |      | 691 |  |  |
| 1998 BF <sub>49</sub>             | 1998 01 24.38073   | 09 13 21.84 | +16 55 27.0     | 1998 BM <sub>6</sub>  | 19.3 V     |      | 691 |  |  |
| 1998 BF <sub>49</sub>             | 1998 01 24.39058   | 09 13 21.39 | +16 55 30.9     | 1998 BM <sub>6</sub>  | 19.4 V     |      | 691 |  |  |
| 1998 EC <sub>22</sub>             | * 1998 03 06.09213 | 14 11 22.02 | -13 15 18.2     | 5585 P-L              | 20.2 V     |      | 910 |  |  |
| 1998 EC <sub>22</sub>             | 1998 03 06.11927   | 14 11 21.69 | -13 15 17.0     | 5585 P-L              | 21.2 V     |      | 910 |  |  |

|                        |                    |             |             |                        |        |     |                        |                    |             |             |                        |        |     |
|------------------------|--------------------|-------------|-------------|------------------------|--------|-----|------------------------|--------------------|-------------|-------------|------------------------|--------|-----|
| 1998 EC <sub>22</sub>  | 1998 03 06.14324   | 14 11 21.41 | -13 15 15.4 | 5585 P-L               | 20.9 V | 910 | 1999 KB <sub>19</sub>  | 1999 05 19.18592   | 14 13 21.56 | -12 19 18.2 | 1999 JP <sub>124</sub> | 19.1   | 704 |
| 1998 FS <sub>148</sub> | * 1998 03 21.38772 | 12 25 03.98 | +01 15 43.4 | 2000 QU <sub>29</sub>  | 19.8 V | 691 | 1999 KB <sub>19</sub>  | 1999 05 19.19987   | 14 13 20.64 | -12 19 18.0 | 1999 JP <sub>124</sub> | 19.0   | 704 |
| 1998 FS <sub>148</sub> | 1998 03 21.41287   | 12 25 02.67 | +01 15 46.5 | 2000 QU <sub>29</sub>  | 19.6 V | 691 | 1999 KC <sub>19</sub>  | * 1999 05 21.27274 | 15 46 03.20 | -07 46 37.9 | 1999 KL <sub>4</sub>   |        | 732 |
| 1998 FS <sub>148</sub> | 1998 03 21.43677   | 12 25 01.41 | +01 15 49.2 | 2000 QU <sub>29</sub>  | 19.4 V | 691 | 1999 OG <sub>5</sub>   | * 1999 07 22.30636 | 22 15 49.42 | +05 04 19.6 | 1999 NJ <sub>56</sub>  | 19.7   | 704 |
| 1998 HF <sub>154</sub> | * 1998 04 18.24743 | 12 28 09.39 | +00 42 10.8 | 1998 FN <sub>61</sub>  | 21.3 V | 691 | 1999 OG <sub>5</sub>   | 1999 07 22.31920   | 22 15 49.05 | +05 04 21.8 | 1999 NJ <sub>56</sub>  | 20.1   | 704 |
| 1998 HF <sub>154</sub> | 1998 04 18.26814   | 12 28 08.29 | +00 42 15.2 | 1998 FN <sub>61</sub>  | 21.4 V | 691 | 1999 OG <sub>5</sub>   | 1999 07 22.34472   | 22 15 48.42 | +05 04 26.2 | 1999 NJ <sub>56</sub>  | 19.7   | 704 |
| 1998 HF <sub>154</sub> | 1998 04 18.28898   | 12 28 07.25 | +00 42 19.8 | 1998 FN <sub>61</sub>  | 21.4 V | 691 | 1999 RT <sub>255</sub> | * 1999 09 14.14713 | 21 17 18.18 | -06 14 40.9 | 1999 RD <sub>248</sub> | 19.7   | 704 |
| 1998 SL <sub>167</sub> | * 1998 09 18.37951 | 00 39 51.29 | -01 59 39.2 | 1998 RS <sub>76</sub>  | 19.2   | 704 | 1999 RT <sub>255</sub> | 1999 09 14.16015   | 21 17 17.85 | -06 14 42.5 | 1999 RD <sub>248</sub> | 19.9   | 704 |
| 1998 SL <sub>167</sub> | 1998 09 18.39250   | 00 39 50.68 | -01 59 39.1 | 1998 RS <sub>76</sub>  | 19.2   | 704 | 1999 RT <sub>255</sub> | 1999 09 14.18642   | 21 17 17.09 | -06 14 46.8 | 1999 RD <sub>248</sub> | 19.8   | 704 |
| 1998 SL <sub>167</sub> | 1998 09 18.40610   | 00 39 49.78 | -01 59 41.1 | 1998 RS <sub>76</sub>  | 19.7   | 704 | 1999 TB <sub>323</sub> | * 1999 10 11.18225 | 23 22 12.22 | -00 20 56.8 | 1999 TS <sub>52</sub>  | 20.3 V | 691 |
| 1998 SL <sub>167</sub> | 1998 09 18.43289   | 00 39 48.03 | -01 59 41.5 | 1998 RS <sub>76</sub>  | 19.7   | 704 | 1999 TB <sub>323</sub> | 1999 10 11.20380   | 23 22 11.21 | -00 21 03.1 | 1999 TS <sub>52</sub>  | 20.7 V | 691 |
| 1999 CN <sub>158</sub> | * 1999 02 08.97204 | 09 02 16.26 | +14 11 34.6 | 1999 BJ <sub>5</sub>   | 17.4 R | 046 | 1999 TB <sub>323</sub> | 1999 10 11.22526   | 23 22 10.18 | -00 21 09.6 | 1999 TS <sub>52</sub>  | 20.9 V | 691 |
| 1999 CN <sub>158</sub> | 1999 02 08.97523   | 09 02 15.97 | +14 11 35.6 | 1999 BJ <sub>5</sub>   |        | 046 | 1999 TC <sub>323</sub> | * 1999 10 11.18332 | 23 23 44.69 | -00 27 49.4 | 1999 TT <sub>52</sub>  | 21.2 V | 691 |
| 1999 CN <sub>158</sub> | 1999 02 08.97767   | 09 02 15.87 | +14 11 36.7 | 1999 BJ <sub>5</sub>   |        | 046 | 1999 TC <sub>323</sub> | 1999 10 11.20488   | 23 23 44.03 | -00 27 58.0 | 1999 TT <sub>52</sub>  | 20.8 V | 691 |
| 1999 CN <sub>158</sub> | 1999 02 08.97992   | 09 02 15.73 | +14 11 36.9 | 1999 BJ <sub>5</sub>   |        | 046 | 1999 TC <sub>323</sub> | 1999 10 11.22633   | 23 23 43.34 | -00 28 07.1 | 1999 TT <sub>52</sub>  | 21.3 V | 691 |
| 1999 DH <sub>9</sub>   | * 1999 02 20.97084 | 09 08 06.57 | +14 27 40.2 | 1999 CP <sub>118</sub> |        | 557 | 1999 US <sub>60</sub>  | * 1999 10 16.17748 | 23 18 36.61 | -00 45 52.4 | 1999 TL <sub>312</sub> | 21.7 V | 691 |
| 1999 DH <sub>9</sub>   | 1999 02 20.97618   | 09 08 06.27 | +14 27 41.7 | 1999 CP <sub>118</sub> |        | 557 | 1999 US <sub>60</sub>  | 1999 10 16.19080   | 23 18 36.04 | -00 45 56.4 | 1999 TL <sub>312</sub> | 21.9 V | 691 |
| 1999 DH <sub>9</sub>   | 1999 02 20.98177   | 09 08 06.07 | +14 27 43.6 | 1999 CP <sub>118</sub> |        | 557 | 1999 US <sub>60</sub>  | 1999 10 16.20200   | 23 18 35.60 | -00 45 59.1 | 1999 TL <sub>312</sub> | 21.3 V | 691 |
| 1999 DJ <sub>9</sub>   | * 1999 02 24.88100 | 08 47 21.95 | +17 50 56.5 | 1999 DL <sub>3</sub>   | 17.9 R | 046 | 1999 VZ <sub>226</sub> | * 1999 11 05.25394 | 01 57 39.65 | +11 56 06.5 | 1999 UX <sub>51</sub>  | 19.5   | 704 |
| 1999 DJ <sub>9</sub>   | 1999 02 24.88293   | 08 47 21.89 | +17 50 56.1 | 1999 DL <sub>3</sub>   |        | 046 | 1999 VZ <sub>226</sub> | 1999 11 05.27021   | 01 57 38.89 | +11 56 03.2 | 1999 UX <sub>51</sub>  | 19.3   | 704 |
| 1999 DJ <sub>9</sub>   | 1999 02 24.88485   | 08 47 21.78 | +17 50 56.8 | 1999 DL <sub>3</sub>   |        | 046 | 1999 VZ <sub>226</sub> | 1999 11 05.28646   | 01 57 38.15 | +11 55 59.4 | 1999 UX <sub>51</sub>  | 19.4   | 704 |
| 1999 DJ <sub>9</sub>   | 1999 02 24.88884   | 08 47 21.70 | +17 50 57.9 | 1999 DL <sub>3</sub>   |        | 046 | 1999 VA <sub>227</sub> | * 1999 11 06.23034 | 00 39 43.95 | +02 45 48.5 | 1999 VH <sub>226</sub> | 21.7 V | 691 |
| 1999 GR <sub>61</sub>  | * 1999 04 14.32888 | 12 28 35.12 | -05 05 42.8 | 1999 GC <sub>35</sub>  | 18.7   | 704 | 1999 VA <sub>227</sub> | 1999 11 06.24608   | 00 39 44.42 | +02 45 45.4 | 1999 VH <sub>226</sub> | 22.1 V | 691 |
| 1999 GR <sub>61</sub>  | 1999 04 14.33847   | 12 28 34.66 | -05 05 40.5 | 1999 GC <sub>35</sub>  | 18.7   | 704 | 1999 XM <sub>261</sub> | * 1999 12 05.29663 | 03 41 55.49 | +17 24 48.7 | 1999 XG <sub>232</sub> | 20.6 V | 691 |
| 1999 GR <sub>61</sub>  | 1999 04 14.34856   | 12 28 34.21 | -05 05 38.5 | 1999 GC <sub>35</sub>  | 18.7   | 704 | 1999 XM <sub>261</sub> | 1999 12 05.30059   | 03 41 55.33 | +17 24 46.9 | 1999 XG <sub>232</sub> | 21.0 V | 691 |
| 1999 GR <sub>61</sub>  | 1999 04 14.35831   | 12 28 33.62 | -05 05 38.0 | 1999 GC <sub>35</sub>  | 18.7   | 704 | 1999 XM <sub>261</sub> | 1999 12 05.30452   | 03 41 55.11 | +17 24 45.4 | 1999 XG <sub>232</sub> | 21.2 V | 691 |
| 1999 GS <sub>61</sub>  | * 1999 04 12.38723 | 14 39 33.19 | -09 48 27.9 | 1999 JJ <sub>68</sub>  | 19.2   | 704 | 1999 XN <sub>261</sub> | * 1999 12 07.18617 | 03 38 20.92 | +17 34 52.6 | 1999 XG <sub>138</sub> | 20.8 V | 691 |
| 1999 GS <sub>61</sub>  | 1999 04 12.40447   | 14 39 32.04 | -09 48 23.1 | 1999 JJ <sub>68</sub>  | 19.7   | 704 | 1999 XN <sub>261</sub> | 1999 12 07.19036   | 03 38 20.66 | +17 34 52.2 | 1999 XG <sub>138</sub> | 21.3 V | 691 |
| 1999 GS <sub>61</sub>  | 1999 04 12.43901   | 14 39 30.49 | -09 48 18.3 | 1999 JJ <sub>68</sub>  | 19.4   | 704 | 1999 XN <sub>261</sub> | 1999 12 07.19444   | 03 38 20.48 | +17 34 51.6 | 1999 XG <sub>138</sub> | 21.4 V | 691 |
| 1999 GS <sub>61</sub>  | 1999 04 12.45636   | 14 39 29.28 | -09 48 11.2 | 1999 JJ <sub>68</sub>  | 19.4   | 704 | 1999 XO <sub>261</sub> | * 1999 12 07.18746 | 03 40 40.28 | +17 43 55.0 | 1999 XH <sub>232</sub> | 22.0 V | 691 |
| 1999 JD <sub>137</sub> | * 1999 05 15.23739 | 14 16 41.60 | -12 40 45.1 | 1999 HG <sub>5</sub>   | 19.0 R | 703 | 1999 XO <sub>261</sub> | 1999 12 07.19167   | 03 40 40.06 | +17 43 54.3 | 1999 XH <sub>232</sub> | 21.8 V | 691 |
| 1999 JD <sub>137</sub> | 1999 05 15.26509   | 14 16 40.11 | -12 40 41.0 | 1999 HG <sub>5</sub>   | 18.4 R | 703 | 1999 XO <sub>261</sub> | 1999 12 07.19574   | 03 40 39.85 | +17 43 53.2 | 1999 XH <sub>232</sub> | 21.9 V | 691 |
| 1999 JD <sub>137</sub> | 1999 05 15.27926   | 14 16 39.32 | -12 40 37.7 | 1999 HG <sub>5</sub>   | 18.7 R | 703 | 2000 CO <sub>141</sub> | * 2000 02 02.35225 | 10 24 47.55 | +11 01 35.4 | 2000 AP <sub>242</sub> | 19.2 R | 703 |
| 1999 JD <sub>137</sub> | 1999 05 15.29240   | 14 16 38.62 | -12 40 35.2 | 1999 HG <sub>5</sub>   | 18.5 R | 703 | 2000 CO <sub>141</sub> | 2000 02 02.36405   | 10 24 47.04 | +11 01 39.4 | 2000 AP <sub>242</sub> | 18.7 R | 703 |
| 1999 KX <sub>18</sub>  | * 1999 05 17.26311 | 14 51 09.03 | +01 52 27.6 | 1999 JM <sub>92</sub>  | 19.2   | 704 | 2000 CO <sub>141</sub> | 2000 02 02.37582   | 10 24 46.53 | +11 01 47.0 | 2000 AP <sub>242</sub> | 19.3 R | 703 |
| 1999 KX <sub>18</sub>  | 1999 05 17.27538   | 14 51 08.43 | +01 52 32.2 | 1999 JM <sub>92</sub>  | 19.2   | 704 | 2000 CO <sub>141</sub> | 2000 02 02.38762   | 10 24 45.90 | +11 01 52.1 | 2000 AP <sub>242</sub> | 19.0 R | 703 |
| 1999 KX <sub>18</sub>  | 1999 05 17.28758   | 14 51 07.89 | +01 52 34.1 | 1999 JM <sub>92</sub>  | 19.1   | 704 | 2000 CP <sub>141</sub> | * 2000 02 06.35759 | 10 01 33.77 | +14 30 48.8 | 2000 BV <sub>28</sub>  | 19.4 R | 703 |
| 1999 KX <sub>18</sub>  | 1999 05 17.29973   | 14 51 07.23 | +01 52 36.9 | 1999 JM <sub>92</sub>  | 19.1   | 704 | 2000 CP <sub>141</sub> | 2000 02 06.36926   | 10 01 33.19 | +14 30 51.7 | 2000 BV <sub>28</sub>  | 19.3 R | 703 |
| 1999 KX <sub>18</sub>  | 1999 05 17.31191   | 14 51 06.43 | +01 52 40.1 | 1999 JM <sub>92</sub>  | 19.6   | 704 | 2000 CP <sub>141</sub> | 2000 02 06.38094   | 10 01 32.48 | +14 30 56.0 | 2000 BV <sub>28</sub>  | 19.4 R | 703 |
| 1999 KY <sub>18</sub>  | * 1999 05 18.28663 | 15 34 17.60 | -22 02 52.2 | 2000 QZ <sub>16</sub>  | 18.6   | 704 | 2000 CP <sub>141</sub> | 2000 02 06.39259   | 10 01 31.87 | +14 30 59.4 | 2000 BV <sub>28</sub>  | 19.3 R | 703 |
| 1999 KY <sub>18</sub>  | 1999 05 18.30053   | 15 34 16.62 | -22 02 47.6 | 2000 QZ <sub>16</sub>  | 18.2   | 704 | 2000 GS <sub>183</sub> | * 2000 04 09.39734 | 13 07 44.83 | -07 52 51.6 | 2000 GP <sub>146</sub> | 19.7 R | 568 |
| 1999 KY <sub>18</sub>  | 1999 05 18.31451   | 15 34 15.77 | -22 02 46.3 | 2000 QZ <sub>16</sub>  | 18.2   | 704 | 2000 GS <sub>183</sub> | 2000 04 09.40122   | 13 07 44.61 | -07 52 50.4 | 2000 GP <sub>146</sub> | 19.8 R | 568 |
| 1999 KY <sub>18</sub>  | 1999 05 18.32839   | 15 34 14.86 | -22 02 42.8 | 2000 QZ <sub>16</sub>  | 18.6   | 704 | 2000 GT <sub>183</sub> | * 2000 04 11.36799 | 13 53 18.28 | -12 43 33.0 | 2000 GG <sub>151</sub> | 20.7 V | 691 |
| 1999 KZ <sub>18</sub>  | * 1999 05 18.24409 | 15 32 53.31 | -14 46 13.9 | 1999 JA <sub>107</sub> | 19.3   | 704 | 2000 GT <sub>183</sub> | 2000 04 11.38977   | 13 53 17.24 | -12 43 27.2 | 2000 GG <sub>151</sub> | 20.9 V | 691 |
| 1999 KZ <sub>18</sub>  | 1999 05 18.25809   | 15 32 52.51 | -14 46 14.3 | 1999 JA <sub>107</sub> | 19.1   | 704 | 2000 GT <sub>183</sub> | 2000 04 11.41093   | 13 53 16.21 | -12 43 20.7 | 2000 GG <sub>151</sub> | 20.9 V | 691 |
| 1999 KZ <sub>18</sub>  | 1999 05 18.28608   | 15 32 50.55 | -14 46 10.3 | 1999 JA <sub>107</sub> | 19.4   | 704 | 2000 LV <sub>36</sub>  | * 2000 06 01.29444 | 13 51 15.44 | -16 27 14.9 | 2000 JH <sub>21</sub>  | 20.7   | 608 |
| 1999 KA <sub>19</sub>  | * 1999 05 18.29681 | 16 21 47.36 | -19 34 06.7 | 1999 JG <sub>123</sub> | 19.2   | 704 | 2000 LV <sub>36</sub>  | 2000 06 01.30444   | 13 51 15.10 | -16 27 13.9 | 2000 JH <sub>21</sub>  | 20.4   | 608 |
| 1999 KA <sub>19</sub>  | 1999 05 18.31079   | 16 21 46.41 | -19 34 06.6 | 1999 JG <sub>123</sub> | 19.0   | 704 | 2000 LV <sub>36</sub>  | 2000 06 01.31475   | 13 51 14.80 | -16 27 12.5 | 2000 JH <sub>21</sub>  | 20.7   | 608 |
| 1999 KA <sub>19</sub>  | 1999 05 18.32468   | 16 21 45.45 | -19 34 06.5 | 1999 JG <sub>123</sub> | 19.0   | 704 | 2000 LW <sub>36</sub>  | * 2000 06 01.34259 | 14 36 40.11 | -21 54 42.3 | 2000 JM <sub>60</sub>  | 20.0   | 608 |
| 1999 KA <sub>19</sub>  | 1999 05 18.33857   | 16 21 44.65 | -19 34 06.3 | 1999 JG <sub>123</sub> | 19.2   | 704 | 2000 LW <sub>36</sub>  | 2000 06 01.35335   | 14 36 39.52 | -21 54 37.8 | 2000 JM <sub>60</sub>  | 20.0   | 608 |
| 1999 KA <sub>19</sub>  | 1999 05 18.35245   | 16 21 43.83 | -19 34 06.1 | 1999 JG <sub>123</sub> | 19.2   | 704 | 2000 LW <sub>36</sub>  | 2000 06 01.36388   | 14 36 38.96 | -21 54 33.2 | 2000 JM <sub>60</sub>  | 20.0   | 608 |
| 1999 KB <sub>19</sub>  | * 1999 05 19.15811 | 14 13 22.83 | -12 19 23.0 | 1999 JP <sub>124</sub> | 18.8   | 704 | 2000 LX <sub>36</sub>  | * 2000 06 03.28744 | 14 11 13.46 | +03 24 50.8 | 2000 HK <sub>103</sub> | 21.7   | 608 |
| 1999 KB <sub>19</sub>  | 1999 05 19.17200   | 14 13 22.18 | -12 19 18.3 | 1999 JP <sub>124</sub> | 18.8   | 704 | 2000 LX <sub>36</sub>  | 2000 06 03.29844   | 14 11 13.21 | +03 24 50.7 | 2000 HK <sub>103</sub> | 21.7   | 608 |

|                        |                    |             |             |                        |      |       |
|------------------------|--------------------|-------------|-------------|------------------------|------|-------|
| 2000 LX <sub>36</sub>  | 2000 06 03.30859   | 14 11 12.94 | +03 24 50.1 | 2000 HK <sub>103</sub> | 21.1 | 608   |
| 2000 PT <sub>30</sub>  | * 2000 08 01.22657 | 20 17 21.94 | -18 10 03.8 | 2000 OO <sub>54</sub>  | 19.8 | V 691 |
| 2000 PT <sub>30</sub>  | 2000 08 01.24939   | 20 17 20.76 | -18 10 17.1 | 2000 OO <sub>54</sub>  | 19.5 | V 691 |
| 2000 PT <sub>30</sub>  | 2000 08 01.27200   | 20 17 19.58 | -18 10 29.8 | 2000 OO <sub>54</sub>  | 19.4 | V 691 |
| 2000 QP <sub>226</sub> | * 2000 08 26.33338 | 23 08 27.61 | -06 03 44.1 | 2000 QT <sub>21</sub>  | 18.8 | 704   |
| 2000 QP <sub>226</sub> | 2000 08 26.34673   | 23 08 26.90 | -06 03 50.5 | 2000 QT <sub>21</sub>  | 19.6 | 704   |
| 2000 QP <sub>226</sub> | 2000 08 26.36009   | 23 08 26.30 | -06 03 53.2 | 2000 QT <sub>21</sub>  | 19.3 | 704   |
| 2000 QP <sub>226</sub> | 2000 08 26.37345   | 23 08 25.43 | -06 03 59.5 | 2000 QT <sub>21</sub>  | 19.5 | 704   |
| 2000 QP <sub>226</sub> | 2000 08 26.38683   | 23 08 24.83 | -06 04 04.9 | 2000 QT <sub>21</sub>  | 19.6 | 704   |
| 2000 QC <sub>231</sub> | * 2000 08 20.24135 | 20 02 17.82 | -25 07 05.4 | 2000 OA <sub>25</sub>  | 17.9 | R 699 |
| 2000 QC <sub>231</sub> | 2000 08 20.25313   | 20 02 17.43 | -25 07 04.5 | 2000 OA <sub>25</sub>  |      | 699   |
| 2000 QC <sub>231</sub> | 2000 08 20.26493   | 20 02 17.01 | -25 07 03.9 | 2000 OA <sub>25</sub>  |      | 699   |
| 2000 QC <sub>231</sub> | 2000 08 20.29430   | 20 02 15.98 | -25 07 03.3 | 2000 OA <sub>25</sub>  |      | 699   |
| 2000 QD <sub>231</sub> | * 2000 08 24.26620 | 21 51 00.30 | -15 24 47.0 | 2000 NY <sub>14</sub>  | 18.2 | 704   |
| 2000 QD <sub>231</sub> | 2000 08 24.27888   | 21 50 59.55 | -15 24 51.3 | 2000 NY <sub>14</sub>  | 19.0 | 704   |
| 2000 QD <sub>231</sub> | 2000 08 24.29160   | 21 50 58.93 | -15 24 54.5 | 2000 NY <sub>14</sub>  | 18.9 | 704   |
| 2000 QD <sub>231</sub> | 2000 08 24.30432   | 21 50 58.26 | -15 24 59.2 | 2000 NY <sub>14</sub>  | 18.0 | 704   |
| 2000 QD <sub>231</sub> | 2000 08 24.31707   | 21 50 57.57 | -15 25 02.7 | 2000 NY <sub>14</sub>  | 18.2 | 704   |
| 2000 QZ <sub>242</sub> | * 2000 08 31.30999 | 23 56 16.35 | +03 45 53.8 | 2000 QU <sub>115</sub> | 18.6 | 704   |
| 2000 QZ <sub>242</sub> | 2000 08 31.32317   | 23 56 15.61 | +03 45 54.8 | 2000 QU <sub>115</sub> | 18.7 | 704   |
| 2000 QZ <sub>242</sub> | 2000 08 31.33637   | 23 56 14.92 | +03 45 53.9 | 2000 QU <sub>115</sub> | 19.0 | 704   |
| 2000 QZ <sub>242</sub> | 2000 08 31.34949   | 23 56 14.18 | +03 45 55.1 | 2000 QU <sub>115</sub> | 18.3 | 704   |
| 2000 QZ <sub>242</sub> | 2000 08 31.36265   | 23 56 13.47 | +03 45 55.7 | 2000 QU <sub>115</sub> | 18.5 | 704   |
| 2000 RJ <sub>79</sub>  | * 2000 09 03.32662 | 00 44 15.67 | +12 50 59.1 | 2000 RK <sub>32</sub>  | 18.9 | 704   |
| 2000 RJ <sub>79</sub>  | 2000 09 03.33984   | 00 44 15.17 | +12 50 57.5 | 2000 RK <sub>32</sub>  | 18.7 | 704   |
| 2000 RJ <sub>79</sub>  | 2000 09 03.35294   | 00 44 14.73 | +12 50 58.7 | 2000 RK <sub>32</sub>  | 19.0 | 704   |
| 2000 RJ <sub>79</sub>  | 2000 09 03.36604   | 00 44 14.28 | +12 50 58.7 | 2000 RK <sub>32</sub>  | 18.9 | 704   |
| 2000 RJ <sub>79</sub>  | 2000 09 03.37914   | 00 44 13.74 | +12 50 57.1 | 2000 RK <sub>32</sub>  | 18.9 | 704   |
| 2000 RH <sub>85</sub>  | * 2000 09 05.32087 | 01 40 47.00 | +08 48 53.8 | 2000 RN <sub>65</sub>  | 19.1 | 704   |
| 2000 RH <sub>85</sub>  | 2000 09 05.33391   | 01 40 46.85 | +08 48 50.4 | 2000 RN <sub>65</sub>  | 19.3 | 704   |
| 2000 RH <sub>85</sub>  | 2000 09 05.36013   | 01 40 46.64 | +08 48 45.4 | 2000 RN <sub>65</sub>  | 19.3 | 704   |
| 2000 RH <sub>85</sub>  | 2000 09 05.37320   | 01 40 46.48 | +08 48 42.2 | 2000 RN <sub>65</sub>  | 19.1 | 704   |
| 2000 RS <sub>86</sub>  | * 2000 09 02.33266 | 00 49 58.25 | -00 16 00.8 | 2000 QY <sub>139</sub> | 16.7 | 704   |
| 2000 RS <sub>86</sub>  | 2000 09 02.35904   | 00 49 57.48 | -00 16 07.9 | 2000 QY <sub>139</sub> | 17.0 | 704   |
| 2000 RS <sub>86</sub>  | 2000 09 02.37305   | 00 49 57.02 | -00 16 11.2 | 2000 QY <sub>139</sub> | 16.8 | 704   |
| 2000 RM <sub>105</sub> | * 2000 09 03.27586 | 22 48 29.98 | -00 28 01.2 | 2000 QH <sub>165</sub> | 18.9 | 704   |
| 2000 RM <sub>105</sub> | 2000 09 03.28908   | 22 48 29.40 | -00 28 07.1 | 2000 QH <sub>165</sub> | 18.8 | 704   |
| 2000 RM <sub>105</sub> | 2000 09 03.30227   | 22 48 28.79 | -00 28 15.0 | 2000 QH <sub>165</sub> | 19.0 | 704   |
| 2000 RM <sub>105</sub> | 2000 09 03.31578   | 22 48 28.07 | -00 28 21.7 | 2000 QH <sub>165</sub> | 18.7 | 704   |
| 2000 RN <sub>105</sub> | * 2000 09 03.26676 | 23 39 53.57 | +01 46 05.7 | 2000 QW <sub>149</sub> | 18.5 | 704   |
| 2000 RN <sub>105</sub> | 2000 09 03.28021   | 23 39 52.96 | +01 46 00.7 | 2000 QW <sub>149</sub> | 18.7 | 704   |
| 2000 RN <sub>105</sub> | 2000 09 03.29343   | 23 39 52.40 | +01 45 55.1 | 2000 QW <sub>149</sub> | 18.5 | 704   |
| 2000 RN <sub>105</sub> | 2000 09 03.30694   | 23 39 51.79 | +01 45 50.7 | 2000 QW <sub>149</sub> | 18.8 | 704   |
| 2000 RN <sub>105</sub> | 2000 09 03.32014   | 23 39 51.19 | +01 45 45.7 | 2000 QW <sub>149</sub> | 18.8 | 704   |

## NUMBERING OF A PERIODIC COMET

Continuation to the list on MPC 41064.

146P/1984 W1 = 2000 S2 (Shoemaker-LINEAR)

## OBSERVATIONS OF COMETS

Observations are published here for the following observatory codes:

- 446 Kleť. 0.57-m  $f/5.2$  reflector + CCD. Observers J. Tichá, M. Tichý, Z. Moravec, M. Kočer and P. Jelínek.
- 449 Kvistaberg. 1.0-m Schmidt + CCD. Observers T. Oja, O. Karlsson, C.-I. Lagerkvist, J. Warell and B. Davidsson. Measured by J. Warell, C.-I. Lagerkvist, A. Erikson, G. Hahn and S. Mottola.
- 106 Črni vrh. 0.36-m  $f/6.7$  Schmidt-Cassegrain + CCD. Observer H. Mikuž.
- 118 Modra. 0.6-m  $f/5.5$  reflector + CCD. Observers A. Galád, Š. Gajdoš and P. Kolény.
- 143 Gnosca. 0.20-m  $f/6.3$  reflector + CCD. Observer S. Sposetti.
- 151 Winterthur. 0.40-m  $f/5.9$  hypergraph + CCD. Observer M. Griesser.
- 170 Begues. 0.26-m Schmidt-Cassegrain + CCD. Observer J. Manteca. Measured by S. Alonso.
- 249 SOHO. SOHO-LASCO coronagraph C3. Measured by D. A. Biesecker. Reduction by B. G. Marsden.
- 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.
- 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.
- 347 Utsunomiya-Imaizumi. 0.20-m  $f/9.0$  Schmidt-Cassegrain + CCD. Observer M. Suzuki.
- 348 Ayabe. 0.28-m  $f/5.5$  Schmidt-Cassegrain + CCD. Observer N. Otuki.
- 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.
- 367 Yatsuka. 0.26-m  $f/4.8$  reflector. Observer H. Abe.
- 388 Mitaka. 0.50-m reflector + CCD. Observers H. Fukushima, I. Sato, D. Kinoshita, T. Saito, A. Obara and J. Watanabe. Measured by I. Sato.
- 402 Dync Astronomical Observatory. 0.60-m  $f/3.7$  reflector + CCD. Observer A. Sugie.
- 557 Ondřejov. 0.65-m  $f/3.6$  reflector + CCD. Observer P. Pravec and P. Kušnirák.
- 595 Farra d'Isonzo. 0.40-m  $f/4.5$  reflector + CCD. Observers E. Pettarin and G. Lombardi. Measured by E. Pettarin.
- 608 Haleakala-AMOS. 1.2-m reflector + CCD. Observers A. Alday, K. Moore, M. Tranilla, T. Goggia, A. Sylva, D. Nishimoto. Measured by J. Africano, P. Sydney, D. Nishimoto, A. Angara, B. McCartney and D. O'Connell.
- 642 Oak Bay, Victoria. 0.20-m  $f/3.7$  Schmidt-Cassegrain + CCD. Observer C. E. Spratt.
- 658 Dominion Astrophysical Observatory. 1.82-m Plaskett telescope + CCD. Observer D. D. Balam.
- 684 Prescott. 0.46-m  $f/4.5$  reflector + CCD. Observer P. G. Comba.
- 688 Lowell Observatory, Anderson Mesa Station. 1.8-m reflector + CCD. Observer L. H. Wasserman. Measured by M. W. Buie.
- 691 Kitt Peak. 0.91-m Spacewatch telescope. Observers A. Descour, T. Gehrels, A. E. Gleason, J. Larsen and J. V. Scotti.
- 696 Mt. Hopkins. Observer 2MASS North. Measured by M. Sykes.
- 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. Viggh, R. Sayer and J. B. Evans. | C/1997 BA <sub>6</sub>     | 2000 09 17.51024 | 20 33 48.58 | -41 11 49.2 |        | 360   |
| 706 | Salinas. 0.25-m $f/6$ Newtonian reflector + CCD. Observer J. E. Hall.                                                                                                    | C/1997 BA <sub>6</sub>     | 2000 09 20.49358 | 20 31 48.90 | -40 35 26.2 | 13.2 T | 360   |
| 711 | McDonald. 0.76-m reflector + CCD. Observer J. G. Ries.                                                                                                                   | C/1997 BA <sub>6</sub>     | 2000 09 20.49601 | 20 31 48.87 | -40 35 25.1 |        | 360   |
| 719 | Etsorn Observatory. 0.355-m Schmidt-Cassegrain + CCD. Observer D. A. Klinglesmith, III.                                                                                  | C/1997 BA <sub>6</sub>     | 2000 09 20.58204 | 20 31 45.42 | -40 34 21.9 |        | 322   |
| 734 | Eskridge. 0.30-m Schmidt-Cassegrain + CCD. Observer G. Hug.                                                                                                              | C/1997 BA <sub>6</sub>     | 2000 09 20.60714 | 20 31 44.45 | -40 34 02.8 |        | 322   |
| 750 | Hobbs Observatory, Fall Creek. 0.6-m $f/5$ telescope + CCD. Observer R. Elliott.                                                                                         | C/1997 BA <sub>6</sub>     | 2000 09 20.62522 | 20 31 43.78 | -40 33 50.2 | 14.7 T | 322   |
| 807 | Cerro Tololo. Observer 2MASS South. Measurer M. Sykes.                                                                                                                   | C/1997 BA <sub>6</sub>     | 2000 09 27.50398 | 20 28 04.10 | -39 10 00.5 |        | 367   |
| 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.                                            | C/1997 BA <sub>6</sub>     | 2000 09 27.50537 | 20 28 04.07 | -39 10 00.3 |        | 367   |
| 829 | Complejo Astronómico El Leoncito. 2.15-m $f/2.8$ reflector + CCD. Observer R. Gil-Hutton. Measured by R. Gil-Hutton and P. Benavidez.                                    | C/1997 BA <sub>6</sub>     | 2000 09 27.50676 | 20 28 04.04 | -39 09 58.6 |        | 367   |
| 834 | Buenos Aires-AAAA. 0.25-m $f/6.3$ reflector + CCD. Observers R. Caprio, H. Ruggio and R. Mackintosh. Measured by R. Mackintosh.                                          | C/1997 BA <sub>6</sub>     | 2000 09 27.50815 | 20 28 04.02 | -39 09 58.1 |        | 367   |
| 853 | Biosphere 2 Observatory. 0.60-m $f/8.0$ reflector. Observer G. J. Garradd.                                                                                               | <b>C/1998 K1 (Mueller)</b> |                  |             |             |        |       |
| 858 | Tebbutt Observatory, Edgewood. 0.3-m $f/10$ Schmidt-Cassegrain + CCD. Observer F. B. Zoltowski.                                                                          | C/1998 K1                  | 1998 04 04.31594 | 10 42 55.18 | +41 26 20.7 |        | 1 696 |
| 900 | Moriyama. 0.25-m $f/6.3$ reflector + CCD. Observer Y. Ikari.                                                                                                             | C/1998 K1                  | 1998 05 10.22288 | 10 36 45.75 | +33 59 20.4 |        | 1 696 |
| 903 | Fukuchiyama. 0.25-m $f/6.3$ Schmidt-Cassegrain + CCD. Observer M. Yoshimi.                                                                                               | <b>C/1998 M2 (LINEAR)</b>  |                  |             |             |        |       |
| 921 | Southwest Institute for Space Research. 0.30-m Schmidt-Cassegrain + CCD. Observer A. Hale.                                                                               | C/1998 M2                  | 1998 05 04.40420 | 18 48 03.51 | -14 36 11.3 |        | 1 807 |
| 958 | Dax. 0.20-m $f/3.3$ reflector + CCD. Observer F. Marechal.                                                                                                               | <b>C/1998 T1 (LINEAR)</b>  |                  |             |             |        |       |
| 970 | Chelmsford. 0.30-m $f/5.25$ reflector + CCD. Observer N. D. James.                                                                                                       | C/1998 T1                  | 2000 03 29.12521 | 11 57 08.81 | -07 09 31.7 |        | 834   |
|     |                                                                                                                                                                          | C/1998 T1                  | 2000 04 03.13012 | 11 48 18.08 | -05 59 47.1 |        | 834   |
|     |                                                                                                                                                                          | C/1998 T1                  | 2000 04 03.17772 | 11 48 13.27 | -05 59 08.3 |        | 834   |
|     |                                                                                                                                                                          | <b>C/1999 E1 (Li)</b>      |                  |             |             |        |       |
|     |                                                                                                                                                                          | C/1999 E1                  | 2000 03 06.88370 | 10 16 15.70 | +36 33 54.2 | 16.9 T | 143   |
|     |                                                                                                                                                                          | C/1999 E1                  | 2000 03 06.88781 | 10 16 15.58 | +36 33 55.6 | 16.8 T | 143   |
|     |                                                                                                                                                                          | C/1999 E1                  | 2000 03 06.89193 | 10 16 15.44 | +36 33 57.2 | 16.7 T | 143   |
|     |                                                                                                                                                                          | C/1999 E1                  | 2000 03 06.89605 | 10 16 15.26 | +36 33 58.8 | 16.6 T | 143   |
|     |                                                                                                                                                                          | C/1999 E1                  | 2000 03 06.90017 | 10 16 15.15 | +36 33 59.8 | 16.6 T | 143   |
|     |                                                                                                                                                                          | C/1999 E1                  | 2000 03 06.90429 | 10 16 15.02 | +36 34 01.5 | 16.7 T | 143   |
|     |                                                                                                                                                                          | <b>C/1999 J2 (Skiff)</b>   |                  |             |             |        |       |
|     |                                                                                                                                                                          | C/1999 J2                  | 2000 09 02.48207 | 15 13 08.05 | +23 15 10.4 |        | 349   |
|     |                                                                                                                                                                          | C/1999 J2                  | 2000 09 02.48392 | 15 13 08.00 | +23 15 10.3 | 16.0 T | 349   |
|     |                                                                                                                                                                          | C/1999 J2                  | 2000 09 02.49155 | 15 13 08.14 | +23 15 06.0 |        | 349   |
|     |                                                                                                                                                                          | C/1999 J2                  | 2000 09 20.44757 | 15 16 55.36 | +20 32 28.5 | 16.4 T | 360   |
|     |                                                                                                                                                                          | C/1999 J2                  | 2000 09 20.45174 | 15 16 55.41 | +20 32 26.0 |        | 360   |
|     |                                                                                                                                                                          | <b>C/1999 K8 (LINEAR)</b>  |                  |             |             |        |       |
|     |                                                                                                                                                                          | C/1999 K8                  | 2000 09 02.63082 | 01 54 04.89 | +06 09 14.7 |        | 349   |
|     |                                                                                                                                                                          | C/1999 K8                  | 2000 09 02.63235 | 01 54 04.88 | +06 09 13.6 |        | 349   |
|     |                                                                                                                                                                          | C/1999 K8                  | 2000 09 02.63385 | 01 54 04.79 | +06 09 12.1 | 14.9 T | 349   |
|     |                                                                                                                                                                          | C/1999 K8                  | 2000 09 03.36587 | 01 54 01.62 | +06 01 23.1 |        | 2 921 |
|     |                                                                                                                                                                          | C/1999 K8                  | 2000 09 03.38527 | 01 54 01.36 | +06 01 10.5 |        | 3 921 |
|     |                                                                                                                                                                          | C/1999 K8                  | 2000 09 04.60646 | 01 53 55.42 | +05 47 55.8 | 14.8 T | 903   |
|     |                                                                                                                                                                          | C/1999 K8                  | 2000 09 04.60846 | 01 53 55.36 | +05 47 54.0 |        | 903   |
|     |                                                                                                                                                                          | C/1999 K8                  | 2000 09 04.61049 | 01 53 55.38 | +05 47 53.3 |        | 903   |
|     |                                                                                                                                                                          | C/1999 K8                  | 2000 09 10.65597 | 01 53 07.12 | +04 40 15.9 | 15.0 T | 349   |
|     |                                                                                                                                                                          | C/1999 K8                  | 2000 09 10.65900 | 01 53 07.10 | +04 40 12.6 |        | 349   |
|     |                                                                                                                                                                          | C/1999 K8                  | 2000 09 10.66207 | 01 53 07.03 | +04 40 11.7 |        | 349   |
|     |                                                                                                                                                                          | C/1999 K8                  | 2000 09 12.06962 | 01 52 51.85 | +04 23 57.2 |        | 046   |
|     |                                                                                                                                                                          | C/1999 K8                  | 2000 09 12.07095 | 01 52 51.82 | +04 23 56.3 |        | 046   |
|     |                                                                                                                                                                          | C/1999 K8                  | 2000 09 12.07190 | 01 52 51.80 | +04 23 55.6 |        | 046   |
|     |                                                                                                                                                                          | C/1999 K8                  | 2000 09 12.07329 | 01 52 51.79 | +04 23 54.6 |        | 046   |
|     |                                                                                                                                                                          | C/1999 K8                  | 2000 09 19.67523 | 01 51 06.05 | +02 53 42.5 | 15.6 T | 900   |
|     |                                                                                                                                                                          | C/1999 K8                  | 2000 09 19.68440 | 01 51 05.90 | +02 53 36.1 |        | 900   |

| Object                                    | Date             | UT          | $\alpha_{2000}$ | $\delta_{2000}$ | Mag. | N Obs. |
|-------------------------------------------|------------------|-------------|-----------------|-----------------|------|--------|
| <b>C/1995 O1 (Hale-Bopp)</b>              |                  |             |                 |                 |      |        |
| C/1995 O1                                 | 2000 04 12.95677 | 04 47 20.57 | -70 51 30.8     |                 |      | 834    |
| C/1995 O1                                 | 2000 04 20.04687 | 04 52 12.65 | -70 28 28.0     |                 |      | 834    |
| C/1995 O1                                 | 2000 04 22.02477 | 04 53 38.67 | -70 22 31.7     |                 |      | 834    |
| C/1995 O1                                 | 2000 04 23.97487 | 04 55 05.95 | -70 16 55.3     |                 |      | 834    |
| C/1995 O1                                 | 2000 04 24.95698 | 04 55 50.34 | -70 14 11.1     |                 |      | 834    |
| C/1995 O1                                 | 2000 07 23.35858 | 06 16 15.68 | -70 31 12.0     |                 |      | 834    |
| C/1995 O1                                 | 2000 07 24.32819 | 06 17 06.06 | -70 34 11.0     |                 |      | 834    |
| <b>C/1997 BA<sub>6</sub> (Spacewatch)</b> |                  |             |                 |                 |      |        |
| C/1997 BA <sub>6</sub>                    | 1999 03 23.06421 | 08 13 35.62 | -48 52 08.3     |                 |      | 829    |
| C/1997 BA <sub>6</sub>                    | 1999 03 23.09073 | 08 13 33.85 | -48 52 03.1     |                 |      | 829    |
| C/1997 BA <sub>6</sub>                    | 1999 03 25.03019 | 08 11 28.07 | -48 45 19.5     |                 |      | 808    |
| C/1997 BA <sub>6</sub>                    | 1999 03 25.03734 | 08 11 27.79 | -48 45 17.8     |                 |      | 808    |
| C/1997 BA <sub>6</sub>                    | 1999 03 25.11997 | 08 11 22.53 | -48 45 01.7     |                 |      | 808    |
| C/1997 BA <sub>6</sub>                    | 2000 09 01.28190 | 20 49 09.03 | -44 23 30.6     |                 |      | 921    |
| C/1997 BA <sub>6</sub>                    | 2000 09 02.27107 | 20 47 59.41 | -44 12 20.3     | 13.7 T          |      | 921    |
| C/1997 BA <sub>6</sub>                    | 2000 09 02.27277 | 20 47 59.48 | -44 12 16.6     | 13.5 T          |      | 921    |
| C/1997 BA <sub>6</sub>                    | 2000 09 02.52179 | 20 47 42.25 | -44 09 27.5     | 13.9 T          |      | 349    |
| C/1997 BA <sub>6</sub>                    | 2000 09 02.55245 | 20 47 40.16 | -44 09 07.0     |                 |      | 349    |
| C/1997 BA <sub>6</sub>                    | 2000 09 02.55356 | 20 47 40.10 | -44 09 05.4     |                 |      | 349    |
| C/1997 BA <sub>6</sub>                    | 2000 09 05.54508 | 20 44 22.57 | -43 34 46.6     | 14.0 T          |      | 900    |
| C/1997 BA <sub>6</sub>                    | 2000 09 05.55501 | 20 44 21.88 | -43 34 39.6     |                 |      | 900    |
| C/1997 BA <sub>6</sub>                    | 2000 09 17.50781 | 20 33 48.68 | -41 11 51.3     | 13.4 T          |      | 360    |

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/1999 K8 | 2000 09 20.57039 | 01 50 51.21 | +02 42 51.1 | 16.3 T | 348 |
| C/1999 K8 | 2000 09 20.57878 | 01 50 51.08 | +02 42 45.0 |        | 348 |
| C/1999 K8 | 2000 09 20.64231 | 01 50 49.93 | +02 41 57.6 |        | 903 |
| C/1999 K8 | 2000 09 20.67556 | 01 50 49.33 | +02 41 32.8 | 15.5 T | 903 |
| C/1999 K8 | 2000 09 21.66220 | 01 50 32.28 | +02 29 33.1 | 15.3 T | 349 |
| C/1999 K8 | 2000 09 21.66395 | 01 50 32.22 | +02 29 31.8 |        | 349 |
| C/1999 K8 | 2000 09 26.09340 | 01 49 08.49 | +01 35 08.4 | 15.1 T | 106 |
| C/1999 K8 | 2000 09 26.11768 | 01 49 08.00 | +01 34 50.3 | 15.0 T | 106 |
| C/1999 K8 | 2000 09 26.13927 | 01 49 07.51 | +01 34 33.7 | 15.6 T | 106 |
| C/1999 K8 | 2000 09 26.70313 | 01 48 56.15 | +01 27 36.4 | 14.7 T | 360 |
| C/1999 K8 | 2000 09 26.70590 | 01 48 56.07 | +01 27 34.3 |        | 360 |
| C/1999 K8 | 2000 09 27.69469 | 01 48 35.70 | +01 15 20.7 | 14.9 T | 349 |
| C/1999 K8 | 2000 09 27.69819 | 01 48 35.60 | +01 15 17.9 |        | 349 |
| C/1999 K8 | 2000 09 27.69944 | 01 48 35.63 | +01 15 16.7 |        | 349 |
| C/1999 K8 | 2000 10 04.58816 | 01 46 01.89 | -00 10 00.0 | 16.2 T | 348 |
| C/1999 K8 | 2000 10 04.59486 | 01 46 01.72 | -00 10 05.2 |        | 348 |
| C/1999 K8 | 2000 10 04.63473 | 01 46 00.78 | -00 10 34.7 |        | 352 |
| C/1999 K8 | 2000 10 04.64168 | 01 46 00.59 | -00 10 40.1 | 15.5 T | 352 |

**C/1999 L3 (LINEAR)**

|           |                  |             |             |  |     |
|-----------|------------------|-------------|-------------|--|-----|
| C/1999 L3 | 2000 02 29.03474 | 06 27 14.19 | +29 55 12.5 |  | 834 |
| C/1999 L3 | 2000 02 29.06037 | 06 27 08.37 | +29 55 21.7 |  | 834 |
| C/1999 L3 | 2000 03 01.01141 | 06 23 39.89 | +29 59 34.6 |  | 834 |
| C/1999 L3 | 2000 03 01.03449 | 06 23 34.87 | +29 59 40.2 |  | 834 |

**C/1999 N4 (LINEAR)**

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/1999 N4 | 2000 09 20.43160 | 15 40 35.39 | +01 33 38.6 | 17.0 T | 360 |
| C/1999 N4 | 2000 09 20.43976 | 15 40 35.39 | +01 33 37.2 |        | 360 |

**C/1999 S3 (LINEAR)**

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/1999 S3 | 2000 02 12.75615 | 20 55 21.37 | +63 32 46.9 | 16.2 T | 143 |
| C/1999 S3 | 2000 02 12.75944 | 20 55 21.56 | +63 32 50.8 | 16.0 T | 143 |
| C/1999 S3 | 2000 02 12.76767 | 20 55 21.99 | +63 33 00.3 | 16.6 T | 143 |

**C/1999 S4 (LINEAR)**

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/1999 S4 | 2000 02 12.78153 | 01 34 05.64 | +26 48 55.5 | 14.9 T | 143 |
| C/1999 S4 | 2000 02 12.78811 | 01 34 05.50 | +26 48 54.1 | 15.3 T | 143 |
| C/1999 S4 | 2000 02 12.79471 | 01 34 05.37 | +26 48 52.1 | 15.3 T | 143 |
| C/1999 S4 | 2000 02 12.80294 | 01 34 05.25 | +26 48 50.1 | 14.9 T | 143 |

**C/1999 T2 (LINEAR)**

|           |                  |             |             |        |       |
|-----------|------------------|-------------|-------------|--------|-------|
| C/1999 T2 | 2000 08 09.90376 | 18 34 01.73 | +61 52 22.7 |        | 958   |
| C/1999 T2 | 2000 08 09.94233 | 18 33 51.57 | +61 51 48.1 |        | 958   |
| C/1999 T2 | 2000 08 09.98288 | 18 33 41.01 | +61 51 11.3 |        | 958   |
| C/1999 T2 | 2000 08 10.92756 | 18 29 37.53 | +61 36 50.8 |        | 958   |
| C/1999 T2 | 2000 08 10.96918 | 18 29 26.89 | +61 36 11.0 |        | 958   |
| C/1999 T2 | 2000 08 11.01638 | 18 29 14.83 | +61 35 26.5 |        | 958   |
| C/1999 T2 | 2000 08 21.26447 | 17 51 20.00 | +58 22 28.6 |        | 4 921 |
| C/1999 T2 | 2000 08 21.29686 | 17 51 13.96 | +58 21 46.5 |        | 5 921 |
| C/1999 T2 | 2000 08 21.30375 | 17 51 12.77 | +58 21 38.8 | 13.4 T | 921   |
| C/1999 T2 | 2000 08 21.30558 | 17 51 12.34 | +58 21 35.3 | 13.2 T | 5 921 |
| C/1999 T2 | 2000 08 21.30892 | 17 51 11.76 | +58 21 31.4 | 13.6 T | 921   |
| C/1999 T2 | 2000 08 21.87420 | 17 49 26.25 | +58 09 17.1 |        | 958   |
| C/1999 T2 | 2000 08 21.91763 | 17 49 17.99 | +58 08 21.0 |        | 958   |
| C/1999 T2 | 2000 08 21.96569 | 17 49 09.01 | +58 07 17.8 |        | 958   |

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/1999 T2 | 2000 08 22.84247 | 17 46 29.65 | +57 48 03.1 |        | 958 |
| C/1999 T2 | 2000 08 22.88619 | 17 46 21.75 | +57 47 05.6 |        | 958 |
| C/1999 T2 | 2000 08 22.93006 | 17 46 13.84 | +57 46 07.2 |        | 958 |
| C/1999 T2 | 2000 08 25.82226 | 17 38 02.35 | +56 40 38.3 | 15.3 N | 170 |
| C/1999 T2 | 2000 08 25.84706 | 17 37 58.30 | +56 40 03.9 | 15.3 N | 170 |
| C/1999 T2 | 2000 08 26.83433 | 17 35 22.10 | +56 17 07.5 |        | 958 |
| C/1999 T2 | 2000 08 26.85431 | 17 35 18.98 | +56 16 39.2 |        | 958 |
| C/1999 T2 | 2000 08 26.92834 | 17 35 07.32 | +56 14 54.8 |        | 958 |
| C/1999 T2 | 2000 08 27.84784 | 17 32 47.46 | +55 53 17.8 |        | 958 |
| C/1999 T2 | 2000 08 27.87840 | 17 32 42.82 | +55 52 34.7 |        | 958 |
| C/1999 T2 | 2000 08 27.90909 | 17 32 38.22 | +55 51 50.7 |        | 958 |
| C/1999 T2 | 2000 08 28.82900 | 17 30 23.21 | +55 30 01.5 |        | 958 |
| C/1999 T2 | 2000 08 28.83782 | 17 30 21.99 | +55 29 48.1 |        | 958 |
| C/1999 T2 | 2000 08 28.83920 | 17 30 21.76 | +55 29 47.0 | 14.9 N | 170 |
| C/1999 T2 | 2000 08 28.84552 | 17 30 20.79 | +55 29 38.0 | 15.0 N | 170 |
| C/1999 T2 | 2000 08 28.86112 | 17 30 18.55 | +55 29 15.5 |        | 958 |
| C/1999 T2 | 2000 08 28.88208 | 17 30 15.53 | +55 28 45.5 |        | 958 |
| C/1999 T2 | 2000 08 28.89064 | 17 30 14.25 | +55 28 33.1 |        | 958 |
| C/1999 T2 | 2000 08 30.84182 | 17 25 43.98 | +54 41 39.4 |        | 958 |
| C/1999 T2 | 2000 08 30.85037 | 17 25 42.85 | +54 41 26.8 |        | 958 |
| C/1999 T2 | 2000 08 30.86082 | 17 25 41.46 | +54 41 12.1 |        | 958 |
| C/1999 T2 | 2000 08 30.90821 | 17 25 35.08 | +54 40 02.5 |        | 958 |
| C/1999 T2 | 2000 08 30.91676 | 17 25 33.93 | +54 39 50.1 |        | 958 |
| C/1999 T2 | 2000 08 31.82497 | 17 23 35.30 | +54 17 46.9 |        | 958 |
| C/1999 T2 | 2000 08 31.83351 | 17 23 34.18 | +54 17 34.7 |        | 958 |
| C/1999 T2 | 2000 08 31.85352 | 17 23 31.59 | +54 17 05.5 |        | 958 |
| C/1999 T2 | 2000 08 31.87398 | 17 23 28.92 | +54 16 34.8 |        | 958 |
| C/1999 T2 | 2000 08 31.88253 | 17 23 27.85 | +54 16 22.7 |        | 958 |
| C/1999 T2 | 2000 09 01.84167 | 17 21 27.44 | +53 52 57.7 |        | 958 |
| C/1999 T2 | 2000 09 01.85009 | 17 21 26.36 | +53 52 45.1 |        | 958 |
| C/1999 T2 | 2000 09 01.86939 | 17 21 24.03 | +53 52 16.4 |        | 958 |
| C/1999 T2 | 2000 09 01.87792 | 17 21 22.86 | +53 52 03.7 |        | 958 |
| C/1999 T2 | 2000 09 02.44834 | 17 20 13.72 | +53 38 06.4 | 14.2 T | 349 |
| C/1999 T2 | 2000 09 02.45245 | 17 20 13.18 | +53 38 00.2 |        | 349 |
| C/1999 T2 | 2000 09 02.45488 | 17 20 12.97 | +53 37 56.4 |        | 349 |
| C/1999 T2 | 2000 09 04.82546 | 17 15 41.50 | +52 39 30.5 |        | 958 |
| C/1999 T2 | 2000 09 04.83399 | 17 15 40.58 | +52 39 17.5 |        | 958 |
| C/1999 T2 | 2000 09 04.85399 | 17 15 38.42 | +52 38 48.6 |        | 958 |
| C/1999 T2 | 2000 09 04.87216 | 17 15 36.44 | +52 38 21.4 |        | 958 |
| C/1999 T2 | 2000 09 04.89262 | 17 15 34.20 | +52 37 50.6 |        | 958 |
| C/1999 T2 | 2000 09 05.82302 | 17 13 55.11 | +52 14 49.4 |        | 958 |
| C/1999 T2 | 2000 09 05.84014 | 17 13 53.35 | +52 14 23.5 |        | 958 |
| C/1999 T2 | 2000 09 05.85450 | 17 13 51.80 | +52 14 03.0 |        | 958 |
| C/1999 T2 | 2000 09 08.82231 | 17 09 01.14 | +51 00 26.4 |        | 958 |
| C/1999 T2 | 2000 09 08.83722 | 17 08 59.78 | +51 00 04.1 |        | 958 |
| C/1999 T2 | 2000 09 08.85094 | 17 08 58.47 | +50 59 43.9 |        | 958 |
| C/1999 T2 | 2000 09 09.84240 | 17 07 29.56 | +50 35 09.2 |        | 958 |
| C/1999 T2 | 2000 09 09.86766 | 17 07 27.32 | +50 34 31.5 |        | 958 |
| C/1999 T2 | 2000 09 09.87624 | 17 07 26.64 | +50 34 18.4 |        | 958 |
| C/1999 T2 | 2000 09 09.92025 | 17 07 22.63 | +50 33 13.0 |        | 958 |
| C/1999 T2 | 2000 09 13.20359 | 17 02 56.00 | +49 12 04.2 | 15.6 T | 642 |
| C/1999 T2 | 2000 09 13.20608 | 17 02 55.62 | +49 12 01.8 |        | 642 |
| C/1999 T2 | 2000 09 13.20856 | 17 02 55.61 | +49 11 59.0 |        | 642 |

2000 OCT. 13

M.P.C. 41255

|           |                  |             |             |        |       |
|-----------|------------------|-------------|-------------|--------|-------|
| C/1999 T2 | 2000 09 15.53156 | 17 00 09.81 | +48 15 00.7 | 14.2 T | 349   |
| C/1999 T2 | 2000 09 15.53419 | 17 00 09.61 | +48 14 56.3 |        | 349   |
| C/1999 T2 | 2000 09 15.53547 | 17 00 09.55 | +48 14 55.0 |        | 349   |
| C/1999 T2 | 2000 09 17.48785 | 16 58 04.05 | +47 27 28.4 | 13.8 T | 360   |
| C/1999 T2 | 2000 09 17.49045 | 16 58 03.89 | +47 27 24.5 |        | 360   |
| C/1999 T2 | 2000 09 18.11619 | 16 57 26.19 | +47 12 17.7 | 16.1 T | 750   |
| C/1999 T2 | 2000 09 18.13224 | 16 57 25.26 | +47 11 53.6 | 16.0 T | 750   |
| C/1999 T2 | 2000 09 19.47035 | 16 56 08.49 | +46 39 44.6 |        | 900   |
| C/1999 T2 | 2000 09 19.47867 | 16 56 08.05 | +46 39 32.6 | 13.8 T | 900   |
| C/1999 T2 | 2000 09 26.48056 | 16 50 45.58 | +43 55 38.9 | 14.1 T | 6 360 |
| C/1999 T2 | 2000 09 26.48299 | 16 50 45.49 | +43 55 35.9 |        | 6 360 |
| C/1999 T2 | 2000 09 26.49306 | 16 50 45.14 | +43 55 21.9 | 13.6 T | 347   |
| C/1999 T2 | 2000 09 26.49456 | 16 50 45.05 | +43 55 19.2 | 13.8 T | 347   |
| C/1999 T2 | 2000 09 26.49810 | 16 50 44.84 | +43 55 14.2 |        | 347   |
| C/1999 T2 | 2000 09 27.07726 | 16 50 23.60 | +43 42 02.7 | 16.1 T | 750   |
| C/1999 T2 | 2000 09 27.08915 | 16 50 23.33 | +43 41 49.0 | 16.2 T | 750   |
| C/1999 T2 | 2000 10 03.05326 | 16 47 25.78 | +41 30 08.2 | 17.2 T | 750   |
| C/1999 T2 | 2000 10 03.07043 | 16 47 25.29 | +41 29 41.9 | 16.8 T | 750   |
| C/1999 T2 | 2000 10 03.08053 | 16 47 25.01 | +41 29 28.1 | 16.8 T | 750   |
| C/1999 T2 | 2000 10 07.13942 | 16 46 02.37 | +40 04 10.0 |        | 642   |
| C/1999 T2 | 2000 10 07.14416 | 16 46 02.36 | +40 04 05.7 |        | 642   |

**C/1999 T3 (LINEAR)**

|           |                  |             |             |        |       |
|-----------|------------------|-------------|-------------|--------|-------|
| C/1999 T3 | 2000 09 12.10366 | 03 29 58.50 | -17 36 28.0 |        | 046   |
| C/1999 T3 | 2000 09 12.10479 | 03 29 58.48 | -17 36 29.1 |        | 046   |
| C/1999 T3 | 2000 09 12.10575 | 03 29 58.45 | -17 36 30.0 |        | 046   |
| C/1999 T3 | 2000 09 12.10697 | 03 29 58.44 | -17 36 30.8 |        | 046   |
| C/1999 T3 | 2000 09 12.10906 | 03 29 58.36 | -17 36 32.5 |        | 046   |
| C/1999 T3 | 2000 09 20.40931 | 03 26 53.34 | -19 42 30.7 | 17.9 T | 704   |
| C/1999 T3 | 2000 09 20.42423 | 03 26 52.95 | -19 42 45.5 | 18.5 T | 704   |
| C/1999 T3 | 2000 09 20.43937 | 03 26 52.52 | -19 42 58.7 | 18.4 T | 704   |
| C/1999 T3 | 2000 09 20.45471 | 03 26 52.10 | -19 43 12.1 | 18.7 T | 704   |
| C/1999 T3 | 2000 09 20.46962 | 03 26 51.76 | -19 43 24.9 | 19.3 T | 704   |
| C/1999 T3 | 2000 09 27.69028 | 03 23 19.71 | -21 33 56.2 | 17.0 T | 6 360 |
| C/1999 T3 | 2000 09 27.69514 | 03 23 19.57 | -21 34 01.2 |        | 6 360 |

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

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/1999 U4 | 2000 08 10.01465 | 03 30 45.14 | +40 43 35.8 |        | 958 |
| C/1999 U4 | 2000 08 10.04414 | 03 30 45.84 | +40 43 50.5 |        | 958 |
| C/1999 U4 | 2000 08 11.03552 | 03 31 06.48 | +40 52 01.9 |        | 958 |
| C/1999 U4 | 2000 08 22.03678 | 03 34 12.41 | +42 23 41.4 |        | 958 |
| C/1999 U4 | 2000 08 23.16097 | 03 34 26.55 | +42 33 08.8 |        | 958 |
| C/1999 U4 | 2000 08 23.18509 | 03 34 26.93 | +42 33 21.4 |        | 958 |
| C/1999 U4 | 2000 08 28.05131 | 03 35 17.12 | +43 14 28.0 |        | 958 |
| C/1999 U4 | 2000 08 28.08948 | 03 35 17.36 | +43 14 49.3 |        | 958 |
| C/1999 U4 | 2000 08 28.13389 | 03 35 17.56 | +43 15 09.7 |        | 958 |
| C/1999 U4 | 2000 08 29.05696 | 03 35 25.24 | +43 23 00.4 |        | 958 |
| C/1999 U4 | 2000 08 29.10233 | 03 35 25.55 | +43 23 22.0 |        | 958 |
| C/1999 U4 | 2000 09 02.64843 | 03 35 50.87 | +44 01 57.1 | 16.5 T | 349 |
| C/1999 U4 | 2000 09 02.65044 | 03 35 50.92 | +44 01 58.8 |        | 349 |
| C/1999 U4 | 2000 09 02.65218 | 03 35 50.84 | +44 01 59.2 |        | 349 |
| C/1999 U4 | 2000 09 05.07656 | 03 35 57.01 | +44 22 33.3 |        | 958 |
| C/1999 U4 | 2000 09 05.10299 | 03 35 56.97 | +44 22 46.4 |        | 958 |
| C/1999 U4 | 2000 09 05.12848 | 03 35 57.20 | +44 23 00.4 |        | 958 |

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/1999 U4 | 2000 09 10.63648 | 03 35 50.55 | +45 09 37.2 | 16.6 T | 349 |
| C/1999 U4 | 2000 09 10.63823 | 03 35 50.70 | +45 09 37.5 |        | 349 |
| C/1999 U4 | 2000 09 10.64153 | 03 35 50.48 | +45 09 41.4 |        | 349 |
| C/1999 U4 | 2000 09 12.08159 | 03 35 44.16 | +45 21 48.9 |        | 046 |
| C/1999 U4 | 2000 09 12.08296 | 03 35 44.12 | +45 21 49.4 |        | 046 |
| C/1999 U4 | 2000 09 12.08395 | 03 35 44.09 | +45 21 50.5 |        | 046 |
| C/1999 U4 | 2000 09 20.60858 | 03 34 23.64 | +46 32 58.1 | 17.0 T | 348 |
| C/1999 U4 | 2000 09 20.62348 | 03 34 23.33 | +46 33 05.4 |        | 348 |
| C/1999 U4 | 2000 09 23.25062 | 03 33 43.22 | +46 54 37.8 |        | 642 |
| C/1999 U4 | 2000 09 23.26134 | 03 33 43.29 | +46 54 46.5 |        | 642 |
| C/1999 U4 | 2000 09 26.10766 | 03 32 51.15 | +47 17 46.6 | 16.0 T | 106 |
| C/1999 U4 | 2000 09 26.13192 | 03 32 50.68 | +47 17 58.3 | 16.1 T | 106 |
| C/1999 U4 | 2000 09 26.15349 | 03 32 50.17 | +47 18 09.4 | 16.6 T | 106 |
| C/1999 U4 | 2000 09 26.72708 | 03 32 38.75 | +47 22 46.2 | 16.3 T | 360 |
| C/1999 U4 | 2000 09 26.73125 | 03 32 38.65 | +47 22 48.4 |        | 360 |
| C/1999 U4 | 2000 09 27.70940 | 03 32 18.11 | +47 30 37.9 | 16.5 T | 349 |
| C/1999 U4 | 2000 09 27.71145 | 03 32 18.01 | +47 30 39.3 |        | 349 |
| C/1999 U4 | 2000 09 27.71350 | 03 32 18.05 | +47 30 39.8 |        | 349 |
| C/1999 U4 | 2000 10 04.34199 | 03 29 31.39 | +48 22 18.9 | 18.1 T | 704 |
| C/1999 U4 | 2000 10 04.35805 | 03 29 30.92 | +48 22 26.6 | 18.5 T | 704 |
| C/1999 U4 | 2000 10 04.37298 | 03 29 30.44 | +48 22 33.5 | 18.8 T | 704 |
| C/1999 U4 | 2000 10 04.38867 | 03 29 29.96 | +48 22 41.3 | 19.2 T | 704 |
| C/1999 U4 | 2000 10 04.40430 | 03 29 29.50 | +48 22 48.7 | 18.4 T | 704 |
| C/1999 U4 | 2000 10 04.61301 | 03 29 23.60 | +48 24 22.3 | 17.0 T | 352 |
| C/1999 U4 | 2000 10 04.61648 | 03 29 23.46 | +48 24 24.5 |        | 352 |
| C/1999 U4 | 2000 10 04.61995 | 03 29 23.26 | +48 24 25.9 |        | 352 |

**C/1999 Y1 (LINEAR)**

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/1999 Y1 | 2000 02 12.81142 | 02 18 42.34 | +60 27 46.2 | 16.5 T | 143 |
| C/1999 Y1 | 2000 02 12.81635 | 02 18 42.32 | +60 27 42.2 | 16.5 T | 143 |
| C/1999 Y1 | 2000 02 12.82131 | 02 18 42.32 | +60 27 37.5 | 16.4 T | 143 |
| C/1999 Y1 | 2000 08 21.98383 | 03 20 12.24 | +50 06 12.7 |        | 958 |
| C/1999 Y1 | 2000 08 21.99904 | 03 20 11.47 | +50 06 13.4 |        | 958 |
| C/1999 Y1 | 2000 08 22.02787 | 03 20 09.96 | +50 06 15.5 |        | 958 |
| C/1999 Y1 | 2000 08 23.09078 | 03 19 13.63 | +50 07 05.6 |        | 958 |
| C/1999 Y1 | 2000 08 23.13156 | 03 19 11.29 | +50 07 09.1 |        | 958 |
| C/1999 Y1 | 2000 08 23.17553 | 03 19 08.84 | +50 07 11.4 |        | 958 |
| C/1999 Y1 | 2000 08 24.13572 | 03 18 15.59 | +50 07 51.7 |        | 958 |
| C/1999 Y1 | 2000 08 24.15660 | 03 18 14.38 | +50 07 52.2 |        | 958 |
| C/1999 Y1 | 2000 08 24.18244 | 03 18 12.92 | +50 07 52.2 |        | 958 |
| C/1999 Y1 | 2000 08 25.06720 | 03 17 21.77 | +50 08 23.7 | 15.2 N | 170 |
| C/1999 Y1 | 2000 08 27.06598 | 03 15 19.15 | +50 09 18.6 |        | 958 |
| C/1999 Y1 | 2000 08 27.08038 | 03 15 18.40 | +50 09 18.8 |        | 958 |
| C/1999 Y1 | 2000 08 28.05764 | 03 14 14.78 | +50 09 31.6 |        | 958 |
| C/1999 Y1 | 2000 08 28.14817 | 03 14 08.73 | +50 09 33.4 |        | 958 |
| C/1999 Y1 | 2000 08 28.16310 | 03 14 07.72 | +50 09 33.1 |        | 958 |
| C/1999 Y1 | 2000 08 28.17462 | 03 14 06.91 | +50 09 32.8 |        | 958 |
| C/1999 Y1 | 2000 08 29.03867 | 03 13 08.66 | +50 09 38.8 |        | 958 |
| C/1999 Y1 | 2000 08 29.08616 | 03 13 05.27 | +50 09 39.4 |        | 958 |
| C/1999 Y1 | 2000 08 29.12193 | 03 13 02.77 | +50 09 40.1 |        | 958 |
| C/1999 Y1 | 2000 08 31.07449 | 03 10 43.33 | +50 09 26.0 |        | 958 |
| C/1999 Y1 | 2000 08 31.07876 | 03 10 43.03 | +50 09 26.2 |        | 958 |
| C/1999 Y1 | 2000 08 31.08302 | 03 10 42.69 | +50 09 26.1 |        | 958 |

|           |                  |             |             |        |     |           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|-----------|------------------|-------------|-------------|--------|-----|
| C/1999 Y1 | 2000 09 01.07244 | 03 09 28.20 | +50 09 05.1 |        | 958 | C/1999 Y1 | 2000 09 19.69752 | 02 37 54.31 | +49 19 09.7 | 13.5 T | 900 |
| C/1999 Y1 | 2000 09 01.08102 | 03 09 27.58 | +50 09 04.5 |        | 958 | C/1999 Y1 | 2000 09 19.70670 | 02 37 53.13 | +49 19 06.9 |        | 900 |
| C/1999 Y1 | 2000 09 02.04402 | 03 08 12.65 | +50 08 35.8 |        | 958 | C/1999 Y1 | 2000 09 20.16799 | 02 36 54.54 | +49 16 24.9 |        | 642 |
| C/1999 Y1 | 2000 09 02.05259 | 03 08 12.01 | +50 08 36.2 |        | 958 | C/1999 Y1 | 2000 09 20.17088 | 02 36 53.63 | +49 16 25.1 |        | 642 |
| C/1999 Y1 | 2000 09 02.05692 | 03 08 11.53 | +50 08 34.6 |        | 958 | C/1999 Y1 | 2000 09 20.63506 | 02 35 54.61 | +49 13 40.5 | 13.6 T | 348 |
| C/1999 Y1 | 2000 09 02.60356 | 03 07 27.97 | +50 08 14.1 | 14.0 T | 349 | C/1999 Y1 | 2000 09 20.63872 | 02 35 54.14 | +49 13 39.1 |        | 348 |
| C/1999 Y1 | 2000 09 02.60490 | 03 07 27.87 | +50 08 14.3 |        | 349 | C/1999 Y1 | 2000 09 21.17442 | 02 34 44.66 | +49 10 17.6 |        | 642 |
| C/1999 Y1 | 2000 09 02.60921 | 03 07 27.51 | +50 08 14.0 |        | 349 | C/1999 Y1 | 2000 09 21.17866 | 02 34 44.24 | +49 10 16.7 |        | 642 |
| C/1999 Y1 | 2000 09 02.96946 | 03 06 58.21 | +50 07 57.2 |        | 958 | C/1999 Y1 | 2000 09 22.16175 | 02 32 34.91 | +49 03 54.1 |        | 642 |
| C/1999 Y1 | 2000 09 02.99862 | 03 06 55.84 | +50 07 56.1 |        | 958 | C/1999 Y1 | 2000 09 22.16708 | 02 32 34.30 | +49 03 51.3 |        | 642 |
| C/1999 Y1 | 2000 09 03.01990 | 03 06 54.07 | +50 07 54.8 |        | 958 | C/1999 Y1 | 2000 09 23.23377 | 02 30 11.46 | +48 56 27.0 |        | 642 |
| C/1999 Y1 | 2000 09 03.03126 | 03 06 53.12 | +50 07 54.5 |        | 958 | C/1999 Y1 | 2000 09 23.23868 | 02 30 10.84 | +48 56 25.2 |        | 642 |
| C/1999 Y1 | 2000 09 03.04791 | 03 06 51.77 | +50 07 53.8 |        | 958 | C/1999 Y1 | 2000 09 23.24186 | 02 30 10.37 | +48 56 23.6 |        | 642 |
| C/1999 Y1 | 2000 09 05.06106 | 03 04 01.67 | +50 05 54.9 |        | 958 | C/1999 Y1 | 2000 09 24.85242 | 02 26 29.76 | +48 44 12.1 |        | 970 |
| C/1999 Y1 | 2000 09 05.06963 | 03 04 00.95 | +50 05 53.9 |        | 958 | C/1999 Y1 | 2000 09 24.86200 | 02 26 28.43 | +48 44 06.7 |        | 970 |
| C/1999 Y1 | 2000 09 05.09080 | 03 03 59.00 | +50 05 52.9 |        | 958 | C/1999 Y1 | 2000 09 24.86985 | 02 26 27.26 | +48 44 03.4 |        | 970 |
| C/1999 Y1 | 2000 09 05.11126 | 03 03 57.20 | +50 05 51.6 |        | 958 | C/1999 Y1 | 2000 09 24.91892 | 02 26 20.51 | +48 43 39.5 |        | 970 |
| C/1999 Y1 | 2000 09 05.11985 | 03 03 56.43 | +50 05 51.1 |        | 958 | C/1999 Y1 | 2000 09 24.93235 | 02 26 18.68 | +48 43 33.7 |        | 970 |
| C/1999 Y1 | 2000 09 05.77431 | 03 02 58.64 | +50 05 01.6 | 13.8 T | 360 | C/1999 Y1 | 2000 09 26.10590 | 02 23 33.77 | +48 33 50.8 | 13.6 T | 106 |
| C/1999 Y1 | 2000 09 05.77708 | 03 02 58.39 | +50 05 01.3 |        | 360 | C/1999 Y1 | 2000 09 26.13016 | 02 23 30.28 | +48 33 38.2 | 13.7 T | 106 |
| C/1999 Y1 | 2000 09 06.12793 | 03 02 27.05 | +50 04 30.8 |        | 958 | C/1999 Y1 | 2000 09 26.15173 | 02 23 27.16 | +48 33 27.0 | 13.7 T | 106 |
| C/1999 Y1 | 2000 09 06.15828 | 03 02 24.23 | +50 04 29.1 |        | 958 | C/1999 Y1 | 2000 09 26.22067 | 02 23 17.73 | +48 32 50.6 |        | 642 |
| C/1999 Y1 | 2000 09 06.17609 | 03 02 22.57 | +50 04 27.0 |        | 958 | C/1999 Y1 | 2000 09 26.22287 | 02 23 17.55 | +48 32 49.3 |        | 642 |
| C/1999 Y1 | 2000 09 08.13748 | 02 59 20.41 | +50 01 10.3 |        | 958 | C/1999 Y1 | 2000 09 26.22483 | 02 23 17.21 | +48 32 48.7 |        | 642 |
| C/1999 Y1 | 2000 09 08.16022 | 02 59 18.25 | +50 01 07.9 |        | 958 | C/1999 Y1 | 2000 09 26.71563 | 02 22 07.14 | +48 28 32.6 | 13.5 T | 360 |
| C/1999 Y1 | 2000 09 08.17861 | 02 59 16.42 | +50 01 06.1 |        | 958 | C/1999 Y1 | 2000 09 26.71840 | 02 22 06.73 | +48 28 31.3 |        | 360 |
| C/1999 Y1 | 2000 09 09.17309 | 02 57 39.92 | +49 59 04.1 |        | 958 | C/1999 Y1 | 2000 09 27.22039 | 02 20 55.03 | +48 23 57.7 |        | 642 |
| C/1999 Y1 | 2000 09 09.19236 | 02 57 37.88 | +49 59 01.9 |        | 958 | C/1999 Y1 | 2000 09 27.22262 | 02 20 54.75 | +48 23 56.7 |        | 642 |
| C/1999 Y1 | 2000 09 10.63036 | 02 55 13.72 | +49 55 37.4 | 14.2 T | 349 | C/1999 Y1 | 2000 09 27.22459 | 02 20 54.44 | +48 23 55.7 |        | 642 |
| C/1999 Y1 | 2000 09 10.63155 | 02 55 13.63 | +49 55 37.2 |        | 349 | C/1999 Y1 | 2000 09 27.24016 | 02 20 51.96 | +48 23 47.8 |        | 750 |
| C/1999 Y1 | 2000 09 10.63270 | 02 55 13.43 | +49 55 37.2 |        | 349 | C/1999 Y1 | 2000 09 27.24963 | 02 20 50.79 | +48 23 43.0 | 15.0 T | 750 |
| C/1999 Y1 | 2000 09 11.21925 | 02 54 12.96 | +49 54 02.4 | 15.7 T | 642 | C/1999 Y1 | 2000 09 27.26001 | 02 20 49.18 | +48 23 36.7 |        | 750 |
| C/1999 Y1 | 2000 09 11.22422 | 02 54 12.44 | +49 54 01.5 |        | 642 | C/1999 Y1 | 2000 09 27.72814 | 02 19 41.53 | +48 19 16.8 | 13.6 T | 349 |
| C/1999 Y1 | 2000 09 11.22546 | 02 54 12.23 | +49 54 00.7 |        | 642 | C/1999 Y1 | 2000 09 27.72950 | 02 19 41.33 | +48 19 16.1 |        | 349 |
| C/1999 Y1 | 2000 09 12.07571 | 02 52 42.73 | +49 51 36.6 |        | 046 | C/1999 Y1 | 2000 09 27.73160 | 02 19 41.05 | +48 19 15.1 |        | 349 |
| C/1999 Y1 | 2000 09 12.07686 | 02 52 42.61 | +49 51 36.4 |        | 046 | C/1999 Y1 | 2000 09 29.71531 | 02 14 50.14 | +47 59 33.3 | 13.6 T | 349 |
| C/1999 Y1 | 2000 09 12.07797 | 02 52 42.48 | +49 51 36.3 |        | 046 | C/1999 Y1 | 2000 09 29.71772 | 02 14 49.82 | +47 59 31.9 |        | 349 |
| C/1999 Y1 | 2000 09 13.18772 | 02 50 43.00 | +49 48 03.4 | 15.3 T | 642 | C/1999 Y1 | 2000 09 29.72096 | 02 14 49.33 | +47 59 29.9 |        | 349 |
| C/1999 Y1 | 2000 09 13.19020 | 02 50 42.72 | +49 48 03.4 |        | 642 | C/1999 Y1 | 2000 09 30.20800 | 02 13 37.30 | +47 54 20.4 |        | 921 |
| C/1999 Y1 | 2000 09 13.19516 | 02 50 42.15 | +49 48 03.2 |        | 642 | C/1999 Y1 | 2000 09 30.23679 | 02 13 32.70 | +47 54 00.6 | 12.6 T | 921 |
| C/1999 Y1 | 2000 09 15.61037 | 02 46 10.01 | +49 39 04.8 |        | 349 | C/1999 Y1 | 2000 09 30.85282 | 02 12 00.46 | +47 47 16.4 |        | 970 |
| C/1999 Y1 | 2000 09 15.61212 | 02 46 09.78 | +49 39 04.6 |        | 349 | C/1999 Y1 | 2000 09 30.86457 | 02 11 58.73 | +47 47 08.5 |        | 970 |
| C/1999 Y1 | 2000 09 15.61391 | 02 46 09.65 | +49 39 04.6 |        | 349 | C/1999 Y1 | 2000 09 30.87701 | 02 11 56.84 | +47 47 00.5 |        | 970 |
| C/1999 Y1 | 2000 09 17.22366 | 02 42 59.59 | +49 31 56.7 | 15.2 T | 642 | C/1999 Y1 | 2000 09 30.88431 | 02 11 55.77 | +47 46 55.6 |        | 970 |
| C/1999 Y1 | 2000 09 17.22613 | 02 42 59.31 | +49 31 55.0 |        | 642 | C/1999 Y1 | 2000 10 02.19891 | 02 08 36.86 | +47 31 49.0 |        | 642 |
| C/1999 Y1 | 2000 09 17.22986 | 02 42 58.95 | +49 31 54.9 |        | 642 | C/1999 Y1 | 2000 10 02.20233 | 02 08 36.22 | +47 31 46.3 |        | 642 |
| C/1999 Y1 | 2000 09 18.33090 | 02 40 44.84 | +49 26 32.0 | 18.3 T | 704 | C/1999 Y1 | 2000 10 02.20797 | 02 08 35.33 | +47 31 44.1 |        | 642 |
| C/1999 Y1 | 2000 09 18.34542 | 02 40 43.06 | +49 26 27.7 | 18.6 T | 704 | C/1999 Y1 | 2000 10 03.16752 | 02 06 08.49 | +47 20 05.8 | 16.4 T | 750 |
| C/1999 Y1 | 2000 09 18.35994 | 02 40 41.32 | +49 26 23.0 | 18.7 T | 704 | C/1999 Y1 | 2000 10 03.17524 | 02 06 07.33 | +47 20 00.2 | 16.6 T | 750 |
| C/1999 Y1 | 2000 09 18.39120 | 02 40 36.97 | +49 26 11.8 | 19.1 T | 704 | C/1999 Y1 | 2000 10 03.18598 | 02 06 05.63 | +47 19 52.2 | 16.5 T | 750 |
| C/1999 Y1 | 2000 09 18.78116 | 02 39 48.98 | +49 24 11.4 | 13.9 T | 349 | C/1999 Y1 | 2000 10 04.59855 | 02 02 27.28 | +47 01 45.3 |        | 352 |
| C/1999 Y1 | 2000 09 18.78608 | 02 39 48.39 | +49 24 10.2 |        | 349 | C/1999 Y1 | 2000 10 04.60203 | 02 02 26.61 | +47 01 42.9 | 13.6 T | 352 |
| C/1999 Y1 | 2000 09 18.79163 | 02 39 47.71 | +49 24 08.1 |        | 349 | C/1999 Y1 | 2000 10 04.60550 | 02 02 26.24 | +47 01 39.3 |        | 352 |

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M.P.C. 41257

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/1999 Y1 | 2000 10 05.65939 | 01 59 41.66 | +46 47 21.7 | 13.4 T | 402 |
| C/1999 Y1 | 2000 10 05.66064 | 01 59 41.47 | +46 47 20.7 |        | 402 |
| C/1999 Y1 | 2000 10 05.66190 | 01 59 41.26 | +46 47 19.6 |        | 402 |
| C/1999 Y1 | 2000 10 06.20348 | 01 58 16.54 | +46 39 41.3 |        | 642 |
| C/1999 Y1 | 2000 10 06.20545 | 01 58 16.28 | +46 39 40.3 |        | 642 |
| C/1999 Y1 | 2000 10 06.20744 | 01 58 15.89 | +46 39 37.7 |        | 642 |
| C/1999 Y1 | 2000 10 07.35261 | 01 55 15.37 | +46 22 58.5 | 15.3 T | 704 |
| C/1999 Y1 | 2000 10 07.36844 | 01 55 12.69 | +46 22 44.8 | 15.1 T | 704 |
| C/1999 Y1 | 2000 10 07.38371 | 01 55 10.52 | +46 22 30.2 | 15.0 T | 704 |
| C/1999 Y1 | 2000 10 07.39971 | 01 55 07.74 | +46 22 17.7 | 14.9 T | 704 |

**C/2000 K1 (LINEAR)**

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/2000 K1 | 2000 09 20.46285 | 15 47 22.00 | +13 23 56.6 | 16.9 T | 360 |
| C/2000 K1 | 2000 09 20.46667 | 15 47 22.08 | +13 23 56.7 |        | 360 |

**C/2000 K2 (LINEAR)**

|           |                  |             |             |        |       |
|-----------|------------------|-------------|-------------|--------|-------|
| C/2000 K2 | 2000 09 17.47951 | 17 50 26.35 | +05 06 05.1 | 15.1 T | 360   |
| C/2000 K2 | 2000 09 17.48247 | 17 50 26.61 | +05 06 03.4 |        | 360   |
| C/2000 K2 | 2000 09 20.14975 | 17 54 06.85 | +04 40 48.7 | 15.6 T | 921   |
| C/2000 K2 | 2000 09 20.17095 | 17 54 08.51 | +04 40 37.3 | 16.1 T | 921   |
| C/2000 K2 | 2000 09 21.15404 | 17 55 31.92 | +04 31 24.9 | 16.3 T | 7 921 |
| C/2000 K2 | 2000 09 21.17428 | 17 55 33.54 | +04 31 15.2 | 16.5 T | 921   |
| C/2000 K2 | 2000 09 25.13094 | 18 01 18.21 | +03 54 41.7 | 16.3 T | 921   |
| C/2000 K2 | 2000 09 25.20755 | 18 01 24.85 | +03 53 58.8 | 16.6 T | 921   |
| C/2000 K2 | 2000 09 26.12322 | 18 02 47.11 | +03 45 39.8 | 16.2 T | 921   |
| C/2000 K2 | 2000 09 26.14376 | 18 02 48.99 | +03 45 28.9 | 16.7 T | 921   |
| C/2000 K2 | 2000 09 26.19326 | 18 02 53.34 | +03 45 06.0 | 15.6 T | 8 921 |
| C/2000 K2 | 2000 09 26.44792 | 18 03 16.39 | +03 42 45.0 | 14.8 T | 6 360 |
| C/2000 K2 | 2000 09 26.45069 | 18 03 16.65 | +03 42 43.4 |        | 6 360 |
| C/2000 K2 | 2000 09 28.11014 | 18 05 48.16 | +03 27 48.4 |        | 921   |
| C/2000 K2 | 2000 09 28.12439 | 18 05 49.36 | +03 27 41.3 |        | 8 921 |
| C/2000 K2 | 2000 09 28.13884 | 18 05 50.71 | +03 27 33.0 |        | 921   |
| C/2000 K2 | 2000 09 28.17884 | 18 05 54.47 | +03 27 11.9 | 16.0 T | 921   |
| C/2000 K2 | 2000 09 30.11153 | 18 08 54.31 | +03 10 07.0 | 16.5 T | 921   |
| C/2000 K2 | 2000 09 30.12812 | 18 08 55.93 | +03 09 58.3 |        | 921   |
| C/2000 K2 | 2000 09 30.13866 | 18 08 56.87 | +03 09 52.9 | 16.8 T | 921   |
| C/2000 K2 | 2000 09 30.15248 | 18 08 58.00 | +03 09 49.3 | 15.7 T | 8 921 |

**C/2000 O1 (Koehn)**

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| C/2000 O1 | 2000 09 25.92507 | 23 47 16.21 | +39 06 42.6 | 18.3 T | 106 |
| C/2000 O1 | 2000 09 25.94148 | 23 47 15.03 | +39 06 37.5 | 18.3 T | 106 |
| C/2000 O1 | 2000 09 25.95777 | 23 47 13.69 | +39 06 30.0 | 17.6 T | 106 |
| C/2000 O1 | 2000 09 26.61944 | 23 46 19.83 | +39 02 06.9 | 18.2 T | 360 |
| C/2000 O1 | 2000 09 26.62431 | 23 46 19.42 | +39 02 04.9 |        | 360 |
| C/2000 O1 | 2000 09 26.62917 | 23 46 19.04 | +39 02 03.3 |        | 360 |
| C/2000 O1 | 2000 09 27.87390 | 23 44 38.44 | +38 53 33.7 |        | 118 |
| C/2000 O1 | 2000 09 27.88075 | 23 44 37.87 | +38 53 31.4 |        | 118 |

**P/2000 R2 (LINEAR)**

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| P/2000 R2 | 2000 09 03.14818 | 19 54 00.63 | -14 41 32.0 | 18.7 N | 704 |
| P/2000 R2 | 2000 09 03.16162 | 19 54 01.87 | -14 41 32.3 | 18.7 N | 704 |
| P/2000 R2 | 2000 09 03.17506 | 19 54 03.26 | -14 41 35.5 | 18.7 N | 704 |
| P/2000 R2 | 2000 09 03.18848 | 19 54 04.44 | -14 41 37.7 | 18.8 N | 704 |
| P/2000 R2 | 2000 09 04.23868 | 19 55 50.94 | -14 44 30.8 | 18.1 N | 704 |
| P/2000 R2 | 2000 09 04.25220 | 19 55 52.27 | -14 44 33.2 | 18.6 N | 704 |

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| P/2000 R2 | 2000 09 04.27923 | 19 55 54.97 | -14 44 37.8 | 18.7 N | 704 |
| P/2000 R2 | 2000 09 04.29285 | 19 55 56.46 | -14 44 38.9 | 18.6 N | 704 |
| P/2000 R2 | 2000 09 05.13178 | 19 57 25.11 | -14 46 52.3 | 18.2 N | 704 |
| P/2000 R2 | 2000 09 05.14549 | 19 57 26.53 | -14 46 53.8 | 18.6 N | 704 |
| P/2000 R2 | 2000 09 05.15922 | 19 57 27.84 | -14 46 55.7 | 18.6 N | 704 |
| P/2000 R2 | 2000 09 05.17301 | 19 57 29.16 | -14 46 59.3 | 18.6 N | 704 |
| P/2000 R2 | 2000 09 06.12865 | 19 59 12.13 | -14 49 20.7 | 18.5 N | 704 |
| P/2000 R2 | 2000 09 06.14163 | 19 59 13.47 | -14 49 21.4 | 18.5 N | 704 |
| P/2000 R2 | 2000 09 06.15465 | 19 59 14.78 | -14 49 23.9 | 18.6 N | 704 |
| P/2000 R2 | 2000 09 06.45027 | 19 59 47.45 | -14 50 06.1 |        | 344 |
| P/2000 R2 | 2000 09 06.45304 | 19 59 47.65 | -14 50 05.5 | 19.1 N | 344 |
| P/2000 R2 | 2000 09 06.45519 | 19 59 47.90 | -14 50 05.8 | 19.1 N | 344 |
| P/2000 R2 | 2000 09 06.45825 | 19 59 48.20 | -14 50 07.1 |        | 344 |
| P/2000 R2 | 2000 09 07.21947 | 20 01 12.14 | -14 51 51.3 |        | 658 |
| P/2000 R2 | 2000 09 07.22730 | 20 01 12.87 | -14 51 53.7 |        | 658 |
| P/2000 R2 | 2000 09 07.23617 | 20 01 13.72 | -14 51 55.0 |        | 658 |
| P/2000 R2 | 2000 09 07.85287 | 20 02 23.36 | -14 53 14.7 | 18.1 N | 046 |
| P/2000 R2 | 2000 09 07.85834 | 20 02 23.89 | -14 53 14.3 |        | 046 |
| P/2000 R2 | 2000 09 11.25269 | 20 09 03.91 | -14 59 11.6 |        | 658 |
| P/2000 R2 | 2000 09 11.26234 | 20 09 04.96 | -14 59 12.8 |        | 658 |
| P/2000 R2 | 2000 09 11.26441 | 20 09 05.19 | -14 59 12.3 |        | 658 |
| P/2000 R2 | 2000 09 16.12926 | 20 19 27.46 | -15 03 26.7 | 18.9 N | 853 |
| P/2000 R2 | 2000 09 16.14123 | 20 19 28.97 | -15 03 27.0 | 19.0 N | 853 |
| P/2000 R2 | 2000 09 16.14216 | 20 19 29.14 | -15 03 27.0 | 19.0 N | 853 |
| P/2000 R2 | 2000 09 18.06184 | 20 23 48.72 | -15 03 37.2 | 20.2 N | 734 |
| P/2000 R2 | 2000 09 18.07514 | 20 23 50.47 | -15 03 37.0 | 20.0 N | 734 |
| P/2000 R2 | 2000 09 18.10456 | 20 23 54.55 | -15 03 35.9 | 18.4 T | 704 |
| P/2000 R2 | 2000 09 18.11913 | 20 23 56.42 | -15 03 36.3 | 18.6 T | 704 |
| P/2000 R2 | 2000 09 18.13299 | 20 23 58.31 | -15 03 35.6 | 20.0 N | 853 |
| P/2000 R2 | 2000 09 18.13372 | 20 23 58.33 | -15 03 36.2 | 18.6 T | 704 |
| P/2000 R2 | 2000 09 18.13402 | 20 23 58.42 | -15 03 35.9 | 20.0 N | 853 |
| P/2000 R2 | 2000 09 18.14021 | 20 23 59.26 | -15 03 36.2 | 19.9 N | 853 |
| P/2000 R2 | 2000 09 20.52101 | 20 29 30.72 | -15 02 29.0 | 18.3 T | 360 |
| P/2000 R2 | 2000 09 20.52483 | 20 29 31.20 | -15 02 28.7 |        | 360 |
| P/2000 R2 | 2000 09 20.52847 | 20 29 31.72 | -15 02 29.2 |        | 360 |
| P/2000 R2 | 2000 09 24.11200 | 20 38 10.00 | -14 58 00.5 | 18.7 T | 704 |
| P/2000 R2 | 2000 09 24.12686 | 20 38 12.09 | -14 58 00.1 | 19.0 T | 704 |
| P/2000 R2 | 2000 09 24.14163 | 20 38 14.22 | -14 57 58.0 | 18.8 T | 704 |
| P/2000 R2 | 2000 09 24.15650 | 20 38 16.40 | -14 57 57.5 | 19.3 T | 704 |
| P/2000 R2 | 2000 09 27.47569 | 20 46 33.61 | -14 50 43.3 | 18.2 T | 360 |
| P/2000 R2 | 2000 09 27.47986 | 20 46 34.14 | -14 50 42.2 |        | 360 |
| P/2000 R2 | 2000 09 27.48385 | 20 46 34.81 | -14 50 41.1 |        | 360 |

**P/2000 S1 (Skiff)**

|           |                  |             |             |        |       |
|-----------|------------------|-------------|-------------|--------|-------|
| P/2000 S1 | 2000 08 26.41582 | 00 51 26.22 | -16 06 25.6 | 18.6 N | 1 704 |
| P/2000 S1 | 2000 08 26.44278 | 00 51 25.44 | -16 06 23.7 | 18.4 N | 1 704 |
| P/2000 S1 | 2000 08 26.45630 | 00 51 25.00 | -16 06 22.1 | 19.0 N | 1 704 |
| P/2000 S1 | 2000 09 24.29782 | 00 31 11.97 | -14 35 32.8 | 14.8 T | 699   |
| P/2000 S1 | 2000 09 24.32105 | 00 31 10.83 | -14 35 26.0 |        | 699   |
| P/2000 S1 | 2000 09 24.34425 | 00 31 09.47 | -14 35 19.6 |        | 699   |
| P/2000 S1 | 2000 09 24.36749 | 00 31 08.30 | -14 35 12.6 |        | 699   |
| P/2000 S1 | 2000 09 25.86483 | 00 29 50.73 | -14 27 35.7 | 16.0 T | 046   |
| P/2000 S1 | 2000 09 25.86606 | 00 29 50.61 | -14 27 35.9 |        | 046   |

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| P/2000 S1 | 2000 09 25.86712 | 00 29 50.49 | -14 27 35.5 |        | 046 |
| P/2000 S1 | 2000 09 26.02273 | 00 29 42.22 | -14 26 46.1 | 16.5 T | 595 |
| P/2000 S1 | 2000 09 26.02685 | 00 29 41.97 | -14 26 44.4 |        | 595 |
| P/2000 S1 | 2000 09 26.03197 | 00 29 41.78 | -14 26 43.1 |        | 595 |
| P/2000 S1 | 2000 09 26.12326 | 00 29 37.24 | -14 26 05.6 |        | 808 |
| P/2000 S1 | 2000 09 26.13507 | 00 29 36.50 | -14 26 01.6 |        | 808 |
| P/2000 S1 | 2000 09 26.14826 | 00 29 35.88 | -14 25 58.1 |        | 808 |
| P/2000 S1 | 2000 09 26.18088 | 00 29 34.22 | -14 25 55.3 | 15.6 T | 858 |
| P/2000 S1 | 2000 09 26.18478 | 00 29 34.02 | -14 25 54.0 | 15.5 T | 858 |
| P/2000 S1 | 2000 09 26.18860 | 00 29 33.80 | -14 25 53.2 | 15.5 T | 858 |
| P/2000 S1 | 2000 09 26.24946 | 00 29 30.55 | -14 25 33.3 |        | 719 |
| P/2000 S1 | 2000 09 26.25173 | 00 29 30.43 | -14 25 32.8 | 17.1 T | 704 |
| P/2000 S1 | 2000 09 26.28148 | 00 29 28.89 | -14 25 23.8 |        | 719 |
| P/2000 S1 | 2000 09 26.28149 | 00 29 28.78 | -14 25 21.8 | 17.7 T | 704 |
| P/2000 S1 | 2000 09 26.29775 | 00 29 27.87 | -14 25 18.9 | 17.5 T | 704 |
| P/2000 S1 | 2000 09 26.31118 | 00 29 27.17 | -14 25 14.1 | 17.3 T | 921 |
| P/2000 S1 | 2000 09 26.53345 | 00 29 15.75 | -14 24 01.7 | 16.5 T | 348 |
| P/2000 S1 | 2000 09 26.54821 | 00 29 15.07 | -14 23 58.1 |        | 348 |
| P/2000 S1 | 2000 09 26.60223 | 00 29 11.94 | -14 23 41.5 | 16.1 T | 903 |
| P/2000 S1 | 2000 09 26.60625 | 00 29 11.76 | -14 23 40.6 |        | 903 |
| P/2000 S1 | 2000 09 26.61245 | 00 29 11.41 | -14 23 38.7 |        | 903 |
| P/2000 S1 | 2000 09 26.64757 | 00 29 09.66 | -14 23 27.3 | 15.6 T | 360 |
| P/2000 S1 | 2000 09 26.65000 | 00 29 09.54 | -14 23 26.3 |        | 360 |
| P/2000 S1 | 2000 09 26.65243 | 00 29 09.39 | -14 23 25.6 |        | 360 |
| P/2000 S1 | 2000 09 26.66238 | 00 29 08.78 | -14 23 22.7 | 14.8 T | 388 |
| P/2000 S1 | 2000 09 26.66542 | 00 29 08.63 | -14 23 22.1 |        | 388 |
| P/2000 S1 | 2000 09 26.66763 | 00 29 08.57 | -14 23 21.1 |        | 388 |
| P/2000 S1 | 2000 09 26.66935 | 00 29 08.39 | -14 23 20.7 |        | 388 |
| P/2000 S1 | 2000 09 26.67098 | 00 29 08.31 | -14 23 20.2 |        | 388 |
| P/2000 S1 | 2000 09 26.67264 | 00 29 08.20 | -14 23 20.1 |        | 388 |
| P/2000 S1 | 2000 09 26.67453 | 00 29 08.05 | -14 23 19.4 |        | 388 |
| P/2000 S1 | 2000 09 26.67773 | 00 29 07.90 | -14 23 17.7 |        | 388 |
| P/2000 S1 | 2000 09 26.68352 | 00 29 07.63 | -14 23 14.2 |        | 349 |
| P/2000 S1 | 2000 09 26.68544 | 00 29 07.55 | -14 23 14.7 |        | 349 |
| P/2000 S1 | 2000 09 26.69714 | 00 29 06.87 | -14 23 12.1 | 15.6 T | 349 |
| P/2000 S1 | 2000 09 26.71577 | 00 29 05.87 | -14 23 05.3 |        | 349 |
| P/2000 S1 | 2000 09 26.85145 | 00 28 59.20 | -14 22 22.0 |        | 046 |
| P/2000 S1 | 2000 09 26.85418 | 00 28 59.03 | -14 22 21.4 | 15.9 T | 046 |
| P/2000 S1 | 2000 09 26.85520 | 00 28 58.98 | -14 22 21.2 | 16.9 N | 046 |
| P/2000 S1 | 2000 09 26.85616 | 00 28 58.92 | -14 22 21.1 |        | 046 |
| P/2000 S1 | 2000 09 26.85716 | 00 28 58.87 | -14 22 20.4 |        | 046 |
| P/2000 S1 | 2000 09 26.85816 | 00 28 58.84 | -14 22 20.0 |        | 046 |
| P/2000 S1 | 2000 09 26.85913 | 00 28 58.78 | -14 22 19.9 |        | 046 |
| P/2000 S1 | 2000 09 26.89868 | 00 28 56.67 | -14 22 07.1 | 14.8 T | 151 |
| P/2000 S1 | 2000 09 26.90069 | 00 28 56.56 | -14 22 06.3 | 15.1 T | 151 |
| P/2000 S1 | 2000 09 26.90403 | 00 28 56.39 | -14 22 05.6 | 15.0 T | 151 |
| P/2000 S1 | 2000 09 26.90610 | 00 28 56.27 | -14 22 04.6 | 14.8 T | 151 |
| P/2000 S1 | 2000 09 27.12245 | 00 28 45.01 | -14 20 47.7 |        | 834 |
| P/2000 S1 | 2000 09 27.15921 | 00 28 42.99 | -14 20 36.6 |        | 834 |
| P/2000 S1 | 2000 09 27.19924 | 00 28 40.90 | -14 20 23.2 |        | 834 |
| P/2000 S1 | 2000 09 27.29427 | 00 28 35.85 | -14 19 57.7 | 16.5 T | 706 |
| P/2000 S1 | 2000 09 27.30696 | 00 28 35.21 | -14 19 52.8 | 16.6 T | 706 |
| P/2000 S1 | 2000 09 27.32924 | 00 28 33.97 | -14 19 45.6 | 16.5 T | 706 |

|           |                  |             |             |        |     |
|-----------|------------------|-------------|-------------|--------|-----|
| P/2000 S1 | 2000 09 27.52273 | 00 28 24.25 | -14 18 43.5 | 16.0 T | 367 |
| P/2000 S1 | 2000 09 27.52412 | 00 28 24.19 | -14 18 43.0 |        | 367 |
| P/2000 S1 | 2000 09 27.52551 | 00 28 24.10 | -14 18 43.0 |        | 367 |
| P/2000 S1 | 2000 09 27.52690 | 00 28 24.04 | -14 18 42.4 |        | 367 |
| P/2000 S1 | 2000 09 27.52829 | 00 28 23.92 | -14 18 42.0 |        | 367 |
| P/2000 S1 | 2000 09 27.57338 | 00 28 21.46 | -14 18 27.3 |        | 900 |
| P/2000 S1 | 2000 09 27.58242 | 00 28 20.99 | -14 18 24.0 | 16.5 T | 348 |
| P/2000 S1 | 2000 09 27.58484 | 00 28 20.87 | -14 18 23.2 | 15.9 T | 900 |
| P/2000 S1 | 2000 09 27.59143 | 00 28 20.43 | -14 18 20.5 |        | 348 |
| P/2000 S1 | 2000 09 27.67242 | 00 28 16.03 | -14 17 54.4 |        | 349 |
| P/2000 S1 | 2000 09 27.67905 | 00 28 15.70 | -14 17 52.4 | 15.7 T | 349 |
| P/2000 S1 | 2000 09 28.12390 | 00 27 52.72 | -14 15 19.2 |        | 834 |
| P/2000 S1 | 2000 09 28.14926 | 00 27 51.26 | -14 15 10.8 |        | 834 |
| P/2000 S1 | 2000 09 28.18171 | 00 27 49.60 | -14 14 58.6 |        | 834 |
| P/2000 S1 | 2000 09 28.21021 | 00 27 48.02 | -14 14 49.3 |        | 834 |
| P/2000 S1 | 2000 09 28.24335 | 00 27 46.41 | -14 14 43.5 | 16.2 T | 706 |
| P/2000 S1 | 2000 09 28.27564 | 00 27 44.69 | -14 14 32.6 | 16.3 T | 706 |
| P/2000 S1 | 2000 09 29.26368 | 00 26 53.36 | -14 08 55.1 | 16.5 T | 921 |
| P/2000 S1 | 2000 09 29.31603 | 00 26 50.41 | -14 08 38.5 | 17.3 T | 921 |
| P/2000 S1 | 2000 09 30.85601 | 00 25 31.31 | -13 59 35.8 |        | 046 |
| P/2000 S1 | 2000 09 30.86757 | 00 25 30.67 | -13 59 31.3 | 16.2 T | 046 |
| P/2000 S1 | 2000 09 30.87124 | 00 25 30.50 | -13 59 30.2 |        | 046 |
| P/2000 S1 | 2000 09 30.87492 | 00 25 30.33 | -13 59 29.6 |        | 046 |
| P/2000 S1 | 2000 10 01.24640 | 00 25 11.13 | -13 57 12.3 | 16.3 T | 704 |
| P/2000 S1 | 2000 10 01.27775 | 00 25 09.35 | -13 57 01.7 | 16.5 T | 704 |
| P/2000 S1 | 2000 10 01.29282 | 00 25 08.66 | -13 56 55.0 | 16.9 T | 704 |
| P/2000 S1 | 2000 10 01.30745 | 00 25 07.81 | -13 56 49.9 | 16.6 T | 704 |
| P/2000 S1 | 2000 10 01.60985 | 00 24 52.45 | -13 55 00.4 | 15.8 T | 900 |
| P/2000 S1 | 2000 10 01.61875 | 00 24 51.99 | -13 54 58.3 |        | 900 |
| P/2000 S1 | 2000 10 03.51069 | 00 23 16.12 | -13 42 58.5 |        | 322 |
| P/2000 S1 | 2000 10 03.54355 | 00 23 14.42 | -13 42 45.8 |        | 322 |
| P/2000 S1 | 2000 10 03.57632 | 00 23 12.70 | -13 42 33.3 |        | 322 |
| P/2000 S1 | 2000 10 04.54046 | 00 22 24.31 | -13 36 21.4 | 16.4 T | 348 |
| P/2000 S1 | 2000 10 04.54468 | 00 22 24.03 | -13 36 21.2 |        | 348 |
| P/2000 S1 | 2000 10 05.62125 | 00 21 30.64 | -13 29 09.3 | 15.8 T | 402 |
| P/2000 S1 | 2000 10 05.62251 | 00 21 30.56 | -13 29 09.2 |        | 402 |
| P/2000 S1 | 2000 10 05.62377 | 00 21 30.51 | -13 29 08.2 |        | 402 |

## C/2000 S3

|           |                  |             |             |        |       |
|-----------|------------------|-------------|-------------|--------|-------|
| C/2000 S3 | 2000 09 20.33024 | 00 59 03.38 | -21 43 42.8 | 18.5 N | 1 704 |
| C/2000 S3 | 2000 09 20.34573 | 00 59 02.57 | -21 43 39.5 | 18.7 N | 1 704 |
| C/2000 S3 | 2000 09 20.36106 | 00 59 01.91 | -21 43 34.9 | 18.8 N | 1 704 |
| C/2000 S3 | 2000 09 20.37617 | 00 59 01.20 | -21 43 30.3 | 19.2 N | 1 704 |
| C/2000 S3 | 2000 09 20.39095 | 00 59 00.39 | -21 43 26.3 | 19.1 N | 1 704 |
| C/2000 S3 | 2000 09 29.26958 | 00 51 46.10 | -21 01 00.7 | 17.7 T | 699   |
| C/2000 S3 | 2000 09 29.27891 | 00 51 45.60 | -21 00 57.2 |        | 699   |
| C/2000 S3 | 2000 09 29.28826 | 00 51 45.18 | -21 00 53.8 |        | 699   |
| C/2000 S3 | 2000 09 29.29753 | 00 51 44.66 | -21 00 51.4 |        | 699   |
| C/2000 S3 | 2000 10 02.26013 | 00 49 16.18 | -20 42 59.5 |        | 711   |
| C/2000 S3 | 2000 10 02.26713 | 00 49 15.84 | -20 42 57.1 |        | 711   |
| C/2000 S3 | 2000 10 02.27394 | 00 49 15.46 | -20 42 54.7 |        | 711   |
| C/2000 S3 | 2000 10 02.29037 | 00 49 14.68 | -20 42 48.1 | 18.2 T | 688   |
| C/2000 S3 | 2000 10 02.30223 | 00 49 14.05 | -20 42 43.7 |        | 688   |

## P/2000 S4

|           |                  |             |             |        |       |
|-----------|------------------|-------------|-------------|--------|-------|
| P/2000 S4 | 2000 09 01.19481 | 21 26 52.70 | +06 27 38.3 | 19.0 N | 1 704 |
| P/2000 S4 | 2000 09 01.20801 | 21 26 52.56 | +06 27 21.1 | 19.4 N | 1 704 |
| P/2000 S4 | 2000 09 01.22118 | 21 26 52.42 | +06 27 06.5 | 19.5 N | 1 704 |
| P/2000 S4 | 2000 09 01.23439 | 21 26 52.24 | +06 26 50.8 | 19.5 N | 1 704 |
| P/2000 S4 | 2000 09 01.24758 | 21 26 52.01 | +06 26 34.6 | 19.6 N | 1 704 |
| P/2000 S4 | 2000 09 23.19398 | 21 27 29.17 | -01 01 08.4 | 19.6 N | 704   |
| P/2000 S4 | 2000 09 23.20892 | 21 27 29.36 | -01 01 24.5 | 20.0 N | 704   |
| P/2000 S4 | 2000 09 23.22341 | 21 27 29.59 | -01 01 43.8 | 20.0 N | 704   |
| P/2000 S4 | 2000 09 23.23814 | 21 27 29.74 | -01 01 59.9 | 19.3 N | 704   |
| P/2000 S4 | 2000 09 26.09867 | 21 28 24.27 | -01 57 57.5 | 18.9 N | 704   |
| P/2000 S4 | 2000 09 26.11347 | 21 28 24.51 | -01 58 13.3 | 19.7 N | 704   |
| P/2000 S4 | 2000 09 26.12822 | 21 28 24.95 | -01 58 29.1 | 19.9 N | 704   |
| P/2000 S4 | 2000 09 26.14362 | 21 28 25.13 | -01 58 47.7 | 19.7 N | 704   |
| P/2000 S4 | 2000 10 02.15363 | 21 31 00.80 | -03 50 58.1 | 20.5 N | 691   |
| P/2000 S4 | 2000 10 02.17455 | 21 31 01.40 | -03 51 21.5 | 21.1 N | 691   |
| P/2000 S4 | 2000 10 02.19557 | 21 31 02.00 | -03 51 43.6 | 20.2 N | 691   |
| P/2000 S4 | 2000 10 03.16027 | 21 31 32.33 | -04 08 56.8 | 19.8 N | 691   |
| P/2000 S4 | 2000 10 03.16492 | 21 31 32.56 | -04 09 01.1 | 19.9 N | 691   |
| P/2000 S4 | 2000 10 03.17061 | 21 31 32.69 | -04 09 07.4 | 20.3 N | 691   |
| P/2000 S4 | 2000 10 03.30748 | 21 31 36.86 | -04 11 32.0 | 19.7 N | 691   |
| P/2000 S4 | 2000 10 03.31192 | 21 31 36.99 | -04 11 37.9 | 19.6 N | 691   |
| P/2000 S4 | 2000 10 03.31642 | 21 31 37.17 | -04 11 41.6 | 19.8 N | 691   |
| P/2000 S4 | 2000 10 04.13776 | 21 32 04.64 | -04 26 07.9 | 21.5 T | 691   |
| P/2000 S4 | 2000 10 04.14178 | 21 32 04.77 | -04 26 12.1 | 21.6 T | 691   |
| P/2000 S4 | 2000 10 04.14625 | 21 32 04.93 | -04 26 17.2 | 20.1 T | 691   |
| P/2000 S4 | 2000 10 04.15043 | 21 32 05.04 | -04 26 21.6 | 20.4 T | 691   |
| P/2000 S4 | 2000 10 04.15456 | 21 32 05.17 | -04 26 25.4 | 21.2 T | 691   |
| P/2000 S4 | 2000 10 07.16967 | 21 33 53.76 | -05 17 53.1 | 20.7 T | 691   |
| P/2000 S4 | 2000 10 07.17361 | 21 33 53.92 | -05 17 56.7 | 20.4 T | 691   |
| P/2000 S4 | 2000 10 07.17747 | 21 33 54.07 | -05 18 00.4 | 20.2 T | 691   |

## C/2000 T1 (SOHO)

|                          |                  |             |             |  |     |
|--------------------------|------------------|-------------|-------------|--|-----|
| C/2000 T1                | 2000 10 09.82090 | 12 29 02.2  | -08 44 51   |  | 249 |
| Geocentric position (AU) | -0.00917531      | -0.00529322 | -0.00304912 |  |     |
| C/2000 T1                | 2000 10 09.84590 | 12 29 31.8  | -08 44 36   |  | 249 |
| Geocentric position (AU) | -0.00917445      | -0.00529444 | -0.00305015 |  |     |
| C/2000 T1                | 2000 10 09.86256 | 12 29 50.2  | -08 43 47   |  | 249 |
| Geocentric position (AU) | -0.00917388      | -0.00529525 | -0.00305083 |  |     |
| C/2000 T1                | 2000 10 09.88757 | 12 30 19.6  | -08 43 05   |  | 249 |
| Geocentric position (AU) | -0.00917302      | -0.00529647 | -0.00305186 |  |     |
| C/2000 T1                | 2000 10 09.90423 | 12 30 39.1  | -08 42 31   |  | 249 |
| Geocentric position (AU) | -0.00917245      | -0.00529728 | -0.00305255 |  |     |
| C/2000 T1                | 2000 10 09.92924 | 12 31 07.8  | -08 42 06   |  | 249 |
| Geocentric position (AU) | -0.00917160      | -0.00529849 | -0.00305358 |  |     |
| C/2000 T1                | 2000 10 09.97098 | 12 31 55.3  | -08 40 54   |  | 249 |
| Geocentric position (AU) | -0.00917017      | -0.00530051 | -0.00305529 |  |     |
| C/2000 T1                | 2000 10 10.01256 | 12 32 44.3  | -08 39 24   |  | 249 |
| Geocentric position (AU) | -0.00916875      | -0.00530252 | -0.00305699 |  |     |
| C/2000 T1                | 2000 10 10.02923 | 12 33 03.7  | -08 38 47   |  | 249 |
| Geocentric position (AU) | -0.00916819      | -0.00530332 | -0.00305767 |  |     |
| C/2000 T1                | 2000 10 10.07090 | 12 33 53.3  | -08 37 31   |  | 249 |
| Geocentric position (AU) | -0.00916677      | -0.00530532 | -0.00305937 |  |     |

|                          |                  |             |             |  |     |
|--------------------------|------------------|-------------|-------------|--|-----|
| C/2000 T1                | 2000 10 10.07090 | 12 33 53.3  | -08 37 31   |  | 249 |
| Geocentric position (AU) | -0.00916677      | -0.00530532 | -0.00305937 |  |     |
| C/2000 T1                | 2000 10 10.22091 | 12 36 53.9  | -08 32 22   |  | 249 |
| Geocentric position (AU) | -0.00916170      | -0.00531249 | -0.00306546 |  |     |
| C/2000 T1                | 2000 10 10.23756 | 12 37 14.2  | -08 31 44   |  | 249 |
| Geocentric position (AU) | -0.00916114      | -0.00531328 | -0.00306613 |  |     |
| C/2000 T1                | 2000 10 10.26257 | 12 37 45.3  | -08 30 51   |  | 249 |
| Geocentric position (AU) | -0.00916030      | -0.00531446 | -0.00306714 |  |     |
| C/2000 T1                | 2000 10 10.27923 | 12 38 05.8  | -08 30 15   |  | 249 |
| Geocentric position (AU) | -0.00915974      | -0.00531525 | -0.00306781 |  |     |
| C/2000 T1                | 2000 10 10.32091 | 12 38 57.4  | -08 28 43   |  | 249 |
| Geocentric position (AU) | -0.00915834      | -0.00531723 | -0.00306949 |  |     |

## 9P/Tempel 1

|    |                  |             |             |        |     |
|----|------------------|-------------|-------------|--------|-----|
| 9P | 2000 09 02.63808 | 00 26 42.71 | -14 48 18.2 |        | 349 |
| 9P | 2000 09 02.63978 | 00 26 42.64 | -14 48 18.6 | 16.1 T | 349 |
| 9P | 2000 09 02.64410 | 00 26 42.31 | -14 48 19.4 |        | 349 |
| 9P | 2000 09 12.05726 | 00 17 38.95 | -15 42 56.4 |        | 046 |
| 9P | 2000 09 12.05878 | 00 17 38.82 | -15 42 56.9 |        | 046 |
| 9P | 2000 09 12.05983 | 00 17 38.77 | -15 42 57.2 |        | 046 |
| 9P | 2000 09 20.44057 | 00 09 09.59 | -16 20 36.9 | 17.6 T | 608 |
| 9P | 2000 09 20.45149 | 00 09 08.94 | -16 20 38.9 | 16.8 T | 608 |
| 9P | 2000 09 20.46196 | 00 09 08.27 | -16 20 41.4 | 16.8 T | 608 |
| 9P | 2000 09 20.59115 | 00 09 00.61 | -16 21 11.3 | 16.3 T | 348 |
| 9P | 2000 09 20.59834 | 00 09 00.13 | -16 21 13.4 |        | 348 |
| 9P | 2000 09 20.63479 | 00 08 57.90 | -16 21 20.0 | 16.3 T | 903 |
| 9P | 2000 09 20.65888 | 00 08 56.33 | -16 21 26.6 |        | 903 |
| 9P | 2000 09 20.66248 | 00 08 56.00 | -16 21 28.7 |        | 903 |
| 9P | 2000 09 21.24935 | 00 08 20.71 | -16 23 35.5 | 16.9 T | 734 |
| 9P | 2000 09 21.26066 | 00 08 19.97 | -16 23 38.2 | 16.9 T | 734 |
| 9P | 2000 09 25.96138 | 00 03 40.13 | -16 38 19.6 | 16.6 T | 106 |
| 9P | 2000 09 25.97939 | 00 03 39.04 | -16 38 22.9 | 16.6 T | 106 |
| 9P | 2000 09 25.99741 | 00 03 37.98 | -16 38 25.4 | 16.4 T | 106 |
| 9P | 2000 09 26.66111 | 00 02 59.36 | -16 40 08.4 | 16.1 T | 360 |
| 9P | 2000 09 26.66528 | 00 02 59.12 | -16 40 09.3 |        | 360 |
| 9P | 2000 10 01.17967 | 23 58 44.37 | -16 49 16.8 | 17.7 T | 704 |
| 9P | 2000 10 01.19479 | 23 58 43.49 | -16 49 18.6 | 17.9 T | 704 |
| 9P | 2000 10 01.21047 | 23 58 42.62 | -16 49 20.4 | 17.7 T | 704 |
| 9P | 2000 10 01.22549 | 23 58 41.73 | -16 49 21.7 | 18.0 T | 704 |
| 9P | 2000 10 01.24118 | 23 58 40.87 | -16 49 22.7 | 17.8 T | 704 |
| 9P | 2000 10 06.26535 | 23 54 18.08 | -16 54 22.7 | 17.7 T | 704 |
| 9P | 2000 10 06.28069 | 23 54 17.28 | -16 54 25.2 | 18.0 T | 704 |
| 9P | 2000 10 06.29576 | 23 54 16.51 | -16 54 25.9 | 18.0 T | 704 |
| 9P | 2000 10 06.31164 | 23 54 15.67 | -16 54 25.6 | 18.4 T | 704 |
| 9P | 2000 10 06.32727 | 23 54 14.93 | -16 54 26.3 | 18.8 T | 704 |

## 14P/Wolf

|     |                  |             |             |        |     |
|-----|------------------|-------------|-------------|--------|-----|
| 14P | 2000 09 22.28618 | 22 24 16.92 | +18 01 34.0 | 18.0 T | 704 |
| 14P | 2000 09 22.30091 | 22 24 16.65 | +18 01 19.6 | 17.8 T | 704 |
| 14P | 2000 09 22.31560 | 22 24 16.38 | +18 01 04.2 | 18.2 T | 704 |
| 14P | 2000 09 22.33043 | 22 24 16.13 | +18 00 49.1 | 18.6 T | 704 |
| 14P | 2000 09 22.34515 | 22 24 15.87 | +18 00 34.8 | 18.7 T | 704 |
| 14P | 2000 09 26.57292 | 22 23 16.04 | +16 47 38.9 | 18.3 T | 360 |
| 14P | 2000 09 26.57708 | 22 23 15.99 | +16 47 34.5 |        | 360 |

## M.P.C. 41260

2000 OCT. 13

|     |                  |             |             |        |     |
|-----|------------------|-------------|-------------|--------|-----|
| 14P | 2000 10 04.18816 | 22 22 26.33 | +14 32 31.6 | 17.5 T | 704 |
| 14P | 2000 10 04.20382 | 22 22 26.29 | +14 32 14.6 | 18.6 T | 704 |
| 14P | 2000 10 04.21884 | 22 22 26.22 | +14 31 58.8 | 18.6 T | 704 |

## 17P/Holmes

|     |                  |             |             |        |     |
|-----|------------------|-------------|-------------|--------|-----|
| 17P | 2000 09 10.61394 | 03 13 21.99 | +41 38 02.3 | 17.1 T | 349 |
| 17P | 2000 09 10.62473 | 03 13 22.30 | +41 38 09.0 |        | 349 |
| 17P | 2000 09 10.62671 | 03 13 22.37 | +41 38 11.6 |        | 349 |
| 17P | 2000 09 27.65903 | 03 15 31.60 | +44 55 05.0 | 16.3 T | 360 |
| 17P | 2000 09 27.66302 | 03 15 31.55 | +44 55 07.6 |        | 360 |
| 17P | 2000 09 27.77008 | 03 15 29.87 | +44 56 12.3 | 16.6 T | 349 |
| 17P | 2000 09 27.77229 | 03 15 29.90 | +44 56 14.3 |        | 349 |
| 17P | 2000 09 27.77425 | 03 15 29.91 | +44 56 14.8 |        | 349 |
| 17P | 2000 10 04.35665 | 03 13 22.07 | +45 58 01.6 | 18.5 T | 704 |
| 17P | 2000 10 04.37159 | 03 13 21.59 | +45 58 10.1 | 18.9 T | 704 |
| 17P | 2000 10 04.38725 | 03 13 21.38 | +45 58 18.6 | 19.2 T | 704 |
| 17P | 2000 10 04.40291 | 03 13 20.79 | +45 58 26.1 | 18.5 T | 704 |
| 17P | 2000 10 04.58604 | 03 13 16.05 | +45 59 58.9 | 16.4 T | 352 |
| 17P | 2000 10 04.59299 | 03 13 15.94 | +46 00 02.2 |        | 352 |
| 17P | 2000 10 07.34481 | 03 11 51.61 | +46 22 36.7 | 18.2 T | 704 |
| 17P | 2000 10 07.36079 | 03 11 51.05 | +46 22 44.6 | 18.1 T | 704 |
| 17P | 2000 10 07.40731 | 03 11 49.18 | +46 23 06.8 | 18.2 T | 704 |

## 47P/Ashbrook-Jackson

|     |                  |             |             |        |     |
|-----|------------------|-------------|-------------|--------|-----|
| 47P | 2000 09 02.51372 | 20 00 30.17 | -35 18 33.6 |        | 349 |
| 47P | 2000 09 02.51598 | 20 00 30.13 | -35 18 32.6 | 13.8 T | 349 |
| 47P | 2000 09 02.56060 | 20 00 29.44 | -35 18 13.7 |        | 349 |
| 47P | 2000 09 20.48438 | 20 01 38.25 | -32 52 25.0 | 13.3 T | 360 |
| 47P | 2000 09 20.48681 | 20 01 38.30 | -32 52 23.6 |        | 360 |
| 47P | 2000 09 20.55387 | 20 01 39.74 | -32 51 43.7 |        | 322 |
| 47P | 2000 09 20.57637 | 20 01 40.10 | -32 51 32.1 |        | 322 |
| 47P | 2000 09 27.46042 | 20 04 47.46 | -31 48 53.4 | 13.4 T | 360 |
| 47P | 2000 09 27.46319 | 20 04 47.55 | -31 48 51.9 |        | 360 |

## 59P/Kearns-Kwee

|     |                  |             |             |        |     |
|-----|------------------|-------------|-------------|--------|-----|
| 59P | 2000 02 12.90436 | 07 59 45.53 | +22 07 56.3 | 17.1 T | 143 |
| 59P | 2000 02 12.90929 | 07 59 45.35 | +22 07 55.9 | 17.1 T | 143 |
| 59P | 2000 02 12.92249 | 07 59 44.90 | +22 07 53.2 | 17.0 T | 143 |

## 61P/Shajn-Schaldach

|     |                  |             |             |        |     |
|-----|------------------|-------------|-------------|--------|-----|
| 61P | 2000 09 20.50486 | 20 04 01.72 | -16 22 24.0 | 17.9 T | 360 |
| 61P | 2000 09 20.51007 | 20 04 01.78 | -16 22 24.8 |        | 360 |
| 61P | 2000 09 20.51528 | 20 04 01.82 | -16 22 26.0 |        | 360 |

## 63P/Wild 1

|     |                  |             |             |  |     |
|-----|------------------|-------------|-------------|--|-----|
| 63P | 2000 03 26.26290 | 14 04 26.25 | -28 55 55.9 |  | 834 |
| 63P | 2000 03 28.20601 | 14 02 53.31 | -29 19 44.9 |  | 834 |
| 63P | 2000 03 28.25917 | 14 02 50.54 | -29 20 22.6 |  | 834 |
| 63P | 2000 04 24.13807 | 13 35 22.78 | -32 45 06.2 |  | 834 |
| 63P | 2000 04 25.15211 | 13 34 20.58 | -32 48 13.5 |  | 834 |
| 63P | 2000 04 25.18757 | 13 34 18.42 | -32 48 21.6 |  | 834 |

## 74P/Smirnova-Chernykh

|     |                  |             |             |        |     |
|-----|------------------|-------------|-------------|--------|-----|
| 74P | 2000 02 10.78249 | 06 54 20.30 | +27 42 59.9 | 15.7 T | 143 |
| 74P | 2000 02 10.79073 | 06 54 20.22 | +27 43 00.2 | 15.8 T | 143 |
| 74P | 2000 02 10.79896 | 06 54 20.07 | +27 43 01.0 | 15.8 T | 143 |

|     |                  |             |             |        |     |
|-----|------------------|-------------|-------------|--------|-----|
| 74P | 2000 02 12.87352 | 06 53 31.47 | +27 44 14.1 | 16.0 T | 143 |
| 74P | 2000 02 12.88506 | 06 53 31.19 | +27 44 14.5 | 16.0 T | 143 |
| 74P | 2000 02 12.89659 | 06 53 30.91 | +27 44 14.7 | 16.0 T | 143 |

## 97P/Metcalf-Brewington

|     |                  |             |             |        |     |
|-----|------------------|-------------|-------------|--------|-----|
| 97P | 2000 09 24.34850 | 00 17 32.73 | +03 10 54.2 | 18.9 T | 704 |
| 97P | 2000 09 24.36374 | 00 17 32.20 | +03 10 45.1 | 19.0 T | 704 |
| 97P | 2000 09 24.37870 | 00 17 31.65 | +03 10 36.0 | 18.9 T | 704 |
| 97P | 2000 09 24.39369 | 00 17 31.23 | +03 10 26.3 | 18.7 T | 704 |
| 97P | 2000 09 26.26229 | 00 16 33.04 | +02 51 50.1 | 18.6 T | 704 |
| 97P | 2000 09 26.27739 | 00 16 32.55 | +02 51 41.6 | 18.9 T | 704 |
| 97P | 2000 09 26.29359 | 00 16 31.98 | +02 51 31.4 | 18.8 T | 704 |
| 97P | 2000 09 26.30942 | 00 16 31.48 | +02 51 21.7 | 18.9 T | 704 |
| 97P | 2000 09 26.32432 | 00 16 30.97 | +02 51 12.5 | 18.6 T | 704 |
| 97P | 2000 09 26.63611 | 00 16 21.20 | +02 48 05.8 | 17.6 T | 360 |
| 97P | 2000 09 26.64063 | 00 16 21.02 | +02 48 03.6 |        | 360 |
| 97P | 2000 09 26.67431 | 00 16 19.92 | +02 47 42.6 |        | 360 |
| 97P | 2000 10 01.19356 | 00 13 57.50 | +02 02 04.1 | 16.9 T | 704 |
| 97P | 2000 10 01.20863 | 00 13 56.99 | +02 01 54.4 | 18.0 T | 704 |
| 97P | 2000 10 01.22371 | 00 13 56.42 | +02 01 44.7 | 17.8 T | 704 |
| 97P | 2000 10 05.64041 | 00 11 38.92 | +01 16 58.8 | 17.8 T | 402 |
| 97P | 2000 10 05.64292 | 00 11 38.77 | +01 16 56.3 |        | 402 |
| 97P | 2000 10 05.64418 | 00 11 38.75 | +01 16 55.2 |        | 402 |

## 110P/Hartley 3

|      |                  |             |             |        |     |
|------|------------------|-------------|-------------|--------|-----|
| 110P | 2000 09 12.08906 | 04 05 57.13 | +33 26 58.8 |        | 046 |
| 110P | 2000 09 12.09133 | 04 05 57.24 | +33 26 59.5 |        | 046 |
| 110P | 2000 09 12.09316 | 04 05 57.33 | +33 27 00.3 |        | 046 |
| 110P | 2000 09 26.39784 | 04 14 54.28 | +34 24 04.0 | 18.7 T | 704 |
| 110P | 2000 09 26.41262 | 04 14 54.65 | +34 24 08.2 | 18.8 T | 704 |
| 110P | 2000 09 26.42759 | 04 14 55.04 | +34 24 10.4 | 18.8 T | 704 |
| 110P | 2000 09 26.45712 | 04 14 56.09 | +34 24 17.2 | 19.4 T | 704 |

## 113P/Spitaler

|      |                  |             |             |        |     |
|------|------------------|-------------|-------------|--------|-----|
| 113P | 2000 09 21.27974 | 01 07 47.75 | +06 24 19.1 | 19.3 T | 691 |
| 113P | 2000 09 21.31207 | 01 07 46.51 | +06 24 17.4 | 19.1 T | 691 |
| 113P | 2000 09 21.33371 | 01 07 45.67 | +06 24 16.6 | 19.2 T | 691 |
| 113P | 2000 09 24.00169 | 01 06 05.18 | +06 22 03.5 | 18.4 T | 049 |
| 113P | 2000 09 24.01621 | 01 06 04.63 | +06 22 02.8 | 18.5 T | 049 |
| 113P | 2000 09 24.03082 | 01 06 04.04 | +06 22 01.8 | 18.7 T | 049 |
| 113P | 2000 09 24.33988 | 01 05 51.79 | +06 21 45.4 | 18.7 T | 704 |
| 113P | 2000 09 24.35477 | 01 05 51.16 | +06 21 45.1 | 18.3 T | 704 |
| 113P | 2000 09 24.37002 | 01 05 50.60 | +06 21 44.2 | 18.8 T | 704 |
| 113P | 2000 09 24.38497 | 01 05 49.89 | +06 21 43.3 | 18.9 T | 704 |
| 113P | 2000 09 24.39996 | 01 05 49.31 | +06 21 42.9 | 19.4 T | 704 |
| 113P | 2000 09 27.25851 | 01 03 52.51 | +06 18 39.6 | 18.8 T | 704 |
| 113P | 2000 09 27.27361 | 01 03 51.84 | +06 18 38.8 | 18.8 T | 704 |
| 113P | 2000 09 27.28869 | 01 03 51.16 | +06 18 38.6 | 18.9 T | 704 |
| 113P | 2000 09 27.30377 | 01 03 50.46 | +06 18 36.7 | 19.0 T | 704 |
| 113P | 2000 09 27.31886 | 01 03 49.79 | +06 18 35.5 | 19.0 T | 704 |
| 113P | 2000 09 27.63767 | 01 03 36.28 | +06 18 13.4 | 18.2 T | 360 |
| 113P | 2000 09 27.64253 | 01 03 36.04 | +06 18 13.2 |        | 360 |
| 113P | 2000 10 01.24988 | 01 00 57.13 | +06 13 34.1 | 18.3 T | 704 |
| 113P | 2000 10 01.26499 | 01 00 56.43 | +06 13 33.4 | 18.2 T | 704 |

|      |                  |             |             |        |     |
|------|------------------|-------------|-------------|--------|-----|
| 113P | 2000 10 01.28010 | 01 00 55.70 | +06 13 31.9 | 18.8 T | 704 |
| 113P | 2000 10 01.30206 | 01 00 54.63 | +06 13 29.9 | 18.2 T | 704 |
| 113P | 2000 10 01.32149 | 01 00 53.72 | +06 13 28.3 | 18.0 T | 704 |
| 113P | 2000 10 02.37108 | 01 00 05.61 | +06 11 59.4 | 18.5 T | 704 |
| 113P | 2000 10 02.38602 | 01 00 04.86 | +06 11 58.5 | 18.6 T | 704 |
| 113P | 2000 10 02.40117 | 01 00 04.12 | +06 11 56.2 | 18.5 T | 704 |
| 113P | 2000 10 02.41642 | 01 00 03.37 | +06 11 55.8 | 18.5 T | 704 |
| 113P | 2000 10 03.24855 | 00 59 25.20 | +06 10 43.4 | 18.7 T | 704 |
| 113P | 2000 10 03.24867 | 00 59 25.22 | +06 10 43.5 | 18.7 T | 704 |
| 113P | 2000 10 03.26418 | 00 59 24.46 | +06 10 41.8 | 18.5 T | 704 |
| 113P | 2000 10 03.26430 | 00 59 24.42 | +06 10 41.6 | 18.6 T | 704 |
| 113P | 2000 10 03.27970 | 00 59 23.71 | +06 10 40.5 | 18.7 T | 704 |
| 113P | 2000 10 03.27982 | 00 59 23.69 | +06 10 40.5 | 18.6 T | 704 |
| 113P | 2000 10 03.32164 | 00 59 21.65 | +06 10 36.1 | 18.9 T | 704 |
| 113P | 2000 10 03.32176 | 00 59 21.68 | +06 10 37.0 | 18.7 T | 704 |

**114P/Wiseman-Skiff**

|      |                  |             |             |        |     |
|------|------------------|-------------|-------------|--------|-----|
| 114P | 2000 02 10.75289 | 04 16 00.19 | +15 47 37.9 | 15.7 T | 143 |
| 114P | 2000 02 10.75700 | 04 16 00.78 | +15 47 35.4 | 15.5 T | 143 |
| 114P | 2000 02 10.76112 | 04 16 01.34 | +15 47 33.1 | 15.8 T | 143 |
| 114P | 2000 02 10.76524 | 04 16 01.91 | +15 47 30.9 | 15.4 T | 143 |
| 114P | 2000 02 10.76936 | 04 16 02.44 | +15 47 28.5 | 15.8 T | 143 |

**134P/Kowal-Vávrová**

|      |                  |             |             |        |     |
|------|------------------|-------------|-------------|--------|-----|
| 134P | 2000 07 31.31312 | 22 22 01.73 | -05 40 13.9 | 20.8 T | 807 |
| 134P | 2000 07 31.39132 | 22 21 59.52 | -05 40 26.0 |        | 807 |

**145P/Shoemaker-Levy 5**

|      |                  |             |             |        |     |
|------|------------------|-------------|-------------|--------|-----|
| 145P | 2000 09 12.09508 | 05 01 50.88 | +26 57 37.7 |        | 046 |
| 145P | 2000 09 12.09675 | 05 01 51.04 | +26 57 38.4 |        | 046 |
| 145P | 2000 09 12.09770 | 05 01 51.16 | +26 57 38.8 |        | 046 |
| 145P | 2000 09 12.09961 | 05 01 51.33 | +26 57 40.0 |        | 046 |
| 145P | 2000 09 26.76042 | 05 24 00.39 | +29 17 11.6 | 16.1 T | 360 |
| 145P | 2000 09 26.76441 | 05 24 00.71 | +29 17 13.9 |        | 360 |
| 145P | 2000 09 27.40396 | 05 24 52.15 | +29 23 16.3 | 17.6 T | 704 |
| 145P | 2000 09 27.41872 | 05 24 53.39 | +29 23 24.3 | 18.1 T | 704 |
| 145P | 2000 09 27.43348 | 05 24 54.61 | +29 23 32.9 | 18.2 T | 704 |
| 145P | 2000 09 27.44837 | 05 24 55.64 | +29 23 42.1 | 18.0 T | 704 |
| 145P | 2000 09 27.46315 | 05 24 56.77 | +29 23 51.4 | 17.9 T | 704 |
| 145P | 2000 09 29.09884 | 05 27 05.79 | +29 39 17.8 |        | 118 |
| 145P | 2000 09 29.10720 | 05 27 06.43 | +29 39 22.0 | 16.2 T | 118 |
| 145P | 2000 09 29.73400 | 05 27 54.77 | +29 45 18.3 |        | 349 |
| 145P | 2000 09 29.74155 | 05 27 55.26 | +29 45 22.7 |        | 349 |
| 145P | 2000 09 29.79316 | 05 27 59.12 | +29 45 52.5 | 16.5 T | 349 |

**146P/Shoemaker-LINEAR**

|      |                  |             |             |        |       |
|------|------------------|-------------|-------------|--------|-------|
| 146P | 2000 09 27.44573 | 07 11 15.46 | +27 43 48.5 | 18.6 T | 704   |
| 146P | 2000 09 27.45675 | 07 11 16.83 | +27 43 56.4 | 19.2 T | 704   |
| 146P | 2000 09 27.46777 | 07 11 18.44 | +27 44 06.8 | 18.1 T | 704   |
| 146P | 2000 09 27.47879 | 07 11 19.53 | +27 44 15.1 | 18.4 T | 704   |
| 146P | 2000 09 28.35814 | 07 13 11.12 | +27 54 58.0 | 19.0 T | 704   |
| 146P | 2000 09 28.37378 | 07 13 13.35 | +27 55 07.1 | 18.4 T | 704   |
| 146P | 2000 09 28.38941 | 07 13 15.25 | +27 55 19.4 | 18.6 T | 704   |
| 146P | 2000 09 28.44756 | 07 13 22.50 | +27 56 01.5 | 17.6 T | 8 684 |
| 146P | 2000 09 28.45029 | 07 13 22.88 | +27 56 03.2 |        | 684   |

|      |                  |             |             |        |       |
|------|------------------|-------------|-------------|--------|-------|
| 146P | 2000 09 28.45219 | 07 13 23.05 | +27 56 05.5 |        | 684   |
| 146P | 2000 09 29.11125 | 07 14 45.65 | +28 04 04.2 |        | 046   |
| 146P | 2000 09 29.11398 | 07 14 46.04 | +28 04 06.8 |        | 046   |
| 146P | 2000 09 29.11531 | 07 14 46.13 | +28 04 07.6 | 18.0 T | 046   |
| 146P | 2000 09 29.11736 | 07 14 46.44 | +28 04 08.5 |        | 046   |
| 146P | 2000 09 29.11870 | 07 14 46.56 | +28 04 09.7 |        | 046   |
| 146P | 2000 09 29.12002 | 07 14 46.72 | +28 04 10.9 |        | 046   |
| 146P | 2000 09 29.12118 | 07 14 46.79 | +28 04 12.3 |        | 9 118 |
| 146P | 2000 09 29.12449 | 07 14 47.18 | +28 04 15.0 |        | 9 118 |
| 146P | 2000 09 29.12487 | 07 14 47.24 | +28 04 14.2 |        | 557   |
| 146P | 2000 09 29.12715 | 07 14 47.57 | +28 04 16.0 |        | 557   |
| 146P | 2000 09 29.12943 | 07 14 47.81 | +28 04 17.6 |        | 557   |
| 146P | 2000 10 01.41403 | 07 19 29.42 | +28 32 05.0 | 19.5 T | 704   |
| 146P | 2000 10 01.42921 | 07 19 31.22 | +28 32 16.2 | 19.2 T | 704   |
| 146P | 2000 10 01.44424 | 07 19 32.87 | +28 32 28.1 | 19.0 T | 704   |
| 146P | 2000 10 02.44438 | 07 21 33.82 | +28 44 40.2 | 19.4 N | 704   |
| 146P | 2000 10 02.45958 | 07 21 35.53 | +28 44 48.3 | 18.7 N | 704   |
| 146P | 2000 10 02.47509 | 07 21 37.17 | +28 45 00.6 | 18.9 N | 704   |

Note 1: predisccovery observation. 2: weak solution. 3: faint image. 4: weak image.  
5: near edge of frame. 6: bad seeing. 7: poor guiding. 8: involved with star.  
9: position uncertain.

**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. Irsmbabetova. Measurer N. Baron.  
691 Spacewatch. 0.9-m Spacewatch telescope. Observer J. V. Scotti. Measurer  
A. E. Gleason.  
809 European Southern Observatory, La Silla. 2.2-m reflector + CCD. Observer  
B. Gladman.

| Object       | Date             | UT          | $\alpha_{2000}$ | $\delta_{2000}$ | Mag. | N Obs. |
|--------------|------------------|-------------|-----------------|-----------------|------|--------|
| Jupiter XIII | 1999 12 07.87452 | 01 31 31.30 | +08 38 54.8     | 20.0 R          | 511  |        |
| Jupiter XIII | 1999 12 07.88365 | 01 31 31.23 | +08 38 54.5     |                 | 511  |        |
| Jupiter XIII | 1999 12 07.89688 | 01 31 31.13 | +08 38 53.8     |                 | 511  |        |
| Jupiter XIII | 1999 12 07.90594 | 01 31 31.07 | +08 38 53.5     |                 | 511  |        |
| Jupiter XIII | 1999 12 07.94879 | 01 31 30.73 | +08 38 51.8     |                 | 511  |        |
| Jupiter XIII | 1999 12 07.95946 | 01 31 30.64 | +08 38 51.4     |                 | 511  |        |
| Jupiter XIII | 1999 12 07.97014 | 01 31 30.56 | +08 38 51.0     |                 | 511  |        |
| Jupiter XIII | 1999 12 07.98289 | 01 31 30.48 | +08 38 50.4     |                 | 511  |        |
| Saturn IX    | 2000 08 07.40863 | 03 53 02.39 | +18 05 45.6     |                 | 809  |        |
| Saturn IX    | 2000 08 07.42045 | 03 53 02.55 | +18 05 46.0     |                 | 809  |        |
| Saturn IX    | 2000 08 07.43205 | 03 53 02.71 | +18 05 46.3     | 16.5 R          | 809  |        |
| Uranus XVII  | 2000 09 04.22657 | 21 22 26.93 | -16 13 34.8     | 20.9 V          | 691  |        |
| Uranus XVII  | 2000 09 04.25704 | 21 22 26.64 | -16 13 36.2     | 20.8 V          | 691  |        |
| Uranus XVII  | 2000 09 04.28740 | 21 22 26.39 | -16 13 37.1     | 20.6 V          | 691  |        |

## RADAR OBSERVATIONS

Doppler/delay observations are published here for the following transmission/reception (Tx/Rc) sites: 253 Goldstone DSS 14, Fort Irwin. Observers R. F. Jurgens, L. A. M. Benner, S. J. Ostro, J.-L. Margot

| Object                 | Date              | UTC | Doppler/Hz     | Delay/ $\mu$ s       | MHz  | B | Tx/Rc   |
|------------------------|-------------------|-----|----------------|----------------------|------|---|---------|
| 2000 DP <sub>107</sub> | 2000 09 22 050000 | —   | 264590 $\pm$ 7 |                      | 8560 | C | 253/253 |
| 2000 DP <sub>107</sub> | 2000 09 22 052000 |     |                | 51280859 $\pm$ 10    | 8560 | C | 253/253 |
| 2000 DP <sub>107</sub> | 2000 09 23 030000 |     |                | 53988204.0 $\pm$ 4.5 | 8560 | C | 253/253 |

## OBSERVATIONS OF PLUTO

Observations are published here for the following observatory codes:

300 Bisei Spaceguard Center–BATTeRS. 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, M. Yoshikawa

|       | Date             | UT | $\alpha_{2000}$ | $\delta_{2000}$ | Mag.   | N Obs. |
|-------|------------------|----|-----------------|-----------------|--------|--------|
| Pluto | 2000 09 17.41637 |    | 16 41 13.34     | −11 25 02.0     | 14.3 V | 300    |
| Pluto | 2000 09 17.43218 |    | 16 41 13.38     | −11 25 02.4     | 14.3 V | 300    |

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

Observers C. Pollas, D. Albanese

Measurer E. W. Elst

0.9-m Schmidt telescope

1993 QQ<sub>2</sub>, 3, 1, 0; 1994 AO<sub>1</sub>, 3, 1, 0; 1995 SL<sub>54</sub>, 3, 1, 0; 1998 FX<sub>10</sub>, 3, 1, 0; 1998 FB<sub>62</sub>, 3, 1, 0; 1998 HQ<sub>114</sub>, 3, 1, 0; 1999 JS<sub>51</sub>, 3, 1, 0; 2000 CN<sub>98</sub>, 6, 2, 1; 2000 QU<sub>5</sub>, 3, 1, 0; 2000 QB<sub>8</sub>, 3, 1, 0; 2000 QX<sub>85</sub>, 3, 1, 0; 2000 QF<sub>120</sub>, 6, 2, 4; 2000 QL<sub>207</sub>, 2, 1, 0; [44, 13, 0\*, 1992/10/23–1996/02/17]

## 012 Uccle

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

0.85-m  $f/2.5$  Schmidt + CCD

GSC-1.2

1999 VO<sub>173</sub>, 2, 1, 0; 2000 QO<sub>204</sub>, 2, 1, 0; [4, 2, 0\*, 1999/11/02–2000/08/23]

## 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

1996 BG<sub>17</sub>, 2, 1, 0; 1999 GA<sub>1</sub>, 2, 1, 0; 2000 QX<sub>66</sub>, 2, 1, 0; 2000 RC<sub>2</sub>, 2, 1, 0; [8, 4, 0\*, 1992/03/01–1995/03/23]

## 046 Kleť

J. Tichá, Hvězdárna Kleť, Zátkovo 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

1984 SB<sub>2</sub>, 3, 1, 0; 1985 UR, 6, 2, 1; 1985 UU, 3, 1, 0; 1989 UP<sub>4</sub>, 3, 1, 0; 1995 TN, 3, 1, 0; 1995 UN<sub>2</sub>, 4, 1, 0; 1996 LK<sub>1</sub>, 3, 1, 0; 1996 RD<sub>14</sub>, 10, 2, 1; 1996 VU<sub>6</sub>, 4, 1, 0; 1998 AA<sub>10</sub>, 6, 2, 1; 1998 BL<sub>30</sub>, 6, 2, 18; 1998 DR, 4, 1, 0; 1998 RX<sub>57</sub>, 6, 1, 0; 1999 NA, 3, 1, 0; 1999 TC<sub>36</sub>, 5, 1, 0; 2000 GK<sub>137</sub>, 3, 1, 0; 2000 OB<sub>22</sub>, 4, 1, 0; 2000 PZ<sub>5</sub>, 3, 1, 0; 2000 PH<sub>6</sub>, 5, 1, 0; 2000 PP<sub>9</sub>, 3, 1, 0; 2000 QW<sub>7</sub>, 4, 1, 0; 2000 QS<sub>26</sub>, 3, 1, 0; 2000 QN<sub>130</sub>, 4, 1, 0; 2000 RS<sub>11</sub>, 4, 1, 0; 2000 RM<sub>12</sub>, 4, 1, 0; 2000 RN<sub>24</sub>, 5, 2, 1; 2000 RA<sub>30</sub>, 11, 2, 1; 2000 RD<sub>34</sub>, 6, 1, 0; 2000 RP<sub>52</sub>, 5, 1, 0; 2000 RB<sub>53</sub>, 6, 1, 0; 2000 RT<sub>56</sub>, 4, 1, 0; 2000 RM<sub>69</sub>, 11, 2, 1; 2000 RS<sub>74</sub>, 9, 2, 1; 2000 RL<sub>77</sub>, 7, 2, 1; 2000 RT<sub>78</sub>, 6, 2, 18; 2000 RA<sub>79</sub>, 10, 2, 1; 2000 RB<sub>79</sub>, 12, 2, 1; 2000 RC<sub>79</sub>, 4, 1, 0; 2000 RV<sub>104</sub>, 3, 1, 0; 2000 SL, 5, 1, 0; 2000 SH<sub>5</sub>, 5, 1, 0; 2000 SF<sub>8</sub>, 6, 1, 0; 2000 SG<sub>8</sub>, 9, 2, 4; 2000 SH<sub>8</sub>, 5, 1, 0; 2000 SJ<sub>8</sub>, 5, 1, 0; 2000 SM<sub>10</sub>, 10, 2, 1; 2000 ST<sub>20</sub>, 5, 1, 0; 2000 SV<sub>20</sub>, 11, 2, 1; 2000 SN<sub>42</sub>, 9, 2, 1; 2000 SO<sub>42</sub>, 10, 2, 1; 2000 SP<sub>42</sub>, 13, 3, 2; 2000 SQ<sub>42</sub>, 8, 2, 1; 2000 SR<sub>42</sub>, 9, 2, 1; 2000 SP<sub>43</sub>, 9, 2, 1; 2000 SQ<sub>43</sub>, 4, 1, 0; 2000 SR<sub>43</sub>, 8, 2, 1; 2000 SS<sub>43</sub>, 6, 1, 0; 2000 SV<sub>43</sub>, 8, 1, 0; 2000 SZ<sub>44</sub>, 4, 1, 0; 2000 SA<sub>45</sub>, 10, 2, 1; 2000 SB<sub>45</sub>, 3, 1, 0; 2000 SC<sub>45</sub>, 6, 1, 0; 2000 SD<sub>45</sub> \*, 14, 2, 1; 2000 SE<sub>45</sub>, 10, 2, 1; 2000 SX<sub>162</sub>, 5, 1, 0; 2000 SY<sub>162</sub>, 5, 1, 0; 2000 SY<sub>320</sub>, 4, 1, 0; (433), 3, 1, 0; (3753), 3, 1, 0; (4179), 3, 1, 0; (14827), 3, 1, 0; (16834), 4, 1, 0; [427, 72, 1\*, 1997/01/28–2000/10/10]

## 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

1981 EA<sub>35</sub>, 3, 1, 0; 1992 RR<sub>5</sub>, 3, 1, 0; 1992 UU<sub>4</sub>, 3, 1, 0; 1995 CJ<sub>1</sub>, 3, 1, 0; 1995 SO<sub>1</sub>, 3, 1, 0; 1996 PU, 3, 1, 0; 1996 TW<sub>8</sub>, 3, 1, 0; 1996 YD<sub>3</sub>, 3, 1, 0; 1998 AF, 3, 1, 0; 1998 FL<sub>117</sub>, 3, 1, 0; 1998 HO<sub>68</sub>, 3, 1, 0; 1999 CD<sub>6</sub>, 3, 1, 0; 1999 GA<sub>18</sub>, 3, 1, 0; 1999 GT<sub>18</sub>, 3, 1, 0; 1999 HE<sub>3</sub>, 3, 1, 0; 1999 JP<sub>25</sub>, 3, 1, 0; 1999 JK<sub>48</sub>, 3, 1, 0; 1999 JL<sub>56</sub>, 3, 1, 0; 1999 JO<sub>66</sub>, 3, 1, 0; 1999 LS<sub>24</sub>, 3, 1, 0; 1999 RY<sub>55</sub>, 3, 1, 0; 1999 XY<sub>47</sub>, 3, 1, 0; 1999 XB<sub>48</sub>, 3, 1, 0; 1999 XF<sub>50</sub>, 3, 1, 0; 1999 XH<sub>62</sub>, 3, 1, 0; 2000 LZ<sub>2</sub>, 3, 1, 0; 2000 LA<sub>27</sub>, 3, 1, 0; 2000 LM<sub>30</sub>, 3, 1, 0; 2000 OS<sub>5</sub>, 3, 1, 0; 2000 OG<sub>8</sub>, 3, 1, 0; 2000 OU<sub>38</sub>, 3, 1, 0; 2000 OK<sub>45</sub>, 3, 1, 0; 2000 OM<sub>45</sub>, 3, 1, 0; 2000 OS<sub>45</sub>, 3, 1, 0; 2000 OX<sub>51</sub>, 3, 1, 0; 2000 OX<sub>52</sub>, 3, 1, 0; 2000 OO<sub>53</sub>, 3, 1, 0; 2000 OP<sub>53</sub>, 3, 1, 0; 2000 OD<sub>61</sub>, 3, 1, 0; 2000 PG<sub>5</sub>, 3, 1, 0; 2000 QP<sub>5</sub>, 3, 1, 0; 2000 QJ<sub>35</sub>, 3, 1, 0; 2000 QV<sub>78</sub>, 3, 1, 0; 2000 QJ<sub>91</sub>, 3, 1, 0; 2000 QD<sub>118</sub>, 3, 1, 0; 2000 QG<sub>118</sub>, 3, 1, 0; 2000 QR<sub>119</sub>, 3, 1, 0; 2000 QT<sub>120</sub>, 3, 1, 0; 2000 QF<sub>123</sub>, 3, 1, 0; 2000 QG<sub>148</sub>, 18, 5, 17; 2000 QX<sub>149</sub>, 3, 1, 0; 2000 QP<sub>227</sub>, 3, 1, 0; 2000 QF<sub>229</sub>, 3, 1, 0; 2000 QY<sub>230</sub>, 6, 2, 29; 2000 QA<sub>231</sub> \*, 3, 1, 0; 2000 QB<sub>231</sub> \*, 3, 1, 0; 2000 RX<sub>2</sub>, 3, 1, 0; 2000 RC<sub>3</sub>, 3, 1, 0; 2000 RL<sub>3</sub>, 3, 1, 0; 2000 RD<sub>4</sub>, 3, 1, 0; 2000 RZ<sub>4</sub>, 3, 1, 0; 2000 RG<sub>8</sub>, 3, 1, 0; 2000 RW<sub>13</sub>, 3, 1, 0; 2000 RN<sub>14</sub>, 3, 1, 0; 2000 RO<sub>14</sub>, 3, 1, 0; 2000 RE<sub>17</sub>, 3, 1, 0; 2000 RM<sub>18</sub>, 3, 1, 0; 2000 RY<sub>18</sub>, 3, 1, 0; 2000 RW<sub>19</sub>, 3, 1, 0; 2000 RM<sub>20</sub>, 3, 1, 0; 2000 RF<sub>24</sub>, 3, 1, 0; 2000 RO<sub>24</sub>, 3, 1, 0; 2000 RN<sub>26</sub>, 3, 1, 0; 2000 RB<sub>27</sub>, 3, 1, 0; 2000 RC<sub>28</sub>, 3, 1, 0; 2000 RE<sub>28</sub>, 3, 1, 0; 2000 RP<sub>32</sub>, 3, 1, 0; 2000 RF<sub>32</sub>, 3, 1, 0; 2000 RM<sub>33</sub>, 3, 1, 0; 2000 RR<sub>33</sub>, 3, 1, 0; 2000 RC<sub>38</sub>, 3, 1, 0; 2000 RD<sub>38</sub>, 6, 2, 2; 2000 RF<sub>38</sub>, 3, 1, 0; 2000 RG<sub>38</sub>, 3, 1, 0; 2000 RL<sub>39</sub>, 3, 1, 0; 2000 RZ<sub>39</sub>, 3, 1, 0; 2000 RV<sub>41</sub>, 3, 1, 0; 2000 RH<sub>52</sub>, 3, 1, 0; 2000 RP<sub>53</sub>, 3, 1, 0; 2000 RW<sub>64</sub>, 3, 1, 0; 2000 RT<sub>65</sub>, 3, 1, 0; 2000 RH<sub>69</sub>, 3, 1, 0; 2000 RW<sub>79</sub>, 3, 1, 0; 2000 RX<sub>79</sub>, 3, 1, 0; 2000 RY<sub>79</sub>, 3, 1, 0; 2000 RZ<sub>79</sub>, 3, 1, 0; 2000 RA<sub>80</sub>, 3, 1, 0; 2000 RK<sub>81</sub>, 3, 1, 0; 2000 RV<sub>85</sub>, 3, 1, 0; 2000 RW<sub>85</sub>, 3, 1, 0; 2000 RA<sub>89</sub>, 3, 1, 0; 2000 RU<sub>89</sub>, 3, 1, 0; 2000 RE<sub>90</sub>, 3, 1, 0; 2000 RF<sub>90</sub>, 3, 1, 0; 2000 RL<sub>91</sub>, 3, 1, 0; 2000 RU<sub>92</sub>, 3, 1, 0; 2000 RA<sub>94</sub>, 3, 1, 0; 2000 RF<sub>94</sub>, 3, 1, 0; 2000 RE<sub>95</sub>, 3, 1, 0; 2000 RJ<sub>95</sub>, 6, 2, 2; 2000 RD<sub>96</sub>, 6, 2, 2; 2000 SU<sub>1</sub> \*, 6, 2, 2; 2000 SL<sub>9</sub>, 3, 1, 0; 2000 SZ<sub>13</sub>, 3, 1, 0; 2000 SA<sub>15</sub>, 3, 1, 0; 2000 SU<sub>21</sub>, 3, 1, 0; 2000 SN<sub>47</sub>, 3, 1,

0; 2000 SD<sub>48</sub>, 3, 1, 0; 2000 SM<sub>48</sub>, 3, 1, 0; 2000 SM<sub>67</sub>, 3, 1, 0; 2000 SO<sub>67</sub>, 3, 1, 0; 2000 SP<sub>67</sub>, 3, 1, 0; 2000 SD<sub>68</sub>, 3, 1, 0; 2000 SN<sub>68</sub>, 3, 1, 0; 2000 SZ<sub>71</sub>, 3, 1, 0; 2000 SV<sub>80</sub>, 3, 1, 0; 2000 SB<sub>90</sub>, 3, 1, 0; 2000 SD<sub>90</sub>, 3, 1, 0; 2000 SM<sub>90</sub>, 6, 2, 10; 2000 SK<sub>104</sub>, 3, 1, 0; 2000 SL<sub>104</sub>, 3, 1, 0; 2000 SQ<sub>106</sub>, 3, 1, 0; 2000 SV<sub>116</sub>, 3, 1, 0; 2000 SW<sub>116</sub>, 3, 1, 0; 2000 SM<sub>119</sub>, 3, 1, 0; 2000 SL<sub>129</sub>, 3, 1, 0; 2000 SQ<sub>129</sub>, 3, 1, 0; 2000 SU<sub>137</sub>, 3, 1, 0; 2000 SW<sub>180</sub> \*, 3, 1, 0; 2000 SM<sub>181</sub>, 3, 1, 0; 2000 SZ<sub>181</sub> \*, 3, 1, 0; 2000 SA<sub>182</sub> \*, 3, 1, 0; 2000 SG<sub>186</sub>, 3, 1, 0; 2000 SJ<sub>186</sub>, 3, 1, 0; 2000 SV<sub>188</sub>, 3, 1, 0; 2000 SU<sub>190</sub>, 3, 1, 0; 2000 SX<sub>190</sub>, 3, 1, 0; 2000 SP<sub>192</sub>, 3, 1, 0; 2000 SJ<sub>199</sub>, 3, 1, 0; 2000 ST<sub>219</sub>, 3, 1, 0; 2000 SV<sub>219</sub>, 3, 1, 0; 4052 P-L, 3, 1, 0; (393), 3, 1, 0; (1109), 3, 1, 0; (1590), 3, 1, 0; (2049), 6, 2, 8; (2241), 3, 1, 0; (2286), 3, 1, 0; (2414), 3, 1, 0; (2700), 3, 1, 0; (3259), 3, 1, 0; (4045), 3, 1, 0; (4805), 3, 1, 0; (4811), 3, 1, 0; (4868), 3, 1, 0; (6243), 3, 1, 0; (7148), 3, 1, 0; (8154), 3, 1, 0; (8586), 3, 1, 0; (8829), 6, 2, 2; (8990), 3, 1, 0; (10901), 3, 1, 0; (11050), 3, 1, 0; (11159), 3, 1, 0; (11225), 3, 1, 0; (11515), 3, 1, 0; (14670), 6, 2, 2; (16539), 3, 1, 0; (16715), 3, 1, 0; (16720), 3, 1, 0; (16820), 3, 1, 0; (16832), 3, 1, 0; (17098), 3, 1, 0; *[597, 185, 6\*, 1999/11/19–2000/10/03]*

### 071 Bulgarian National Observatory

V. Ivanova, Institute of Astronomy, 72 Tsarigradsko Schosse Blvd., BG-11784 Sofia, Bulgaria [[ivanova@astro.bas.bg](mailto:ivanova@astro.bas.bg)]

Observers V. Ivanova, G. Apostolovska, B. Bilkina, G. Borisov, L. Vasileva, V. Umlenski, A. Marinov

Measurers B. Bilkina, L. Vasileva, A. Marinov, G. Apostolovska

0.50-m  $f/1.4$  Schmidt + CCD

GSC 1.1

Supported by Space Frontier Foundation Grant

2000 CE<sub>59</sub>, 4, 2, 1; 2000 LM, 3, 1, 0; 2000 NX<sub>3</sub>, 3, 1, 0; 2000 NF<sub>5</sub>, 6, 2, 22; 2000 NL<sub>10</sub>, 9, 3, 2; 2000 NG<sub>11</sub>, 5, 2, 1; 2000 OH, 9, 3, 2; 2000 PG<sub>3</sub>, 3, 1, 0; 2000 PF<sub>5</sub>, 3, 1, 0; 2000 PN<sub>9</sub>, 3, 1, 0; 2000 PQ<sub>9</sub>, 4, 1, 0; 2000 QL<sub>7</sub>, 3, 1, 0; 2000 QT<sub>7</sub>, 3, 1, 0; 2000 QW<sub>7</sub>, 6, 2, 1; 2000 QN<sub>130</sub>, 2, 1, 0; 2000 RD<sub>53</sub>, 5, 1, 0; (16636), 3, 1, 0; (16834), 3, 1, 0; (17274), 6, 2, 22; *[83, 19, 0\*, 2000/08/30–2000/09/22]*

### 095 Crimean Astrophysical Observatory

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

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

Observer V. V. Rumyantsev

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

PPM

1991 VF<sub>14</sub>, 2, 1, 0; 1993 AG, 1, 1, 0; *[3, 2, 0\*, 1991/09/16–1996/11/15]*

### 097 Wise Observatory, Mitzpeh Ramon

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

Observers Y. J. Choi, N. Brosch

1.0-m  $f/7$  reflector + CCD

USNO-A2.0

1999 TD<sub>10</sub>, 3, 1, 0; 2000 QB<sub>35</sub>, 7, 1, 0; 2000 QV<sub>56</sub>, 3, 1, 0; 2000 QU<sub>68</sub>, 2, 1, 0; 2000 QF<sub>143</sub>, 2, 1, 0; 2000 QG<sub>231</sub>, 2, 1, 0; *[19, 6, 0\*, 2000/08/26–2000/09/05]*

### 098 Asiago Observatory, Cima Ekar

U. Munari, Osservatorio Astronomico di Padova, Sede di Asiago, I-36012 Asiago (VI), Italy [[munari@astras.pd.astro.it](mailto: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 WH<sub>13</sub>, 2, 1, 0; 1999 BL<sub>7</sub>, 1, 1, 0; 1999 XB<sub>179</sub>, 2, 1, 0; 2000 RH<sub>5</sub>, 2, 1, 0; 2000 RO<sub>75</sub>, 3, 2, 1; 2000 RX<sub>77</sub>, 2, 1, 0; *[12, 6, 0\*, 1994/01/18–1998/10/26]*

### 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](mailto: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

1999 FF<sub>15</sub>, 4, 1, 0; 2000 QY<sub>197</sub>, 3, 1, 0; *[7, 2, 0\*, 1999/04/13–2000/08/23]*

### 106 Črni vrh

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

Observers H. Mikuž, J. Skvarč, S. Matičič

0.36-m  $f/6.7$  Schmidt-Cassegrain + CCD, 0.19-m  $f/4$  Schmidt-Cassegrain + CCD

USNO-A2.0

1974 CB, 3, 1, 0; 1977 DH<sub>4</sub>, 3, 1, 0; 1981 EX<sub>7</sub>, 3, 1, 0; 1984 SB<sub>2</sub>, 3, 1, 0; 1986 EL<sub>5</sub>, 3, 1, 0; 1988 RC, 2, 1, 0; 1988 XQ, 3, 1, 0; 1989 SH<sub>4</sub>, 3, 1, 0; 1990 OV<sub>4</sub>, 3, 1, 0; 1990 QJ<sub>3</sub>, 3, 1, 0; 1990 SL<sub>11</sub>, 3, 1, 0; 1990 TP<sub>7</sub>, 3, 1, 0; 1991 EO<sub>2</sub>, 3, 1, 0; 1991 PY<sub>14</sub>, 3, 1, 0; 1993 BR<sub>4</sub>, 3, 1, 0; 1993 FU<sub>25</sub>, 3, 1, 0; 1993 VY, 3, 1, 0; 1994 AO<sub>3</sub>, 3, 1, 0; 1994 WY<sub>2</sub>, 3, 1, 0; 1995 DS<sub>5</sub>, 3, 1, 0; 1995 ES, 3, 1, 0; 1995 SG<sub>5</sub>, 3, 1, 0; 1995 UJ<sub>1</sub>, 3, 1, 0; 1995 WW<sub>2</sub>, 3, 1, 0; 1996 PK<sub>1</sub>, 3, 1, 0; 1996 RB<sub>4</sub>, 3, 1, 0; 1996 SF<sub>8</sub>, 2, 1, 0; 1996 TW<sub>8</sub>, 2, 1, 0; 1996 TH<sub>10</sub>, 3, 1, 0; 1996 VW<sub>7</sub>, 3, 1, 0; 1997 AW<sub>5</sub>, 3, 1, 0; 1997 BM<sub>3</sub>, 2, 1, 0; 1997 BJ<sub>5</sub>, 3, 1, 0; 1997 CP<sub>28</sub>, 5, 2, 14; 1997 VA<sub>6</sub>, 3, 1, 0; 1997 XZ, 3, 1, 0; 1997 YE<sub>4</sub>, 3, 1, 0; 1998 AS<sub>4</sub>, 3, 1, 0; 1998 AA<sub>10</sub>, 2, 1, 0; 1998 BL<sub>30</sub>, 2, 1, 0; 1998 DN<sub>8</sub>, 3, 1, 0; 1998 EK<sub>12</sub>, 3, 1, 0; 1998 FK<sub>34</sub>, 3, 1, 0; 1998 FY<sub>43</sub>, 3, 1, 0; 1998 FN<sub>54</sub>, 3, 1, 0; 1998 FO<sub>54</sub>, 6, 2, 2; 1998 FK<sub>58</sub>, 3, 1, 0; 1998 FV<sub>58</sub>, 3, 1, 0; 1998 FC<sub>60</sub>, 6, 2, 2; 1998 FO<sub>62</sub>, 6, 2, 16; 1998 FV<sub>62</sub>, 3, 1, 0; 1998 FB<sub>71</sub>, 3, 1, 0; 1998 FR<sub>78</sub>, 6, 2, 1; 1998 FZ<sub>83</sub>, 3, 1, 0; 1998 FU<sub>98</sub>, 3, 1, 0; 1998 FT<sub>113</sub>, 3, 1, 0; 1998 FU<sub>116</sub>, 3, 1, 0; 1998 FE<sub>118</sub>, 3, 1, 0; 1998 FM<sub>135</sub>, 2, 1, 0; 1998 HA<sub>28</sub>, 2, 1, 0; 1998 HX<sub>32</sub>, 3, 1, 0; 1998 HO<sub>68</sub>, 3, 1, 0; 1998 HG<sub>96</sub>, 3, 1, 0; 1998 KK, 3, 1, 0; 1998 KW<sub>7</sub>, 3, 1, 0; 1998 KV<sub>12</sub>, 3, 1, 0; 1998 KN<sub>24</sub>, 3, 1, 0; 1998 KT<sub>28</sub>, 3, 1, 0; 1998 KN<sub>30</sub>, 3, 1, 0; 1998 RO<sub>1</sub>, 3, 1, 0; 1999 BC<sub>2</sub>, 3, 1, 0; 1999 CR<sub>9</sub>, 3, 1, 0; 1999 CH<sub>50</sub>, 6, 2, 2; 1999 CL<sub>54</sub>, 3, 1, 0; 1999 EJ<sub>2</sub>, 3, 1, 0; 1999 FH<sub>6</sub>, 6, 2, 2; 1999 FM<sub>24</sub>, 3, 1, 0; 1999 FZ<sub>25</sub>, 3, 1, 0; 1999 FA<sub>32</sub>, 3, 1, 0; 1999 FP<sub>32</sub>, 3, 1, 0; 1999 FR<sub>32</sub>, 3, 1, 0; 1999 GN, 3, 1, 0; 1999 GK<sub>9</sub>, 3, 1, 0; 1999 GZ<sub>29</sub>, 3, 1, 0; 1999 GH<sub>33</sub>, 3, 1, 0; 1999 GQ<sub>35</sub>, 3, 1, 0; 1999 HW, 3, 1, 0; 1999 HO<sub>4</sub>, 3, 1, 0; 1999 JP<sub>3</sub>, 2, 1, 0; 1999 JB<sub>9</sub>, 3, 1, 0; 1999 JX<sub>18</sub>, 3, 1, 0; 1999 JZ<sub>18</sub>, 3, 1, 0; 1999 JM<sub>19</sub>, 3, 1, 0; 1999 JO<sub>19</sub>, 3, 1, 0; 1999 JF<sub>21</sub>, 3, 1, 0; 1999 JC<sub>22</sub>, 3, 1, 0; 1999 JS<sub>23</sub>, 6, 2, 2; 1999 JL<sub>24</sub>, 3, 1, 0; 1999 JN<sub>30</sub>, 3, 1, 0; 1999 JK<sub>37</sub>, 3, 1, 0; 1999 JB<sub>38</sub>, 3, 1, 0; 1999 JW<sub>43</sub>, 3, 1, 0; 1999 JV<sub>48</sub>, 3, 1, 0; 1999 JV<sub>50</sub>, 3, 1, 0; 1999 JB<sub>51</sub>, 3, 1, 0; 1999 JP<sub>51</sub>, 3, 1, 0; 1999 JU<sub>51</sub>, 3, 1, 0; 1999 JS<sub>57</sub>, 3, 1, 0; 1999 JH<sub>58</sub>, 3, 1, 0; 1999 JZ<sub>63</sub>, 3, 1, 0; 1999 JW<sub>73</sub>, 6, 2, 1; 1999 JM<sub>76</sub>, 3, 1, 0; 1999 JG<sub>78</sub>, 3, 1, 0; 1999 JF<sub>83</sub>, 3, 1, 0; 1999 JO<sub>84</sub>, 3, 1, 0; 1999 JL<sub>85</sub>, 2, 1, 0; 1999 JY<sub>88</sub>, 6, 2, 1; 1999 JK<sub>93</sub>, 2, 1, 0; 1999 JR<sub>125</sub>, 3, 1, 0; 1999 KV<sub>15</sub>, 3, 1, 0; 1999 LL<sub>11</sub>, 2, 1, 0; 1999 NN<sub>5</sub>, 2, 1, 0; 1999 NK<sub>50</sub>, 3, 1, 0; 1999 RK<sub>134</sub>, 3, 1, 0; 2000 LD<sub>16</sub>, 3, 1, 0; 2000 LA<sub>27</sub>, 3, 1, 0; 2000 LW<sub>28</sub>, 3, 1, 0; 2000 LT<sub>30</sub>, 3, 1, 0; 2000 LG<sub>31</sub>, 3, 1, 0; 2000 MC, 3, 1, 0; 2000 MF<sub>5</sub>, 3, 1, 0; 2000 MV<sub>5</sub>, 3, 1, 0; 2000 NN<sub>5</sub>, 3, 1, 0; 2000 NO<sub>5</sub>, 3, 1, 0; 2000 NR<sub>5</sub>, 3, 1, 0; 2000 NK<sub>9</sub>, 3, 1, 0; 2000 NF<sub>12</sub>, 2, 1, 0; 2000 NH<sub>12</sub>, 3, 1, 0; 2000 OL, 1, 1, 0; 2000 OH<sub>3</sub>, 3, 1, 0; 2000 OL<sub>4</sub>, 3, 1, 0; 2000 OS<sub>20</sub>, 3, 1, 0; 2000 OM<sub>22</sub>, 3, 1, 0; 2000 OT<sub>31</sub>, 2, 1, 0; 2000 OX<sub>44</sub>, 3, 1, 0; 2000 OY<sub>44</sub>, 3, 1, 0; 2000 OF<sub>45</sub>, 3, 1, 0; 2000 OX<sub>45</sub>, 6, 2, 1; 2000 OQ<sub>46</sub>, 6, 2, 2; 2000 OB<sub>47</sub>, 3, 1, 0; 2000 OQ<sub>47</sub>, 6, 1, 0; 2000 OG<sub>48</sub>, 3, 1, 0; 2000 OY<sub>48</sub>, 3, 1, 0; 2000 OT<sub>49</sub>, 9, 2, 2; 2000 OM<sub>53</sub>, 3, 1, 0; 2000 OC<sub>61</sub>, 3, 1, 0; 2000 PU<sub>4</sub>, 3, 1, 0; 2000 PN<sub>9</sub>, 3, 1, 0; 2000 QW<sub>7</sub>, 2, 1, 0; 2000 QL<sub>9</sub>, 3, 1, 0; 2000 QO<sub>24</sub>, 3, 1, 0; 2000 QH<sub>25</sub>, 3, 1, 0; 2000 QL<sub>29</sub>, 3, 1, 0; 2000 QL<sub>30</sub>, 6, 2, 2; 2000 QQ<sub>30</sub>, 3, 1, 0; 2000 QJ<sub>35</sub>, 3, 1, 0; 2000 QK<sub>35</sub>, 9, 2, 1; 2000 QJ<sub>70</sub>, 3, 1, 0; 2000 QL<sub>70</sub>, 3, 1, 0; 2000 QH<sub>74</sub>, 3, 1, 0; 2000 QV<sub>78</sub>, 3, 1, 0; 2000 QW<sub>79</sub>, 3, 1, 0; 2000 QN<sub>80</sub>, 3, 1, 0; 2000 QL<sub>83</sub>, 3, 1, 0; 2000 QP<sub>83</sub>, 3, 1, 0; 2000 QY<sub>83</sub>, 3, 1, 0; 2000 QO<sub>89</sub>, 6, 1, 0; 2000 QR<sub>89</sub>, 9, 2, 1; 2000 QF<sub>90</sub>, 3, 1, 0; 2000 QB<sub>91</sub>, 6, 2, 1; 2000 QR<sub>91</sub>, 3, 1, 0; 2000 QS<sub>95</sub>, 3, 1, 0; 2000 QM<sub>98</sub>, 3, 1, 0; 2000 QP<sub>100</sub>, 3, 1, 0; 2000 QY<sub>112</sub>, 2, 1, 0; 2000 QT<sub>119</sub>, 3, 1, 0; 2000 QC<sub>120</sub>, 3, 1, 0; 2000 QK<sub>120</sub>, 3, 1, 0; 2000 QQ<sub>120</sub>, 3, 1, 0; 2000 QW<sub>121</sub>, 3, 1, 0; 2000 QA<sub>122</sub>, 6, 1, 0; 2000 QZ<sub>122</sub>, 3, 1, 0; 2000 QS<sub>123</sub>, 3, 1, 0; 2000 QE<sub>127</sub>, 6, 2, 2; 2000 QF<sub>127</sub>, 9, 2, 2; 2000 QU<sub>128</sub>, 3, 1, 0; 2000 QN<sub>130</sub>, 3, 1, 0; 2000 QP<sub>137</sub>, 3, 1, 0; 2000 QV<sub>137</sub>, 6, 2, 2; 2000 QK<sub>145</sub>, 3, 1, 0; 2000 QP<sub>149</sub>, 3, 1, 0; 2000 QH<sub>150</sub>, 3, 1, 0; 2000 QK<sub>150</sub>, 3, 1, 0; 2000 QL<sub>167</sub>, 3, 1, 0; 2000 QM<sub>167</sub>, 3, 1, 0; 2000 QS<sub>170</sub>, 6, 2, 2; 2000 QT<sub>170</sub>, 3, 1, 0; 2000 QR<sub>204</sub>, 3, 1, 0; 2000 QX<sub>206</sub>, 3, 1, 0; 2000 QK<sub>207</sub>, 3, 1, 0; 2000 QO<sub>207</sub>, 3, 1, 0; 2000 QN<sub>224</sub>, 3, 1, 0; 2000 RW<sub>3</sub>, 6, 2, 2; 2000 RX<sub>5</sub>, 3, 1, 0; 2000 RT<sub>15</sub>, 3, 1, 0; 2000 RV<sub>15</sub>, 3, 1, 0; 2000 RX<sub>16</sub>, 6, 2, 1; 2000 RC<sub>18</sub>, 9, 2, 1; 2000 RQ<sub>21</sub>, 3, 1, 0; 2000 RV<sub>22</sub>, 3, 1, 0; 2000 RO<sub>28</sub>, 3, 1, 0; 2000 RK<sub>29</sub>, 3, 1, 0; 2000 RT<sub>29</sub>, 3, 1, 0; 2000 RL<sub>32</sub>, 6, 2, 2; 2000 RT<sub>33</sub>, 6, 2, 2; 2000 RJ<sub>34</sub>, 3, 1, 0; 2000 RO<sub>40</sub>, 3, 1, 0; 2000 RJ<sub>42</sub>, 3, 1, 0; 2000 RK<sub>42</sub>, 3, 1, 0; 2000 RB<sub>46</sub>, 3, 1, 0; 2000 RR<sub>51</sub>, 3, 1, 0; 2000 RG<sub>60</sub>, 3, 1, 0; 2000 RR<sub>68</sub>, 3, 1, 0; 2000 RG<sub>73</sub>, 6, 2, 2; 2000 RY<sub>78</sub> \*, 9, 3, 2; 2000 RA<sub>79</sub>, 3, 1, 0; 2000 RN<sub>83</sub>, 6, 2, 7; 2000 RU<sub>86</sub>, 3, 1, 0; 2000 RU<sub>92</sub>, 3, 1, 0; 2000 RE<sub>100</sub>, 3, 1, 0; 2000 RC<sub>103</sub>, 3, 1, 0; 2000 SH<sub>4</sub>, 3, 1, 0; 2000 ST<sub>5</sub>, 3, 1, 0; 2000 SP<sub>7</sub>, 3, 1, 0; 2000 SM<sub>10</sub>, 3, 1, 0; 2000 SN<sub>10</sub>, 3, 1, 0; 2000 SS<sub>20</sub>, 3,

1, 0; 2000 SV<sub>20</sub>, 3, 1, 0; 2000 SF<sub>42</sub>, 9, 2, 2; 2000 SO<sub>42</sub>, 3, 1, 0; 2000 SR<sub>42</sub>, 6, 2, 2; 2000 SV<sub>42</sub> \*, 6, 2, 2; 2000 SW<sub>42</sub> \*, 9, 2, 2; 2000 SX<sub>42</sub> \*, 6, 2, 2; 2000 SY<sub>42</sub> \*, 6, 2, 2; 2000 SZ<sub>42</sub> \*, 9, 2, 2; 2000 SA<sub>43</sub> \*, 6, 2, 2; 2000 SB<sub>43</sub> \*, 6, 2, 2; 2000 SC<sub>43</sub> \*, 6, 2, 2; 2000 SD<sub>43</sub> \*, 6, 2, 2; 2000 SE<sub>43</sub> \*, 6, 2, 2; 2000 SF<sub>43</sub> \*, 6, 2, 2; 2000 SG<sub>43</sub> \*, 8, 2, 2; 2000 SH<sub>43</sub> \*, 6, 2, 2; 2000 SJ<sub>43</sub> \*, 6, 2, 1; 2000 SP<sub>43</sub>, 3, 1, 0; 2000 SV<sub>44</sub>, 3, 1, 0; 2000 SJ<sub>55</sub>, 3, 1, 0; 2000 SE<sub>58</sub>, 3, 1, 0; 2000 SL<sub>89</sub>, 3, 1, 0; 2000 SZ<sub>109</sub>, 3, 1, 0; 2000 SN<sub>116</sub>, 5, 2, 7; 2000 SA<sub>140</sub>, 3, 1, 0; 2000 SB<sub>140</sub>, 3, 1, 0; 2000 SS<sub>141</sub>, 3, 1, 0; 2554 P-L, 3, 1, 0; 7069 P-L, 3, 1, 0; 1327 T-2, 3, 1, 0; 2151 T-2, 6, 1, 0; 2289 T-2, 3, 1, 0; 3143 T-2, 3, 1, 0; 2134 T-3, 9, 2, 2; 3286 T-3, 3, 1, 0; (31), 3, 1, 0; (93), 2, 1, 0; (467), 3, 1, 0; (544), 3, 1, 0; (615), 3, 1, 0; (1227), 3, 1, 0; (1676), 3, 1, 0; (2453), 3, 1, 0; (2919), 3, 1, 0; (3727), 3, 1, 0; (4366), 3, 1, 0; (4368), 6, 2, 1; (4664), 3, 1, 0; (4691), 6, 1, 0; (4707), 6, 2, 1; (4898), 6, 1, 0; (4972), 2, 1, 0; (5578), 3, 1, 0; (5643), 3, 1, 0; (5743), 3, 1, 0; (6080), 3, 1, 0; (6153), 3, 1, 0; (6304), 3, 1, 0; (6588), 3, 1, 0; (6722), 3, 1, 0; (7014), 3, 1, 0; (7123), 3, 1, 0; (7533), 6, 1, 0; (7650), 3, 1, 0; (8341), 6, 2, 2; (8531), 3, 1, 0; (8591), 3, 1, 0; (8733), 3, 1, 0; (8760), 3, 1, 0; (8872), 3, 1, 0; (8917), 3, 1, 0; (9402), 6, 2, 1; (9454), 3, 1, 0; (9455), 3, 1, 0; (10467), 3, 1, 0; (10585), 3, 1, 0; (10650), 6, 2, 2; (10694), 3, 1, 0; (10711), 3, 1, 0; (10719), 3, 1, 0; (10978), 3, 1, 0; (11060), 3, 1, 0; (11080), 2, 1, 0; (11103), 3, 1, 0; (11106), 3, 1, 0; (11488), 3, 1, 0; (16386), 3, 1, 0; (16407), 3, 1, 0; (16413), 2, 1, 0; (16430), 3, 1, 0; (16452), 2, 1, 0; (16488), 3, 1, 0; (16567), 3, 1, 0; (16578), 2, 1, 0; (16589), 2, 1, 0; (16635), 3, 1, 0; (16636), 3, 1, 0; (16641), 3, 1, 0; (16651), 3, 1, 0; (16673), 3, 1, 0; (16686), 3, 1, 0; (16718), 3, 1, 0; (16720), 3, 1, 0; (16744), 3, 1, 0; (16746), 3, 1, 0; (16769), 3, 1, 0; (16774), 3, 1, 0; (16785), 3, 1, 0; (16786), 3, 1, 0; (16832), 3, 1, 0; (16890), 3, 1, 0; (16902), 3, 1, 0; (16916), 7, 2, 7; (16923), 3, 1, 0; (16927), 2, 1, 0; (16936), 3, 1, 0; (17010), 3, 1, 0; (17048), 3, 1, 0; (17079), 6, 2, 2; (17083), 3, 1, 0; (17085), 3, 1, 0; (17098), 3, 1, 0; (17101), 3, 1, 0; (17105), 3, 1, 0; (17110), 3, 1, 0; (17111), 3, 1, 0; (17162), 6, 2, 2; (17163), 3, 1, 0; (17164), 3, 1, 0; (17168), 3, 1, 0; (17311), 3, 1, 0; (17347), 6, 1, 0; [1333, 380, 15\*, 2000/09/07–2000/10/05]

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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

1993 RP<sub>2</sub>, 5, 2, 6; 1997 UU<sub>14</sub>, 5, 2, 6; 1997 XH<sub>10</sub>, 2, 1, 0; 1998 DQ<sub>35</sub>, 4, 1, 0; 2000 OG<sub>8</sub>, 8, 2, 5; 2000 OM<sub>50</sub>, 3, 1, 0; 2000 PQ<sub>9</sub>, 3, 1, 0; 2000 QN<sub>130</sub>, 3, 1, 0; 2000 RM<sub>12</sub>, 6, 2, 5; 2000 RD<sub>53</sub>, 4, 1, 0; 2000 SE<sub>1</sub>, 2, 1, 0; 2000 SF<sub>8</sub>, 5, 2, 1; 2000 SH<sub>8</sub>, 4, 1, 0; (11051), 3, 1, 0; (17274), 3, 1, 0; [60, 15, 0\*, 2000/09/17–2000/09/23]

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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

1978 SU<sub>4</sub>, 2, 1, 0; 1990 TL<sub>7</sub>, 2, 1, 0; 1990 TP<sub>7</sub>, 4, 2, 3; 1990 TH<sub>8</sub>, 2, 1, 0; 1990 TJ<sub>8</sub>, 5, 2, 4; 1990 TC<sub>11</sub>, 2, 1, 0; 1991 AW<sub>2</sub>, 2, 1, 0; 1991 RY<sub>4</sub>, 3, 1, 0; 1991 TQ<sub>6</sub>, 2, 1, 0; 1991 TS<sub>6</sub>, 2, 1, 0; 1992 DM<sub>2</sub>, 2, 1, 0; 1992 DM<sub>8</sub>, 2, 1, 0; 1992 RU<sub>1</sub>, 2, 1, 0; 1992 SF<sub>2</sub>, 4, 2, 3; 1992 SY<sub>16</sub>, 2, 1, 0; 1993 SR<sub>1</sub>, 2, 1, 0; 1995 EK<sub>8</sub>, 2, 1, 0; 1995 EY<sub>8</sub>, 2, 1, 0; 1996 SC<sub>7</sub>, 2, 1, 0; 1997 UA<sub>4</sub>, 2, 1, 0; 1997 YF<sub>10</sub>, 2, 1, 0; 1998 BF<sub>14</sub>, 6, 2, 1; 1998 EQ<sub>8</sub>, 3, 1, 0; 1998 HY<sub>18</sub>, 2, 1, 0; 1998 KW<sub>7</sub>, 3, 1, 0; 1999 JQ<sub>54</sub>, 4, 2, 2; 1999 JK<sub>102</sub>, 2, 1, 0; 2000 NX<sub>3</sub>, 5, 1, 0; 2000 NF<sub>5</sub>, 5, 1, 0; 2000 QR, 3, 1, 0; 2000 QW<sub>7</sub>, 3, 1, 0; 2000 QK<sub>74</sub>, 2, 1, 0; 2000 QE<sub>143</sub>, 2, 1, 0; 2000 RP<sub>12</sub>, 2, 1, 0; 2000 RB<sub>46</sub>, 3, 1, 0; 2000 RD<sub>53</sub>, 5, 1, 0; 2000 RZ<sub>71</sub>, 3, 1, 0; 2000 SC<sub>10</sub> \*, 15, 6, 7; 2000 SX<sub>22</sub> \*, 9, 4, 6; 2000 SR<sub>44</sub> \*, 10, 4, 4; 2000 SS<sub>44</sub> \*, 9, 4, 4; 2000 SF<sub>45</sub> \*, 7, 3, 2; 7607 P-L, 5, 2, 2; 1251 T-2, 2, 1, 0; (151), 2, 1, 0; (1076), 7, 3, 2; (1676), 2, 1, 0; (2555), 3, 1, 0; (2689), 2, 1, 0; (3102), 5, 1, 0; (3753), 5, 1, 0; (4165), 3, 1, 0; (4385), 2, 1, 0; (4795), 2, 1, 0; (4888), 2, 1, 0; (6805), 2, 1, 0; (7329), 2, 1, 0; (8333), 2, 1, 0; (9107), 2, 1, 0; (9205), 2, 1, 0; (9430), 2, 1, 0; (10382), 4, 2, 2; (10488), 2, 1, 0; (10585), 3, 1, 0; (10719), 3, 1, 0; (10799), 2, 1, 0; (10932), 2, 1, 0; (16454), 2, 1, 0; (16477), 2, 1, 0; (16650), 2, 1, 0; (16751), 4, 1, 0; (16919), 2, 1, 0; (17048), 2, 1, 0; (17274), 5, 1, 0; [242, 74, 5\*, 2000/09/23–2000/10/01]

### 116 Giesing

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[[100341.75@compuserve.com](mailto:100341.75@compuserve.com)]

Observers J.-L. Dighaye, P. Sala

Measurers P. Sala, H. Beuchat

0.20-m reflector + CCD

1992 UZ<sub>6</sub>, 1, 1, 0; 1998 DV<sub>36</sub>, 2, 1, 0; [3, 2, 0\*, 1998/03/11–2000/09/24]

### 118 Modra

A. Galád, AGO MFF UK, P.O. Box 4, SK-90001 Modra, Slovakia

[[ago@fmph.uniba.sk](mailto:ago@fmph.uniba.sk)]

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 SW<sub>4</sub>, 2, 1, 0; 1998 CB, 2, 1, 0; 1998 DO<sub>1</sub>, 3, 1, 0; 1998 UP<sub>1</sub>, 3, 1, 0; 1999 FJ<sub>9</sub>, 4, 2, 1; 1999 GJ, 5, 2, 1; 1999 TL<sub>12</sub>, 1, 1, 0; 2000 NL<sub>10</sub>, 3, 1, 0; 2000 OG<sub>8</sub>, 2, 1, 0; 2000 PZ<sub>5</sub>, 2, 1, 0; 2000 PQ<sub>9</sub>, 2, 1, 0; 2000 QL<sub>7</sub>, 2, 1, 0; 2000 QT<sub>7</sub>, 4, 2, 9; 2000 QU<sub>7</sub>, 9, 3, 16; 2000 QE<sub>25</sub>, 2, 1, 0; 2000 QU<sub>34</sub>, 2, 1, 0; 2000 QW<sub>69</sub>, 2, 1, 0; 2000 QN<sub>130</sub>, 4, 2, 1; 2000 QA<sub>145</sub>, 3, 1, 0; 2000 QO<sub>150</sub>, 3, 1, 0; 2000 RL<sub>12</sub>, 2, 1, 0; 2000 RM<sub>12</sub>, 7, 3, 23; 2000 RY<sub>33</sub>, 2, 1, 0; 2000 RJ<sub>34</sub>, 2, 1, 0; 2000 RW<sub>37</sub>, 2, 1, 0; 2000 RD<sub>53</sub>, 3, 1, 0; 2000 SH<sub>5</sub>, 3, 1, 0; 2000 SF<sub>8</sub>, 4, 2, 2; 2000 SG<sub>8</sub>, 2, 1, 0; 2000 SH<sub>8</sub>, 12, 4, 8; 2000 SA<sub>10</sub>, 3, 1, 0; 2000 SL<sub>10</sub>, 4, 2, 1; 2000 SM<sub>10</sub>, 11, 3, 2; 2000 SN<sub>10</sub>, 3, 1, 0; 2000 ST<sub>20</sub>, 2, 1, 0; 2000 SV<sub>20</sub>, 8, 3, 7; 2000 SB<sub>25</sub>, 2, 1, 0; 2000 SP<sub>42</sub>, 6, 2, 1; 2000 SP<sub>43</sub>, 11, 4, 9; 2000 SQ<sub>43</sub>, 3, 1, 0; 2000 SR<sub>43</sub>, 3, 1, 0; 2000 SC<sub>45</sub>, 3, 1, 0; 2000 SE<sub>45</sub>, 2, 1, 0; 2000 SY<sub>162</sub>, 2, 1, 0; 2000 SA<sub>203</sub>, 2, 1, 0; 2000 TH<sub>1</sub>, 3, 1, 0; 2000 TG<sub>2</sub>, 6, 2, 1; (503), 3, 1, 0; (1344), 2, 1, 0; (7285), 2, 1, 0; [180, 50, 0\*, 2000/09/03–2000/10/06]

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

0.41-m  $f/4.3$  reflector + CCD

USNO-SA1.0

1972 RF<sub>2</sub>, 5, 2, 1; 1979 OV<sub>4</sub>, 8, 3, 2; 1981 EJ<sub>38</sub>, 3, 1, 0; 1990 SS<sub>7</sub>, 2, 1, 0; 1991 FH, 3, 1, 0; 1991 FY, 8, 3, 2; 1992 GX<sub>4</sub>, 5, 2, 2; 1993 FN<sub>40</sub>, 3, 1, 0; 1994 AX, 3, 1, 0; 1994 PN<sub>13</sub>, 3, 1, 0; 1994 PT<sub>13</sub>, 2, 1, 0; 1995 SN<sub>13</sub>, 2, 1, 0; 1995 UP<sub>2</sub>, 3, 1, 0; 1995 UX<sub>44</sub>, 2, 1, 0; 1996 QM<sub>1</sub>, 3, 1, 0; 1996 VA<sub>6</sub>, 3, 1, 0; 1996 XE<sub>12</sub>, 3, 1, 0; 1997 BO<sub>1</sub>, 3, 1, 0; 1997 YS<sub>10</sub>, 6, 2, 3; 1998 EU<sub>11</sub>, 3, 1, 0; 1998 FV<sub>28</sub>, 9, 3, 2; 1998 FO<sub>54</sub>, 3, 1, 0; 1998 GC<sub>9</sub>, 3, 1, 0; 1998 HT<sub>50</sub>, 2, 1, 0; 1998 HM<sub>100</sub>, 3, 1, 0; 1998 RB<sub>39</sub>, 3, 1, 0; 1998 SM<sub>12</sub>, 3, 1, 0; 1999 BH<sub>6</sub>, 2, 1, 0; 1999 BH<sub>11</sub>, 3, 1, 0; 1999 FH<sub>6</sub>, 3, 1, 0; 1999 FA<sub>29</sub>, 3, 1, 0; 1999 FE<sub>34</sub>, 3, 1, 0; 1999 GN, 6, 2, 2; 1999 GA<sub>17</sub>, 9, 3, 2; 1999 GO<sub>20</sub>, 3, 1, 0; 1999 HO<sub>4</sub>, 3, 1, 0; 1999 JY<sub>3</sub>, 2, 1, 0; 1999 JS<sub>51</sub>, 6, 2, 1; 1999 JZ<sub>63</sub>, 5, 2, 1; 1999 JG<sub>80</sub>, 9, 3, 2; 1999 KY<sub>4</sub>, 2, 1, 0; 2000 CC<sub>83</sub>, 3, 1, 0; 2000 OB<sub>21</sub>, 2, 1, 0; 2000 OE<sub>50</sub>, 6, 2, 2; 2000 OF<sub>50</sub>, 2, 1, 0; 2000 PQ<sub>4</sub>, 2, 1, 0; 2000 QE<sub>8</sub>, 3, 1, 0; 2000 QQ<sub>29</sub>, 2, 1, 0; 2000 QZ<sub>34</sub>, 2, 1, 0; 2000 QO<sub>68</sub>, 2, 1, 0; 2000 QO<sub>68</sub>, 2, 1, 0; 2000 QS<sub>68</sub>, 3, 1, 0; 2000 QG<sub>80</sub>, 3, 1, 0; 2000 QQ<sub>83</sub>, 2, 1, 0; 2000 QZ<sub>92</sub>, 3, 1, 0; 2000 QD<sub>93</sub>, 2, 1, 0; 2000 QU<sub>123</sub>, 3, 1, 0; 2000 QJ<sub>127</sub>, 7, 3, 2; 2000 QO<sub>127</sub>, 6, 2, 1; 2000 QO<sub>129</sub>, 2, 1, 0; 2000 QP<sub>129</sub>, 2, 1, 0; 2000 QS<sub>210</sub>, 2, 1, 0; 2000 RZ<sub>3</sub>, 6, 2, 2; 2000 RS<sub>5</sub>, 3, 1, 0; 2000 RU<sub>39</sub>, 3, 1, 0; 2000 RJ<sub>53</sub>, 3, 1, 0; 2000 RK<sub>53</sub>, 3, 1, 0; 2000 RA<sub>60</sub>, 7, 3, 2; 2000 RC<sub>60</sub>, 6, 2, 1; 2000 RK<sub>67</sub>, 8, 3, 2; 2000 RM<sub>67</sub>, 8, 3, 2; 2000 RN<sub>76</sub>, 4, 2, 1; 2000 RL<sub>77</sub>, 4, 1, 0; 2000 RW<sub>77</sub>, 6, 2, 2; 2000 RH<sub>78</sub>, 5, 2, 2; 2000 RA<sub>86</sub>, 5, 2, 1; 2000 RJ<sub>93</sub>, 2, 1, 0; 2000 SK<sub>5</sub> \*, 8, 3, 2; 2000 SP<sub>11</sub> \*, 7, 3, 2; 2000 SQ<sub>11</sub> \*, 7, 3, 2; 2000 SR<sub>11</sub> \*, 7, 3, 2; 2000 SS<sub>11</sub> \*, 9, 3, 2; 2000 ST<sub>11</sub> \*, 6, 2, 1; 2000 SY<sub>22</sub> \*, 8, 3, 2; 2000 SZ<sub>22</sub> \*, 7, 3, 2; 2000 SA<sub>23</sub> \*, 8, 3, 2; 2000 SB<sub>23</sub> \*, 8, 3, 2; 2000 SC<sub>23</sub> \*, 7, 3, 2; 2000 SD<sub>23</sub> \*, 8, 3, 2; 2000 SE<sub>23</sub> \*, 6, 3, 2; 2000 SF<sub>23</sub> \*, 9, 3, 2; 2000 SG<sub>23</sub> \*, 8, 3, 2; 2000 SH<sub>23</sub> \*, 7, 3, 2; 2000 SJ<sub>23</sub> \*, 8, 3, 2; 2000 SK<sub>23</sub> \*, 9, 3, 2; 2000 SM<sub>23</sub> \*, 8, 3, 2; 2000 SN<sub>23</sub> \*, 9, 3, 2; 2000 SK<sub>42</sub> \*, 8, 3, 2; 2000 SL<sub>42</sub> \*, 8, 3, 2; 2000 SM<sub>42</sub> \*, 8, 3, 2; 2000 SO<sub>56</sub>, 3, 1, 0; 2791 P-L, 3, 1, 0; 4603 P-L, 2, 1, 0; 4710 P-L, 2, 1, 0; 6104 P-L, 3, 1, 0; 9567 P-L, 3, 1, 0; 2289 T-2, 3, 1, 0; (991), 3, 1, 0; (1238), 5, 2, 1; (2080), 3, 1, 0; (2552), 2, 1, 0; (2934), 6, 2, 2; (2973), 8, 3, 2; (3423), 2, 1, 0; (4210), 2, 1, 0; (4385), 3, 1, 0; (4439), 7, 2, 1; (4545), 6, 2, 2; (4582), 3, 1, 0; (6805), 3, 1, 0; (7153), 5, 2, 2; (7587), 2, 1, 0; (8333), 3, 1, 0; (8344), 4, 2, 2; (8399), 5, 2, 1; (8599), 3, 1, 0; (8658), 6, 3, 2; (8698), 6, 2, 1; (8701), 3, 1, 0; (8766), 3, 1, 0; (8798), 6, 2, 1; (10290), 3, 1, 0; (10488), 3, 1, 0; (10597), 3, 1, 0; (10711), 3, 1, 0; (10796), 3, 1, 0; (10834), 8, 3, 2; (10872), 3, 1, 0; (10971), 6, 2, 1; (11647), 3, 1, 0; (11813), 3, 1, 0; (16581), 6, 2, 3; (16584), 5, 2, 2; (16616), 3, 1, 0; (16746), 3, 1, 0; (16923), 2, 1, 0; (17167), 8, 3, 2; (17311), 3, 1, 0; [666, 150, 24\*, 1998/08/26–2000/09/28]

### 127 Bornheim

N. Ehrling, Stationenweg 54, D-53332 Bornheim, Germany [[norbert.ehrling@t-online.de](mailto:norbert.ehrling@t-online.de)]

0.30-m  $f/3.2$  FFC + CCD  
USNO-A2.0

1981 EA<sub>35</sub>, 5, 2, 5; 1991 FK, 5, 2, 5; 1995 WJ<sub>7</sub>, 6, 2, 5; 1998 AD<sub>10</sub>, 2, 1, 0; 1999 CP<sub>15</sub>, 5, 2, 5; 1999 NN<sub>5</sub>, 4, 2, 5; 2000 RR<sub>32</sub>, 4, 2, 5; (4067), 3, 1, 0; (16385), 3, 1, 0; [37, 9, 0\*, 2000/10/02–2000/10/07]

### 130 Lumezzane

S. Foglia, F. Bisleri 11, I-20418 Milan, Italy [s.foglia@libero.it]

Observer W. Marinello

0.40-m  $f/4$  reflector + CCD

USNO-A1.0

2000 RD<sub>53</sub>, 3, 1, 0; (16535), 4, 1, 0; [7, 2, 0\*, 2000/09/09]

### 143 Gnosca

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

0.40-m  $f/4$  reflector + CCD

GSC

1999 GR<sub>7</sub>, 3, 1, 0; 1999 JN<sub>80</sub>, 3, 1, 0; 2000 EY, 4, 1, 0; 2000 OB<sub>7</sub>, 6, 2, 5; 2000 PP<sub>8</sub>, 2, 1, 0; 2000 QZ, 3, 1, 0; 2000 QR<sub>1</sub>, 3, 1, 0; 2000 QS<sub>1</sub>, 2, 1, 0; 2000 QQ<sub>6</sub>, 2, 1, 0; 2000 QD<sub>21</sub>, 4, 1, 0; 2000 QV<sub>85</sub>, 2, 1, 0; 2000 QA<sub>115</sub>, 4, 1, 0; 2000 RC<sub>9</sub>, 4, 1, 0; 2000 RD<sub>53</sub>, 6, 1, 0; 2000 RH<sub>77</sub>, 6, 1, 0; 2000 RJ<sub>77</sub>, 3, 1, 0; 2000 SW<sub>31</sub>, 2, 1, 0; (2492), 4, 1, 0; [63, 18, 0\*, 2000/03/05–2000/09/22]

### 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

1989 CR<sub>5</sub>, 9, 2, 3; 1990 TP<sub>7</sub>, 5, 1, 0; 1990 TH<sub>8</sub>, 4, 1, 0; 1990 TJ<sub>8</sub>, 4, 1, 0; 1991 AW<sub>2</sub>, 4, 1, 0; 1991 RY<sub>4</sub>, 4, 1, 0; 1991 RB<sub>41</sub>, 5, 1, 0; 1991 TQ<sub>6</sub>, 5, 1, 0; 1991 TS<sub>6</sub>, 5, 1, 0; 1991 XG<sub>1</sub>, 5, 1, 0; 1992 SF<sub>2</sub>, 8, 2, 4; 1997 YN<sub>8</sub>, 4, 1, 0; 2000 NF<sub>5</sub>, 4, 1, 0; 2000 OZ<sub>5</sub>, 6, 1, 0; 2000 OY<sub>7</sub>, 4, 1, 0; 2000 OG<sub>8</sub>, 12, 2, 3; 2000 OG<sub>44</sub>, 4, 1, 0; 2000 QL<sub>7</sub>, 5, 1, 0; 2000 QK<sub>83</sub>, 5, 1, 0; 2000 QN<sub>130</sub>, 7, 1, 0; 2000 RM<sub>12</sub>, 6, 1, 0; 2000 RD<sub>53</sub>, 8, 1, 0; 2000 SE<sub>1</sub>, 6, 1, 0; 2000 SB<sub>8</sub>, 6, 1, 0; 2000 SE<sub>8</sub>, 6, 1, 0; 2000 SF<sub>8</sub>, 6, 1, 0; 2000 SG<sub>8</sub>, 6, 1, 0; 2000 SH<sub>8</sub>, 6, 1, 0; 2000 SM<sub>10</sub>, 6, 1, 0; 2000 SN<sub>10</sub>, 7, 1, 0; 2000 SS<sub>20</sub>, 6, 1, 0; 2000 SU<sub>20</sub>, 7, 1, 0; 2000 SV<sub>20</sub>, 6, 1, 0; 2000 SP<sub>43</sub>, 13, 2, 3; 2000 SC<sub>45</sub>, 4, 1, 0; (433), 8, 2, 11; (2100), 4, 1, 0; (7123), 5, 1, 0; (12711), 4, 1, 0; (16505), 3, 1, 0; (16636), 4, 1, 0; (16834), 4, 1, 0; (17274), 4, 1, 0; [244, 43, 0\*, 2000/09/11–2000/09/29]

### 159 Monte Agliale

M. M. M. Santangelo, Monte Agliale Astronomical Observatory, Borgo a Mozzano,

Lucca, Italy [ilra@comune.lucca.it]

Observer S. Donati

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

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

USNO-A2.0, USNO-A1.0

1999 ET<sub>4</sub>, 5, 1, 0; 1999 FU<sub>19</sub>, 5, 1, 0; 2000 QE<sub>127</sub>, 6, 1, 0; [16, 3, 0\*, 2000/09/08–2000/09/25]

### 161 Cerrini Tololo Observatory

P. Camaiti, via Maria Vittoria 35, I-10123 Torino, Italy [P.Camaiti@flashnet.it]

0.28-m Schmidt-Cassegrain + CCD

GSC

(2952), 2, 1, 0; (3880), 2, 1, 0; (10520), 1, 1, 0; [5, 3, 0\*, 2000/09/22]

### 163 Roeser Observatory, Luxembourg

M. Dawson, 66 Rue Boch, L-1244 Luxembourg, Luxembourg [dawson@pt.lu]

0.46-m  $f/4.5$  reflector + CCD

GSC-ACT

2000 RD<sub>53</sub>, 7, 1, 0; 2000 SF<sub>8</sub>, 4, 1, 0; 2000 SG<sub>8</sub>, 2, 1, 0; 2000 SN<sub>10</sub>, 4, 1, 0; 2000 SR<sub>20</sub>, 4, 1, 0; 2000 ST<sub>20</sub>, 6, 1, 0; 2000 SV<sub>20</sub>, 6, 1, 0; 2000 SY<sub>162</sub>, 4, 1, 0; 2000 TH<sub>1</sub>, 4, 1, 0; 2000 TJ<sub>1</sub>, 7, 1, 0; 2000 TU<sub>28</sub>, 4, 1, 0; [52, 11, 0\*, 2000/09/15–2000/10/07]

### 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

1999 JP<sub>3</sub>, 3, 1, 0; 2000 LZ<sub>2</sub>, 2, 1, 0; (5768), 2, 1, 0; [7, 3, 0\*, 2000/09/12–2000/09/23]

### 170 Observatorio de Begues

J. Manteca, c/Santpere, no. Casa 22, E-08859 Begues, Barcelona, Spain

[jmantecav@nexo.es]

Observer J. Manteca

Measurer S. Alonso

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

GSC-1.1

1989 DL, 4, 1, 0; 2000 QW<sub>7</sub>, 1, 1, 0; [5, 2, 0\*, 2000/09/01–2000/09/10]

### 173 St. Clotilde, Réunion

R. Chassagne, 58C2 Route Gabriel Mace, F-97490 St. Clotilde, France

[robin.chassagne@wanadoo.fr]

0.30-m  $f/2.7$  reflector + CCD

USNO-SA

1993 FW<sub>60</sub>, 2, 1, 0; 1999 EV<sub>2</sub>, 3, 1, 0; 1999 EZ<sub>4</sub>, 2, 1, 0; 1999 LH<sub>7</sub>, 4, 1, 0; 2000 NU<sub>10</sub>, 5, 1, 0; 2000 ST<sub>43</sub> \*, 11, 3, 4; [27, 6, 1\*, 2000/09/27–2000/10/01]

### 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

2000 OA<sub>48</sub>, 3, 1, 0; [3, 1, 0\*, 2000/09/21]

### 195 Untermenzing 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

(3024), 4, 2, 6; [4, 1, 0\*, 2000/09/24–2000/09/29]

### 196 Homburg-Erbach

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

[Wolfgang.Wiedemann@t-online.de]

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

GSC-1.2

(594), 10, 4, 12; (914), 15, 5, 11; (1867), 12, 4, 13; (2105), 10, 4, 13; [47, 4, 0\*, 2000/07/21–2000/08/24]

### 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

Measurers F. Cavicchio, S. Moretti

0.42-m  $f/5.4$  reflector + CCD

GSC

(654), 2, 2, 1; (675), 4, 2, 1; (1040), 2, 1, 0; [8, 3, 0\*, 2000/09/10–2000/09/11]

**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), G. D'Abramo (2), A. Lowe (4), R. Di Luca (5)

1.2-m U.K. Schmidt

{1} 1983 EU<sub>1</sub>, 2, 1, 0; 1990 BJ<sub>6</sub>, 2, 1, 0; 1998 BF<sub>14</sub>, 2, 1, 0; 1999 BW<sub>3</sub>, 2, 1, 0; 1999 RK<sub>27</sub>, 2, 1, 0; 1999 RU<sub>32</sub>, 2, 1, 0; 1999 RW<sub>32</sub>, 4, 2, 86; 1999 RC<sub>36</sub>, 2, 1, 0; 1999 RQ<sub>112</sub>, 2, 1, 0; 1999 RE<sub>183</sub>, 2, 1, 0; 1999 RX<sub>188</sub>, 2, 1, 0; 1999 RV<sub>199</sub>, 2, 1, 0; 1999 RY<sub>205</sub>, 2, 1, 0; 1999 RG<sub>239</sub>, 4, 2, 63; 1999 TR<sub>10</sub>, 1, 1, 0; 1999 TH<sub>35</sub>, 2, 1, 0; 1999 TS<sub>88</sub>, 2, 1, 0; 1999 TD<sub>109</sub>, 4, 2, 3299; 1999 TS<sub>153</sub>, 2, 1, 0; 1999 TG<sub>179</sub>, 2, 1, 0; 1999 TN<sub>219</sub>, 2, 1, 0; 1999 VE<sub>37</sub>, 2, 1, 0; 1999 VN<sub>45</sub>, 3, 2, 3223; 1999 VE<sub>179</sub>, 1, 1, 0; 1999 VW<sub>194</sub>, 2, 1, 0; 1999 XF<sub>12</sub>, 2, 1, 0; 1999 XF<sub>14</sub>, 2, 1, 0; 1999 XL<sub>69</sub>, 2, 1, 0; 1999 XW<sub>71</sub>, 3, 1, 0; 1999 XS<sub>119</sub>, 8, 4, 4540; 1999 XA<sub>151</sub>, 8, 4, 5236; 1999 XM<sub>166</sub>, 1, 1, 0; 2000 AA<sub>12</sub>, 1, 1, 0; 2000 AB<sub>63</sub>, 2, 1, 0; 2000 AG<sub>138</sub>, 2, 1, 0; 2000 AF<sub>184</sub>, 6, 3, 87; 2000 AD<sub>186</sub>, 2, 1, 0; 2000 AA<sub>192</sub>, 3, 2, 4545; 2000 AV<sub>246</sub>, 4, 2, 4424; 2000 BE<sub>16</sub>, 2, 1, 0; 2000 CE<sub>71</sub>, 2, 1, 0; 2000 CB<sub>82</sub>, 2, 1, 0; 2000 CZ<sub>82</sub>, 2, 1, 0; 2000 DD<sub>5</sub>, 2, 1, 0; 2000 GP<sub>69</sub>, 2, 1, 0; 2000 GE<sub>78</sub>, 4, 2, 1752; 2000 JV<sub>60</sub>, 2, 1, 0; 2000 OG<sub>44</sub>, 2, 2, 1; [121, 48, 0\*, 1974/06/20–1996/04/21]

{2} 1977 SU<sub>3</sub> \*, 8, 4, 55; 1992 BL<sub>2</sub>, 4, 1, 0; 1994 EE<sub>3</sub>, 2, 1, 0; 1996 AS<sub>1</sub>, 2, 1, 0; 1996 LG, 2, 1, 0; 1997 WS<sub>22</sub>, 2, 1, 0; 1998 BX<sub>7</sub>, 5, 2, 3; 1998 OR<sub>2</sub>, 2, 1, 0; 1998 UT<sub>18</sub>, 2, 1, 0; 1998 WM, 2, 1, 0; 1998 YB<sub>8</sub>, 2, 1, 0; 1999 GJ<sub>2</sub>, 2, 1, 0; 1999 JU<sub>3</sub>, 2, 1, 0; 1999 JV<sub>3</sub>, 2, 1, 0; 1999 KX<sub>4</sub>, 2, 1, 0; 1999 LQ<sub>28</sub>, 2, 1, 0; 1999 RR<sub>28</sub>, 2, 1, 0; 1999 RP<sub>36</sub>, 2, 1, 0; 1999 YB, 2, 1, 0; 2000 EZ<sub>148</sub>, 2, 1, 0; 2000 JS<sub>66</sub>, 2, 1, 0; 2000 JT<sub>66</sub>, 2, 1, 0; 2000 NF<sub>11</sub>, 2, 1, 0; 2000 PG<sub>5</sub>, 2, 1, 0; 2000 QP, 2, 1, 0; 2000 RJ<sub>34</sub>, 2, 1, 0; 2000 SY<sub>2</sub>, 4, 2, 35; [67, 27, 1\*, 1974/09/22–1995/08/25]

{4} 1973 SV, 2, 1, 0; 1973 SS<sub>1</sub>, 2, 1, 0; 1975 TE, 2, 1, 0; 1977 TC, 2, 1, 0; 1978 PG<sub>4</sub>, 2, 1, 0; 1984 SS, 2, 1, 0; 1986 PB, 2, 1, 0; 1987 UZ<sub>1</sub>, 2, 1, 0; 1989 UO<sub>5</sub>, 2, 1, 0; 1990 HE, 4, 2, 5653; 1990 RQ<sub>9</sub>, 2, 1, 0; 1990 XZ, 2, 1, 0; 1991 AU<sub>1</sub>, 2, 1, 0; 1991 PM<sub>4</sub>, 2, 1, 0; 1991 RA, 2, 1, 0; 1991 VY<sub>1</sub>, 4, 2, 4493; 1991 XE, 2, 1, 0; 1993 UF<sub>1</sub>, 2, 1, 0; 1994 GP, 2, 1, 0; 1994 LB<sub>8</sub>, 4, 2, 1471; 1994 PY<sub>21</sub>, 2, 1, 0; 1994 QQ, 2, 1, 0; 1994 VV, 4, 2, 4754; 1994 VE<sub>1</sub>, 2, 1, 0; 1994 WL, 2, 1, 0; 1994 WH<sub>1</sub>, 2, 1, 0; 1994 XF<sub>1</sub>, 6, 3, 5380; 1995 BD, 2, 1, 0; 1995 BF<sub>1</sub>, 2, 1, 0; 1995 CG, 2, 1, 0; 1995 DG, 6, 3, 4062; 1995 DX<sub>5</sub>, 4, 2, 1783; 1995 EP<sub>1</sub>, 6, 3, 2273; 1995 KE<sub>2</sub>, 8, 4, 3697; 1995 LK, 2, 1, 0; 1995 ON<sub>4</sub>, 2, 1, 0; 1995 SG<sub>5</sub>, 2, 1, 0; 1995 ST<sub>53</sub>, 6, 3, 72; 1995 UR, 2, 1, 0; 1995 UJ<sub>1</sub>, 4, 2, 473; 1995 UZ<sub>8</sub>, 4, 2, 6666; 1995 UD<sub>45</sub>, 2, 1, 0; 1995 VT, 4, 2, 2164; 1996 AT, 2, 1, 0; 1996 DP<sub>2</sub>, 2, 1, 0; 1996 FE, 2, 1, 0; 1996 FF, 2, 1, 0; 1996 PA<sub>7</sub>, 2, 1, 0; 1996 TR<sub>14</sub>, 2, 1, 0; 1996 VO<sub>4</sub>, 2, 1, 0; 1996 VJ<sub>30</sub>, 4, 2, 2940; 1997 AQ<sub>6</sub>, 2, 1, 0; 1997 GM<sub>40</sub>, 6, 3, 7117; 1997 UF<sub>2</sub>, 2, 1, 0; 1997 XK<sub>9</sub>, 4, 2, 1172; 1997 YT<sub>1</sub>, 6, 3, 2004; 1997 YC<sub>14</sub>, 2, 1, 0; 1998 ER<sub>14</sub>, 2, 1, 0; 1998 FK<sub>2</sub>, 2, 1, 0; 1998 KR<sub>1</sub>, 2, 1, 0; 1998 KS<sub>3</sub>, 8, 4, 4048; 1998 KG<sub>56</sub>, 2, 1, 0; 1998 QE<sub>56</sub>, 2, 1, 0; 1998 QU<sub>92</sub>, 2, 1, 0; 1998 VR<sub>32</sub>, 2, 1, 0; 1998 YW<sub>1</sub>, 2, 1, 0; 1998 YM<sub>3</sub>, 2, 1, 0; 1999 CP<sub>15</sub>, 2, 1, 0; 1999 DB<sub>3</sub>, 2, 1, 0; 1999 FV<sub>44</sub>, 2, 1, 0; 1999 GC<sub>8</sub>, 4, 2, 993; 1999 HH<sub>8</sub>, 4, 2, 86; 1999 NA<sub>38</sub>, 2, 1, 0; 1999 RF<sub>27</sub>, 8, 4, 2988; 1999 RW<sub>27</sub>, 4, 2, 2812; 1999 RX<sub>42</sub>, 4, 2, 1448; 1999 RS<sub>89</sub>, 2, 1, 0; 1999 RN<sub>116</sub>, 4, 2, 323; 1999 RX<sub>195</sub>, 2, 1, 0; 1999 TV<sub>15</sub>, 2, 1, 0; 1999 VK<sub>10</sub>, 2, 1, 0; 1999 WT<sub>4</sub>, 2, 1, 0; 1999 XD<sub>94</sub>, 2, 1, 0; 1999 XP<sub>101</sub>, 4, 2, 1538; 1999 XL<sub>137</sub>, 2, 1, 0; 1999 XJ<sub>156</sub>, 2, 1, 0; 1999 XY<sub>187</sub>, 2, 1, 0; 1999 XW<sub>211</sub>, 8, 4, 397; 1999 XY<sub>242</sub>, 4, 2, 2848; 2000 AB<sub>98</sub>, 2, 1, 0; 2000 AS<sub>199</sub>, 2, 1, 0; 2000 AC<sub>205</sub>, 2, 1, 0; 2000 BA<sub>27</sub>, 6, 3, 2830; 2000 EM<sub>148</sub>, 4, 2, 1028; 2000 GC<sub>1</sub>, 4, 2, 609; 2000 GB<sub>126</sub>, 4, 2, 21; 2000 HD<sub>22</sub>, 2, 1, 0; 2000 KL<sub>40</sub>, 4, 2, 1123; 2000 OU<sub>30</sub>, 6, 3, 4323; 2000 OQ<sub>35</sub>, 2, 1, 0; 2000 QV<sub>49</sub>, 4, 2, 62; 2000 QT<sub>119</sub>, 2, 1, 0; 2000 QG<sub>173</sub>, 4, 2, 365; 2000 QY<sub>177</sub>, 6, 3, 1274; 3049 P-L, 2, 1, 0; 3509 P-L, 4, 2, 1265; 3555 P-L, 4, 2, 3481; 4084 P-L, 6, 3, 4893; 6058 P-L, 2, 1, 0; 6245 P-L, 2, 1, 0; 6260 P-L, 6, 3, 6279; 6556 P-L, 2, 1, 0; 9575 P-L, 2, 1, 0; 9602 P-L, 2, 1, 0; 1030 T-1, 4, 2, 2596; 3222 T-1, 2, 1, 0; 3322 T-1, 2, 1, 0; 4109 T-1, 2, 1, 0; 1059 T-2, 6, 3, 5512; 3178 T-2, 2, 1, 0; 4250 T-2, 8, 4, 3439; 5167 T-2, 2, 1, 0; 4221 T-3, 2, 1, 0; (16560), 2, 1, 0; [380, 125, 0\*, 1974/07/24–1996/09/08]

{5} 1997 TE, 1, 1, 0; [1, 1, 0\*, 1992/07/27]

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{1} 1988 UN<sub>1</sub>, 2, 1, 0; 1990 AO, 4, 2, 85; 1990 SK<sub>25</sub>, 2, 1, 0; 1990 UW<sub>7</sub>, 4, 2, 1; 1998 BF<sub>14</sub>, 4, 2, 494; 1998 CA, 5, 2, 13482; 1998 FC<sub>127</sub>, 3, 2, 13760; 1999 RU<sub>32</sub>, 2, 1, 0; 1999 RR<sub>38</sub>, 2, 1, 0; 1999 RQ<sub>112</sub>, 2, 1, 0; 1999 RW<sub>147</sub>, 4, 2, 1907; 1999 RT<sub>166</sub>, 2, 1, 0; 1999 RE<sub>183</sub>, 4, 2, 16744; 1999 RX<sub>188</sub>, 4, 2, 14461; 1999 RS<sub>190</sub>, 2, 1, 0; 1999 RV<sub>199</sub>, 6, 3, 3149; 1999 RY<sub>205</sub>, 2, 1, 0; 1999 RW<sub>208</sub>, 4, 2, 15234; 1999 RG<sub>239</sub>, 4, 2, 24; 1999 TH<sub>35</sub>, 6, 3, 15887; 1999 TD<sub>109</sub>, 2, 1, 0; 1999 TV<sub>116</sub>, 2, 1, 0; 1999 TS<sub>153</sub>, 2, 1, 0; 1999 TG<sub>179</sub>, 2, 1, 0; 1999 UJ<sub>27</sub>, 2, 1, 0; 1999 UW<sub>38</sub>, 4, 2, 36; 1999 UJ<sub>47</sub>, 4, 2, 2444; 1999 VN<sub>45</sub>, 2, 1, 0; 1999 VD<sub>138</sub>, 2, 1, 0; 1999 VE<sub>179</sub>, 2, 1, 0; 1999 XF<sub>12</sub>, 2, 1, 0; 1999 XS<sub>38</sub>, 6, 3, 1863; 1999 XW<sub>71</sub>, 2, 1, 0; 1999 XM<sub>116</sub>, 4, 2, 14384; 1999 XS<sub>119</sub>, 2, 1, 0; 1999 XA<sub>151</sub>, 2, 1, 0; 1999 XM<sub>166</sub>, 6, 3, 12827; 2000 AA<sub>12</sub>, 2, 1, 0; 2000 AM<sub>41</sub>, 5, 3, 461; 2000 AG<sub>138</sub>, 3, 2, 55; 2000 AF<sub>184</sub>, 4, 2, 474; 2000 AV<sub>246</sub>, 2, 1, 0; 2000 BE<sub>16</sub>, 4, 2, 2306; 2000 CK<sub>40</sub>, 2, 1, 0; 2000 CE<sub>71</sub>, 2, 1, 0; 2000 CB<sub>82</sub>, 8, 4, 1588; 2000 CZ<sub>82</sub>, 2, 1, 0; 2000 CB<sub>102</sub>, 4, 2, 2590; 2000 DP<sub>1</sub>, 4, 2, 2291; 2000 DD<sub>5</sub>, 2, 1, 0; 2000 DH<sub>107</sub>, 2, 1, 0; 2000 FG<sub>37</sub>, 4, 2, 14232; 2000 GA<sub>47</sub>, 4, 2, 78; 2000 GQ<sub>105</sub>, 10, 5, 16799; 2000 GW<sub>135</sub>, 5, 3, 503; 2000 GB<sub>136</sub>, 6, 3, 15532; 2000 JJ<sub>14</sub>, 4, 2, 15090; 2000 LQ<sub>34</sub>, 2, 1, 0; 2000 OG<sub>44</sub>, 9, 3, 14425; [206, 59, 0\*, 1950/03/21–1997/05/08]

{2} 1992 BL<sub>2</sub>, 2, 1, 0; 1998 DH<sub>33</sub>, 2, 1, 0; 1998 NU, 2, 1, 0; 2000 GV<sub>147</sub>, 2, 1, 0; [8, 4, 0\*, 1989/12/17–1995/08/05]

{4} 1973 SV, 4, 2, 12739; 1973 SR<sub>1</sub>, 2, 1, 0; 1973 SU<sub>1</sub>, 2, 1, 0; 1978 PG<sub>4</sub>, 2, 1, 0; 1983 RL, 2, 1, 0; 1984 SS, 2, 1, 0; 1990 RQ<sub>9</sub>, 2, 1, 0; 1991 GZ<sub>1</sub>, 2, 1, 0; 1991 SE<sub>2</sub>, 2, 1, 0; 1991 VE, 2, 1, 0; 1992 JR, 2, 1, 0; 1992 RN, 4, 2, 13675; 1992 UE<sub>6</sub>, 2, 1, 0; 1993 HY<sub>5</sub>, 2, 1, 0; 1993 PC, 2, 1, 0; 1994 LO<sub>1</sub>, 2, 1, 0; 1994 LB<sub>8</sub>, 2, 1, 0; 1994 NQ, 4, 2, 16642; 1994 TQ<sub>16</sub>, 2, 1, 0; 1994 XJ, 2, 1, 0; 1995 BF<sub>1</sub>, 2, 1, 0; 1995 BP<sub>3</sub>, 2, 1, 0; 1995 DX<sub>5</sub>, 2, 1, 0; 1995 ON<sub>4</sub>, 2, 1, 0; 1995 SG<sub>5</sub>, 2, 1, 0; 1995 UR, 2, 1, 0; 1995 UJ<sub>1</sub>, 2, 1, 0; 1995 UP<sub>7</sub>, 4, 2, 24; 1995 UD<sub>45</sub>, 2, 1, 0; 1996 AT, 2, 1, 0; 1996 KE, 2, 1, 0; 1996 PA<sub>7</sub>, 2, 1, 0; 1996 RR<sub>2</sub>, 2, 1, 0; 1996 RF<sub>33</sub>, 2, 1, 0; 1996 VJ<sub>30</sub>, 2, 1, 0; 1997 ET<sub>30</sub>, 2, 1, 0; 1997 UF<sub>2</sub>, 4, 2, 47; 1998 AD<sub>10</sub>, 4, 2, 13145; 1998 BX<sub>7</sub>, 2, 1, 0; 1998 FT<sub>53</sub>, 4, 2, 13327; 1998 FH<sub>113</sub>, 6, 3, 14930; 1998 GF, 2, 1, 0; 1998 HJ<sub>7</sub>, 2, 1, 0; 1998 KS<sub>3</sub>, 2, 1, 0; 1998 QH<sub>2</sub>, 2, 1, 0; 1998 QU<sub>92</sub>, 2, 1, 0; 1998 UP<sub>1</sub>, 2, 1, 0; 1998 WC<sub>1</sub>, 2, 1, 0; 1998 YM<sub>3</sub>, 6, 3, 13642; 1999 FV<sub>44</sub>, 2, 1, 0; 1999 GC<sub>8</sub>, 2, 1, 0; 1999 HH<sub>8</sub>, 2, 1, 0; 1999 JB<sub>80</sub>, 2, 1, 0; 1999 NA<sub>38</sub>, 2, 1, 0; 1999 NB<sub>63</sub>, 2, 1, 0; 1999 RX<sub>31</sub>, 2, 1, 0; 1999 RS<sub>89</sub>, 2, 1, 0; 1999 UQ<sub>10</sub>, 4, 2, 12786; 1999 VK<sub>10</sub>, 2, 1, 0; 1999 XK<sub>77</sub>, 2, 1, 0; 1999 XO<sub>82</sub>, 2, 1, 0; 1999 XY<sub>129</sub>, 4, 2, 461; 1999 XY<sub>187</sub>, 4, 2, 13905; 1999 XG<sub>191</sub>, 6, 3, 1266; 1999 XK<sub>192</sub>, 2, 1, 0; 1999 XY<sub>242</sub>, 4, 2, 13542; 2000 AU<sub>31</sub>, 2, 1, 0; 2000 AJ<sub>87</sub>, 2, 1, 0; 2000 AC<sub>205</sub>, 6, 3, 1091; 2000 BA<sub>27</sub>, 2, 1, 0; 2000 CS<sub>8</sub>, 2, 1, 0; 2000 DW, 4, 2, 12373; 2000 EM<sub>148</sub>, 2, 1, 0; 2000 NG<sub>11</sub>, 2, 1, 0; 2000 OU<sub>30</sub>, 12, 6, 13930; 4597 P-L, 2, 1, 0; 6020 P-L, 2, 1, 0; 6058 P-L, 2, 1, 0; 6245 P-L, 2, 1, 0; 6260 P-L, 2, 1, 0; 6556 P-L, 2, 1, 0; 9602 P-L, 2, 1, 0; 1030 T-1, 2, 1, 0; 1182 T-1, 2, 1, 0; 1222 T-1, 2, 1, 0; 3322 T-1, 2, 1, 0; 1059 T-2, 2, 1, 0; 3178 T-2, 2, 1, 0; 3351 T-2, 2, 1, 0; 4232 T-2, 6, 3, 14355; (5693), 2, 1, 0; (7977), 2, 1, 0; (12923), 2, 1, 0; (16560), 2, 1, 0; (16956), 2, 1, 0; (17171), 2, 1, 0; (17314), 2, 1, 0; [248, 97, 0\*, 1949/11/25–1997/03/13]

{5} 1997 TE, 3, 2, 89; [3, 1, 0\*, 1989/11/02–1990/01/30]

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2000 HW<sub>23</sub>, 2, 1, 0; [2, 1, 0\*, 1978/08/12]

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J. Terazono, T. Urata, M. Yoshikawa

0.50-m  $f/2.0$  reflector + CCD  
GSC, USNO-A2.0

1972 RF<sub>2</sub>, 3, 1, 0; 1981 DV, 9, 4, 10; 1985 UF, 2, 1, 0; 1991 PY<sub>14</sub>, 2, 1, 0; 1991 XM, 2, 1, 0;  
1992 FG, 2, 1, 0; 1993 UQ<sub>5</sub>, 5, 2, 7; 1995 DS<sub>5</sub>, 2, 1, 0; 1995 VT, 3, 1, 0; 1995 WW<sub>2</sub>, 2, 1, 0;  
1996 LG, 6, 2, 1; 1996 UH<sub>5</sub>, 5, 2, 2; 1996 VS<sub>10</sub>, 2, 1, 0; 1997 WR<sub>38</sub>, 2, 1, 0; 1997 WA<sub>42</sub>, 7, 3, 8;  
1998 AG<sub>6</sub>, 3, 1, 0; 1998 BE<sub>30</sub>, 2, 1, 0; 1998 CL, 2, 1, 0; 1998 EA<sub>13</sub>, 2, 1, 0; 1998 FA<sub>10</sub>, 2, 1, 0;  
1998 FG<sub>72</sub>, 3, 1, 0; 1998 FE<sub>118</sub>, 3, 1, 0; 1998 HM<sub>33</sub>, 2, 1, 0; 1999 FF<sub>8</sub>, 2, 1, 0; 1999 FJ<sub>9</sub>, 2, 1, 0;  
1999 GG<sub>19</sub>, 3, 1, 0; 1999 GK<sub>20</sub>, 2, 1, 0; 1999 GQ<sub>35</sub>, 3, 1, 0; 1999 GM<sub>36</sub>, 3, 1, 0; 1999 JR<sub>20</sub>, 2, 1,  
0; 1999 JK<sub>37</sub>, 2, 1, 0; 1999 JG<sub>44</sub>, 2, 1, 0; 1999 JU<sub>51</sub>, 2, 1, 0; 1999 JP<sub>54</sub>, 2, 1, 0; 1999 JC<sub>76</sub>, 3, 1,  
0; 1999 JD<sub>91</sub>, 3, 1, 0; 1999 JS<sub>114</sub>, 2, 1, 0; 1999 KF<sub>5</sub>, 2, 1, 0; 1999 KP<sub>12</sub>, 3, 1, 0; 1999 NR<sub>38</sub>, 3, 1,  
0; 1999 NR<sub>48</sub>, 3, 1, 0; 1999 NZ<sub>52</sub>, 2, 1, 0; 1999 RK<sub>134</sub>, 5, 2, 2; 2000 LS<sub>26</sub>, 2, 1, 0; 2000 LJ<sub>31</sub>, 3, 1,  
0; 2000 LL<sub>33</sub>, 2, 1, 0; 2000 LL<sub>34</sub>, 3, 1, 0; 2000 NX<sub>26</sub>, 8, 3, 21; 2000 OS<sub>3</sub>, 2, 1, 0; 2000 OB<sub>8</sub>, 4, 2,  
7; 2000 OV<sub>20</sub>, 5, 2, 2; 2000 OW<sub>20</sub>, 6, 2, 10; 2000 OR<sub>22</sub>, 2, 1, 0; 2000 OZ<sub>44</sub>, 2, 1, 0; 2000 PL<sub>10</sub>, 2,  
1, 0; 2000 PG<sub>12</sub>, 2, 1, 0; 2000 PZ<sub>12</sub>, 2, 1, 0; 2000 PD<sub>20</sub>, 3, 1, 0; 2000 PU<sub>26</sub>, 2, 1, 0; 2000 PV<sub>26</sub>, 2,  
1, 0; 2000 PN<sub>28</sub>, 2, 1, 0; 2000 QA<sub>4</sub>, 3, 1, 0; 2000 QP<sub>29</sub>, 2, 1, 0; 2000 QW<sub>68</sub>, 2, 1, 0; 2000 QG<sub>116</sub>,  
2, 1, 0; 2000 QS<sub>123</sub>, 4, 1, 0; 2000 QJ<sub>128</sub>, 2, 1, 0; 2000 QA<sub>137</sub>, 2, 1, 0; 2000 QN<sub>150</sub>, 5, 2, 7;  
2000 QA<sub>203</sub>, 9, 4, 8; 2000 QV<sub>214</sub>, 2, 1, 0; 2000 RM<sub>6</sub>, 3, 1, 0; 2000 RG<sub>12</sub>, 2, 1, 0; 2000 RN<sub>18</sub>, 2, 1,  
0; 2000 RV<sub>18</sub>, 3, 1, 0; 2000 RV<sub>19</sub>, 2, 1, 0; 2000 RX<sub>37</sub>, 3, 1, 0; 2000 RH<sub>43</sub>, 2, 1, 0; 2000 RA<sub>44</sub>, 5, 2,  
2; 2000 RD<sub>44</sub>, 2, 1, 0; 2000 RG<sub>52</sub>, 6, 3, 14; 2000 RH<sub>52</sub>, 6, 2, 6; 2000 RS<sub>53</sub>, 2, 1, 0; 2000 RH<sub>55</sub>, 2, 1,  
0; 2000 RR<sub>65</sub>, 2, 1, 0; 2000 RN<sub>75</sub>, 5, 2, 6; 2000 RO<sub>75</sub>, 3, 1, 0; 2000 RA<sub>76</sub>, 3, 1, 0; 2000 RB<sub>78</sub>, 5, 2,  
4; 2000 RY<sub>78</sub>, 2, 1, 0; 2000 RD<sub>79</sub>, 4, 2, 10; 2000 RN<sub>96</sub>, 3, 1, 0; 2000 RR<sub>96</sub>, 6, 2, 3; 2000 RO<sub>104</sub>,  
5, 2, 1; 2000 RU<sub>104</sub>, 2, 1, 0; 2000 SQ<sub>4</sub>, 9, 4, 7; 2000 SR<sub>4</sub>, 20, 6, 14; 2000 SD<sub>7</sub>, 19, 4, 4;  
2000 SE<sub>7</sub>, 17, 5, 10; 2000 SF<sub>7</sub>, 8, 3, 4; 2000 SN<sub>20</sub>, 2, 1, 0; 2000 SY<sub>20</sub>, 10, 4, 13; 2000 SZ<sub>20</sub>,  
9, 3, 3; 2000 SA<sub>21</sub>, 8, 3, 3; 2000 SB<sub>21</sub>, 5, 2, 2; 2000 SC<sub>21</sub>, 7, 3, 3; 2000 SD<sub>21</sub>, 4, 2, 2;  
2000 SQ<sub>24</sub>, 7, 3, 8; 2000 SR<sub>24</sub>, 4, 2, 1; 2000 SS<sub>24</sub>, 4, 2, 1; 2000 ST<sub>24</sub>, 5, 2, 1; 2000 SU<sub>24</sub>,  
4, 2, 1; 2000 SV<sub>24</sub>, 4, 2, 1; 2000 SW<sub>24</sub>, 7, 3, 8; 2000 SX<sub>24</sub>, 5, 2, 1; 2000 SY<sub>24</sub>, 8, 3, 7;  
2000 SZ<sub>24</sub>, 4, 2, 1; 2000 SU<sub>42</sub>, 11, 3, 7; 2000 SV<sub>44</sub>, 7, 2, 3; 2000 SE<sub>88</sub>, 2, 1, 0; 2000 SH<sub>146</sub>, 2,  
1, 0; 2000 SB<sub>163</sub>, 6, 2, 4; 2000 SJ<sub>168</sub>, 2, 1, 0; 2000 TA<sub>2</sub>, 5, 2, 1; 2000 TB<sub>2</sub>, 6, 2, 1; 7069 P-L,  
3, 1, 0; (83), 2, 1, 0; (99), 2, 1, 0; (178), 3, 1, 0; (289), 3, 1, 0; (440), 3, 1, 0; (469), 3, 1, 0; (523),  
3, 1, 0; (638), 3, 1, 0; (680), 3, 1, 0; (705), 2, 1, 0; (833), 3, 1, 0; (1011), 3, 1, 0; (1058), 3, 1,  
0; (1297), 7, 2, 8; (1423), 3, 1, 0; (1499), 3, 1, 0; (1545), 3, 1, 0; (1600), 3, 1, 0; (1684), 7, 2, 3;  
(1813), 2, 1, 0; (1953), 3, 1, 0; (2014), 3, 1, 0; (2085), 2, 1, 0; (2114), 3, 1, 0; (2207), 2, 1, 0; (2461),  
3, 1, 0; (2581), 2, 1, 0; (2627), 3, 1, 0; (2635), 5, 1, 0; (2736), 2, 1, 0; (2793), 3, 1, 0; (2824), 2,  
1, 0; (2934), 3, 1, 0; (2944), 2, 1, 0; (2996), 3, 1, 0; (3008), 2, 1, 0; (3727), 3, 1, 0; (3739), 3, 1,  
0; (3816), 2, 1, 0; (4223), 3, 1, 0; (4273), 3, 1, 0; (4585), 6, 2, 7; (4630), 3, 1, 0; (4807), 2, 1, 0;  
(4892), 2, 1, 0; (4918), 3, 1, 0; (5119), 4, 2, 7; (5263), 2, 1, 0; (5342), 2, 1, 0; (5433), 3, 1, 0; (5643),  
2, 1, 0; (5893), 2, 1, 0; (6151), 2, 1, 0; (6303), 3, 1, 0; (6360), 2, 1, 0; (6483), 2, 1, 0; (6747), 2,  
1, 0; (6873), 2, 1, 0; (6911), 3, 1, 0; (7033), 2, 1, 0; (7047), 2, 1, 0; (7097), 3, 1, 0; (7243), 2, 1,  
0; (7329), 2, 1, 0; (7468), 3, 1, 0; (8118), 2, 1, 0; (8163), 2, 1, 0; (8274), 2, 1, 0; (8381), 5, 2,  
10; (8480), 3, 1, 0; (8548), 2, 1, 0; (8591), 2, 1, 0; (8824), 2, 1, 0; (9402), 2, 1, 0; (9992), 2, 1, 0;  
(10198), 2, 1, 0; (10398), 3, 1, 0; (10580), 4, 1, 0; (10677), 2, 1, 0; (10729), 2, 1, 0; (10822), 2, 1, 0;  
(10825), 11, 3, 7; (10832), 2, 1, 0; (10911), 2, 1, 0; (10921), 4, 2, 2; (11067), 2, 1, 0; (11179), 2, 1,  
0; (11268), 3, 1, 0; (11413), 3, 1, 0; (16351), 6, 2, 8; (16450), 3, 1, 0; (16649), 3, 1, 0; (16652), 3, 1,  
0; (16779), 2, 1, 0; (16784), 3, 1, 0; (16861), 3, 1, 0; (16866), 7, 3, 3; (16892), 3, 1, 0; (16924), 4,  
2, 1; (17043), 2, 1, 0; (17051), 3, 1, 0; (17105), 7, 3, 3; [804, 228, 26\*, 2000/08/30–2000/10/04]

### 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

2000 EZ<sub>148</sub>, 2, 1, 0; 2000 NX<sub>3</sub>, 3, 1, 0; 2000 ON, 3, 1, 0; 2000 QV<sub>114</sub>, 3, 1, 0; 2000 SP<sub>43</sub>, 2, 1, 0;  
(2245), 3, 1, 0; (16639), 3, 1, 0; [19, 7, 0\*, 2000/09/20–2000/10/03]

### 327 Peking Observatory, Xinglong Station

J. Zhu, Peking Astronomical Observatory, Chinese Academy of Sciences,  
Zhongguancun, Peking 100101, Peoples Republic of China  
[zj@bac.pku.edu.cn]

Observers J. Zhu, X. Zhou, X. M. Teng, C. H. Liu, X. Y. Li

Measurers X. Y. Li, X. M. Teng, C. H. Liu, J. Zhu

0.60-m Schmidt + CCD

1989 TO<sub>14</sub>, 3, 1, 0; 1989 TB<sub>16</sub>, 3, 1, 0; 1993 VR<sub>1</sub>, 3, 1, 0; 1993 XZ, 3, 1, 0; 1996 AX<sub>2</sub>, 4, 1, 0;  
1996 BG<sub>17</sub>, 3, 1, 0; 1996 JN<sub>1</sub>, 3, 1, 0; 1996 TL<sub>7</sub>, 3, 1, 0; 1996 VX<sub>37</sub>, 3, 1, 0; 1996 VC<sub>39</sub>, 3, 1, 0;  
1996 WV<sub>2</sub>, 3, 1, 0; 1997 WD<sub>22</sub>, 6, 2, 12; 1997 WF<sub>32</sub>, 6, 2, 22; 1997 WR<sub>33</sub>, 6, 2, 31; 1998 AU<sub>6</sub>, 3,  
1, 0; 1998 CC, 3, 1, 0; 1998 CE, 3, 1, 0; 1998 DQ<sub>20</sub>, 3, 1, 0; 1998 EW<sub>7</sub>, 3, 1, 0; 1998 EW<sub>9</sub>, 3, 1, 0;  
1998 EA<sub>11</sub>, 3, 1, 0; 1998 FR<sub>12</sub>, 3, 1, 0; 1998 FS<sub>12</sub>, 3, 1, 0; 1998 FB<sub>30</sub>, 3, 1, 0; 1998 FO<sub>37</sub>, 3, 1, 0;  
1998 FV<sub>120</sub>, 3, 1, 0; 1998 FJ<sub>122</sub>, 4, 1, 0; 1998 FD<sub>146</sub>, 6, 2, 2; 1998 HU<sub>92</sub>, 4, 1, 0; 1998 HP<sub>145</sub>, 3,  
1, 0; 1998 QJ<sub>42</sub>, 3, 1, 0; 1998 SP<sub>51</sub>, 9, 3, 30; 1998 SD<sub>156</sub>, 3, 1, 0; 1998 SR<sub>156</sub>, 3, 1, 0; 1998 SC<sub>157</sub>,  
3, 1, 0; 1998 TA<sub>19</sub>, 3, 1, 0; 1998 VR<sub>14</sub>, 3, 1, 0; 1998 WB<sub>23</sub>, 3, 1, 0; 1998 WF<sub>32</sub>, 3, 1, 0; 1998 XB<sub>1</sub>,  
3, 1, 0; 1998 YQ, 3, 1, 0; 1999 CN<sub>53</sub>, 3, 1, 0; 1999 FG<sub>28</sub>, 3, 1, 0; 1999 GM<sub>9</sub>, 3, 1, 0; 1999 GE<sub>17</sub>, 4,  
1, 0; 1999 JF<sub>6</sub>, 3, 1, 0; 1999 JY<sub>21</sub>, 3, 1, 0; 1999 JT<sub>28</sub>, 3, 1, 0; 1999 JB<sub>40</sub>, 4, 1, 0; 1999 JG<sub>100</sub>, 4,  
1, 0; 1999 RO<sub>2</sub>, 3, 1, 0; 1999 RF<sub>73</sub>, 2, 1, 0; 1999 RN<sub>157</sub>, 4, 1, 0; 1999 RG<sub>173</sub>, 4, 1, 0; 1999 RP<sub>182</sub>,  
3, 1, 0; 1999 RQ<sub>246</sub>, 3, 1, 0; 2000 OE<sub>32</sub>, 3, 1, 0; 2000 QW<sub>89</sub>, 6, 2, 15; 2000 QS<sub>99</sub>, 3, 1, 0;  
2000 QW<sub>104</sub>, 3, 1, 0; 2000 QT<sub>116</sub>, 3, 1, 0; 2000 QT<sub>123</sub>, 3, 1, 0; 2000 QN<sub>132</sub>, 3, 1, 0; 2000 QU<sub>168</sub>,  
12, 3, 52; 2000 QD<sub>190</sub>, 6, 2, 13; 2000 QY<sub>202</sub>, 3, 1, 0; 2000 QA<sub>203</sub>, 3, 1, 0; 2000 QL<sub>207</sub>, 3, 1, 0;  
2000 QG<sub>211</sub>, 3, 1, 0; 2000 QN<sub>219</sub>, 4, 1, 0; 2000 QK<sub>227</sub>, 3, 1, 0; 2000 RW<sub>25</sub>, 4, 1, 0; 2000 RV<sub>26</sub>, 3,  
1, 0; 2000 RT<sub>28</sub>, 3, 1, 0; 2000 RW<sub>60</sub>, 3, 1, 0; 2000 RZ<sub>65</sub>, 3, 1, 0; 2000 RD<sub>68</sub>, 3, 1, 0; 2000 RX<sub>68</sub>,  
4, 1, 0; 2000 RV<sub>70</sub>, 3, 1, 0; 2000 RT<sub>74</sub>, 3, 1, 0; 2000 RD<sub>92</sub>, 4, 1, 0; 2000 RT<sub>94</sub>, 4, 1, 0; 2222 P-L,  
3, 1, 0; 4564 P-L, 3, 1, 0; [297, 84, 0\*, 1995/09/17–1998/12/13]

### 344 Bohyunsan Optical Astronomy Observatory

M.-Y. Chun, Korea Astronomy Observatory, San 36-1, Wha-am Dong, Yu-sung  
Gu, Daejeon 305-348, Korea [mychun@boao.re.kr]

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

Measurer M.-Y. Chun

1.8-m  $f/8$  reflector + CCD  
GSC, USNO-A2.0

2000 PD<sub>20</sub>, 3, 1, 0; (973), 3, 1, 0; (1011), 3, 1, 0; (1545), 2, 1, 0; (2339), 3, 1, 0; (2884), 3, 1, 0;  
(10760), 3, 1, 0; (17033), 3, 1, 0; [23, 8, 0\*, 2000/09/26–2000/09/30]

### 345 Sobaeksan Optical Astronomy Observatory

S.-L. Kim, Korea Astronomy Observatory (Sobaeksan), 61-1 Whaam-dong,

Yusong-gu, Taejeon, 305-348, Korea [slkim@kao.re.kr]

Observers J.-H. Youn, S.-L. Kim

0.61-m reflector + CCD

USNO-A2.0

2000 SE<sub>45</sub>, 5, 1, 0; 2000 SY<sub>162</sub>, 4, 1, 0; 2000 TF<sub>2</sub>, 4, 1, 0; [13, 3, 0\*, 2000/09/29–2000/10/04]

### 347 Utsunomiya-Imaizumi

M. Suzuki, 301 Mezon-do-Daihachi, 1571 Imaizumi-cho, Utsunomiya, Tochigi-ken

321-0962, Japan [msuzuki@mb.infoweb.ne.jp]

0.20-m  $f/9.0$  Schmidt-Cassegrain + CCD

GSC-ACT

2000 DP<sub>107</sub>, 9, 2, 11; (4179), 3, 1, 0; [12, 2, 0\*, 2000/09/26–2000/10/07]

### 348 Ayabe

N. Otuki, 21-8 Kyuta, Sato-Cho, Ayabe, Kyoto-fu, 623-0005 Japan

[oomoon@crocus.ocn.ne.jp]

0.28-m  $f/5.5$  Schmidt-Cassegrain + CCD

GSC

2000 DP<sub>107</sub>, 2, 1, 0; 2000 OG<sub>44</sub>, 2, 1, 0; 2000 SV<sub>20</sub>, 2, 1, 0; (17274), 4, 2, 3; [10, 4, 0\*,  
2000/09/17–2000/10/04]

### 349 Ageo

K. Kadota, 77-1-3-12-204, Koshikiya, Ageo, Saitama-ken, 362-0064 Japan [kenic-  
k@astroarts.co.jp]

0.18-m  $f/5.5$  reflector + CCD

GSC-ACT

2000 NM, 7, 2, 2; 2000 OG<sub>44</sub>, 3, 1, 0; 2000 QW<sub>7</sub>, 6, 2, 9; 2000 RD<sub>53</sub>, 22, 5, 12; 2000 SY<sub>2</sub>, 5, 1, 0; (2100), 4, 1, 0; (4486), 4, 1, 0; (17274), 4, 1, 0; [55, 8, 0\*, 2000/09/15–2000/09/29]

### 352 Konan

M. Hotta, Kibougaoka 2-5-3, Konan-cho, Koka-gun, Shiga 520-3333, Japan

[mhotta@mx.biwa.or.jp]

0.28-m  $f/5.0$  reflector + CCD

GSC

(17274), 2, 1, 0; [2, 1, 0\*, 2000/10/04]

### 360 Kuma Kogen Astronomical Observatory

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

Japan [a-nakamu@mx2.nisiq.net]

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

GSC-ACT, USNO-A2.0

1996 OB<sub>1</sub>, 3, 1, 0; 1998 RO<sub>1</sub>, 3, 1, 0; 1998 UO<sub>1</sub>, 3, 1, 0; 1999 JY<sub>7</sub>, 2, 1, 0; 1999 LM<sub>1</sub>, 6, 2, 1; 2000 DG<sub>8</sub>, 3, 1, 0; 2000 DM<sub>8</sub>, 3, 1, 0; 2000 DP<sub>107</sub>, 7, 2, 14; 2000 LM, 3, 1, 0; 2000 NL<sub>10</sub>, 3, 1, 0; 2000 OG<sub>8</sub>, 3, 1, 0; 2000 OJ<sub>8</sub>, 3, 1, 0; 2000 PD<sub>3</sub>, 3, 1, 0; 2000 PG<sub>3</sub>, 3, 1, 0; 2000 PP<sub>4</sub>, 3, 1, 0; 2000 PF<sub>5</sub>, 3, 1, 0; 2000 PN<sub>9</sub>, 3, 1, 0; 2000 QL<sub>7</sub>, 3, 1, 0; 2000 QT<sub>7</sub>, 3, 1, 0; 2000 QW<sub>7</sub>, 3, 1, 0; 2000 QW<sub>69</sub>, 3, 1, 0; 2000 QY<sub>69</sub>, 3, 1, 0; 2000 QJ<sub>130</sub>, 3, 1, 0; 2000 QO<sub>130</sub>, 3, 1, 0; 2000 RS<sub>11</sub>, 3, 1, 0; 2000 RN<sub>12</sub>, 3, 1, 0; 2000 RW<sub>37</sub>, 3, 1, 0; 2000 SF<sub>8</sub>, 3, 1, 0; 2000 SG<sub>8</sub>, 3, 1, 0; 2000 SH<sub>8</sub>, 3, 1, 0; 2000 SM<sub>10</sub>, 7, 2, 1; 2000 SO<sub>10</sub>, 3, 1, 0; 2000 SV<sub>20</sub>, 4, 1, 0; 2000 ST<sub>42</sub> \*, 9, 3, 9; 2000 SP<sub>43</sub>, 3, 1, 0; [122, 35, 1\*, 2000/09/17–2000/10/05]

### 372 Geisei

T. Seki, Kamimachi 2-9-35, Kochi-Shi, Kochi-Ken 780, Japan

0.60-m  $f/3.5$  reflector

GSC

1986 QW, 2, 1, 0; [2, 1, 0\*, 1993/11/13]

### 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 RR<sub>53</sub>, 3, 1, 0; [3, 1, 0\*, 2000/09/20]

### 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

1998 AF, 2, 1, 0; 2000 SV<sub>20</sub>, 3, 1, 0; [5, 2, 0\*, 2000/08/05–2000/10/05]

### 411 Oizumi

T. Kobayashi, 1717-2 Shimo-Koizumi, Oizumi-machi, Ora-gun, Gunma-ken, 370-

0515 Japan [kobataka@sannet.ne.jp]

0.25-m  $f/4.4$  reflector + CCD, 0.41-m  $f/4.3$  reflector + CCD

GSC

1994 CC<sub>1</sub>, 2, 1, 0; [2, 1, 0\*, 1997/12/03]

### 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 M. Hartley, 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

1995 UQ<sub>8</sub>, 2, 1, 0; 1997 UH<sub>9</sub>, 6, 2, 1; 1998 SY<sub>16</sub>, 3, 1, 0; 1998 YQ<sub>11</sub>, 7, 2, 1; 1999 CJ<sub>10</sub>, 2, 1, 0; 2000 LY<sub>14</sub>, 2, 1, 0; 2000 MS<sub>6</sub>, 3, 1, 0; 2000 ND<sub>10</sub>, 1, 1, 0; 2000 NE<sub>10</sub>, 3, 1, 0; 2000 OH<sub>1</sub>, 3, 1, 0; 2000 OH<sub>8</sub>, 3, 1, 0; 2000 OJ<sub>8</sub>, 8, 2, 2; 2000 OK<sub>8</sub>, 3, 1, 0; 2000 OY<sub>21</sub>, 5, 2, 1; 2000 OM<sub>52</sub>, 2, 1, 0; 2000 PD<sub>3</sub>, 7, 3, 2; 2000 PG<sub>3</sub>, 6, 2, 1; 2000 PJ<sub>5</sub>, 4, 2, 2; 2000 PA<sub>9</sub>, 2, 1, 0; 2000 PD<sub>9</sub>, 2, 1, 0; 2000 PE<sub>9</sub>, 2, 1, 0; 2000 PF<sub>9</sub>, 2, 1, 0; 2000 PG<sub>9</sub>, 2, 1, 0; 2000 PH<sub>9</sub>, 2, 1, 0; 2000 PL<sub>9</sub>, 2, 1, 0; 2000 PM<sub>9</sub>, 2, 1, 0; 2000 QT<sub>7</sub>, 3, 1, 0; 2000 QV<sub>7</sub>, 3, 1, 0; 2000 QW<sub>69</sub>, 6, 2, 1; 2000 QY<sub>69</sub>, 5, 2, 1; 2000 QJ<sub>130</sub>, 6, 2, 1; 2000 QK<sub>130</sub>, 3, 1, 0; 2000 QL<sub>130</sub>, 6, 2, 1; 2000 QN<sub>130</sub>, 5, 2, 1; 2000 QO<sub>130</sub>, 5, 2, 1; 2000 QF<sub>148</sub>, 3, 1, 0; 2000 QV<sub>148</sub>, 2, 1, 0; 2000 QW<sub>148</sub>, 3, 1, 0; 2000 QX<sub>148</sub>, 2, 1, 0; 2000 QY<sub>148</sub>, 2, 1, 0; 2000 RB<sub>9</sub>, 6, 2, 1; 2000 RS<sub>11</sub>, 6, 2, 1; 2000 RJ<sub>12</sub>, 3, 1, 0; 2000 RM<sub>12</sub>, 3, 1, 0; 2000 RN<sub>12</sub>, 9, 3, 2; 2000 RV<sub>37</sub>, 2, 1, 0; 2000 RW<sub>37</sub>, 3, 1, 0; 2000 RD<sub>52</sub>, 5, 2, 1; 2000 RE<sub>52</sub>, 3, 1, 0; 2000 RH<sub>60</sub>, 3, 1, 0; 2000 RK<sub>60</sub>, 5, 2, 1; 2000 RT<sub>68</sub>, 2, 1, 0; 2000 RL<sub>77</sub>, 5, 2, 1; 2000 RZ<sub>89</sub>, 3, 1, 0; 2000 SC<sub>1</sub> \*, 7, 2, 1; 2000 SD<sub>1</sub> \*, 7, 2, 1; 2000 SX<sub>2</sub>, 2, 1, 0; 2000 SD<sub>8</sub>, 2, 1, 0; 2000 SE<sub>8</sub>, 3, 1, 0; 2000 SQ<sub>44</sub> \*, 5, 3, 2; (3753), 3, 1, 0; [227, 61, 3\*, 1985/09/15–2000/09/20]

### 423 North Ryde

S. G. McAndrew, 2/32 Twin Rd, North Ryde, NSW 2113, Australia

[sgmcandrew@ozemail.com.au]

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

GSC

1999 DU<sub>6</sub>, 2, 1, 0; 1999 FG<sub>9</sub>, 5, 2, 2; 1999 FG<sub>32</sub>, 4, 2, 2; 1999 JF<sub>70</sub>, 4, 2, 1; 2000 LD<sub>10</sub>, 6, 3, 15; 2000 SY<sub>2</sub>, 11, 3, 8; [32, 6, 0\*, 2000/09/16–2000/10/06]

### 428 Reedy Creek

J. Broughton, 18 Branch Crescent, Reedy Creek, QLD 4228, Australia

[reedyckrk@one.net.au]

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

GSC-ACT

1999 MG, 3, 2, 18; 2000 OL, 2, 1, 0; 2000 OO, 2, 1, 0; 2000 OS, 2, 1, 0; 2000 OT, 1, 1, 0; 2000 OV, 2, 1, 0; 2000 OW, 1, 1, 0; 2000 OZ<sub>2</sub>, 2, 1, 0; 2000 OO<sub>9</sub>, 1, 1, 0; 2000 PZ<sub>5</sub>, 2, 1, 0; 2000 PV<sub>8</sub>, 2, 1, 0; 2000 QW<sub>25</sub>, 4, 2, 1; 2000 QC<sub>26</sub>, 2, 1, 0; 2000 QF<sub>35</sub>, 2, 1, 0; 2000 QG<sub>35</sub>, 1, 1, 0; 2000 QZ<sub>68</sub>, 2, 1, 0; 2000 QB<sub>69</sub>, 1, 1, 0; 2000 QC<sub>69</sub>, 2, 1, 0; 2000 QE<sub>71</sub>, 3, 2, 6; 2000 QW<sub>129</sub>, 2, 1, 0; 2000 SV<sub>2</sub>, 2, 1, 0; 2000 SY<sub>2</sub>, 6, 2, 6; 2000 SB<sub>7</sub> \*, 10, 5, 11; 2000 SB<sub>8</sub>, 2, 1, 0; 2000 SC<sub>8</sub>, 3, 1, 0; (8378), 2, 1, 0; [64, 26, 1\*, 2000/09/05–2000/10/03]

### 461 JATE Asteroid Survey, Piskéstető 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 VB<sub>160</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 DP<sub>107</sub>, 14, 2, 1; 2000 SY<sub>2</sub>, 4, 1, 0; [18, 2, 0\*, 2000/09/21–2000/09/22]

### 470 Ceccano

G. Masi, Via Madonna de Loco 47, I-03023 Ceccano (FR), Italy

[gianmasi@fr.flashnet.it]

Observers G. Masi, A. Cassetti

0.28-m  $f/3.3$  Schmidt-Cassegrain + CCD

USNO-A2.0

2000 QN<sub>10</sub>, 2, 1, 0; [2, 1, 0\*, 2000/08/06]

**511 Haute Provence**

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

Observers J. E. Arlot, T. Irmambetova

Measurer N. Baron

1.20-m  $f/6.0$  reflector + CCD

USNO-A2.0

1998 HH<sub>86</sub>, 5, 1, 0; 1999 TT<sub>5</sub>, 6, 1, 0; 1999 TH<sub>152</sub>, 18, 2, 1; 1999 TQ<sub>228</sub>, 41, 5, 4; 2000 QM<sub>226</sub> \*, 9, 2, 1; 2000 QJ<sub>232</sub> \*, 7, 3, 3; [86, 6, 2\*, 1999/11/09–2000/08/28]

**517 Geneva**

R. Behrend, Geneva Observatory, CH-1290 Sauverny, Switzerland

[Raoul.Behrend@Obs.UniGe.ch]

0.20-m  $f/10.0$  reflector + CCD

Tycho-2

1999 VZ<sub>52</sub>, 3, 1, 0; (192), 8, 1, 0; (412), 3, 1, 0; (467), 7, 1, 0; (1182), 4, 1, 0; (1468), 4, 1, 0; (1573), 6, 1, 0; (13655), 2, 1, 0; [37, 8, 0\*, 1999/12/16–2000/09/19]

**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

2000 RJ<sub>12</sub>, 2, 1, 0; 2000 RD<sub>52</sub>, 3, 1, 0; 2000 SL, 2, 1, 0; 2000 SJ<sub>8</sub>, 3, 1, 0; 2000 SM<sub>10</sub>, 21, 4, 5; 2000 SR<sub>43</sub>, 4, 1, 0; 2000 SB<sub>45</sub>, 4, 1, 0; [39, 7, 0\*, 2000/09/24–2000/09/30]

**552 San Vittore**

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

[ermes.colombini@iol.it]

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

0.45-m  $f/3.3$  reflector + CCD

GSC

1998 DA<sub>3</sub>, 3, 1, 0; 1999 XC<sub>119</sub>, 2, 1, 0; 2000 QT<sub>121</sub>, 6, 2, 1; 2000 RC<sub>8</sub>, 4, 1, 0; 2000 SX<sub>20</sub> \*, 9, 3, 4; [24, 5, 1\*, 1996/02/16–2000/09/27]

**557 Ondřejov**

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

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

0.65-m  $f/3.6$  reflector + CCD

USNO-SA2.0

1989 UP<sub>4</sub>, 3, 1, 0; 1995 QP, 2, 1, 0; 1995 SO, 10, 3, 4; 1996 AY<sub>1</sub>, 2, 1, 0; 1996 RD<sub>14</sub>, 7, 2, 1; 1997 AU<sub>5</sub>, 4, 1, 0; 1997 JD, 2, 1, 0; 1997 SB<sub>2</sub>, 3, 1, 0; 1997 UO<sub>9</sub>, 3, 1, 0; 1997 WY<sub>27</sub>, 2, 1, 0; 1998 DG<sub>20</sub>, 1, 1, 0; 1998 FD<sub>2</sub>, 4, 2, 2; 1998 FE<sub>3</sub>, 2, 1, 0; 1998 FF<sub>3</sub>, 3, 2, 1; 1998 FE<sub>73</sub>, 3, 1, 0; 1998 UO<sub>1</sub>, 5, 1, 0; 1999 GM<sub>35</sub>, 7, 2, 1; 1999 HL, 2, 1, 0; 1999 OQ, 2, 1, 0; 1999 PW<sub>4</sub>, 2, 1, 0; 1999 QA<sub>2</sub>, 2, 1, 0; 1999 RS, 2, 1, 0; 1999 RG<sub>1</sub>, 2, 1, 0; 1999 SW<sub>2</sub>, 3, 1, 0; 2000 NU<sub>2</sub>, 2, 1, 0; 2000 NF<sub>5</sub>, 24, 6, 6; 2000 NN<sub>5</sub>, 3, 1, 0; 2000 NV<sub>12</sub>, 2, 1, 0; 2000 OG<sub>8</sub>, 10, 2, 6; 2000 PQ<sub>8</sub>, 2, 1, 0; 2000 PU<sub>9</sub>, 3, 1, 0; 2000 PP<sub>26</sub>, 3, 1, 0; 2000 QO<sub>1</sub>, 2, 1, 0; 2000 QL<sub>7</sub>, 4, 1, 0; 2000 QW<sub>7</sub>, 16, 4, 4; 2000 QK<sub>9</sub>, 3, 1, 0; 2000 QO<sub>9</sub>, 3, 1, 0; 2000 QJ<sub>24</sub>, 2, 1, 0; 2000 QK<sub>26</sub>, 2, 1, 0; 2000 QC<sub>35</sub>, 3, 1, 0; 2000 QD<sub>35</sub>, 3, 1, 0; 2000 QV<sub>54</sub>, 2, 1, 0; 2000 QJ<sub>98</sub>, 4, 1, 0; 2000 QT<sub>109</sub>, 5, 2, 4; 2000 QK<sub>114</sub>, 4, 1, 0; 2000 QN<sub>130</sub>, 3, 1, 0; 2000 RM<sub>12</sub>, 4, 1, 0; 2000 RE<sub>19</sub>, 4, 1, 0; 2000 RJ<sub>34</sub>, 4, 1, 0; 2000 RN<sub>50</sub>, 9, 3, 2; 2000 RT<sub>50</sub>, 4, 1, 0; 2000 RP<sub>52</sub>, 3, 1, 0; 2000 RY<sub>59</sub>, 3, 1, 0; 2000 RQ<sub>77</sub>, 2, 1, 0; 2000 RA<sub>79</sub>, 9, 2, 1; 2000 RB<sub>79</sub>, 2, 1, 0; 2000 RC<sub>79</sub>, 3, 1, 0; 2000 RC<sub>103</sub>, 6, 2, 1; 2000 SE, 5, 1, 0; 2000 SH \*, 9, 4, 8; 2000 SL, 4, 1, 0; 2000 SE<sub>8</sub>, 3, 1, 0; 2000 SF<sub>8</sub>, 3, 1, 0; 2000 SG<sub>8</sub>, 5, 2, 1; 2000 SJ<sub>8</sub>, 6, 2, 1; 2000 SL<sub>10</sub>, 10, 3, 2; 2000 SM<sub>10</sub>, 13, 3, 2; 2000 SN<sub>10</sub>, 11, 3, 2; 2000 SO<sub>10</sub>, 6, 2, 1; 2000 SR<sub>20</sub>, 9, 3, 5; 2000 ST<sub>20</sub>, 13, 4, 3; 2000 SV<sub>20</sub>, 10, 2, 1; 2000 SP<sub>23</sub>, 5, 2, 3; 2000 SP<sub>24</sub> \*, 11, 3, 6; 2000 SD<sub>32</sub>, 2, 1, 0; 2000 SG<sub>42</sub> \*, 12, 4, 4; 2000 SH<sub>42</sub> \*, 11, 3, 4; 2000 SN<sub>42</sub>, 3, 1, 0; 2000 SO<sub>42</sub>, 3, 1, 0;

2000 SP<sub>42</sub>, 5, 2, 2; 2000 SQ<sub>42</sub>, 3, 1, 0; 2000 SR<sub>42</sub>, 2, 1, 0; 2000 SP<sub>43</sub>, 6, 2, 1; 2000 SQ<sub>43</sub>, 4, 1, 0; 2000 SR<sub>43</sub>, 8, 2, 1; 2000 SS<sub>43</sub>, 3, 1, 0; 2000 SX<sub>44</sub> \*, 7, 2, 2; 2000 SY<sub>44</sub> \*, 7, 2, 2; 2000 SZ<sub>44</sub>, 3, 1, 0; 2000 SA<sub>45</sub>, 3, 1, 0; 2000 SB<sub>45</sub>, 3, 1, 0; 2000 SC<sub>45</sub>, 2, 1, 0; 2000 SE<sub>45</sub>, 2, 1, 0; 2000 SD<sub>59</sub>, 3, 1, 0; 2000 SF<sub>60</sub>, 7, 2, 1; 2000 SE<sub>99</sub>, 3, 1, 0; 2000 ST<sub>101</sub>, 2, 1, 0; 2000 SY<sub>162</sub>, 3, 1, 0; 2000 SA<sub>163</sub> \*, 5, 2, 3; 2000 SC<sub>163</sub> \*, 8, 3, 2; 2000 SD<sub>163</sub> \*, 5, 2, 1; 2000 SE<sub>163</sub> \*, 6, 2, 1; 2000 SF<sub>163</sub> \*, 5, 2, 1; 2000 SG<sub>163</sub> \*, 4, 2, 1; 2000 SH<sub>163</sub> \*, 8, 2, 1; 2000 SJ<sub>163</sub> \*, 8, 2, 1; 2000 SK<sub>163</sub> \*, 4, 2, 1; 2000 SL<sub>163</sub> \*, 7, 2, 1; 2000 SM<sub>163</sub> \*, 5, 2, 1; 2000 SN<sub>163</sub> \*, 5, 2, 1; 2000 SO<sub>163</sub> \*, 6, 2, 1; 2000 SP<sub>231</sub>, 3, 1, 0; 2000 SF<sub>235</sub>, 2, 1, 0; 2000 TG<sub>2</sub>, 4, 1, 0; 5056 T-2, 3, 1, 0; (9454), 3, 1, 0; (11149), 4, 1, 0; [561, 117, 19\*, 1997/03/12–2000/10/05]

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Observers L. Lai, I. Rocchetti, G. Vesentini

0.40-m  $f/3.5$  reflector + CCD

GSC

1990 SZ<sub>5</sub>, 3, 1, 0; 1995 KF<sub>4</sub>, 5, 2, 1; (10187), 3, 1, 0; (14868), 2, 1, 0; (15302), 3, 1, 0; (15694), 4, 2, 1; [20, 6, 0\*, 2000/06/08–2000/07/06]

**561 Piskésető 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

1988 RY<sub>10</sub>, 3, 1, 0; 1993 TK<sub>21</sub>, 4, 1, 0; 1998 FM<sub>135</sub>, 3, 1, 0; 1999 FM<sub>26</sub>, 3, 1, 0; 1999 GB, 3, 1, 0; 2000 QX, 3, 1, 0; 2000 QD<sub>21</sub>, 3, 1, 0; 6058 P-L, 3, 1, 0; (5342), 3, 1, 0; (16472), 3, 1, 0; (16508), 3, 1, 0; (16634), 3, 1, 0; (16916), 3, 1, 0; (17071), 3, 1, 0; (17305), 3, 1, 0; [46, 15, 0\*, 1998/01/05–2000/08/22]

**566 Haleakala-NEAT/GEODSS**

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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

1971 UJ<sub>1</sub>, 3, 1, 0; 1972 GJ, 3, 1, 0; 1980 FL<sub>3</sub>, 3, 1, 0; 1981 EM<sub>11</sub>, 3, 1, 0; 1986 SH, 3, 1, 0; 1986 WP<sub>2</sub>, 3, 1, 0; 1988 CQ<sub>5</sub>, 3, 1, 0; 1989 UJ<sub>7</sub>, 3, 1, 0; 1990 EH<sub>1</sub>, 3, 1, 0; 1994 AO<sub>1</sub>, 3, 1, 0; 1994 AA<sub>4</sub>, 3, 1, 0; 1994 ES<sub>3</sub>, 3, 1, 0; 1994 PZ<sub>13</sub>, 3, 1, 0; 1995 FQ<sub>6</sub>, 6, 2, 61; 1996 HB<sub>23</sub>, 3, 1, 0; 1996 HK<sub>24</sub>, 3, 1, 0; 1996 KW<sub>7</sub>, 3, 1, 0; 1996 NC<sub>2</sub>, 3, 1, 0; 1996 NJ<sub>2</sub>, 3, 1, 0; 1996 OS<sub>1</sub>, 6, 1, 0; 1996 QS<sub>3</sub>, 3, 1, 0; 1996 RO<sub>2</sub>, 3, 1, 0; 1996 RH<sub>17</sub>, 3, 1, 0; 1996 TJ<sub>39</sub>, 3, 1, 0; 1996 TU<sub>61</sub>, 3, 1, 0; 1996 WQ<sub>2</sub>, 3, 1, 0; 1996 XV<sub>32</sub>, 3, 1, 0; 1996 XY<sub>34</sub>, 3, 1, 0; 1997 AU<sub>5</sub>, 3, 1, 0; 1997 EX<sub>32</sub>, 3, 1, 0; 1997 ED<sub>34</sub>, 3, 1, 0; 1997 EF<sub>44</sub>, 3, 1, 0; 1997 TD<sub>6</sub>, 3, 1, 0; 1997 VJ<sub>5</sub>, 3, 1, 0; 1997 WR<sub>22</sub>, 3, 1, 0; 1997 WO<sub>57</sub>, 3, 1, 0; 1997 XC<sub>5</sub>, 3, 1, 0; 1997 XM<sub>8</sub>, 3, 1, 0; 1997 XW<sub>11</sub>, 3, 1, 0; 1997 YW<sub>18</sub>, 3, 1, 0; 1998 AF<sub>5</sub>, 3, 1, 0; 1998 AC<sub>6</sub>, 3, 1, 0; 1998 BT<sub>11</sub>, 6, 2, 27; 1998 BK<sub>24</sub>, 3, 1, 0; 1998 BW<sub>40</sub>, 3, 1, 0; 1998 BM<sub>48</sub>, 3, 1, 0; 1998 CZ<sub>2</sub>, 3, 1, 0; 1998 CM<sub>3</sub>, 3, 1, 0; 1998 CZ<sub>4</sub>, 3, 1, 0; 1998 CC<sub>5</sub>, 3, 1, 0; 1998 DJ<sub>3</sub>, 3, 1, 0; 1998 DS<sub>11</sub>, 3, 1, 0; 1998 DO<sub>20</sub>, 3, 1, 0; 1998 DV<sub>27</sub>, 3, 1, 0; 1998 DX<sub>29</sub>, 3, 1, 0; 1998 DB<sub>30</sub>, 3, 1, 0; 1998 DW<sub>32</sub>, 3, 1, 0; 1998 DX<sub>32</sub>, 3, 1, 0; 1998 DW<sub>37</sub>, 3, 1, 0; 1998 EM<sub>11</sub>, 3, 1, 0; 1998 ES<sub>11</sub>, 3, 1, 0; 1998 EC<sub>14</sub>, 6, 1, 0; 1998 EN<sub>14</sub>, 3, 1, 0; 1998 EH<sub>15</sub>, 3, 1, 0; 1998 EG<sub>18</sub>, 3, 1, 0; 1998 EP<sub>18</sub>, 3, 1, 0; 1998 EE<sub>19</sub>, 3, 1, 0; 1998 FR<sub>3</sub>, 3, 1, 0; 1998 FL<sub>16</sub>, 3, 1, 0; 1998 FN<sub>16</sub>, 3, 1, 0; 1998 FY<sub>16</sub>, 6, 2, 29; 1998 FY<sub>19</sub>, 3, 1, 0; 1998 FQ<sub>26</sub>, 6, 2, 28; 1998 FJ<sub>27</sub>, 3, 1, 0; 1998 FR<sub>28</sub>, 6, 2, 28; 1998 FP<sub>29</sub>, 3, 1, 0; 1998 FV<sub>29</sub>, 3, 1, 0; 1998 FB<sub>30</sub>, 6, 1, 0; 1998 FC<sub>31</sub>, 3, 1, 0; 1998 FX<sub>31</sub>, 3, 1, 0; 1998 FP<sub>36</sub>, 3, 1, 0; 1998 FC<sub>37</sub>, 3, 1, 0; 1998 FO<sub>37</sub>, 3, 1, 0; 1998 FX<sub>37</sub>, 3, 1, 0; 1998 FY<sub>37</sub>, 3, 1, 0; 1998 FD<sub>40</sub>, 3, 1, 0; 1998 FL<sub>53</sub>, 3, 1, 0; 1998 FW<sub>73</sub>, 3, 1, 0; 1998 FU<sub>74</sub>, 6, 2, 29; 1998 FF<sub>81</sub>, 3, 1, 0; 1998 FD<sub>83</sub>, 3, 1, 0; 1998 FF<sub>84</sub>, 3, 1, 0; 1998 FG<sub>87</sub>, 9, 3, 62; 1998 FS<sub>93</sub>, 6, 2, 61; 1998 FW<sub>93</sub>, 9, 3, 65; 1998 FF<sub>94</sub>, 6, 2, 28; 1998 FO<sub>95</sub>, 3, 1, 0; 1998 FE<sub>96</sub>, 3, 1, 0; 1998 FL<sub>96</sub>, 3, 1, 0; 1998 FQ<sub>100</sub>, 6, 2, 29; 1998 FR<sub>100</sub>, 3, 1, 0; 1998 FJ<sub>102</sub>, 3, 1, 0; 1998 FO<sub>102</sub>, 3, 1, 0; 1998 FP<sub>102</sub>, 3, 1, 0; 1998 FA<sub>103</sub>, 3, 1, 0; 1998 FS<sub>104</sub>, 3, 1, 0; 1998 FY<sub>104</sub>, 3, 1, 0; 1998 FP<sub>107</sub>, 3, 1, 0; 1998 FK<sub>110</sub>, 3, 1, 0; 1998 FZ<sub>110</sub>, 3, 1, 0; 1998 FM<sub>112</sub>, 3, 1, 0; 1998 FM<sub>114</sub>, 3, 1, 0; 1998 FS<sub>114</sub>, 3, 1, 0; 1998 FP<sub>119</sub>, 3, 1, 0; 1998 FR<sub>125</sub>, 3, 1, 0; 1998 FB<sub>130</sub>, 3, 1, 0; 1998 FV<sub>131</sub>, 3, 1, 0; 1998 FU<sub>134</sub>, 3, 1, 0; 1998 FT<sub>137</sub>, 3, 1, 0; 1998 FV<sub>140</sub>, 3, 1, 0; 1998 FL<sub>145</sub>, 3, 1, 0; 1998 FM<sub>145</sub>, 3, 1, 0; 1998 FO<sub>146</sub>, 3, 1, 0; 1998 GO<sub>2</sub>, 3, 1, 0; 1998 GT<sub>3</sub>, 3, 1, 0; 1998 GN<sub>5</sub>, 3, 1, 0; 1998 GW<sub>5</sub>, 9, 3, 58; 1998 HQ<sub>20</sub>, 3, 1, 0; 1998 HC<sub>76</sub>, 3, 1, 0; 1998 HB<sub>120</sub>, 3, 1, 0; 1998 HX<sub>123</sub>, 3, 1,

0; 1998 HC<sub>136</sub>, 3, 1, 0; 1998 HW<sub>136</sub>, 3, 1, 0; 1998 KU<sub>24</sub>, 3, 1, 0; 1998 OW<sub>8</sub>, 3, 1, 0; 1998 QP<sub>10</sub>, 3, 1, 0; 1998 QM<sub>17</sub>, 3, 1, 0; 1998 QW<sub>25</sub>, 3, 1, 0; 1998 QL<sub>46</sub>, 3, 1, 0; 1998 QL<sub>72</sub>, 3, 1, 0; 1998 WF<sub>6</sub>, 3, 1, 0; 1998 XY<sub>65</sub>, 3, 1, 0; 1999 BE<sub>7</sub>, 7, 3, 497; 1999 BL<sub>7</sub>, 3, 1, 0; 1999 CO<sub>9</sub>, 6, 2, 505; 1999 CA<sub>154</sub>, 3, 1, 0; 1999 FT<sub>20</sub>, 3, 1, 0; 1999 GM<sub>9</sub>, 3, 1, 0; 1999 GE<sub>17</sub>, 3, 1, 0; 1999 GD<sub>19</sub>, 6, 2, 27; 1999 GV<sub>30</sub>, 3, 1, 0; 1999 GE<sub>36</sub>, 3, 1, 0; 1999 HC<sub>10</sub>, 3, 1, 0; 1999 JM<sub>7</sub>, 3, 1, 0; 1999 JZ<sub>8</sub>, 3, 1, 0; 1999 JW<sub>9</sub>, 6, 2, 10; 1999 JP<sub>22</sub>, 3, 1, 0; 1999 JX<sub>22</sub>, 6, 2, 32; 1999 JY<sub>22</sub>, 3, 1, 0; 1999 JH<sub>25</sub>, 3, 1, 0; 1999 JJ<sub>32</sub>, 3, 1, 0; 1999 JA<sub>36</sub>, 3, 1, 0; 1999 JW<sub>53</sub>, 3, 1, 0; 1999 JN<sub>55</sub>, 3, 1, 0; 1999 JX<sub>59</sub>, 3, 1, 0; 1999 JK<sub>60</sub>, 3, 1, 0; 1999 JR<sub>64</sub>, 3, 1, 0; 1999 JC<sub>80</sub>, 3, 1, 0; 1999 JG<sub>80</sub>, 6, 2, 31; 1999 JR<sub>81</sub>, 3, 1, 0; 1999 JR<sub>83</sub>, 3, 1, 0; 1999 JG<sub>84</sub>, 3, 1, 0; 1999 JR<sub>84</sub>, 6, 2, 27; 1999 JU<sub>88</sub>, 3, 1, 0; 1999 JJ<sub>89</sub>, 3, 1, 0; 1999 JY<sub>91</sub>, 3, 1, 0; 1999 JZ<sub>91</sub>, 9, 3, 56; 1999 JO<sub>92</sub>, 3, 1, 0; 1999 JU<sub>98</sub>, 3, 1, 0; 1999 JM<sub>108</sub>, 6, 2, 68; 1999 JT<sub>122</sub>, 3, 1, 0; 1999 JM<sub>125</sub>, 3, 1, 0; 1999 LJ<sub>26</sub>, 6, 2, 30; 1999 LD<sub>27</sub>, 9, 2, 27; 1999 NP<sub>17</sub>, 3, 1, 0; 1999 NL<sub>19</sub>, 3, 1, 0; 1999 NW<sub>61</sub>, 3, 1, 0; 1999 RF<sub>48</sub>, 3, 1, 0; 1999 RA<sub>95</sub>, 3, 1, 0; 1999 RQ<sub>246</sub>, 3, 1, 0; 1999 SA<sub>8</sub>, 6, 2, 37; 1999 TS<sub>120</sub>, 3, 1, 0; 1999 TU<sub>143</sub>, 3, 1, 0; 1999 UQ<sub>33</sub>, 3, 1, 0; 1999 VN<sub>192</sub>, 6, 2, 21; 1999 XQ<sub>49</sub>, 3, 1, 0; 1999 XK<sub>104</sub>, 3, 1, 0; 2000 AV<sub>170</sub>, 3, 1, 0; 2000 BQ<sub>27</sub>, 3, 1, 0; 2000 CB<sub>58</sub>, 3, 1, 0; 2000 CC<sub>83</sub>, 3, 1, 0; 2000 CA<sub>84</sub>, 3, 1, 0; 2000 DS<sub>73</sub>, 3, 1, 0; 2000 DH<sub>107</sub>, 3, 1, 0; 2000 OK<sub>6</sub>, 3, 1, 0; 2000 OT<sub>13</sub>, 3, 1, 0; 2000 OX<sub>38</sub>, 3, 1, 0; 2000 OB<sub>50</sub>, 6, 2, 31; 2000 PR<sub>15</sub>, 3, 1, 0; 2000 PN<sub>24</sub>, 3, 1, 0; 2000 PY<sub>25</sub>, 6, 2, 29; 2000 PO<sub>26</sub>, 3, 1, 0; 2000 QW<sub>5</sub>, 3, 1, 0; 2000 QV<sub>7</sub>, 6, 2, 27; 2000 QB<sub>19</sub>, 3, 1, 0; 2000 QJ<sub>24</sub>, 3, 1, 0; 2000 QZ<sub>34</sub>, 6, 1, 0; 2000 QD<sub>41</sub>, 3, 1, 0; 2000 QM<sub>41</sub>, 3, 1, 0; 2000 QL<sub>49</sub>, 3, 1, 0; 2000 QS<sub>50</sub>, 3, 1, 0; 2000 QD<sub>54</sub>, 3, 1, 0; 2000 QJ<sub>68</sub>, 3, 1, 0; 2000 QB<sub>69</sub>, 3, 1, 0; 2000 QM<sub>77</sub>, 3, 1, 0; 2000 QT<sub>79</sub>, 3, 1, 0; 2000 QM<sub>87</sub>, 3, 1, 0; 2000 QS<sub>99</sub>, 6, 2, 32; 2000 QK<sub>101</sub>, 6, 2, 61; 2000 QO<sub>101</sub>, 3, 1, 0; 2000 QH<sub>103</sub>, 3, 1, 0; 2000 QR<sub>112</sub>, 3, 1, 0; 2000 QX<sub>123</sub>, 3, 1, 0; 2000 QB<sub>125</sub>, 3, 1, 0; 2000 QM<sub>126</sub>, 3, 1, 0; 2000 QJ<sub>127</sub>, 3, 1, 0; 2000 QK<sub>131</sub>, 3, 1, 0; 2000 QK<sub>132</sub>, 3, 1, 0; 2000 QS<sub>138</sub>, 3, 1, 0; 2000 QR<sub>140</sub>, 3, 1, 0; 2000 QV<sub>140</sub>, 3, 1, 0; 2000 QB<sub>141</sub>, 3, 1, 0; 2000 QP<sub>142</sub>, 3, 1, 0; 2000 QO<sub>145</sub>, 3, 1, 0; 2000 QP<sub>151</sub>, 3, 1, 0; 2000 QN<sub>152</sub>, 3, 1, 0; 2000 QZ<sub>170</sub>, 3, 1, 0; 2000 QC<sub>183</sub>, 3, 1, 0; 2000 QG<sub>188</sub>, 3, 1, 0; 2000 QJ<sub>193</sub>, 6, 2, 32; 2000 QX<sub>195</sub>, 6, 2, 22; 2000 QD<sub>196</sub>, 3, 1, 0; 2000 QG<sub>205</sub>, 3, 1, 0; 2000 QL<sub>207</sub>, 3, 1, 0; 2000 QT<sub>208</sub>, 3, 1, 0; 2000 QX<sub>212</sub>, 3, 1, 0; 2000 QR<sub>219</sub>, 3, 1, 0; 2000 RF<sub>1</sub>, 3, 1, 0; 2000 RQ<sub>1</sub>, 3, 1, 0; 2000 RZ<sub>1</sub>, 9, 3, 535; 2000 RC<sub>2</sub>, 3, 1, 0; 2000 RY<sub>2</sub>, 3, 1, 0; 2000 RT<sub>3</sub>, 3, 1, 0; 2000 RW<sub>5</sub>, 3, 1, 0; 2000 RA<sub>8</sub>, 6, 2, 20; 2000 RH<sub>17</sub>, 6, 2, 62; 2000 RS<sub>17</sub>, 6, 2, 31; 2000 RG<sub>30</sub>, 3, 1, 0; 2000 RS<sub>33</sub>, 3, 1, 0; 2000 RU<sub>40</sub>, 6, 2, 32; 2000 RT<sub>44</sub>, 6, 2, 27; 2000 RV<sub>49</sub>, 3, 1, 0; 2000 RR<sub>53</sub>, 3, 1, 0; 2000 RO<sub>54</sub>, 3, 1, 0; 2000 RL<sub>56</sub>, 6, 2, 28; 2000 RN<sub>56</sub>, 3, 1, 0; 2000 RD<sub>68</sub>, 3, 1, 0; 2000 RG<sub>68</sub>, 3, 1, 0; 2000 RM<sub>68</sub>, 3, 1, 0; 2000 RZ<sub>71</sub>, 3, 1, 0; 2000 RA<sub>73</sub>, 3, 1, 0; 2000 RN<sub>76</sub>, 3, 1, 0; 2000 RX<sub>77</sub>, 3, 1, 0; 2000 RH<sub>83</sub>, 3, 1, 0; 2000 RG<sub>92</sub>, 3, 1, 0; 2000 RZ<sub>92</sub>, 3, 1, 0; 2000 RO<sub>99</sub>, 3, 1, 0; 2000 RH<sub>103</sub>, 3, 1, 0; 2000 SU<sub>1</sub>, 3, 1, 0; 2000 SM<sub>67</sub>, 6, 2, 33; 2000 SX<sub>108</sub>, 3, 1, 0; 2000 SJ<sub>113</sub>, 3, 1, 0; 2000 SM<sub>149</sub>, 3, 1, 0; 2157 P-L, 3, 1, 0; 4663 P-L, 3, 1, 0; 4875 P-L, 3, 1, 0; 3210 T-1, 3, 1, 0; 2133 T-2, 3, 1, 0; 2307 T-3, 3, 1, 0; [1051, 300, 0\*, 1996/02/15–1999/02/18]

### 568 Mauna Kea

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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 RX<sub>214</sub>, 4, 2, 2; 1999 RY<sub>214</sub>, 4, 2, 2; 1999 RC<sub>215</sub>, 4, 2, 2; 1999 RD<sub>215</sub>, 3, 2, 1; 1999 RJ<sub>215</sub>, 4, 2, 1; 1999 RN<sub>215</sub>, 4, 2, 1; 1999 RU<sub>215</sub>, 4, 2, 1; 1999 RV<sub>215</sub>, 3, 2, 2; 1999 RA<sub>216</sub>, 5, 2, 1; 1999 RB<sub>216</sub>, 5, 2, 2; 1999 TR<sub>11</sub>, 3, 3, 2; [43, 11, 0\*, 2000/08/27–2000/08/30]

{2} 2000 SY<sub>320</sub> \*, 10, 5, 4; [10, 1, 1\*, 2000/09/29–2000/10/03]

{6} 1995 SM<sub>55</sub>, 2, 1, 0; 1997 SZ<sub>10</sub>, 2, 1, 0; 1999 OY<sub>3</sub>, 3, 1, 0; 1999 OA<sub>4</sub>, 6, 2, 1; 1999 OE<sub>4</sub>, 8, 3, 49; 1999 OF<sub>4</sub>, 3, 1, 0; 1999 RA<sub>215</sub>, 3, 1, 0; 2000 AB<sub>255</sub> \*, 44, 2, 1; 2000 AC<sub>255</sub> \*, 6, 2, 1; 2000 AD<sub>255</sub> \*, 18, 2, 1; 2000 AE<sub>255</sub> \*, 33, 2, 1; 2000 AF<sub>255</sub> \*, 36, 2, 1; 2000 OY<sub>51</sub>, 3, 2, 1; 2000 PE<sub>30</sub>, 3, 1, 0; 2000 PF<sub>30</sub>, 3, 1, 0; 2000 PM<sub>30</sub>, 3, 1, 0; [176, 16, 5\*, 1999/07/20–2000/09/24]

### 587 Sormano

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Observers F. Manca, A. Testa, G. Ventre, P. Sicoli, M. Cavagna, M. Banfi  
0.5-m reflector + CCD

1993 YN<sub>2</sub>, 2, 1, 0; 2000 PQ<sub>9</sub>, 2, 1, 0; 2000 QT<sub>7</sub>, 2, 1, 0; 2000 QW<sub>69</sub>, 2, 1, 0; 2000 QK<sub>130</sub>, 3, 1, 0; 2000 RM<sub>12</sub>, 2, 1, 0; 2000 RN<sub>12</sub>, 2, 1, 0; 2000 RW<sub>37</sub>, 2, 1, 0; 2000 RK<sub>60</sub>, 2, 1, 0; 2000 SL<sub>4</sub>, 1, 0; 2000 SM<sub>10</sub>, 3, 1, 0; 2000 SP<sub>43</sub>, 3, 1, 0; 4875 P-L, 3, 1, 0; [32, 13, 0\*, 1995/05/28–2000/09/27]

### 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 ST<sub>20</sub>, 3, 1, 0; 2000 SB<sub>25</sub>, 2, 1, 0; 2000 SP<sub>43</sub>, 8, 2, 1; [13, 3, 0\*, 2000/09/25–2000/10/04]

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Observer G. Iatteri

Measurer V. S. Casulli

0.40-m  $f/3.2$  reflector + CCD

GSC

1996 XB<sub>9</sub>, 3, 1, 0; 2000 SK<sub>43</sub> \*, 6, 2, 1; [9, 2, 1\*, 2000/09/25–2000/09/27]

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

Measurers A. Boattini, G. Forti

0.60-m  $f/3$  Schmidt + CCD

GSC

1994 PA<sub>3</sub>, 2, 1, 0; 2000 QP<sub>183</sub>, 2, 1, 0; [4, 2, 0\*, 1996/07/23–1997/01/17]

### 608 Haleakala-NEAT/MSSS

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E. F. Helin, MS 183-501, Jet Propulsion Laboratory, Pasadena, CA 91109, U.S.A.  
[efh@temblor.jpl.nasa.gov]

Observers E. F. Helin, S. Pravdo, K. Lawrence, P. Kervin, D. Talent, R. Maeda,  
P. Tanner

1.2-m reflector + CCD

1975 SH<sub>1</sub>, 6, 2, 5; 1978 SU<sub>4</sub>, 3, 1, 0; 1978 UT<sub>7</sub>, 3, 1, 0; 1979 MO<sub>8</sub>, 3, 1, 0; 1979 SH, 3, 1, 0; 1981 DL<sub>1</sub>, 3, 1, 0; 1981 EF<sub>5</sub>, 3, 1, 0; 1981 EB<sub>6</sub>, 3, 1, 0; 1981 ER<sub>8</sub>, 3, 1, 0; 1981 EB<sub>10</sub>, 3, 1, 0; 1981 EM<sub>11</sub>, 3, 1, 0; 1981 EV<sub>13</sub>, 3, 1, 0; 1981 EB<sub>14</sub>, 3, 1, 0; 1981 ER<sub>15</sub>, 3, 1, 0; 1981 EJ<sub>16</sub>, 3, 1, 0; 1981 ER<sub>28</sub>, 6, 2, 17; 1981 EP<sub>32</sub>, 3, 1, 0; 1981 EA<sub>35</sub>, 3, 1, 0; 1981 ED<sub>36</sub>, 3, 1, 0; 1981 EJ<sub>38</sub>, 3, 1, 0; 1981 EY<sub>40</sub>, 3, 1, 0; 1981 EA<sub>44</sub>, 3, 1, 0; 1985 RP<sub>3</sub>, 3, 1, 0; 1986 QK, 3, 1, 0; 1986 RY<sub>4</sub>, 3, 1, 0; 1986 TZ<sub>3</sub>, 3, 1, 0; 1987 QF<sub>1</sub>, 3, 1, 0; 1988 BA<sub>4</sub>, 3, 1, 0; 1988 CW<sub>1</sub>, 3, 1, 0; 1988 LG, 3, 1, 0; 1988 RL<sub>13</sub>, 6, 2, 17; 1988 SW<sub>1</sub>, 3, 1, 0; 1988 SP<sub>2</sub>, 3, 1, 0; 1988 SA<sub>3</sub>, 3, 1, 0; 1989 AR, 3, 1, 0; 1989 AM<sub>3</sub>, 3, 1, 0; 1989 CR<sub>5</sub>, 3, 1, 0; 1989 KF, 3, 1, 0; 1989 RT<sub>1</sub>, 3, 1, 0; 1989 SJ<sub>3</sub>, 3, 1, 0; 1989 SV<sub>3</sub>, 6, 2, 10; 1989 SY<sub>3</sub>, 3, 1, 0; 1989 SH<sub>5</sub>, 3, 1, 0; 1989 SZ<sub>9</sub>, 3, 1, 0; 1989 TP<sub>14</sub>, 3, 1, 0; 1989 TG<sub>16</sub>, 3, 1, 0; 1989 UU<sub>5</sub>, 3, 1, 0; 1989 VQ<sub>1</sub>, 3, 1, 0; 1990 ET<sub>2</sub>, 3, 1, 0; 1990 HU<sub>1</sub>, 6, 2, 5; 1990 OA<sub>2</sub>, 3, 1, 0; 1990 OD<sub>5</sub>, 3, 1, 0; 1990 QU<sub>2</sub>, 3, 1, 0; 1990 QJ<sub>3</sub>, 3, 1, 0; 1990 QH<sub>4</sub>, 3, 1, 0; 1990 QB<sub>7</sub>, 3, 1, 0; 1990 QF<sub>9</sub>, 6, 2, 63; 1990 RG, 3, 1, 0; 1990 SA<sub>7</sub>, 3, 1, 0; 1990 SH<sub>8</sub>, 3, 1, 0; 1990 TJ<sub>8</sub>, 3, 1, 0; 1991 BX, 3, 1, 0; 1991 EO<sub>2</sub>, 6, 2, 2; 1991 FK, 6, 2, 5; 1991 GH<sub>1</sub>, 3, 1, 0; 1991 GK<sub>1</sub>, 3, 1, 0; 1991 GZ<sub>1</sub>, 3, 1, 0; 1991 GG<sub>7</sub>, 3, 1, 0; 1991 LQ, 6, 2, 14; 1991 PX<sub>2</sub>, 6, 2, 5; 1991 PC<sub>12</sub>, 3, 1, 0; 1991 PU<sub>19</sub>, 3, 1, 0; 1991 RC<sub>3</sub>, 3, 1, 0; 1991 SQ, 3, 1, 0; 1991 SY, 3, 1, 0; 1991 TQ<sub>7</sub>, 3, 1, 0; 1991 VJ<sub>6</sub>, 3, 1, 0; 1992 DQ<sub>7</sub>, 3, 1, 0; 1992 DN<sub>8</sub>, 3, 1, 0; 1992 EJ<sub>5</sub>, 3, 1, 0; 1992 EY<sub>8</sub>, 3, 1, 0; 1992 EO<sub>9</sub>, 6, 2, 14; 1992 EU<sub>11</sub>, 3, 1, 0; 1992 EY<sub>14</sub>, 3, 1, 0; 1992 ER<sub>28</sub>, 3, 1, 0; 1992 GO<sub>2</sub>, 3, 1, 0; 1992 GW<sub>4</sub>, 6, 2, 2; 1992 GX<sub>4</sub>, 6, 2, 15; 1992 HG<sub>1</sub>, 3, 1, 0; 1992 JH, 3, 1, 0; 1992 PY<sub>3</sub>, 3, 1, 0; 1992 SF<sub>2</sub>, 3, 1, 0; 1992 SY<sub>16</sub>, 3, 1, 0; 1992 UM, 3, 1, 0; 1992 UA<sub>1</sub>, 9, 3, 16; 1992 UT<sub>1</sub>, 3, 1, 0; 1992 WP, 3, 1, 0; 1992 WY<sub>3</sub>, 3, 1, 0; 1993 BR<sub>4</sub>, 3, 1, 0; 1993 BL<sub>7</sub>, 3, 1, 0;

1993 FD<sub>9</sub>, 3, 1, 0; 1993 FC<sub>14</sub>, 3, 1, 0; 1993 FX<sub>14</sub>, 3, 1, 0; 1993 FW<sub>15</sub>, 6, 2, 14; 1993 FZ<sub>23</sub>, 3, 1, 0; 1993 FQ<sub>32</sub>, 3, 1, 0; 1993 FF<sub>35</sub>, 3, 1, 0; 1993 FF<sub>40</sub>, 3, 1, 0; 1993 FM<sub>40</sub>, 3, 1, 0; 1993 FN<sub>40</sub>, 3, 1, 0; 1993 FC<sub>42</sub>, 6, 2, 6; 1993 FT<sub>51</sub>, 3, 1, 0; 1993 FG<sub>51</sub>, 3, 1, 0; 1993 FF<sub>53</sub>, 3, 1, 0; 1993 OR<sub>5</sub>, 3, 1, 0; 1993 PH<sub>3</sub>, 6, 2, 6; 1993 QT<sub>4</sub>, 3, 1, 0; 1993 RP<sub>2</sub>, 3, 1, 0; 1993 SG<sub>2</sub>, 3, 1, 0; 1993 SX<sub>6</sub>, 3, 1, 0; 1993 SL<sub>9</sub>, 3, 1, 0; 1993 TM, 3, 1, 0; 1993 TC<sub>2</sub>, 3, 1, 0; 1993 TA<sub>3</sub>, 3, 1, 0; 1993 TW<sub>12</sub>, 3, 1, 0; 1993 TV<sub>13</sub>, 3, 1, 0; 1993 TZ<sub>31</sub>, 3, 1, 0; 1993 TQ<sub>32</sub>, 3, 1, 0; 1993 TC<sub>38</sub>, 6, 2, 15; 1993 VY, 3, 1, 0; 1994 AU, 3, 1, 0; 1994 AD<sub>3</sub>, 3, 1, 0; 1994 AC<sub>17</sub>, 6, 2, 7; 1994 BN<sub>3</sub>, 6, 2, 15; 1994 CQ<sub>1</sub>, 3, 1, 0; 1994 CX<sub>13</sub>, 3, 1, 0; 1994 FC, 3, 1, 0; 1994 GP, 6, 2, 6; 1994 JM<sub>6</sub>, 3, 1, 0; 1994 PE, 3, 1, 0; 1994 PJ<sub>13</sub>, 3, 1, 0; 1994 PM<sub>13</sub>, 3, 1, 0; 1994 PD<sub>14</sub>, 3, 1, 0; 1994 PZ<sub>17</sub>, 3, 1, 0; 1994 PP<sub>20</sub>, 3, 1, 0; 1994 PL<sub>21</sub>, 3, 1, 0; 1994 PG<sub>27</sub>, 6, 2, 15; 1994 PZ<sub>27</sub>, 3, 1, 0; 1994 PG<sub>29</sub>, 3, 1, 0; 1994 PL<sub>33</sub>, 3, 1, 0; 1994 PN<sub>36</sub>, 3, 1, 0; 1994 WY<sub>2</sub>, 3, 1, 0; 1995 AJ<sub>1</sub>, 3, 1, 0; 1995 AT<sub>2</sub>, 3, 1, 0; 1995 BR, 3, 1, 0; 1995 BR<sub>10</sub>, 6, 2, 1; 1995 CS<sub>3</sub>, 3, 1, 0; 1995 DR, 3, 1, 0; 1995 DS<sub>5</sub>, 3, 1, 0; 1995 EO, 3, 1, 0; 1995 OF<sub>3</sub>, 3, 1, 0; 1995 QX<sub>3</sub>, 3, 1, 0; 1995 SO, 3, 1, 0; 1995 SO<sub>26</sub>, 3, 1, 0; 1995 SB<sub>34</sub>, 3, 1, 0; 1995 SZ<sub>43</sub>, 3, 1, 0; 1995 TT, 6, 2, 5; 1995 UP<sub>2</sub>, 3, 1, 0; 1995 UH<sub>4</sub>, 6, 2, 17; 1995 UW<sub>6</sub>, 3, 1, 0; 1995 UZ<sub>8</sub>, 3, 1, 0; 1995 UC<sub>9</sub>, 3, 1, 0; 1995 UJ<sub>31</sub>, 6, 2, 5; 1995 UX<sub>44</sub>, 3, 1, 0; 1995 UD<sub>45</sub>, 6, 2, 15; 1995 UB<sub>47</sub>, 3, 1, 0; 1995 VT, 3, 1, 0; 1995 VV, 3, 1, 0; 1995 VR<sub>15</sub>, 3, 1, 0; 1995 WQ<sub>2</sub>, 3, 1, 0; 1995 WR<sub>7</sub>, 3, 1, 0; 1995 YO, 3, 1, 0; 1996 CP, 9, 14; 1996 EA<sub>2</sub>, 6, 2, 17; 1996 HC<sub>2</sub>, 3, 1, 0; 1996 HM<sub>14</sub>, 6, 2, 7; 1996 HV<sub>21</sub>, 6, 2, 7; 1996 HC<sub>26</sub>, 3, 1, 0; 1996 LK<sub>1</sub>, 3, 1, 0; 1996 NA<sub>2</sub>, 6, 2, 17; 1996 OB, 6, 2, 14; 1996 OC<sub>1</sub>, 3, 1, 0; 1996 PK<sub>1</sub>, 3, 1, 0; 1996 PA<sub>4</sub>, 3, 1, 0; 1996 PY<sub>4</sub>, 3, 1, 0; 1996 PK<sub>8</sub>, 3, 1, 0; 1996 QX, 3, 1, 0; 1996 QM<sub>1</sub>, 3, 1, 0; 1996 RB<sub>4</sub>, 6, 2, 5; 1996 RP<sub>12</sub>, 3, 1, 0; 1996 RN<sub>25</sub>, 6, 2, 5; 1996 SK<sub>4</sub>, 9, 3, 12; 1996 SQ<sub>4</sub>, 3, 1, 0; 1996 SB<sub>6</sub>, 3, 1, 0; 1996 TT<sub>1</sub>, 3, 1, 0; 1996 TN<sub>3</sub>, 3, 1, 0; 1996 TY<sub>4</sub>, 3, 1, 0; 1996 TJ<sub>5</sub>, 6, 2, 14; 1996 TD<sub>10</sub>, 3, 1, 0; 1996 TR<sub>25</sub>, 6, 2, 6; 1996 TS<sub>32</sub>, 3, 1, 0; 1996 TO<sub>39</sub>, 3, 1, 0; 1996 TL<sub>40</sub>, 3, 1, 0; 1996 TN<sub>46</sub>, 3, 1, 0; 1996 TJ<sub>52</sub>, 3, 1, 0; 1996 TK<sub>54</sub>, 6, 2, 7; 1996 TA<sub>55</sub>, 3, 1, 0; 1996 UP<sub>1</sub>, 3, 1, 0; 1996 VN, 3, 1, 0; 1996 VK<sub>3</sub>, 3, 1, 0; 1996 VL<sub>3</sub>, 3, 1, 0; 1996 VP<sub>6</sub>, 3, 1, 0; 1996 VW<sub>7</sub>, 3, 1, 0; 1996 VK<sub>30</sub>, 6, 2, 2; 1996 VE<sub>38</sub>, 3, 1, 0; 1996 WB, 6, 2, 6; 1996 WC, 3, 1, 0; 1996 WD, 6, 2, 1; 1996 XQ, 3, 1, 0; 1996 XX, 3, 1, 0; 1996 XT<sub>5</sub>, 3, 1, 0; 1996 XQ<sub>6</sub>, 3, 1, 0; 1996 XQ<sub>11</sub>, 3, 1, 0; 1996 XQ<sub>19</sub>, 3, 1, 0; 1996 XS<sub>19</sub>, 3, 1, 0; 1996 XR<sub>26</sub>, 3, 1, 0; 1996 YG, 6, 2, 5; 1996 YU, 3, 1, 0; 1996 YA<sub>1</sub>, 3, 1, 0; 1997 AJ, 3, 1, 0; 1997 AL, 6, 2, 6; 1997 AK<sub>2</sub>, 3, 1, 0; 1997 AW<sub>5</sub>, 3, 1, 0; 1997 AS<sub>16</sub>, 3, 1, 0; 1997 AT<sub>18</sub>, 6, 2, 11; 1997 AT<sub>21</sub>, 3, 1, 0; 1997 BO<sub>1</sub>, 3, 1, 0; 1997 BC<sub>2</sub>, 3, 1, 0; 1997 CP<sub>28</sub>, 6, 2, 15; 1997 DP, 3, 1, 0; 1997 EN<sub>2</sub>, 3, 1, 0; 1997 EU<sub>17</sub>, 3, 1, 0; 1997 FS<sub>2</sub>, 3, 1, 0; 1997 SW, 6, 2, 7; 1997 SB<sub>2</sub>, 3, 1, 0; 1997 SG<sub>2</sub>, 3, 1, 0; 1997 SW<sub>4</sub>, 3, 1, 0; 1997 TY<sub>11</sub>, 3, 1, 0; 1997 TT<sub>17</sub>, 3, 1, 0; 1997 UT, 3, 1, 0; 1997 UF<sub>7</sub>, 3, 1, 0; 1997 UH<sub>9</sub>, 3, 1, 0; 1997 UU<sub>14</sub>, 3, 1, 0; 1997 US<sub>17</sub>, 3, 1, 0; 1997 UL<sub>22</sub>, 6, 2, 7; 1997 VR<sub>6</sub>, 3, 1, 0; 1997 WX<sub>2</sub>, 3, 1, 0; 1997 WC<sub>8</sub>, 3, 1, 0; 1997 WO<sub>12</sub>, 3, 1, 0; 1997 WU<sub>15</sub>, 3, 1, 0; 1997 WQ<sub>25</sub>, 3, 1, 0; 1997 WF<sub>39</sub>, 3, 1, 0; 1997 WA<sub>42</sub>, 6, 2, 9; 1997 WF<sub>43</sub>, 3, 1, 0; 1997 WW<sub>43</sub>, 3, 1, 0; 1997 WE<sub>44</sub>, 3, 1, 0; 1997 XW<sub>3</sub>, 6, 2, 7; 1997 XJ<sub>5</sub>, 6, 2, 1; 1997 XM<sub>5</sub>, 3, 1, 0; 1997 XE<sub>11</sub>, 6, 2, 10; 1997 XH<sub>11</sub>, 3, 1, 0; 1997 XK<sub>11</sub>, 3, 1, 0; 1997 YY<sub>2</sub>, 3, 1, 0; 1997 YB<sub>3</sub>, 3, 1, 0; 1997 YD<sub>3</sub>, 3, 1, 0; 1997 YW<sub>4</sub>, 3, 1, 0; 1997 YE<sub>10</sub>, 3, 1, 0; 1997 YT<sub>11</sub>, 3, 1, 0; 1997 YA<sub>12</sub>, 3, 1, 0; 1997 YZ<sub>13</sub>, 3, 1, 0; 1997 YG<sub>14</sub>, 3, 1, 0; 1997 YC<sub>15</sub>, 3, 1, 0; 1997 YX<sub>16</sub>, 3, 1, 0; 1998 AF, 3, 1, 0; 1998 AK, 3, 1, 0; 1998 AK<sub>5</sub>, 3, 1, 0; 1998 AH<sub>7</sub>, 3, 1, 0; 1998 AN<sub>10</sub>, 3, 1, 0; 1998 AO<sub>10</sub>, 3, 1, 0; 1998 BL, 3, 1, 0; 1998 BD<sub>1</sub>, 6, 2, 6; 1998 BR<sub>1</sub>, 6, 2, 6; 1998 BS<sub>2</sub>, 6, 2, 10; 1998 BC<sub>5</sub>, 3, 1, 0; 1998 BE<sub>5</sub>, 3, 1, 0; 1998 BB<sub>8</sub>, 3, 1, 0; 1998 BT<sub>8</sub>, 3, 1, 0; 1998 BK<sub>9</sub>, 3, 1, 0; 1998 BP<sub>9</sub>, 6, 2, 9; 1998 BA<sub>12</sub>, 3, 1, 0; 1998 BU<sub>14</sub>, 3, 1, 0; 1998 BD<sub>15</sub>, 3, 1, 0; 1998 BU<sub>24</sub>, 3, 1, 0; 1998 BA<sub>26</sub>, 3, 1, 0; 1998 BA<sub>31</sub>, 3, 1, 0; 1998 BS<sub>33</sub>, 3, 1, 0; 1998 BB<sub>34</sub>, 6, 2, 15; 1998 BG<sub>34</sub>, 3, 1, 0; 1998 BW<sub>41</sub>, 6, 2, 7; 1998 CA, 3, 1, 0; 1998 CW<sub>3</sub>, 6, 2, 5; 1998 DZ, 6, 2, 5; 1998 DW<sub>1</sub>, 3, 1, 0; 1998 DV<sub>4</sub>, 3, 1, 0; 1998 DA<sub>6</sub>, 3, 1, 0; 1998 DD<sub>6</sub>, 3, 1, 0; 1998 DE<sub>10</sub>, 6, 2, 14; 1998 DF<sub>10</sub>, 3, 1, 0; 1998 DS<sub>10</sub>, 3, 1, 0; 1998 DD<sub>13</sub>, 3, 1, 0; 1998 DV<sub>13</sub>, 3, 1, 0; 1998 DF<sub>15</sub>, 3, 1, 0; 1998 DU<sub>23</sub>, 3, 1, 0; 1998 DG<sub>32</sub>, 6, 2, 14; 1998 DW<sub>34</sub>, 3, 1, 0; 1998 DY<sub>34</sub>, 6, 2, 7; 1998 EB<sub>3</sub>, 3, 1, 0; 1998 EP<sub>10</sub>, 3, 1, 0; 1998 EM<sub>11</sub>, 1, 1, 0; 1998 EN<sub>11</sub>, 6, 2, 5; 1998 EL<sub>12</sub>, 3, 1, 0; 1998 EC<sub>13</sub>, 6, 2, 2; 1998 EP<sub>13</sub>, 3, 1, 0; 1998 EU<sub>13</sub>, 3, 1, 0; 1998 EF<sub>13</sub>, 3, 1, 0; 1998 EL<sub>14</sub>, 6, 2, 17; 1998 FH, 3, 1, 0; 1998 FA<sub>10</sub>, 3, 1, 0; 1998 FY<sub>13</sub>, 3, 1, 0; 1998 FJ<sub>14</sub>, 6, 2, 1; 1998 FJ<sub>23</sub>, 3, 1, 0; 1998 FD<sub>26</sub>, 3, 1, 0; 1998 FS<sub>26</sub>, 9, 3, 15; 1998 FA<sub>27</sub>, 3, 1, 0; 1998 FK<sub>28</sub>, 3, 1, 0; 1998 FV<sub>28</sub>, 3, 1, 0; 1998 FK<sub>34</sub>, 3, 1, 0; 1998 FT<sub>39</sub>, 3, 1, 0; 1998 FT<sub>41</sub>, 3, 1, 0; 1998 FG<sub>43</sub>, 3, 1, 0; 1998 FM<sub>43</sub>, 3, 1, 0; 1998 FB<sub>48</sub>, 6, 2, 14; 1998 FD<sub>49</sub>, 3, 1, 0; 1998 FN<sub>49</sub>, 3, 1, 0; 1998 FY<sub>53</sub>, 3, 1, 0; 1998 FY<sub>54</sub>, 3, 1, 0; 1998 FD<sub>55</sub>, 3, 1, 0; 1998 FR<sub>56</sub>, 3, 1, 0; 1998 FK<sub>58</sub>, 3, 1, 0; 1998 FB<sub>60</sub>, 3, 1, 0; 1998 FC<sub>60</sub>, 6, 2, 1; 1998 FN<sub>60</sub>, 3, 1, 0; 1998 FJ<sub>61</sub>, 3, 1, 0; 1998 FM<sub>62</sub>, 3, 1, 0; 1998 FN<sub>62</sub>, 3, 1, 0; 1998 FG<sub>63</sub>, 3, 1, 0; 1998 FG<sub>64</sub>, 3, 1, 0; 1998 FD<sub>67</sub>, 6, 2, 17; 1998 FQ<sub>70</sub>, 3, 1, 0; 1998 FH<sub>71</sub>, 3, 1, 0; 1998 FJ<sub>71</sub>, 6, 2, 6; 1998 FY<sub>73</sub>, 3, 1, 0; 1998 FN<sub>74</sub>, 3, 1, 0; 1998 FJ<sub>75</sub>, 3, 1, 0; 1998 FA<sub>77</sub>, 3, 1, 0; 1998 FO<sub>77</sub>, 3, 1, 0; 1998 FG<sub>78</sub>, 3, 1, 0; 1998 FR<sub>78</sub>, 3, 1, 0; 1998 FX<sub>101</sub>, 3, 1, 0; 1998 FE<sub>103</sub>, 3, 1, 0; 1998 FZ<sub>104</sub>, 3, 1, 0; 1998 FH<sub>105</sub>, 3, 1, 0; 1998 FK<sub>107</sub>, 3, 1, 0; 1998 FH<sub>109</sub>, 6, 2, 6; 1998 FO<sub>113</sub>, 6, 2, 17; 1998 FQ<sub>113</sub>, 6, 2, 17; 1998 FT<sub>113</sub>, 3, 1, 0; 1998 FJ<sub>116</sub>, 6, 2, 17; 1998 FU<sub>116</sub>, 6, 2, 7; 1998 FX<sub>118</sub>, 3, 1, 0; 1998 FA<sub>120</sub>, 3, 1, 0; 1998 FA<sub>123</sub>, 3, 1, 0; 1998 FZ<sub>125</sub>, 3, 1, 0; 1998 BG<sub>10</sub>, 6, 2, 5; 1998 HW, 3, 1, 0; 1998 HJ<sub>14</sub>, 3, 1, 0; 1998 HY<sub>18</sub>, 3, 1, 0; 1998 HE<sub>30</sub>, 3, 1, 0; 1998 HR<sub>31</sub>, 3, 1, 0; 1998 HB<sub>34</sub>, 3, 1, 0; 1998 HF<sub>34</sub>, 6, 2, 14; 1998 HK<sub>35</sub>, 3, 1, 0; 1998 HR<sub>35</sub>, 3, 1, 0; 1998 HS<sub>37</sub>, 3, 1, 0; 1998 HB<sub>39</sub>, 3, 1, 0; 1998 HO<sub>68</sub>, 3, 1, 0; 1998 HW<sub>78</sub>, 3, 1, 0; 1998 HE<sub>84</sub>, 3, 1, 0; 1998 HF<sub>87</sub>, 3, 1, 0; 1998 HJ<sub>94</sub>, 6, 2, 17; 1998 HG<sub>96</sub>, 3, 1, 0; 1998 HO<sub>96</sub>, 3, 1, 0; 1998 HT<sub>97</sub>, 3, 1, 0; 1998 HY<sub>112</sub>, 3, 1, 0; 1998 HY<sub>114</sub>, 3, 1, 0; 1998 HB<sub>115</sub>, 3, 1, 0; 1998 HQ<sub>115</sub>, 6, 2, 16; 1998 HE<sub>121</sub>, 3, 1, 0; 1998 HL<sub>129</sub>, 3, 1, 0; 1998 HC<sub>146</sub>, 3, 1, 0; 1998 KA, 3, 1, 0; 1998 KK, 6, 2, 7; 1998 KW<sub>7</sub>, 3, 1, 0; 1998 KJ<sub>8</sub>, 3, 1, 0; 1998 KT<sub>28</sub>, 3, 1, 0; 1998 KX<sub>60</sub>, 3, 1, 0; 1998 KY<sub>65</sub>, 3, 1, 0; 1998 OM<sub>12</sub>, 3, 1,

0; 1998 SG<sub>36</sub>, 6, 2, 5; 1999 AQ<sub>23</sub>, 3, 1, 0; 1999 BC<sub>2</sub>, 6, 2, 1; 1999 BH<sub>14</sub>, 3, 1, 0; 1999 CP, 3, 1, 0; 1999 CZ<sub>1</sub>, 3, 1, 0; 1999 CO<sub>8</sub>, 3, 1, 0; 1999 CA<sub>9</sub>, 3, 1, 0; 1999 CR<sub>9</sub>, 3, 1, 0; 1999 CV<sub>9</sub>, 3, 1, 0; 1999 CZ<sub>11</sub>, 3, 1, 0; 1999 CJ<sub>12</sub>, 3, 1, 0; 1999 CD<sub>33</sub>, 3, 1, 0; 1999 CD<sub>48</sub>, 3, 1, 0; 1999 CR<sub>48</sub>, 3, 1, 0; 1999 CH<sub>50</sub>, 3, 1, 0; 1999 CZ<sub>50</sub>, 3, 1, 0; 1999 CH<sub>54</sub>, 3, 1, 0; 1999 CL<sub>54</sub>, 3, 1, 0; 1999 CE<sub>57</sub>, 3, 1, 0; 1999 CP<sub>100</sub>, 6, 2, 7; 1999 CW<sub>101</sub>, 3, 1, 0; 1999 CG<sub>104</sub>, 3, 1, 0; 1999 CD<sub>116</sub>, 3, 1, 0; 1999 CO<sub>116</sub>, 3, 1, 0; 1999 CC<sub>118</sub>, 3, 1, 0; 1999 CH<sub>147</sub>, 3, 1, 0; 1999 DJ<sub>1</sub>, 3, 1, 0; 1999 DU<sub>6</sub>, 3, 1, 0; 1999 EA, 3, 1, 0; 1999 EQ<sub>3</sub>, 3, 1, 0; 1999 EO<sub>5</sub>, 3, 1, 0; 1999 ED<sub>7</sub>, 3, 1, 0; 1999 FO, 3, 1, 0; 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3, 1, 0; 2000 RX<sub>30</sub>, 3, 1, 0; 2000 RY<sub>30</sub>, 3, 1, 0; 2000 RE<sub>31</sub>, 3, 1, 0; 2000 RF<sub>31</sub>, 3, 1, 0; 2000 RG<sub>31</sub>, 3, 1, 0; 2000 RK<sub>31</sub>, 3, 1, 0; 2000 RL<sub>31</sub>, 3, 1, 0; 2000 RM<sub>31</sub>, 3, 1, 0; 2000 RN<sub>31</sub>, 3, 1, 0; 2000 RP<sub>31</sub>, 3, 1, 0; 2000 RQ<sub>31</sub>, 3, 1, 0; 2000 RT<sub>31</sub>, 3, 1, 0; 2000 RR<sub>32</sub>, 3, 1, 0; 2000 RW<sub>32</sub>, 3, 1, 0; 2000 RC<sub>33</sub>, 3, 1, 0; 2000 RD<sub>33</sub>, 3, 1, 0; 2000 RJ<sub>33</sub>, 9, 3, 52; 2000 RL<sub>33</sub>, 6, 2, 15; 2000 RN<sub>33</sub>, 6, 2, 15; 2000 RO<sub>33</sub>, 3, 1, 0; 2000 RS<sub>33</sub>, 3, 1, 0; 2000 RV<sub>33</sub>, 3, 1, 0; 2000 RX<sub>33</sub>, 3, 1, 0; 2000 RY<sub>33</sub>, 3, 1, 0; 2000 RA<sub>34</sub>, 3, 1, 0; 2000 RD<sub>34</sub>, 6, 2, 14; 2000 RE<sub>34</sub>, 3, 1, 0; 2000 RG<sub>34</sub>, 6, 2, 6; 2000 RO<sub>34</sub>, 3, 1, 0; 2000 RR<sub>34</sub>, 3, 1, 0; 2000 RU<sub>34</sub>, 3, 1, 0; 2000 RW<sub>34</sub>, 3, 1, 0; 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2000 RF<sub>68</sub>, 3, 1, 0; 2000 RP<sub>68</sub>, 3, 1, 0; 2000 RS<sub>68</sub>, 6, 2, 48; 2000 RT<sub>68</sub>, 3, 1, 0; 2000 RV<sub>68</sub>, 3, 1, 0; 2000 RB<sub>69</sub>, 3, 1, 0; 2000 RD<sub>69</sub>, 3, 1, 0; 2000 RF<sub>69</sub>, 3, 1, 0; 2000 RG<sub>69</sub>, 3, 1, 0; 2000 RC<sub>69</sub>, 3, 1, 0; 2000 RE<sub>69</sub>, 3, 1, 0; 2000 RS<sub>69</sub>, 3, 1, 0; 2000 RT<sub>69</sub>, 3, 1, 0; 2000 RW<sub>69</sub>, 3, 1, 0; 2000 RB<sub>70</sub>, 3, 1, 0; 2000 RG<sub>70</sub>, 3, 1, 0; 2000 RJ<sub>70</sub>, 3, 1, 0; 2000 RQ<sub>70</sub>, 3, 1, 0; 2000 RU<sub>70</sub>, 3, 1, 0; 2000 RB<sub>71</sub>, 6, 2, 5; 2000 RE<sub>71</sub>, 6, 2, 5; 2000 RG<sub>71</sub>, 3, 1, 0; 2000 RJ<sub>71</sub>, 6, 2, 10; 2000 RK<sub>71</sub>, 6, 2, 15; 2000 RL<sub>71</sub>, 6, 2, 1; 2000 RY<sub>71</sub>, 3, 1, 0; 2000 RY<sub>71</sub>, 3, 1, 0; 2000 RJ<sub>72</sub>, 3, 1, 0; 2000 RT<sub>72</sub>, 3, 1, 0; 2000 RV<sub>72</sub>, 3, 1, 0; 2000 RA<sub>73</sub>, 3, 1, 0; 2000 RB<sub>73</sub>, 3, 1, 0; 2000 RD<sub>73</sub>, 3, 1, 0; 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2000 RF<sub>85</sub>, 3, 1, 0; 2000 RS<sub>85</sub>, 3, 1, 0; 2000 RD<sub>86</sub>, 6, 2, 46; 2000 RE<sub>86</sub>, 3, 1, 0; 2000 RF<sub>86</sub>, 3, 1, 0; 2000 RH<sub>86</sub>, 3, 1, 0; 2000 RN<sub>86</sub>, 3, 1, 0; 2000 RB<sub>87</sub>, 6, 2, 5; 2000 RC<sub>87</sub>, 6, 2, 6; 2000 RD<sub>87</sub>, 6, 2, 6; 2000 RE<sub>87</sub>, 3, 1, 0; 2000 RK<sub>87</sub>, 3, 1, 0; 2000 RL<sub>87</sub>, 3, 1, 0; 2000 RN<sub>87</sub>, 3, 1, 0; 2000 RP<sub>87</sub>, 3, 1, 0; 2000 RY<sub>87</sub>, 3, 1, 0; 2000 RZ<sub>87</sub>, 3, 1, 0; 2000 RA<sub>88</sub> \*, 6, 2, 28; 2000 RB<sub>88</sub> \*, 3, 1, 0; 2000 RC<sub>88</sub> \*, 9, 3, 24; 2000 RD<sub>88</sub> \*, 3, 1, 0; 2000 RM<sub>88</sub>, 3, 1, 0; 2000 RU<sub>88</sub>, 3, 1, 0; 2000 RV<sub>88</sub>, 6, 2, 46; 2000 RZ<sub>88</sub>, 3, 1, 0; 2000 RA<sub>89</sub>, 3, 1, 0; 2000 RB<sub>89</sub>, 3, 1, 0; 2000 RL<sub>89</sub>, 3, 1, 0; 2000 RM<sub>89</sub>, 3, 1, 0; 2000 RO<sub>89</sub>, 3, 1, 0; 2000 RA<sub>90</sub>, 3, 1, 0; 2000 RV<sub>90</sub>, 3, 1, 0; 2000 RZ<sub>90</sub>, 3, 1, 0; 2000 RA<sub>91</sub>, 3, 1, 0; 2000 RC<sub>91</sub>, 3, 1, 0; 2000 RM<sub>91</sub>, 6, 2, 30; 2000 RQ<sub>91</sub>, 3, 1, 0; 2000 RN<sub>91</sub>, 6, 2, 9; 2000 RS<sub>91</sub>, 6, 2, 9; 2000 RY<sub>91</sub>, 3, 1, 0; 2000 RZ<sub>91</sub>, 3, 1, 0; 2000 RA<sub>92</sub>, 3, 1, 0; 2000 RC<sub>92</sub>, 3, 1, 0; 2000 RD<sub>92</sub>, 3, 1, 0; 2000 RN<sub>92</sub>, 3, 1, 0; 2000 RQ<sub>92</sub>, 3, 1, 0; 2000 RU<sub>92</sub>, 3, 1, 0; 2000 RW<sub>92</sub>, 3, 1, 0; 2000 RD<sub>93</sub>, 6, 2, 48; 2000 RN<sub>93</sub>, 3, 1, 0; 2000 RO<sub>93</sub>, 3, 1, 0; 2000 RU<sub>93</sub>, 3, 1, 0; 2000 RY<sub>93</sub>, 3, 1, 0; 2000 RE<sub>94</sub>, 3, 1, 0; 2000 RD<sub>94</sub>, 3, 1, 0; 2000 RE<sub>94</sub>, 3, 1, 0; 2000 RF<sub>94</sub>, 3, 1, 0; 2000 RH<sub>94</sub>, 3, 1, 0; 2000 RN<sub>94</sub>, 3, 1, 0; 2000 RT<sub>94</sub>, 3, 1, 0; 2000 RU<sub>94</sub>, 6, 2, 1; 2000 RX<sub>94</sub>, 3, 1, 0; 2000 RZ<sub>94</sub>, 6, 2, 6; 2000 RA<sub>95</sub>, 3, 1, 0; 2000 RB<sub>95</sub>,

6, 2, 6; 2000 RE<sub>95</sub>, 3, 1, 0; 2000 RF<sub>95</sub>, 3, 1, 0; 2000 RG<sub>95</sub>, 6, 2, 51; 2000 RH<sub>95</sub>, 6, 2, 5; 2000 RS<sub>95</sub>, 6, 2, 51; 2000 RU<sub>95</sub>, 3, 1, 0; 2000 RW<sub>95</sub> \*, 3, 1, 0; 2000 RY<sub>95</sub>, 3, 1, 0; 2000 RE<sub>96</sub> \*, 3, 1, 0; 2000 RF<sub>96</sub> \*, 3, 1, 0; 2000 RC<sub>96</sub> \*, 3, 1, 0; 2000 RH<sub>96</sub> \*, 3, 1, 0; 2000 RJ<sub>96</sub> \*, 3, 1, 0; 2000 RN<sub>96</sub> \*, 6, 2, 15; 2000 RO<sub>96</sub> \*, 3, 1, 0; 2000 RQ<sub>96</sub>, 3, 1, 0; 2000 RR<sub>96</sub>, 3, 1, 0; 2000 RT<sub>96</sub> \*, 3, 1, 0; 2000 RW<sub>96</sub>, 6, 2, 6; 2000 RZ<sub>96</sub>, 3, 1, 0; 2000 RB<sub>97</sub>, 6, 2, 24; 2000 RC<sub>97</sub>, 3, 1, 0; 2000 RD<sub>97</sub>, 3, 1, 0; 2000 RE<sub>97</sub>, 6, 2, 1; 2000 RJ<sub>97</sub>, 3, 1, 0; 2000 RL<sub>97</sub>, 3, 1, 0; 2000 RN<sub>97</sub>, 3, 1, 0; 2000 RB<sub>98</sub>, 3, 1, 0; 2000 RD<sub>98</sub>, 3, 1, 0; 2000 RE<sub>98</sub>, 3, 1, 0; 2000 RH<sub>98</sub>, 3, 1, 0; 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(11070), 3, 1, 0; (11072), 3, 1, 0; (11074), 3, 1, 0; (11080), 3, 1, 0; (11083), 6, 2, 6; (11084), 3, 1, 0; (11091), 6, 2, 14; (11095), 3, 1, 0; (11114), 3, 1, 0; (11119), 3, 1, 0; (11120), 3, 1, 0; (11122), 3, 1, 0; (11140), 3, 1, 0; (11143), 3, 1, 0; (11149), 3, 1, 0; (11152), 3, 1, 0; (11162), 6, 2, 7; (11164), 3, 1, 0; (11170), 6, 2, 17; (11172), 3, 1, 0; (11177), 3, 1, 0; (11185), 6, 2, 1; (11188), 3, 1, 0; (11194), 3, 1, 0; (11197), 3, 1, 0; (11210), 3, 1, 0; (11212), 3, 1, 0; (11228), 3, 1, 0; (11233), 3, 1, 0; (11237), 3, 1, 0; (11247), 3, 1, 0; (11262), 3, 1, 0; (11295), 3, 1, 0; (11306), 3, 1, 0; (11314), 6, 2, 7; (11322), 3, 1, 0; (11354), 3, 1, 0; (11401), 3, 1, 0; (11414), 3, 1, 0; (11465), 3, 1, 0; (11488), 3, 1, 0; (11509), 3, 1, 0; (11554), 6, 2, 1; (11595), 3, 1, 0; (11607), 3, 1, 0; (11622), 3, 1, 0; (11633), 3, 1, 0; (11655), 3, 1, 0; (11656), 3, 1, 0; (11658), 3, 1, 0; (11663), 6, 2, 6; (11669), 3, 1, 0; (11729), 6, 2, 9; (11750), 3, 1, 0; (11803), 3, 1, 0; (11959), 3, 1, 0; (12052), 3, 1, 0; (12117), 3, 1, 0; (12121), 3, 1, 0; (12242), 3, 1, 0; (12531), 6, 2, 10; (12649), 3, 1, 0; (12929), 3, 1, 0; (13402), 3, 1, 0; (13563), 3, 1, 0; (14795), 3, 1, 0; (14827), 3, 1, 0; (15278), 3, 1, 0; (15419), 3, 1, 0; (15674), 3, 1, 0; (15678), 3, 1, 0; (15704), 3, 1, 0; (15706), 3, 1, 0; (15712), 3, 1, 0; (15835), 3, 1, 0; (15918), 3, 1, 0; (16004), 3, 1, 0; (16355), 3, 1, 0; (16359), 3, 1, 0; (16362), 6, 2, 6; (16364), 3, 1, 0; (1

3, 1, 0; (16589), 3, 1, 0; (16594), 6, 2, 17; (16595), 3, 1, 0; (16597), 3, 1, 0; (16598), 6, 2, 14; (16608), 3, 1, 0; (16614), 3, 1, 0; (16616), 3, 1, 0; (16619), 3, 1, 0; (16626), 3, 1, 0; (16636), 3, 1, 0; (16648), 3, 1, 0; (16650), 3, 1, 0; (16652), 3, 1, 0; (16658), 3, 1, 0; (16660), 3, 1, 0; (16667), 3, 1, 0; (16686), 6, 2, 14; (16701), 3, 1, 0; (16703), 3, 1, 0; (16706), 3, 1, 0; (16709), 3, 1, 0; (16715), 6, 2, 17; (16718), 6, 2, 2; (16735), 6, 2, 1; (16737), 3, 1, 0; (16749), 3, 1, 0; (16751), 3, 1, 0; (16765), 3, 1, 0; (16770), 3, 1, 0; (16773), 3, 1, 0; (16774), 3, 1, 0; (16780), 6, 2, 6; (16782), 3, 1, 0; (16783), 3, 1, 0; (16790), 3, 1, 0; (16793), 6, 2, 5; (16803), 3, 1, 0; (16828), 3, 1, 0; (16850), 3, 1, 0; (16852), 3, 1, 0; (16858), 3, 1, 0; (16861), 3, 1, 0; (16887), 3, 1, 0; (16890), 3, 1, 0; (16892), 3, 1, 0; (16894), 6, 2, 1; (16902), 3, 1, 0; (16905), 3, 1, 0; (16909), 3, 1, 0; (16915), 3, 1, 0; (16917), 3, 1, 0; (16924), 3, 1, 0; (16927), 3, 1, 0; (16928), 3, 1, 0; (16937), 6, 2, 14; (16938), 3, 1, 0; (16939), 3, 1, 0; (16942), 3, 1, 0; (16943), 3, 1, 0; (16952), 3, 1, 0; (16984), 3, 1, 0; (16990), 6, 2, 5; (16993), 3, 1, 0; (16996), 3, 1, 0; (17000), 3, 1, 0; (17010), 3, 1, 0; (17015), 3, 1, 0; (17017), 3, 1, 0; (17020), 6, 2, 17; (17026), 3, 1, 0; (17028), 3, 1, 0; (17033), 6, 2, 6; (17038), 6, 2, 12; (17043), 3, 1, 0; (17064), 3, 1, 0; (17077), 3, 1, 0; (17079), 3, 1, 0; (17099), 6, 2, 6; (17102), 6, 2, 10; (17107), 3, 1, 0; (17112), 3, 1, 0; (17115), 6, 2, 5; (17117), 3, 1, 0; (17126), 3, 1, 0; (17127), 3, 1, 0; (17130), 6, 2, 5; (17131), 3, 1, 0; (17132), 6, 2, 5; (17134), 3, 1, 0; (17157), 3, 1, 0; (17167), 3, 1, 0; (17168), 6, 2, 14; (17279), 6, 2, 2; (17285), 3, 1, 0; (17291), 6, 2, 7; (17298), 3, 1, 0; (17303), 3, 1, 0; (17308), 3, 1, 0; (17310), 3, 1, 0; (17311), 3, 1, 0; (17315), 3, 1, 0; (17318), 3, 1, 0; (17321), 3, 1, 0; (17332), 3, 1, 0; (17340), 3, 1, 0; (17342), 3, 1, 0; [17214, 4904, 237\*, 1996/03/17–2000/10/06]

### 611 Starkenburg Sternwarte, Heppenheim

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

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

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 JT<sub>30</sub>, 2, 1, 0; 1999 NA<sub>41</sub>, 2, 1, 0; 2000 DP<sub>107</sub>, 5, 1, 0; 2000 OS<sub>48</sub>, 2, 1, 0; 2000 QU<sub>7</sub>, 5, 1, 0; 2000 QY<sub>138</sub>, 2, 1, 0; 2000 RM<sub>12</sub>, 10, 1, 0; 2000 SF<sub>8</sub>, 5, 1, 0; 2000 SJ<sub>8</sub>, 4, 1, 0; 2000 SM<sub>10</sub>, 5, 1, 0; 2000 SN<sub>10</sub>, 5, 1, 0; 2000 SP<sub>43</sub>, 3, 1, 0; 2000 SU<sub>180</sub>, 1, 1, 0; (2357), 2, 1, 0; (7454), 2, 1, 0; (9124), 2, 1, 0; [57, 16, 0\*, 2000/09/19–2000/10/02]

### 615 St. Véran

J. Schwaenen, Allée D 5, B-6001 Marcinelle, Belgium

[jean.schwaenen@worldonline.be]

Observers L. Šarounová, J. Montanne, J.-C. Le Floch

Measurer J. Boussuge

0.62-m  $f/3$  reflector + focal reducer + CCD

USNO-SA2.0

1997 UO<sub>9</sub>, 3, 1, 0; 1998 HZ<sub>129</sub>, 3, 1, 0; 2000 MK<sub>2</sub>, 4, 1, 0; 2000 OL<sub>50</sub>, 4, 2, 1; 2000 PU<sub>9</sub>, 4, 1, 0; 2000 QX<sub>68</sub>, 8, 2, 1; 2000 QY<sub>112</sub>, 4, 1, 0; [30, 7, 0\*, 2000/08/22–2000/09/24]

### 620 Observatorio Astronómico de Mallorca

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

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

Observers S. Sanchez, M. Blasco

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

USNO-SA2

(16535), 3, 1, 0; [3, 1, 0\*, 2000/10/07–2000/10/08]

### 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

1995 SM<sub>55</sub>, 14, 4, 30; 1998 DH<sub>15</sub>, 8, 3, 2; 1998 FO<sub>74</sub>, 7, 3, 12; 1999 GG<sub>28</sub>, 2, 1, 0; 1999 KR<sub>5</sub>, 10, 3, 10; 1999 TC<sub>36</sub>, 12, 2, 4; 2000 OH<sub>8</sub>, 2, 2; 2000 OW<sub>21</sub>, 6, 2, 7; 2000 OH<sub>44</sub>, 6, 2, 4; 2000 PJ<sub>6</sub>, 3, 6; 2000 PK<sub>11</sub>, 4, 11; 2000 PD<sub>3</sub>, 9, 3, 4; 2000 PU<sub>5</sub>, 15, 5, 14; 2000 PW<sub>5</sub>, 5, 2, 1; 2000 QR<sub>9</sub>, 4, 2, 1; 2000 QS<sub>9</sub>, 8, 4, 13; 2000 QT<sub>9</sub>, 6, 3, 2; 2000 QU<sub>9</sub>, 12, 5, 16; 2000 QQ<sub>100</sub>, 4, 2, 1; 2000 QV<sub>109</sub>, 4, 2, 1; 2000 QW<sub>109</sub>, 6, 3, 13; 2000 QL<sub>138</sub>, 5, 2, 1; 2000 QT<sub>138</sub>, 3, 1, 0; 2000 QD<sub>208</sub>, 5, 2, 1; 2000 QG<sub>232</sub> \*, 3, 1, 0; 2000 SL<sub>43</sub> \*, 10, 4, 11; 2000 SM<sub>43</sub> \*, 22, 6, 15; 2000 SN<sub>43</sub> \*, 11, 4, 10; 2000 SO<sub>43</sub> \*, 14, 5, 14; 2000 SO<sub>191</sub>, 6, 2, 4; 2000 SZ<sub>320</sub> \*, 6, 2, 4; 2000 SA<sub>321</sub> \*, 11, 3, 8;

2000 TY<sub>33</sub> \*, 9, 2, 4; 2000 TZ<sub>33</sub> \*, 4, 2, 4; 2000 TA<sub>34</sub> \*, 6, 2, 4; 2000 TB<sub>34</sub> \*, 10, 2, 4; 1251 T-2, 7, 2, 8; (3302), 5, 2, 3; (9402), 8, 2, 3; (10498), 6, 2, 4; (16851), 7, 2, 4; (17318), 4, 2, 1; [325, 42, 11\*, 1999/04/23–2000/10/08]

### 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 DP<sub>107</sub>, 13, 2, 6; (192), 3, 1, 0; (467), 3, 1, 0; (1468), 3, 1, 0; (1719), 3, 1, 0; [25, 5, 0\*, 2000/09/11–2000/10/03]

### 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

1986 EL<sub>5</sub>, 5, 1, 0; 1990 OV<sub>4</sub>, 10, 2, 11; 1992 UU<sub>4</sub>, 3, 1, 0; 1996 VP<sub>6</sub>, 2, 1, 0; 1998 BR<sub>7</sub>, 5, 1, 0; 1998 FW<sub>61</sub>, 5, 1, 0; 1999 GW<sub>6</sub>, 6, 1, 0; 1999 JP<sub>14</sub>, 5, 1, 0; 2000 KH<sub>68</sub>, 4, 1, 0; 2000 LZ<sub>2</sub>, 8, 2, 7; 2000 MC<sub>8</sub>, 2, 12; 2000 OO<sub>7</sub>, 5, 1, 0; 2000 OA<sub>48</sub>, 10, 2, 6; 2000 OO<sub>51</sub>, 4, 1, 0; 2000 OB<sub>52</sub>, 5, 1, 0; 2000 QE<sub>121</sub>, 5, 1, 0; 2000 RA<sub>51</sub>, 5, 1, 0; 2000 RD<sub>97</sub>, 4, 1, 0; 2000 RO<sub>97</sub>, 6, 1, 0; 2000 RU<sub>100</sub>, 5, 1, 0; 2000 SP<sub>43</sub>, 2, 1, 0; (6509), 5, 1, 0; (8563), 5, 1, 0; (15700), 5, 1, 0; (16355), 5, 1, 0; (16744), 5, 1, 0; (16834), 7, 2, 10; (17152), 3, 1, 0; [147, 28, 0\*, 2000/09/11–2000/10/08]

### 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 DP<sub>107</sub>, 6, 1, 0; [6, 1, 0\*, 2000/10/07]

### 636 Essen

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

0.318-m  $f/5.7$  reflector + CCD

USNO-A2.0

1998 BR<sub>7</sub>, 3, 1, 0; 1998 FH<sub>113</sub>, 2, 1, 0; 1998 FG<sub>123</sub>, 2, 1, 0; 1998 HL<sub>39</sub>, 2, 1, 0; 1998 VZ<sub>30</sub>, 2, 1, 0; 2000 KH<sub>68</sub>, 6, 2, 4; 2000 MC<sub>3</sub>, 1, 0; 2000 OL<sub>4</sub>, 1, 0; 2000 PD<sub>3</sub>, 1, 0; 2000 SP<sub>43</sub>, 6, 2, 1; (537), 2, 1, 0; (2064), 2, 1, 0; (2136), 2, 1, 0; (2699), 2, 1, 0; (3140), 2, 1, 0; (4117), 2, 1, 0; (6509), 2, 1, 0; (14921), 3, 1, 0; (15166), 2, 1, 0; (15276), 2, 1, 0; [54, 20, 0\*, 2000/04/25–2000/09/27]

### 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>, 12, 4, 7; 2000 RM<sub>12</sub>, 3, 1, 0; (10932), 3, 1, 0; (17274), 3, 1, 0; [21, 4, 0\*, 2000/09/19–2000/09/30]

### 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 DP<sub>107</sub>, 11, 2, 1; 2000 MC<sub>4</sub>, 1, 0; 2000 OG<sub>8</sub>, 26, 6, 11; 2000 OG<sub>44</sub>, 6, 2, 13; 2000 QU<sub>7</sub>, 6, 2, 1; 2000 RM<sub>12</sub>, 11, 3, 2; 2000 RD<sub>53</sub>, 20, 4, 6; 2000 SA<sub>10</sub>, 2, 1, 0; 2000 SV<sub>20</sub>, 11, 2, 1; 2000 SP<sub>43</sub>, 4, 1, 0; (1172), 4, 1, 0; (1184), 2, 1, 0; (4434), 2, 1, 0; (16635), 7, 2, 24; (17274), 24, 6, 21; [140, 15, 0\*, 2000/09/11–2000/10/07]

**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, A. Ruud

0.57-m Cassegrain reflector + CCD

USNO

2000 KN<sub>38</sub>, 3, 2, 23; 2000 KO<sub>38</sub>, 2, 1, 0; 2000 OQ<sub>7</sub>, 2, 1, 0; 2000 OR<sub>7</sub>, 2, 1, 0; 2000 SK<sub>188</sub>, 7, 3, 7; 2000 SL<sub>233</sub> \*, 8, 3, 5; 2000 TH \*, 5, 2, 5; 2000 TJ \*, 8, 4, 8; 2000 TJ<sub>2</sub> \*, 6, 2, 3; 2000 TK<sub>2</sub> \*, 6, 2, 3; [49, 10, 5\*, 2000/06/07–2000/10/05]

**644 Palomar Mountain/NEAT**

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 GN<sub>30</sub>, 3, 1, 0; [3, 1, 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 R. Fredrick, S. Kranz, R. Alonzi, D. Kindberg, D. Reuss, D. Trentman

Measurers D. Trentman, S. Kranz, D. Kindberg, R. Alonzi, J. Alburty

0.30-m Schmidt-Cassegrain + CCD

GSC-1.1

1999 JK<sub>102</sub>, 3, 1, 0; 2000 QX<sub>2</sub>, 3, 1, 0; 2000 QY<sub>71</sub>, 3, 1, 0; 2000 RQ<sub>32</sub>, 3, 1, 0; 2000 RV<sub>32</sub>, 3, 1, 0; 2000 RT<sub>35</sub>, 3, 1, 0; 2000 RG<sub>41</sub>, 3, 1, 0; 2000 RC<sub>56</sub>, 3, 1, 0; 2000 RY<sub>83</sub>, 3, 1, 0; 2000 RV<sub>90</sub>, 3, 1, 0; 2000 RC<sub>92</sub>, 3, 1, 0; 2000 RD<sub>92</sub>, 3, 1, 0; 2000 SK<sub>4</sub>, 3, 1, 0; 2000 SQ<sub>74</sub>, 2, 1, 0; 2000 SR<sub>74</sub>, 3, 1, 0; 2000 SU<sub>74</sub>, 3, 1, 0; 2000 TJ<sub>1</sub>, 3, 1, 0; (2692), 3, 1, 0; (3142), 3, 1, 0; (5291), 3, 1, 0; (5610), 3, 1, 0; [62, 21, 0\*, 2000/09/26–2000/10/09]

**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

1997 WO<sub>8</sub>, 3, 1, 0; 1999 JW<sub>112</sub>, 4, 1, 0; [7, 2, 0\*, 1995/02/28–1997/11/09]

**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

1998 RO<sub>1</sub>, 2, 1, 0; 2000 DP<sub>107</sub>, 8, 3, 9; 2000 GK<sub>137</sub>, 2, 1, 0; 2000 NF<sub>5</sub>, 2, 1, 0; 2000 QU<sub>7</sub>, 3, 1, 0; 2000 QN<sub>130</sub>, 3, 1, 0; 2000 RS<sub>11</sub>, 2, 1, 0; 2000 RM<sub>12</sub>, 5, 2, 23; 2000 RJ<sub>34</sub>, 2, 1, 0; 2000 RD<sub>53</sub>, 3, 1, 0; 2000 SY<sub>2</sub>, 2, 1, 0; 2000 SF<sub>8</sub>, 3, 1, 0; 2000 SG<sub>8</sub>, 2, 1, 0; 2000 SH<sub>8</sub>, 2, 1, 0; 2000 SM<sub>10</sub>, 2, 1, 0; 2000 SN<sub>10</sub>, 1, 1, 0; 2000 SU<sub>20</sub>, 2, 1, 0; 2000 SV<sub>20</sub>, 6, 3, 9; 2000 SR<sub>42</sub>, 2, 1, 0; 2000 SP<sub>43</sub>, 10, 3, 8; 2000 TJ<sub>1</sub>, 2, 1, 0; (9454), 3, 1, 0; [69, 22, 0\*, 2000/09/11–2000/10/04]

**673 Table Mountain Observatory**

M. Hicks, Jet Propulsion Laboratory, MS 183-501, 4800 Oak Grove Drive,

Pasadena, CA 91109, U.S.A. [hicksm@scn1.jpl.nasa.gov]

Observers C. G. Ramirez, M. Anderson, L. Kuang, R. Martinez, M. Hicks,

C. Ramirez, S. Gillam, D. Arvidson, W. Jordon, M. Majic, J. Ramirez,

B. Bozek, B. Buratti, M. Garske

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

0.61-m  $f/16$  reflector + CCD

ACT

2000 QS<sub>227</sub>, 2, 1, 0; 2000 SL<sub>10</sub>, 3, 1, 0; 2000 SM<sub>10</sub>, 2, 1, 0; 2000 SN<sub>10</sub>, 2, 1, 0; 2000 SO<sub>10</sub>, 3, 1, 0; 2000 SR<sub>20</sub>, 3, 1, 0; 2000 ST<sub>20</sub>, 3, 1, 0; 2000 SK<sub>183</sub> \*, 1, 1, 0; [19, 8, 1\*, 2000/09/20–2000/09/24]

**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} 1992 BC, 2, 1, 0; 1993 UR<sub>4</sub>, 2, 1, 0; [4, 2, 0\*, 1992/01/24–1993/10/19]

{6} 1981 EF<sub>9</sub>, 2, 1, 0; 1986 QW, 2, 1, 0; [4, 2, 0\*, 1952/05/24–1979/10/18]

{9} 1999 FB<sub>31</sub>, 1, 1, 0; 1999 JC<sub>80</sub>, 1, 1, 0; 7562 P-L, 1, 1, 0; [3, 3, 0\*, 1986/03/04–1990/09/28]

**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 OP<sub>7</sub>, 7, 2, 1; 2000 SU<sub>44</sub> \*, 18, 6, 8; 2000 TK \*, 6, 2, 1; 2000 TL \*, 5, 2, 1; 2000 TW<sub>28</sub> \*, 6, 2, 1; 2000 TX<sub>28</sub> \*, 4, 2, 1; [46, 6, 5\*, 2000/09/28–2000/10/07]

**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

1981 EH<sub>39</sub>, 2, 1, 0; 1995 TB<sub>8</sub>, 2, 1, 0; 1996 PA<sub>1</sub>, 4, 2, 1; 1996 SM, 4, 2, 1; 1997 EP, 4, 2, 1; 1998 BZ<sub>3</sub>, 8, 4, 3; 1998 DS<sub>20</sub>, 5, 2, 1; 1998 FA<sub>5</sub>, 4, 2, 1; 1998 SM<sub>165</sub>, 4, 2, 1; 1999 GF<sub>2</sub>, 6, 2, 1; 1999 HA, 5, 2, 1; 1999 JW<sub>8</sub>, 5, 2, 1; 1999 JE<sub>50</sub>, 2, 1, 0; 1999 XE<sub>37</sub>, 2, 1, 0; 2000 QJ<sub>140</sub>, 5, 2, 1; 2000 QS<sub>226</sub>, 3, 1, 0; 2000 RU<sub>2</sub>, 2, 1, 0; 2000 RG<sub>5</sub>, 3, 1, 0; 2000 RM<sub>47</sub>, 4, 2, 1; 2000 RF<sub>74</sub>, 4, 2, 1; 2000 RK<sub>78</sub>, 2, 1, 0; 2000 SL, 2, 1, 0; 2000 SV<sub>1</sub> \*, 5, 2, 2; 2000 SV<sub>2</sub> \*, 4, 2, 1; 2000 SX<sub>2</sub>, 4, 2, 1; 2000 SJ<sub>5</sub>, 5, 2, 1; 2000 SD<sub>8</sub>, 8, 3, 3; 2000 SO<sub>8</sub> \*, 5, 2, 1; 2000 SP<sub>8</sub> \*, 4, 2, 1; 2000 SQ<sub>8</sub> \*, 5, 2, 1; 2000 SR<sub>8</sub> \*, 5, 2, 1; 2000 SS<sub>8</sub> \*, 4, 2, 1; 2000 ST<sub>8</sub> \*, 7, 3, 2; 2000 SU<sub>8</sub> \*, 9, 3, 2; 2000 SO<sub>10</sub>, 5, 2, 1; 2000 SR<sub>10</sub> \*, 5, 2, 1; 2000 SS<sub>10</sub> \*, 4, 2, 1; 2000 ST<sub>10</sub> \*, 6, 2, 1; 2000 SU<sub>10</sub> \*, 5, 2, 1; 2000 SV<sub>10</sub> \*, 5, 2, 1; 2000 SW<sub>10</sub> \*, 4, 2, 1; 2000 SX<sub>10</sub> \*, 4, 2, 1; 2000 SQ<sub>42</sub>, 3, 1, 0; 2000 SE<sub>45</sub>, 3, 1, 0; 2000 SQ<sub>82</sub>, 3, 1, 0; 2000 SV<sub>122</sub>, 3, 1, 0; 2000 SQ<sub>124</sub>, 7, 3, 3; 2000 SY<sub>162</sub>, 4, 2, 1; 2000 SV<sub>182</sub>, 3, 1, 0; 2000 SC<sub>216</sub>, 4, 2, 1; 2000 SC<sub>241</sub>, 3, 1, 0; 2000 TD \*, 6, 3, 2; 2000 TE \*, 6, 3, 2; 2000 TF \*, 4, 2, 1; 2000 TG \*, 5, 2, 1; 2000 TN<sub>1</sub> \*, 6, 2, 1; 2000 TO<sub>1</sub> \*, 4, 2, 1; 2000 TP<sub>1</sub> \*, 8, 3, 3; 2000 TQ<sub>1</sub> \*, 7, 3, 3; 2000 TO<sub>22</sub> \*, 5, 2, 1; 2000 TP<sub>22</sub> \*, 4, 2, 1; 2000 TQ<sub>22</sub> \*, 5, 2, 1; 2000 TU<sub>28</sub>, 4, 1, 0; (1658), 2, 1, 0; (5880), 3, 1, 0; [287, 65, 27\*, 1997/08/01–2000/10/07]

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Observers M. W. Buie (1), L. H. Wasserman (5), B. A. Skiff (6)

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

USNO-A2.0

{1} 1996 WB<sub>1</sub>, 3, 1, 0; 1998 KV<sub>66</sub>, 3, 1, 0; 1999 LM<sub>13</sub>, 2, 1, 0; 2000 RQ<sub>23</sub>, 2, 1, 0; 2000 RK<sub>73</sub>, 2, 1, 0; [12, 5, 0\*, 1997/12/27–1998/04/20]

{5} 2000 RL<sub>10</sub>, 3, 1, 0; [3, 1, 0\*, 2000/07/06]

{6} 2000 RC<sub>79</sub>, 4, 1, 0; [4, 1, 0\*, 2000/09/11]

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C. B. Luginbuhl, U.S. Naval Observatory Flagstaff Station, P.O. Box 1149,  
Flagstaff AZ 86002-1149 [cluginbuhl@nobs.navy.mil]

1.0-m reflector + CCD

USNO-A1.0

(9048), 1, 1, 0; [1, 1, 0\*, 1996/12/29]

### 691 Kitt Peak, Steward Observatory

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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

0.91-m Spacewatch telescope + CCD

USNO-A1.0, USNO-SA1.0

1972 GJ<sub>3</sub>, 3, 1, 0; 1977 DH<sub>4</sub>, 3, 1, 0; 1978 UF<sub>7</sub>, 3, 1, 0; 1978 VF<sub>3</sub>, 3, 1, 0; 1978 VX<sub>8</sub>, 3, 1, 0;  
1979 OV<sub>4</sub>, 3, 1, 0; 1980 FK<sub>4</sub>, 6, 1, 0; 1981 EJ<sub>4</sub>, 3, 1, 0; 1981 ER<sub>8</sub>, 3, 1, 0; 1981 EH<sub>10</sub>, 3, 1, 0;  
1981 EC<sub>11</sub>, 3, 1, 0; 1981 EV<sub>13</sub>, 3, 1, 0; 1981 EP<sub>18</sub>, 3, 1, 0; 1981 EA<sub>27</sub>, 3, 1, 0; 1981 EQ<sub>37</sub>, 3, 1,  
0; 1981 EY<sub>40</sub>, 3, 1, 0; 1981 ET<sub>43</sub>, 3, 1, 0; 1981 EZ<sub>44</sub>, 3, 1, 0; 1981 EK<sub>47</sub>, 3, 1, 0; 1981 EF<sub>48</sub>, 3,  
1, 0; 1982 UR<sub>2</sub>, 3, 1, 0; 1984 HA<sub>2</sub>, 2, 1, 0; 1986 QK<sub>3</sub>, 3, 1, 0; 1988 RN<sub>10</sub>, 3, 1, 0; 1988 RO<sub>10</sub>, 6,  
2, 1; 1988 RX<sub>10</sub>, 3, 1, 0; 1988 RH<sub>11</sub>, 3, 1, 0; 1988 RY<sub>12</sub>, 3, 1, 0; 1988 SA<sub>3</sub>, 3, 1, 0; 1989 SY<sub>3</sub>,  
3, 1, 0; 1989 TG<sub>16</sub>, 3, 1, 0; 1989 UC<sub>5</sub>, 3, 1, 0; 1990 EH<sub>1</sub>, 3, 1, 0; 1990 ET<sub>2</sub>, 3, 1, 0; 1990 QF<sub>9</sub>,  
3, 1, 0; 1990 RJ<sub>3</sub>, 3, 1, 0; 1990 SA<sub>7</sub>, 3, 1, 0; 1990 TP<sub>7</sub>, 3, 1, 0; 1990 VU<sub>3</sub>, 3, 1, 0; 1990 VE<sub>6</sub>, 3,  
1, 0; 1990 WT<sub>6</sub>, 3, 1, 0; 1991 BT<sub>3</sub>, 3, 1, 0; 1991 FS<sub>1</sub>, 3, 1, 0; 1991 GA<sub>7</sub>, 3, 1, 0; 1991 GG<sub>7</sub>, 3, 1,  
0; 1991 NK<sub>3</sub>, 3, 1, 0; 1991 PX<sub>2</sub>, 3, 1, 0; 1991 PZ<sub>5</sub>, 3, 1, 0; 1991 RT<sub>8</sub>, 3, 1, 0; 1991 RN<sub>9</sub>, 3, 1, 0;  
1991 TG<sub>14</sub>, 6, 2, 423; 1992 CY<sub>4</sub>, 3, 1, 0; 1992 DT<sub>10</sub>, 3, 1, 0; 1992 EO<sub>9</sub>, 3, 1, 0; 1992 EY<sub>14</sub>, 3,  
1, 0; 1992 EO<sub>27</sub>, 3, 1, 0; 1992 FD<sub>1</sub>, 3, 1, 0; 1992 HH<sub>5</sub>, 3, 1, 0; 1992 JD<sub>3</sub>, 3, 1, 0; 1992 OO<sub>2</sub>, 3,  
1, 0; 1992 QK<sub>3</sub>, 3, 1, 0; 1992 RQ<sub>7</sub>, 3, 1, 0; 1992 WS<sub>4</sub>, 3, 1, 0; 1993 BR<sub>4</sub>, 3, 1, 0; 1993 FM<sub>7</sub>, 3, 1,  
0; 1993 FC<sub>9</sub>, 3, 1, 0; 1993 FN<sub>19</sub>, 6, 2, 5; 1993 FO<sub>19</sub>, 3, 1, 0; 1993 FL<sub>20</sub>, 3, 1, 0; 1993 FJ<sub>23</sub>, 6, 2,  
1; 1993 FZ<sub>23</sub>, 3, 1, 0; 1993 FD<sub>34</sub>, 3, 1, 0; 1993 FM<sub>40</sub>, 3, 1, 0; 1993 FR<sub>41</sub>, 3, 1, 0; 1993 FR<sub>46</sub>, 3,  
1, 0; 1993 FJ<sub>48</sub>, 6, 2, 1; 1993 FF<sub>53</sub>, 3, 1, 0; 1993 FM<sub>66</sub>, 3, 1, 0; 1993 FL<sub>79</sub>, 3, 1, 0; 1993 OC<sub>1</sub>,  
3, 1, 0; 1993 OE<sub>2</sub>, 3, 1, 0; 1993 OL<sub>5</sub>, 3, 1, 0; 1993 QX<sub>2</sub>, 3, 1, 0; 1993 RB<sub>3</sub>, 3, 1, 0; 1993 RM<sub>9</sub>,  
3, 1, 0; 1993 RS<sub>14</sub>, 3, 1, 0; 1993 SX<sub>6</sub>, 3, 1, 0; 1993 TO<sub>6</sub>, 3, 1, 0; 1993 TO<sub>8</sub>, 3, 1, 0; 1993 TX<sub>19</sub>,  
6, 2, 5; 1993 TT<sub>22</sub>, 3, 1, 0; 1993 TG<sub>39</sub>, 3, 1, 0; 1994 AU<sub>3</sub>, 3, 1, 0; 1994 AX<sub>3</sub>, 3, 1, 0; 1994 BN<sub>3</sub>, 3,  
1, 0; 1994 ES<sub>3</sub>, 2, 1, 0; 1994 GO<sub>5</sub>, 3, 1, 0; 1994 PJ<sub>13</sub>, 3, 1, 0; 1994 PU<sub>13</sub>, 3, 1, 0; 1994 PZ<sub>13</sub>, 2,  
1, 0; 1994 PQ<sub>14</sub>, 3, 1, 0; 1994 PA<sub>17</sub>, 3, 1, 0; 1994 PG<sub>29</sub>, 3, 1, 0; 1994 PA<sub>31</sub>, 3, 1, 0; 1994 PD<sub>38</sub>,  
3, 1, 0; 1994 RC<sub>17</sub>, 3, 1, 0; 1994 TA<sub>2</sub>, 3, 1, 0; 1994 TE<sub>2</sub>, 3, 1, 0; 1994 XD<sub>1</sub>, 1, 1, 0; 1995 AU<sub>3</sub>,  
3, 1, 0; 1995 CS<sub>3</sub>, 3, 1, 0; 1995 CU<sub>4</sub>, 3, 1, 0; 1995 CM<sub>6</sub>, 3, 1, 0; 1995 DR<sub>3</sub>, 3, 1, 0; 1995 DY<sub>2</sub>, 3,  
1, 0; 1995 DN<sub>6</sub>, 3, 1, 0; 1995 DU<sub>6</sub>, 3, 1, 0; 1995 DB<sub>7</sub>, 3, 1, 0; 1995 EU<sub>1</sub>, 3, 1, 0; 1995 FW<sub>3</sub>, 3,  
1, 0; 1995 QL<sub>9</sub>, 3, 472; 1995 SO<sub>3</sub>, 3, 1, 0; 1995 SH<sub>2</sub>, 3, 1, 0; 1995 SN<sub>13</sub>, 3, 1, 0; 1995 SZ<sub>43</sub>, 3,  
1, 0; 1995 SS<sub>48</sub>, 3, 1, 0; 1995 ST<sub>48</sub>, 3, 1, 0; 1995 SN<sub>51</sub>, 3, 1, 0; 1995 SE<sub>54</sub>, 3, 1, 0; 1995 TC<sub>3</sub>,  
3, 1, 0; 1995 TN<sub>3</sub>, 3, 1, 0; 1995 TS<sub>7</sub>, 3, 1, 0; 1995 UK<sub>2</sub>, 3, 1, 0; 1995 UN<sub>2</sub>, 3, 1, 0; 1995 UC<sub>9</sub>, 3, 1,  
0; 1995 UQ<sub>15</sub>, 3, 1, 0; 1995 UR<sub>31</sub>, 3, 1, 0; 1995 UZ<sub>42</sub>, 3, 1, 0; 1995 VK<sub>16</sub>, 3, 1, 0; 1995 WC<sub>3</sub>,  
3, 1, 0; 1995 WD<sub>17</sub>, 3, 1, 0; 1995 WX<sub>32</sub>, 5, 2, 1981; 1995 WV<sub>40</sub>, 3, 1, 0; 1995 YQ<sub>5</sub>, 6, 2, 2423;  
1996 CK<sub>7</sub>, 6, 2, 11; 1996 GD<sub>20</sub>, 3, 1, 0; 1996 HO<sub>24</sub>, 3, 1, 0; 1996 JN<sub>1</sub>, 3, 1, 0; 1996 KS<sub>4</sub>, 9, 3,  
2485; 1996 KX<sub>4</sub>, 3, 1, 0; 1996 LQ<sub>1</sub>, 6, 2, 2009; 1996 NQ<sub>2</sub>, 3, 1, 0; 1996 NM<sub>3</sub>, 3, 1, 0; 1996 NX<sub>3</sub>,  
3, 1, 0; 1996 OB<sub>1</sub>, 3, 1, 0; 1996 QX<sub>3</sub>, 3, 1, 0; 1996 RO<sub>2</sub>, 3, 1, 0; 1996 RD<sub>14</sub>, 3, 1, 0; 1996 SB<sub>6</sub>, 3,  
1, 0; 1996 SD<sub>6</sub>, 8, 3, 1920; 1996 SU<sub>8</sub>, 3, 1, 0; 1996 TB<sub>1</sub>, 3, 1, 0; 1996 TT<sub>1</sub>, 3, 1, 0; 1996 TN<sub>4</sub>, 3,  
1, 0; 1996 TH<sub>6</sub>, 3, 1, 0; 1996 TA<sub>10</sub>, 3, 1, 0; 1996 TH<sub>10</sub>, 3, 1, 0; 1996 TS<sub>32</sub>, 3, 1, 0; 1996 TG<sub>47</sub>, 3,  
1, 0; 1996 TA<sub>47</sub>, 3, 1, 0; 1996 TZ<sub>49</sub>, 3, 1, 0; 1996 TY<sub>64</sub>, 3, 1, 0; 1996 UU<sub>3</sub>, 3, 1, 0; 1996 UD<sub>1</sub>, 3, 1,  
0; 1996 VA<sub>2</sub>, 6, 2, 34; 1996 VK<sub>3</sub>, 3, 1, 0; 1996 VK<sub>4</sub>, 3, 1, 0; 1996 VA<sub>7</sub>, 3, 1, 0; 1996 VS<sub>13</sub>, 3, 1, 0;  
1996 VY<sub>37</sub>, 6, 2, 10; 1996 XE<sub>3</sub>, 3, 1, 0; 1996 XO<sub>10</sub>, 3, 1, 0; 1996 XS<sub>11</sub>, 3, 1, 0; 1996 XW<sub>11</sub>, 3, 1,  
0; 1997 AU<sub>5</sub>, 3, 1, 0; 1997 AW<sub>5</sub>, 3, 1, 0; 1997 AR<sub>7</sub>, 3, 1, 0; 1997 AP<sub>18</sub>, 3, 1, 0; 1997 AG<sub>20</sub>, 3, 1,  
0; 1997 BX<sub>1</sub>, 6, 2, 2558; 1997 BF<sub>2</sub>, 3, 1, 0; 1997 BS<sub>2</sub>, 3, 1, 0; 1997 BJ<sub>5</sub>, 3, 1, 0; 1997 BY<sub>8</sub>, 3, 1,  
0; 1997 CW<sub>19</sub>, 6, 2, 2952; 1997 DP<sub>3</sub>, 3, 1, 0; 1997 ET<sub>1</sub>, 3, 1, 0; 1997 EX<sub>32</sub>, 3, 1, 0; 1997 ET<sub>42</sub>, 3,  
1, 0; 1997 GA<sub>1</sub>, 3, 1, 0; 1997 GV<sub>18</sub>, 3, 1, 0; 1997 GK<sub>19</sub>, 3, 1, 0; 1997 GN<sub>21</sub>, 3, 1, 0; 1997 GG<sub>22</sub>,

6, 2, 1579; 1997 GW<sub>26</sub>, 6, 2, 17; 1997 HT<sub>5</sub>, 3, 1, 0; 1997 HS<sub>14</sub>, 9, 3, 2506; 1997 JV<sub>8</sub>, 8, 3, 921;  
1997 JM<sub>11</sub>, 3, 1, 0; 1997 QX<sub>6</sub>, 2, 2273; 1997 RC<sub>4</sub>, 3, 1, 0; 1997 ST<sub>1</sub>, 6, 2, 80; 1997 ST<sub>2</sub>, 6, 2, 22;  
1997 SL<sub>7</sub>, 3, 1, 0; 1997 SM<sub>31</sub>, 5, 2, 9; 1997 TT<sub>17</sub>, 6, 2, 1; 1997 TN<sub>21</sub>, 3, 1, 0; 1997 TZ<sub>23</sub>, 3, 1, 0;  
1997 TB<sub>24</sub>, 3, 1, 0; 1997 UF<sub>13</sub>, 3, 1, 0; 1997 UE<sub>24</sub>, 3, 1, 0; 1997 VT<sub>1</sub>, 3, 1, 0; 1997 WC<sub>3</sub>, 3, 1, 0;  
1997 WG<sub>2</sub>, 6, 2, 2563; 1997 WX<sub>2</sub>, 3, 1, 0; 1997 WP<sub>7</sub>, 6, 2, 1; 1997 WC<sub>8</sub>, 3, 1, 0; 1997 WQ<sub>10</sub>, 3, 1,  
0; 1997 WD<sub>16</sub>, 3, 1, 0; 1997 WH<sub>21</sub>, 5, 2, 4; 1997 WJ<sub>21</sub>, 3, 1, 0; 1997 WC<sub>31</sub>, 3, 1, 0; 1997 WS<sub>31</sub>,  
2, 1, 0; 1997 WW<sub>36</sub>, 3, 1, 0; 1997 XL<sub>3</sub>, 3, 1, 0; 1997 XF<sub>8</sub>, 3, 1, 0; 1997 YT<sub>3</sub>, 3, 1, 0; 1997 YM<sub>5</sub>, 3,  
1, 0; 1997 YL<sub>10</sub>, 3, 1, 0; 1997 YS<sub>13</sub>, 3, 1, 0; 1997 YN<sub>16</sub>, 3, 1, 0; 1997 YV<sub>20</sub>, 3, 1, 0; 1998 AF<sub>3</sub>, 3,  
1, 0; 1998 AK<sub>3</sub>, 3, 1, 0; 1998 AH<sub>6</sub>, 3, 1, 0; 1998 AW<sub>8</sub>, 3, 1, 0; 1998 BF<sub>3</sub>, 3, 1, 0; 1998 BU<sub>3</sub>, 3, 1, 0;  
1998 BJ<sub>2</sub>, 3, 1, 0; 1998 BA<sub>4</sub>, 8, 3, 468; 1998 BP<sub>9</sub>, 6, 2, 1; 1998 BC<sub>11</sub>, 3, 1, 0; 1998 BL<sub>11</sub>, 3, 1, 0;  
1998 BD<sub>15</sub>, 3, 1, 0; 1998 BJ<sub>24</sub>, 6, 2, 25; 1998 BS<sub>24</sub>, 6, 2, 974; 1998 BX<sub>24</sub>, 3, 1, 0; 1998 BA<sub>26</sub>, 3,  
1, 0; 1998 BL<sub>26</sub>, 3, 1, 0; 1998 BB<sub>34</sub>, 3, 1, 0; 1998 BN<sub>40</sub>, 3, 1, 0; 1998 BH<sub>47</sub>, 3, 1, 0; 1998 CE<sub>3</sub>, 3,  
1, 0; 1998 CZ<sub>2</sub>, 3, 1, 0; 1998 CM<sub>3</sub>, 3, 1, 0; 1998 CF<sub>4</sub>, 3, 1, 0; 1998 CE<sub>5</sub>, 3, 1, 0; 1998 DB<sub>3</sub>, 3, 1, 0;  
1998 DG<sub>11</sub>, 3, 1, 0; 1998 DZ<sub>12</sub>, 3, 1, 0; 1998 DH<sub>13</sub>, 3, 1, 0; 1998 DJ<sub>13</sub>, 3, 1, 0; 1998 DR<sub>13</sub>, 6, 2,  
2206; 1998 DS<sub>14</sub>, 3, 1, 0; 1998 DX<sub>19</sub>, 3, 1, 0; 1998 DQ<sub>21</sub>, 3, 1, 0; 1998 DA<sub>24</sub>, 3, 1, 0; 1998 DV<sub>27</sub>, 3,  
1, 0; 1998 DM<sub>29</sub>, 3, 1, 0; 1998 DU<sub>31</sub>, 3, 1, 0; 1998 DW<sub>33</sub>, 6, 2, 14; 1998 DJ<sub>34</sub>, 2, 1, 0; 1998 DE<sub>35</sub>,  
3, 1, 0; 1998 DQ<sub>35</sub>, 3, 1, 0; 1998 DV<sub>36</sub>, 3, 1, 0; 1998 DV<sub>37</sub>, 3, 1, 0; 1998 ES<sub>1</sub>, 6, 2, 1; 1998 EF<sub>2</sub>, 3,  
1, 0; 1998 EH<sub>5</sub>, 6, 2, 54; 1998 EC<sub>8</sub>, 3, 1, 0; 1998 EH<sub>8</sub>, 3, 1, 0; 1998 EC<sub>11</sub>, 3, 1, 0; 1998 EA<sub>13</sub>, 3,  
1, 0; 1998 EX<sub>13</sub>, 3, 1, 0; 1998 EK<sub>14</sub>, 3, 1, 0; 1998 ET<sub>14</sub>, 3, 1, 0; 1998 EV<sub>14</sub>, 6, 2, 928; 1998 EG<sub>15</sub>,  
3, 1, 0; 1998 EL<sub>19</sub>, 3, 1, 0; 1998 EM<sub>19</sub>, 3, 1, 0; 1998 FC<sub>3</sub>, 3, 1, 0; 1998 FT<sub>4</sub>, 3, 1, 0; 1998 FL<sub>6</sub>, 6, 2,  
1483; 1998 FG<sub>10</sub>, 3, 1, 0; 1998 FX<sub>10</sub>, 3, 1, 0; 1998 FF<sub>12</sub>, 3, 1, 0; 1998 FN<sub>12</sub>, 3, 1, 0; 1998 FN<sub>15</sub>,  
3, 1, 0; 1998 FL<sub>16</sub>, 3, 1, 0; 1998 FN<sub>16</sub>, 3, 1, 0; 1998 FW<sub>16</sub>, 3, 1, 0; 1998 FN<sub>17</sub>, 3, 1, 0; 1998 FY<sub>19</sub>,  
3, 1, 0; 1998 FX<sub>20</sub>, 3, 1, 0; 1998 FR<sub>22</sub>, 3, 1, 0; 1998 FL<sub>23</sub>, 2, 1, 0; 1998 FC<sub>24</sub>, 3, 1, 0; 1998 FN<sub>25</sub>,  
6, 2, 4; 1998 FT<sub>26</sub>, 3, 1, 0; 1998 FX<sub>31</sub>, 3, 1, 0; 1998 FM<sub>41</sub>, 3, 1, 0; 1998 FT<sub>41</sub>, 3, 1, 0; 1998 FA<sub>43</sub>,  
3, 1, 0; 1998 FS<sub>43</sub>, 3, 1, 0; 1998 FV<sub>43</sub>, 3, 1, 0; 1998 FS<sub>45</sub>, 3, 1, 0; 1998 FY<sub>45</sub>, 3, 1, 0; 1998 FA<sub>52</sub>,  
3, 1, 0; 1998 FH<sub>53</sub>, 6, 2, 1889; 1998 FL<sub>53</sub>, 3, 1, 0; 1998 FD<sub>54</sub>, 3, 1, 0; 1998 FM<sub>55</sub>, 6, 2, 23;  
1998 FV<sub>58</sub>, 3, 1, 0; 1998 FR<sub>59</sub>, 3, 1, 0; 1998 FY<sub>59</sub>, 3, 1, 0; 1998 FA<sub>60</sub>, 3, 1, 0; 1998 FB<sub>60</sub>, 3, 1,  
0; 1998 FE<sub>60</sub>, 3, 1, 0; 1998 FJ<sub>60</sub>, 6, 2, 416; 1998 FN<sub>61</sub>, 2, 1, 0; 1998 FX<sub>61</sub>, 3, 1, 0; 1998 FZ<sub>61</sub>, 3,  
1, 0; 1998 FO<sub>63</sub>, 3, 1, 0; 1998 FA<sub>64</sub>, 3, 1, 0; 1998 FH<sub>64</sub>, 3, 1, 0; 1998 FZ<sub>65</sub>, 9, 3, 61; 1998 FH<sub>66</sub>,  
5, 2, 1782; 1998 FU<sub>66</sub>, 3, 1, 0; 1998 FG<sub>67</sub>, 3, 1, 0; 1998 FM<sub>67</sub>, 3, 1, 0; 1998 FO<sub>67</sub>, 3, 1, 0;  
1998 FU<sub>67</sub>, 3, 1, 0; 1998 FZ<sub>67</sub>, 3, 1, 0; 1998 FE<sub>70</sub>, 3, 1, 0; 1998 FQ<sub>70</sub>, 3, 1, 0; 1998 FJ<sub>71</sub>, 3, 1, 0;  
1998 FO<sub>71</sub>, 3, 1, 0; 1998 FQ<sub>71</sub>, 3, 1, 0; 1998 FB<sub>72</sub>, 3, 1, 0; 1998 FD<sub>73</sub>, 3, 1, 0; 1998 FY<sub>73</sub>, 3, 1,  
0; 1998 FS<sub>76</sub>, 3, 1, 0; 1998 FZ<sub>76</sub>, 3, 1, 0; 1998 FS<sub>85</sub>, 3, 1, 0; 1998 FP<sub>90</sub>, 3, 1, 0; 1998 FW<sub>96</sub>, 3, 1,  
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1998 FK<sub>121</sub>, 3, 1, 0; 1998 FJ<sub>122</sub>, 2, 1, 0; 1998 FS<sub>122</sub>, 3, 1, 0; 1998 FO<sub>123</sub>, 3, 1, 0; 1998 FP<sub>127</sub>, 3,  
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3, 1, 0; 1998 GS<sub>6</sub>, 6, 2, 24; 1998 GW<sub>3</sub>, 3, 1, 0; 1998 GB<sub>10</sub>, 9, 3, 934; 1998 HW<sub>3</sub>, 3, 1, 0; 1998 HE<sub>1</sub>, 3,  
1, 0; 1998 HC<sub>3</sub>, 3, 1, 0; 1998 HA<sub>5</sub>, 3, 1, 0; 1998 HX<sub>5</sub>, 6, 2, 498; 1998 HV<sub>18</sub>, 3, 1, 0; 1998 HD<sub>22</sub>, 3,  
1, 0; 1998 HA<sub>28</sub>, 3, 1, 0; 1998 HN<sub>30</sub>, 3, 1, 0; 1998 HO<sub>32</sub>, 3, 1, 0; 1998 HZ<sub>32</sub>, 3, 1, 0; 1998 HN<sub>33</sub>,  
2, 1, 0; 1998 HE<sub>34</sub>, 6, 2, 64; 1998 HS<sub>37</sub>, 3, 1, 0; 1998 HE<sub>42</sub>, 3, 1, 0; 1998 HQ<sub>43</sub>, 5, 2, 1410;  
1998 HQ<sub>46</sub>, 3, 1, 0; 1998 HW<sub>46</sub>, 3, 1, 0; 1998 HJ<sub>67</sub>, 3, 1, 0; 1998 HV<sub>67</sub>, 3, 1, 0; 1998 HG<sub>68</sub>, 3, 1,  
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3, 1, 0; 1998 HO<sub>97</sub>, 3, 1, 0; 1998 HY<sub>101</sub>, 9, 3, 2577; 1998 HQ<sub>110</sub>, 3, 1, 0; 1998 HP<sub>123</sub>, 6, 2, 945;  
1998 HZ<sub>127</sub>, 3, 1, 0; 1998 HZ<sub>129</sub>, 3, 1, 0; 1998 HH<sub>130</sub>, 3, 1, 0; 1998 HW<sub>135</sub>, 3, 1, 0; 1998 HS<sub>136</sub>,  
3, 1, 0; 1998 HR<sub>137</sub>, 3, 1, 0; 1998 HV<sub>147</sub>, 6, 2, 24; 1998 HR<sub>153</sub>, 3, 1, 0; 1998 JU<sub>1</sub>, 3, 1, 0;  
1998 KA<sub>3</sub>, 3, 1, 0; 1998 KR<sub>7</sub>, 3, 1, 0; 1998 KM<sub>29</sub>, 3, 1, 0; 1998 KF<sub>67</sub>, 3, 1, 0; 1998 OR<sub>2</sub>, 3, 1, 0;  
1998 OR<sub>9</sub>, 6, 2, 113; 1998 QQ<sub>18</sub>, 3, 1, 0; 1998 QS<sub>24</sub>, 3, 1, 0; 1998 QN<sub>33</sub>, 3, 1, 0; 1998 QQ<sub>33</sub>, 3, 1,  
0; 1998 QU<sub>33</sub>, 3, 1, 0; 1998 QF<sub>36</sub>, 3, 1, 0; 1998 QN<sub>36</sub>, 3, 1, 0; 1998 QB<sub>37</sub>, 6, 2, 979; 1998 QB<sub>39</sub>, 3,  
1, 0; 1998 QD<sub>39</sub>, 6, 2, 45; 1998 QW<sub>40</sub>, 5, 2, 7; 1998 QF<sub>41</sub>, 3, 1, 0; 1998 QH<sub>41</sub>, 6, 2, 1; 1998 QJ<sub>42</sub>,  
3, 1, 0; 1998 QQ<sub>42</sub>, 2, 1, 0; 1998 QC<sub>47</sub>, 3, 1, 0; 1998 QH<sub>47</sub>, 9, 3, 613; 1998 QO<sub>48</sub>, 9, 3, 1034;  
1998 QE<sub>50</sub>, 3, 1, 0; 1998 QL<sub>54</sub>, 3, 1, 0; 1998 QN<sub>56</sub>, 3, 1, 0; 1998 QR<sub>56</sub>, 9, 3, 26; 1998 QT<sub>57</sub>, 3, 1,  
0; 1998 QU<sub>57</sub>, 3, 1, 0; 1998 QV<sub>57</sub>, 3, 1, 0; 1998 QZ<sub>57</sub>, 3, 1, 0; 1998 QB<sub>58</sub>, 6, 2, 14; 1998 QP<sub>58</sub>,  
3, 1, 0; 1998 QT<sub>58</sub>, 6, 2, 10; 1998 QD<sub>59</sub>, 3, 1, 0; 1998 QB<sub>70</sub>, 6, 2, 346; 1998 QG<sub>104</sub>, 3, 1, 0;  
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2, 5; 1998 RB<sub>73</sub>, 3, 1, 0; 1998 RD<sub>75</sub>, 3, 1, 0; 1998 SX<sub>1</sub>, 3, 1, 0; 1998 SY<sub>4</sub>, 3, 1, 0; 1998 SC<sub>10</sub>, 6,

3, 1, 0; 1998 TT<sub>34</sub>, 3, 1, 0; 1998 UY, 3, 1, 0; 1998 UV<sub>7</sub>, 3, 1, 0; 1998 UA<sub>9</sub>, 3, 1, 0; 1998 UK<sub>10</sub>, 6, 2, 25; 1998 UK<sub>14</sub>, 2, 1, 0; 1998 UV<sub>14</sub>, 3, 1, 0; 1998 UY<sub>14</sub>, 3, 1, 0; 1998 UV<sub>22</sub>, 3, 1, 0; 1998 UL<sub>24</sub>, 6, 2, 33; 1998 UV<sub>24</sub>, 3, 1, 0; 1998 UQ<sub>34</sub>, 3, 1, 0; 1998 US<sub>47</sub>, 3, 1, 0; 1998 VU<sub>1</sub>, 3, 1, 0; 1998 VF<sub>2</sub>, 2, 1, 0; 1998 VY<sub>2</sub>, 2, 1, 0; 1998 VZ<sub>2</sub>, 2, 1, 0; 1998 VR<sub>3</sub>, 3, 1, 0; 1998 VH<sub>3</sub>, 3, 1, 0; 1998 VR<sub>4</sub>, 3, 1, 0; 1998 VR<sub>14</sub>, 3, 1, 0; 1998 VJ<sub>15</sub>, 3, 1, 0; 1998 VD<sub>19</sub>, 11, 4, 51; 1998 VN<sub>20</sub>, 3, 1, 0; 1998 VF<sub>31</sub>, 3, 1, 0; 1998 VL<sub>32</sub>, 3, 1, 0; 1998 VL<sub>33</sub>, 2, 1, 0; 1998 VL<sub>34</sub>, 3, 1, 0; 1998 VL<sub>41</sub>, 5, 2, 4; 1998 VO<sub>41</sub>, 3, 1, 0; 1998 VA<sub>43</sub>, 3, 1, 0; 1998 WJ<sub>6</sub>, 3, 1, 0; 1998 WR<sub>10</sub>, 3, 1, 0; 1998 WW<sub>14</sub>, 3, 1, 0; 1998 WH<sub>16</sub>, 3, 1, 0; 1998 WK<sub>16</sub>, 3, 1, 0; 1998 WO<sub>17</sub>, 3, 1, 0; 1998 WS<sub>24</sub>, 5, 2, 12; 1998 WO<sub>25</sub>, 6, 2, 19; 1998 WY<sub>26</sub>, 9, 3, 487; 1998 WF<sub>32</sub>, 6, 2, 6; 1998 XY, 6, 2, 10; 1998 XB<sub>1</sub>, 3, 1, 0; 1998 XT<sub>1</sub>, 3, 1, 0; 1998 XJ<sub>2</sub>, 3, 1, 0; 1998 XZ<sub>6</sub>, 3, 1, 0; 1998 XP<sub>7</sub>, 3, 1, 0; 1998 XK<sub>13</sub>, 3, 1, 0; 1998 XA<sub>18</sub>, 3, 1, 0; 1998 XG<sub>21</sub>, 3, 1, 0; 1998 XJ<sub>24</sub>, 3, 1, 0; 1998 XP<sub>24</sub>, 3, 1, 0; 1998 XR<sub>25</sub>, 3, 1, 0; 1998 XH<sub>80</sub>, 3, 1, 0; 1998 XS<sub>96</sub>, 3, 1, 0; 1998 XB<sub>97</sub>, 6, 2, 23; 1998 YH<sub>2</sub>, 3, 1, 0; 1998 YR<sub>5</sub>, 3, 1, 0; 1998 YG<sub>8</sub>, 9, 3, 1059; 1998 YE<sub>14</sub>, 3, 1, 0; 1998 YB<sub>17</sub>, 3, 1, 0; 1998 YZ<sub>19</sub>, 3, 1, 0; 1998 YM<sub>21</sub>, 3, 1, 0; 1998 YN<sub>21</sub>, 3, 1, 0; 1998 YS<sub>21</sub>, 3, 1, 0; 1998 YE<sub>22</sub>, 3, 1, 0; 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3, 1, 0; 1999 RZ<sub>169</sub>, 6, 2, 12; 1999 RJ<sub>171</sub>, 3, 1, 0; 1999 RG<sub>173</sub>, 3, 1, 0; 1999 RS<sub>176</sub>, 3, 1, 0; 1999 RC<sub>182</sub>, 6, 2, 15; 1999 RP<sub>182</sub>, 3, 1, 0; 1999 RE<sub>183</sub>, 3, 1, 0; 1999 RT<sub>186</sub>, 3, 1, 0; 1999 RE<sub>239</sub>, 3, 1, 0; 1999 TG<sub>4</sub>, 3, 1, 0; 1999 TR<sub>6</sub>, 3, 1, 0; 1999 TG<sub>9</sub>, 3, 1, 0; 1999 TO<sub>9</sub>, 3, 1, 0; 1999 TQ<sub>10</sub>, 3, 1, 0; 1999 TO<sub>15</sub>, 3, 1, 0; 1999 TC<sub>17</sub>, 6, 2, 937; 1999 TO<sub>18</sub>, 3, 1, 0; 1999 TM<sub>21</sub>, 3, 1, 0; 1999 TA<sub>25</sub>, 3, 1, 0; 1999 TD<sub>25</sub>, 3, 1, 0; 1999 TD<sub>26</sub>, 5, 2, 621; 1999 TM<sub>28</sub>, 3, 1, 0; 1999 TD<sub>38</sub>, 6, 2, 620; 1999 TM<sub>45</sub>, 3, 1, 0; 1999 TQ<sub>59</sub>, 6, 2, 18; 1999 TE<sub>61</sub>, 3, 1, 0; 1999 TP<sub>62</sub>, 3, 1, 0; 1999 TC<sub>63</sub>, 3, 1, 0; 1999 TN<sub>63</sub>, 3, 1, 0; 1999 TK<sub>79</sub>, 6, 2, 1006; 1999 TH<sub>81</sub>, 6, 2, 14; 1999 TD<sub>83</sub>, 3, 1, 0; 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### 693 University of Arizona, Catalina Station

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

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

1.54-m reflector + CCD

1998 KJ<sub>60</sub>, 3, 1, 0; 2000 RX<sub>46</sub>, 3, 1, 0; [6, 2, 0\*, 1992/09/25–1998/05/27]

### 695 Kitt Peak

T. J. Balonek, Dept. of Physics and Astronomy, Colgate University, Hamilton, NY

13346, U.S.A. [tbalonek@colgate.edu] (2)

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

85721, U.S.A. [chergen@pir1.lpl.arizona.edu] (5)

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

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

{2} 2000 QF<sub>140</sub>, 3, 1, 0; [3, 1, 0\*, 1995/04/09]

{5} 2000 QU<sub>25</sub>, 4, 1, 0; [4, 1, 0\*, 1994/01/17]

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

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

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

1.2-m  $f/8$  reflector + CCD

USNO-A1.0

4875 P-L, 3, 1, 0; [3, 1, 0\*, 1997/11/09]

### 699 Lowell Observatory–LONEOS

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

U.S.A. [elgb@lowell.edu]

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

1974 CB, 4, 1, 0; 1975 SP<sub>1</sub>, 4, 1, 0; 1977 DH<sub>4</sub>, 4, 1, 0; 1978 VG<sub>4</sub>, 4, 1, 0; 1979 OV<sub>4</sub>, 4, 1, 0; 1981 DV, 4, 1, 0; 1981 DL<sub>1</sub>, 4, 1, 0; 1981 EJ<sub>4</sub>, 4, 1, 0; 1981 EF<sub>5</sub>, 4, 1, 0; 1981 EM<sub>5</sub>, 4, 1, 0; 1981 EM<sub>11</sub>, 4, 1, 0; 1981 ER<sub>29</sub>, 4, 1, 0; 1981 ET<sub>30</sub>, 4, 1, 0; 1981 ED<sub>36</sub>, 4, 1, 0; 1981 ED<sub>38</sub>, 4, 1, 0; 1981 EA<sub>47</sub>, 4, 1, 0; 1984 HA<sub>2</sub>, 3, 1, 0; 1985 RP<sub>4</sub>, 4, 1, 0; 1986 QG<sub>3</sub>, 4, 1, 0; 1987 TG, 4, 1, 0; 1988 EP, 4, 1, 0; 1988 RX<sub>10</sub>, 4, 1, 0; 1989 AM<sub>3</sub>, 4, 1, 0; 1989 CS<sub>1</sub>, 4, 1, 0; 1989 GM<sub>2</sub>, 4, 1, 0; 1989 SH<sub>4</sub>, 4, 1, 0; 1989 SH<sub>5</sub>, 4, 1, 0; 1989 SZ<sub>9</sub>, 4, 1, 0; 1989 SZ<sub>13</sub>, 3, 1, 0; 1989 TN, 4, 1, 0; 1989 TR<sub>3</sub>, 4, 1, 0; 1989 VJ, 4, 1, 0; 1990 OD<sub>5</sub>, 4, 1, 0; 1990 SH<sub>7</sub>, 4, 1, 0; 1990 SS<sub>7</sub>, 4, 1, 0; 1990 SL<sub>11</sub>, 4, 1, 0; 1990 TC<sub>1</sub>, 4, 1, 0; 1990 TJ<sub>8</sub>, 4, 1, 0; 1990 VU<sub>3</sub>, 4, 1, 0; 1990 VE<sub>6</sub>, 4, 1, 0; 1991 BT, 4, 1, 0; 1991 GY<sub>3</sub>, 4, 1, 0; 1991 GK<sub>5</sub>, 4, 1, 0; 1991 PC<sub>12</sub>, 4, 1, 0; 1991 RY<sub>4</sub>, 4, 1, 0; 1991 RA<sub>18</sub>, 4, 1, 0; 1991 TG<sub>14</sub>, 4, 1, 0; 1992 CR<sub>2</sub>, 4, 1, 0; 1992 DO<sub>6</sub>, 4, 1, 0; 1992 DQ<sub>7</sub>, 4, 1, 0; 1992 DN<sub>9</sub>, 3, 1, 0; 1992 DT<sub>10</sub>, 3, 1, 0; 1992 ER<sub>28</sub>, 4, 1, 0; 1992 EL<sub>35</sub>, 4, 1, 0; 1992 GX<sub>4</sub>, 4, 1, 0; 1992 OO<sub>2</sub>, 4, 1, 0; 1992 RP<sub>3</sub>, 4, 1, 0; 1992 WZ<sub>3</sub>, 4, 1, 0; 1993 FX<sub>2</sub>, 4, 1, 0; 1993 FU<sub>6</sub>, 4, 1, 0; 1993 FP<sub>11</sub>, 4, 1, 0; 1993 FC<sub>14</sub>, 4, 1, 0; 1993 FW<sub>15</sub>, 4, 1, 0; 1993 FB<sub>40</sub>, 4, 1, 0; 1993 FN<sub>40</sub>, 4, 1, 0; 1993 GF<sub>1</sub>, 4, 1, 0; 1993 SX<sub>6</sub>, 4, 1, 0; 1993 SL<sub>9</sub>, 4, 1, 0; 1993 TC<sub>2</sub>, 4, 1, 0; 1993 TA<sub>3</sub>, 4, 1, 0; 1993 TW<sub>12</sub>, 4, 1, 0; 1993 WB, 4, 1, 0; 1994 AE, 4, 1, 0; 1994 AC<sub>1</sub>, 4, 1, 0; 1994 AO<sub>1</sub>, 3, 1, 0; 1994 AD<sub>3</sub>, 4, 1, 0; 1994 AZ<sub>10</sub>, 4, 1, 0; 1994 BN<sub>3</sub>, 4, 1, 0; 1994 ES<sub>6</sub>, 4, 1, 0; 1994 JC<sub>8</sub>, 4, 1, 0; 1994 PY<sub>1</sub>, 4, 1, 0; 1994 PM<sub>13</sub>, 4, 1, 0; 1994 PT<sub>19</sub>, 4, 1, 0; 1994 PL<sub>21</sub>, 4, 1, 0; 1994 PZ<sub>27</sub>, 3, 1, 0; 1994 PC<sub>29</sub>, 4, 1, 0; 1994 PD<sub>38</sub>, 4, 1, 0; 1994 RC<sub>17</sub>, 4, 1, 0; 1995 BR<sub>10</sub>, 4, 1, 0; 1995 CS<sub>3</sub>, 4, 1, 0; 1995 DH<sub>5</sub>, 4, 1, 0; 1995 DS<sub>5</sub>, 4, 1, 0; 1995 DN<sub>6</sub>, 4, 1, 0; 1995 ES<sub>4</sub>, 1, 0; 1995 FD<sub>1</sub>, 4, 1, 0; 1995 FT<sub>4</sub>, 4, 1, 0; 1995 GS<sub>7</sub>, 4, 1, 0; 1995 OF<sub>3</sub>, 4, 1, 0; 1995 SF<sub>5</sub>, 3, 1, 0; 1995 SC<sub>28</sub>, 4, 1, 0; 1995 SB<sub>34</sub>, 4, 1, 0; 1995 SZ<sub>43</sub>, 4, 1, 0; 1995 TN, 4, 1, 0; 1995 TT<sub>4</sub>, 4, 1, 0; 1995 UC<sub>9</sub>, 4, 1, 0; 1995 UX<sub>44</sub>, 4, 1, 0; 1995 WL<sub>1</sub>, 4, 1, 0; 1995 WC<sub>3</sub>, 4, 1, 0; 1995 WJ<sub>7</sub>, 4, 1, 0; 1995 WW<sub>7</sub>, 8, 2, 25; 1996 HH<sub>10</sub>, 4, 1, 0; 1996 NQ<sub>2</sub>, 4, 1, 0; 1996 NX<sub>3</sub>, 4, 1, 0; 1996 OB, 4, 1, 0; 1996 PW<sub>2</sub>, 4, 1, 0; 1996 PK<sub>8</sub>, 4, 1, 0; 1996 QX, 4, 1, 0; 1996 QM<sub>1</sub>, 8, 2, 32; 1996 RR<sub>3</sub>, 4, 1, 0; 1996 RD<sub>5</sub>, 4, 1, 0; 1996 RK<sub>11</sub>, 4, 1, 0; 1996 SM, 4, 1, 0; 1996 SB<sub>6</sub>, 4, 1, 0; 1996 SX<sub>6</sub>, 4, 1, 0; 1996 SC<sub>7</sub>, 4, 1, 0; 1996 TT<sub>1</sub>, 4, 1, 0; 1996 TY<sub>4</sub>, 4, 1, 0; 1996 TN<sub>11</sub>, 4, 1, 0; 1996 TC<sub>13</sub>, 4, 1, 0; 1996 TP<sub>13</sub>, 4, 1, 0; 1996 TM<sub>36</sub>, 4, 1, 0; 1996 TO<sub>39</sub>, 4, 1, 0; 1996 TX<sub>64</sub>, 4, 1, 0; 1996 UU, 4, 1, 0; 1996 UH<sub>5</sub>, 4, 1, 0; 1996 VY<sub>1</sub>, 8, 2, 25; 1996 VL<sub>3</sub>, 4, 1, 0; 1996 VP<sub>30</sub>, 4, 1, 0; 1996 WC, 4, 1, 0; 1996 XQ, 4, 1, 0; 1996 XQ<sub>11</sub>, 4, 1, 0; 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1997 XW<sub>4</sub>, 4, 1, 0; 1997 XV<sub>1</sub>, 4, 1, 0; 1997 XM<sub>5</sub>, 4, 1, 0; 1997 YR<sub>1</sub>, 4, 1, 0; 1997 YD<sub>3</sub>, 4, 1, 0; 1997 YF<sub>3</sub>, 4, 1, 0; 1997 YS<sub>10</sub>, 8, 2, 32; 1997 YT<sub>12</sub>, 4, 1, 0; 1997 YZ<sub>13</sub>, 4, 1, 0; 1997 YW<sub>14</sub>, 4, 1, 0; 1997 YC<sub>15</sub>, 4, 1, 0; 1997 YU<sub>15</sub>, 4, 1, 0; 1997 YN<sub>16</sub>, 4, 1, 0; 1998 AF<sub>4</sub>, 1, 0; 1998 AK<sub>3</sub>, 4, 1, 0; 1998 AS<sub>4</sub>, 4, 1, 0; 1998 AH<sub>6</sub>, 4, 1, 0; 1998 AL<sub>7</sub>, 4, 1, 0; 1998 AG<sub>11</sub>, 4, 1, 0; 1998 BJ<sub>4</sub>, 4, 1, 0; 1998 BB<sub>1</sub>, 4, 1, 0; 1998 BJ<sub>2</sub>, 4, 1, 0; 1998 BY<sub>6</sub>, 4, 1, 0; 1998 BD<sub>15</sub>, 4, 1, 0; 1998 BJ<sub>24</sub>, 4, 1, 0; 1998 BG<sub>30</sub>, 3, 1, 0; 1998 BJ<sub>30</sub>, 4, 1, 0; 1998 BA<sub>31</sub>, 4, 1, 0; 1998 BY<sub>33</sub>, 4, 1, 0; 1998 BH<sub>35</sub>, 3, 1, 0; 1998 BU<sub>45</sub>, 4, 1, 0; 1998 CN<sub>1</sub>, 4, 1, 0; 1998 DO<sub>1</sub>, 4, 1, 0; 1998 DW<sub>5</sub>, 4, 1, 0; 1998 DD<sub>6</sub>, 4, 1, 0; 1998 DL<sub>6</sub>, 4, 1, 0; 1998 DN<sub>8</sub>, 4, 1, 0; 1998 DG<sub>9</sub>, 3, 1, 0; 1998 DZ<sub>12</sub>, 4, 1, 0; 1998 DO<sub>20</sub>, 3, 1, 0; 1998 DH<sub>35</sub>, 4, 1, 0; 1998 EG, 4, 1, 0; 1998 EK<sub>12</sub>, 4, 1, 0; 1998 FC, 4, 1, 0; 1998 FA<sub>10</sub>, 4, 1, 0; 1998 FG<sub>10</sub>, 4, 1, 0; 1998 FN<sub>12</sub>, 4, 1, 0; 1998 FV<sub>14</sub>, 4, 1, 0; 1998 FA<sub>15</sub>, 4, 1, 0; 1998 FO<sub>16</sub>, 4, 1, 0; 1998 FV<sub>20</sub>, 4, 1, 0; 1998 FU<sub>27</sub>, 4, 1, 0; 1998 FV<sub>28</sub>, 4, 1, 0; 1998 FC<sub>30</sub>, 4, 1, 0; 1998 FD<sub>33</sub>, 4, 1, 0; 1998 FL<sub>34</sub>, 4, 1, 0; 1998 FA<sub>43</sub>, 4, 1, 0; 1998 FY<sub>43</sub>, 4, 1, 0; 1998 FK<sub>51</sub>, 4, 1, 0; 1998 FS<sub>53</sub>, 4, 1, 0; 1998 FD<sub>54</sub>, 4, 1, 0; 1998 FN<sub>54</sub>, 4, 1, 0; 1998 FB<sub>60</sub>, 4, 1, 0; 1998 FC<sub>60</sub>, 4, 1, 0; 1998 FN<sub>60</sub>, 4, 1, 0; 1998 FU<sub>60</sub>, 4, 1, 0; 1998 FO<sub>62</sub>, 4, 1, 0; 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1998 HQ<sub>46</sub>, 4, 1, 0; 1998 HT<sub>50</sub>, 4, 1, 0; 1998 HJ<sub>67</sub>, 3, 1, 0; 1998 HO<sub>68</sub>, 4, 1, 0; 1998 HW<sub>78</sub>, 4, 1, 0; 1998 HJ<sub>80</sub>, 4, 1, 0; 1998 HY<sub>80</sub>, 3, 1, 0; 1998 HV<sub>85</sub>, 3, 1, 0; 1998 HF<sub>87</sub>, 4, 1, 0; 1998 HO<sub>90</sub>, 8, 2, 32; 1998 HZ<sub>93</sub>, 4, 1, 0; 1998 HD<sub>101</sub>, 4, 1, 0; 1998 HW<sub>122</sub>, 3, 1, 0; 1998 HX<sub>123</sub>, 3, 1, 0; 1998 HO<sub>125</sub>, 6, 2, 20; 1998 HH<sub>130</sub>, 4, 1, 0; 1998 HR<sub>137</sub>, 4, 1, 0; 1998 JU<sub>1</sub>, 4, 1, 0; 1998 KZ<sub>3</sub>, 3, 1, 0; 1998 KL<sub>4</sub>, 4, 1, 0; 1998 KP<sub>22</sub>, 6, 2, 66; 1998 KU<sub>24</sub>, 3, 1, 0; 1998 KX<sub>25</sub>, 3, 1, 0; 1998 KD<sub>46</sub>, 4, 1, 0; 1998 KX<sub>52</sub>, 4, 1, 0; 1998 KY<sub>65</sub>, 4, 1, 0; 1998 QN<sub>38</sub>, 3, 1, 0; 1998 QN<sub>38</sub>, 3, 1, 0; 1998 QZ<sub>38</sub>, 6, 2, 3; 1998 QD<sub>39</sub>, 3, 1, 0; 1998 QN<sub>39</sub>, 6, 2, 53; 1998 QV<sub>39</sub>, 3, 1, 0; 1998 QF<sub>42</sub>, 3, 1, 0; 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1998 RJ<sub>54</sub>, 3, 1, 0; 1998 RR<sub>54</sub>, 3, 1, 0; 1998 RM<sub>55</sub>, 3, 1, 0; 1998 RN<sub>55</sub>, 6, 2, 22; 1998 RO<sub>56</sub>, 3, 1, 0; 1998 RS<sub>56</sub>, 3, 1, 0; 1998 RV<sub>57</sub>, 3, 1, 0; 1998 RX<sub>57</sub>, 3, 1, 0; 1998 RJ<sub>59</sub>, 3, 1, 0; 1998 RW<sub>59</sub>, 3, 1, 0; 1998 RX<sub>60</sub>, 3, 1, 0; 1998 RS<sub>61</sub>, 3, 1, 0; 1998 RY<sub>61</sub>, 3, 1, 0; 1998 RV<sub>63</sub>, 6, 2, 46; 1998 RN<sub>64</sub>, 3, 1, 0; 1998 RJ<sub>69</sub>, 3, 1, 0; 1998 RT<sub>69</sub>, 3, 1, 0; 1998 RY<sub>69</sub>, 3, 1, 0; 1998 RE<sub>70</sub>, 3, 1, 0; 1998 RF<sub>70</sub>, 3, 1, 0; 1998 RD<sub>73</sub>, 3, 1, 0; 1998 RD<sub>75</sub>, 3, 1, 0; 1998 RR<sub>79</sub>, 3, 1, 0; 1998 SC<sub>10</sub>, 6, 2, 9; 1998 SE<sub>12</sub>, 3, 1, 0; 1998 SM<sub>12</sub>, 6, 2, 9; 1998 SY<sub>16</sub>, 3, 1, 0; 1998 SB<sub>25</sub>, 3, 1, 0; 1998 SL<sub>25</sub>, 3, 1, 0; 1998 SB<sub>27</sub>, 3, 1, 0; 1998 SU<sub>30</sub>, 3, 1, 0; 1998 SV<sub>34</sub>, 3, 1, 0; 1998 SC<sub>35</sub>, 3, 1, 0; 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1998 SN<sub>117</sub>, 3, 1, 0; 1998 SP<sub>118</sub>, 3, 1, 0; 1998 SW<sub>121</sub>, 3, 1, 0; 1998 SX<sub>121</sub>, 3, 1, 0; 1998 SF<sub>122</sub>, 3, 1, 0; 1998 SW<sub>123</sub>, 3, 1, 0; 1998 SQ<sub>124</sub>, 3, 1, 0; 1998 SP<sub>125</sub>, 6, 2, 23; 1998 SE<sub>127</sub>, 3, 1, 0; 1998 SL<sub>127</sub>, 3, 1, 0; 1998 SV<sub>127</sub>, 3, 1, 0; 1998 SD<sub>129</sub>, 3, 1, 0; 1998 SM<sub>130</sub>, 3, 1, 0; 1998 SY<sub>130</sub>, 3, 1, 0; 1998 SC<sub>131</sub>, 3, 1, 0; 1998 SP<sub>131</sub>, 3, 1, 0; 1998 SQ<sub>131</sub>, 3, 1, 0; 1998 SS<sub>134</sub>, 3, 1, 0; 1998 SZ<sub>134</sub>, 6, 2, 23; 1998 SV<sub>135</sub>, 6, 2, 23; 1998 SX<sub>135</sub>, 3, 1, 0; 1998 SZ<sub>135</sub>, 3, 1, 0; 1998 SO<sub>137</sub>, 3, 1, 0; 1998 SX<sub>138</sub>, 3, 1, 0; 1998 SN<sub>139</sub>, 3, 1, 0; 1998 SN<sub>139</sub>, 3, 1, 0; 1998 SG<sub>140</sub>, 3, 1, 0; 1998 SY<sub>141</sub>, 3, 1, 0; 1998 SC<sub>153</sub>, 3, 1, 0; 1998 SV<sub>154</sub>, 3, 1, 0; 1998 SD<sub>155</sub>, 3, 1, 0; 1998 SC<sub>157</sub>, 6, 2, 25; 1998 SG<sub>157</sub>, 3, 1, 0; 1998 SY<sub>162</sub>, 3, 1, 0; 1998 TH<sub>3</sub>, 3, 1, 0; 1998 TL<sub>3</sub>, 3, 1, 0; 1998 TJ<sub>16</sub>, 3, 1, 0; 1998 TH<sub>32</sub>, 4, 1, 0; 1998 TG<sub>33</sub>, 3, 1, 0; 1998 TC<sub>34</sub>, 3, 1, 0; 1998 US<sub>3</sub>, 3, 1, 0; 1998 UE<sub>16</sub>, 3, 1, 0; 1998 UF<sub>16</sub>, 3, 1, 0; 1998 UB<sub>35</sub>, 3, 1, 0; 1998 UH<sub>39</sub>, 3, 1, 0; 1998 UM<sub>41</sub>, 3, 1, 0; 1998 US<sub>47</sub>, 3, 1, 0; 1998 VJ<sub>1</sub>, 3, 1, 0; 1998 VE<sub>6</sub>, 3, 1, 0; 1998 VG<sub>9</sub>, 3, 1, 0; 1998 WD<sub>3</sub>, 3, 1, 0; 1998 WJ<sub>6</sub>, 3, 1, 0; 1998 WD<sub>7</sub>, 3, 1, 0; 1998 WY<sub>7</sub>, 3, 1, 0; 1998 WX<sub>16</sub>, 3, 1, 0; 1998 WO<sub>20</sub>, 3, 1, 0; 1998 WE<sub>23</sub>, 6, 2, 34; 1998 XN<sub>7</sub>, 3, 1, 0; 1998 XL<sub>9</sub>, 3, 1, 0; 1998 XE<sub>10</sub>, 3, 1, 0; 1998 XK<sub>13</sub>, 3, 1, 0; 1999 BH<sub>6</sub>, 4, 1, 0; 1999 BT<sub>6</sub>, 4, 1, 0; 1999 BH<sub>11</sub>, 4, 1, 0; 1999 BB<sub>14</sub>, 4, 1, 0; 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1999 GK<sub>38</sub>, 3, 1, 0; 1999 GT<sub>38</sub>, 6, 2, 46; 1999 GX<sub>40</sub>, 3, 1, 0; 1999 GU<sub>42</sub>, 3, 1, 0; 1999 GR<sub>45</sub>, 3, 1, 0; 1999 GJ<sub>53</sub>, 3, 1, 0; 1999 GN<sub>53</sub>, 3, 1, 0; 1999 GJ<sub>57</sub>, 3, 1, 0; 1999 GR<sub>58</sub>, 6, 2, 42; 1999 GL<sub>60</sub>, 3, 1, 0; 1999 HL<sub>4</sub>, 1, 0; 1999 HA<sub>1</sub>, 4, 1, 0; 1999 HO<sub>4</sub>, 8, 2, 32; 1999 HH<sub>8</sub>, 4, 1, 0; 1999 HG<sub>9</sub>, 3, 1, 0; 1999 HO<sub>11</sub>, 4, 1, 0; 1999 JM<sub>4</sub>, 1, 0; 1999 JJ<sub>3</sub>, 3, 1, 0; 1999 JY<sub>3</sub>, 4, 1, 0; 1999 JG<sub>6</sub>, 4, 1, 0; 1999 JU<sub>8</sub>, 4, 1, 0; 1999 JZ<sub>8</sub>, 7, 2, 395; 1999 JU<sub>9</sub>, 4, 1, 0; 1999 JD<sub>10</sub>, 3, 1, 0; 1999 JG<sub>11</sub>, 4, 1, 0; 1999 JC<sub>13</sub>, 4, 1, 0; 1999 JW<sub>17</sub>, 3, 1, 0; 1999 JX<sub>17</sub>, 4, 1, 0; 1999 JQ<sub>18</sub>, 4, 1, 0; 1999 JZ<sub>18</sub>, 4, 1, 0; 1999 JP<sub>20</sub>, 4, 1, 0; 1999 JS<sub>23</sub>, 3, 1, 0; 1999 JB<sub>24</sub>, 4, 1, 0; 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[illegible]



[illegible]

0, 1, 0; 2000 TM<sub>13</sub>, 4, 1, 0; 2000 TN<sub>13</sub>, 4, 1, 0; 2000 TP<sub>13</sub>, 4, 1, 0; 2000 TS<sub>13</sub>, 4, 1, 0; 2000 TY<sub>13</sub>, 4, 1, 0; 2000 TE<sub>14</sub>, 4, 1, 0; 2000 TJ<sub>14</sub>, 4, 1, 0; 2000 TP<sub>14</sub>, 4, 1, 0; 2000 TW<sub>14</sub>, 4, 1, 0; 2000 TY<sub>14</sub>, 4, 1, 0; 2000 TE<sub>15</sub>, 4, 1, 0; 2000 TK<sub>15</sub>, 4, 1, 0; 2000 TD<sub>15</sub>, 4, 1, 0; 2000 TK<sub>15</sub>, 4, 1, 0; 2000 TS<sub>15</sub>, 4, 1, 0; 2000 TE<sub>16</sub>, 4, 1, 0; 2000 TF<sub>16</sub>, 4, 1, 0; 2000 TH<sub>16</sub>, 4, 1, 0; 2000 TJ<sub>16</sub>, 4, 1, 0; 2000 TL<sub>16</sub>, 4, 1, 0; 2000 TO<sub>16</sub>, 4, 1, 0; 2000 TU<sub>16</sub>, 4, 1, 0; 2000 TV<sub>16</sub>, 4, 1, 0; 2000 TX<sub>16</sub>, 4, 1, 0; 2000 TY<sub>16</sub>, 4, 1, 0; 2000 TU<sub>21</sub>, 4, 1, 0; 2000 TC<sub>22</sub>, 4, 1, 0; 2000 TB<sub>23</sub>, 4, 1, 0; 2000 TS<sub>24</sub>, 4, 1, 0; 2000 TE<sub>25</sub>, 4, 1, 0; 2000 TH<sub>25</sub>, 4, 1, 0; 2000 TF<sub>26</sub>, 4, 1, 0; 2000 TL<sub>27</sub>, 4, 1, 0; 2000 TX<sub>27</sub>, 4, 1, 0; 2000 TJ<sub>28</sub>, 4, 1, 0; 2000 TN<sub>28</sub>, 4, 1, 0; 2000 TA<sub>30</sub>, 4, 1, 0; 2000 TK<sub>30</sub>, 4, 1, 0; 2000 TW<sub>32</sub>, 4, 1, 0; 2583 P-L, 4, 1, 0; 2651 P-L, 4, 1, 0; 2728 P-L, 4, 1, 0; 2791 P-L, 4, 1, 0; 3065 P-L, 4, 1, 0; 3109 P-L, 8, 2, 12; 4052 P-L, 3, 1, 0; 4150 P-L, 4, 1, 0; 4527 P-L, 4, 1, 0; 4529 P-L, 4, 1, 0; 4603 P-L, 4, 1, 0; 4642 P-L, 4, 1, 0; 4710 P-L, 4, 1, 0; 6104 P-L, 4, 1, 0; 6214 P-L, 4, 1, 0; 6260 P-L, 4, 1, 0; 6685 P-L, 4, 1, 0; 6782 P-L, 3, 1, 0; 7069 P-L, 4, 1, 0; 9567 P-L, 8, 1, 0; 1105 T-1, 4, 1, 0; 1209 T-1, 3, 1, 0; 1058 T-2, 4, 1, 0; 1115 T-2, 3, 1, 0; 1327 T-2, 4, 1, 0; 1331 T-2, 4, 1, 0; 1352 T-2, 4, 1, 0; 2151 T-2, 4, 1, 0; 2167 T-2, 4, 1, 0; 2257 T-2, 4, 1, 0; 2272 T-2, 4, 1, 0; 3088 T-2, 4, 1, 0; 3147 T-2, 4, 1, 0; 3151 T-2, 4, 1, 0; 3152 T-2, 2, 1, 0; 3207 T-2, 4, 1, 0; 4062 T-2, 4, 1, 0; 4068 T-2, 4, 1, 0; 4094 T-2, 4, 1, 0; 4135 T-2, 4, 1, 0; 5056 T-2, 3, 1, 0; 5125 T-2, 3, 1, 0; 1189 T-3, 4, 1, 0; 2282 T-3, 4, 1, 0; 3163 T-3, 4, 1, 0; 3286 T-3, 4, 1, 0; 4375 T-3, 4, 1, 0; (76), 4, 1, 0; (116), 4, 1, 0; (127), 4, 1, 0; (151), 4, 1, 0; (160), 4, 1, 0; (184), 4, 1, 0; (210), 4, 1, 0; (275), 4, 1, 0; (276), 4, 1, 0; (296), 4, 1, 0; (299), 4, 1, 0; (318), 4, 1, 0; (327), 4, 1, 0; (390), 8, 2, 25; (427), 4, 1, 0; (483), 4, 1, 0; (494), 4, 1, 0; (495), 4, 1, 0; (503), 4, 1, 0; (524), 4, 1, 0; (543), 4, 1, 0; (544), 4, 1, 0; (551), 4, 1, 0; (591), 4, 1, 0; (693), 4, 1, 0; (698), 4, 1, 0; (705), 4, 1, 0; (825), 4, 1, 0; (838), 4, 1, 0; (903), 4, 1, 0; (987), 4, 1, 0; (988), 4, 1, 0; (991), 3, 1, 0; (1076), 3, 1, 0; (1077), 4, 1, 0; (1107), 4, 1, 0; (1113), 8, 2, 25; (1167), 4, 1, 0; (1172), 4, 1, 0; (1176), 4, 1, 0; (1227), 4, 1, 0; (1233), 4, 1, 0; (1309), 4, 1, 0; (1345), 4, 1, 0; (1395), 4, 1, 0; (1468), 4, 1, 0; (1514), 4, 1, 0; (1590), 4, 1, 0; (1599), 7, 1, 0; (1610), 4, 1, 0; (1613), 4, 1, 0; (1617), 4, 1, 0; (1629), 4, 1, 0; (1662), 4, 1, 0; (1719), 4, 1, 0; (1744), 4, 1, 0; (1761), 4, 1, 0; (1805), 4, 1, 0; (1809), 4, 1, 0; (1870), 4, 1, 0; (1872), 3, 1, 0; (1907), 4, 1, 0; (1932), 4, 1, 0; (2039), 4, 1, 0; (2072), 4, 1, 0; (2084), 4, 1, 0; (2157), 4, 1, 0; (2177), 4, 1, 0; (2228), 4, 1, 0; (2296), 4, 1, 0; (2297), 4, 1, 0; (2414), 4, 1, 0; (2446), 4, 1, 0; (2450), 4, 1, 0; (2508), 4, 1, 0; (2584), 4, 1, 0; (2635), 4, 1, 0; (2665), 4, 1, 0; (2674), 4, 1, 0; (2722), 4, 1, 0; (2771), 4, 1, 0; (2793), 4, 1, 0; (2973), 4, 1, 0; (3168), 4, 1, 0; (3272), 4, 1, 0; (3287), 4, 1, 0; (3294), 4, 1, 0; (3297), 4, 1, 0; (3365), 4, 1, 0; (3376), 8, 1, 0; (3377), 4, 1, 0; (3416), 4, 1, 0; (3423), 4, 1, 0; (3448), 4, 1, 0; (3508), 4, 1, 0; (3526), 4, 1, 0; (3527), 4, 1, 0; (3531), 4, 1, 0; (3708), 4, 1, 0; (3728), 4, 1, 0; (3744), 4, 1, 0; (3816), 4, 1, 0; (3841), 4, 1, 0; (3843), 8, 2, 32; (3844), 4, 1, 0; (3857), 4, 1, 0; (4069), 4, 1, 0; (4189), 4, 1, 0; (4223), 4, 1, 0; (4318), 4, 1, 0; (4368), 4, 1, 0; (4385), 4, 1, 0; (4470), 4, 1, 0; (4472), 4, 1, 0; (4545), 4, 1, 0; (4566), 4, 1, 0; (4594), 4, 1, 0; (4601), 4, 1, 0; (4623), 4, 1, 0; (4647), 8, 2, 32; (4651), 4, 1, 0; (4654), 4, 1, 0; (4685), 4, 1, 0; (4712), 4, 1, 0; (4716), 4, 1, 0; (4721), 4, 1, 0; (4732), 8, 1, 0; (4746), 4, 1, 0; (4772), 4, 1, 0; (4778), 4, 1, 0; (4792), 4, 1, 0; (4807), 4, 1, 0; (4811), 4, 1, 0; (4840), 4, 1, 0; (4845), 4, 1, 0; (4888), 4, 1, 0; (4907), 4, 1, 0; (4911), 4, 1, 0; (4917), 4, 1, 0; (5067), 4, 1, 0; (5119), 4, 1, 0; (5193), 4, 1, 0; (5205), 4, 1, 0; (5238), 4, 1, 0; (5318), 3, 1, 0; (5357), 4, 1, 0; (5362), 4, 1, 0; (5368), 4, 1, 0; (5427), 4, 1, 0; (5433), 4, 1, 0; (5567), 4, 1, 0; (5595), 4, 1, 0; (5752), 4, 1, 0; (5782), 4, 1, 0; (5822), 4, 1, 0; (5907), 4, 1, 0; (5972), 4, 1, 0; (6006), 4, 1, 0; (6106), 4, 1, 0; (6153),

0; (11077), 4, 1, 0; (11085), 4, 1, 0; (11112), 3, 1, 0; (11115), 4, 1, 0; (11120), 8, 2, 32; (11135), 4, 1, 0; (11144), 4, 1, 0; (11148), 4, 1, 0; (11175), 4, 1, 0; (11231), 4, 1, 0; (11362), 4, 1, 0; (11401), 4, 1, 0; (11488), 4, 1, 0; (11542), 4, 1, 0; (11604), 4, 1, 0; (11647), 4, 1, 0; (12033), 4, 1, 0; (12169), 4, 1, 0; (12444), 4, 1, 0; (13563), 4, 1, 0; (14795), 4, 1, 0; (14827), 4, 1, 0; (15245), 4, 1, 0; (15505), 4, 1, 0; (15706), 4, 1, 0; (15723), 4, 1, 0; (15762), 4, 1, 0; (15801), 4, 1, 0; (15872), 4, 1, 0; (15942), 4, 1, 0; (15955), 3, 1, 0; (15963), 3, 1, 0; (15976), 4, 1, 0; (15977), 4, 1, 0; (16007), 4, 1, 0; (16016), 4, 1, 0; (16034), 4, 1, 0; (16035), 4, 1, 0; (16048), 4, 1, 0; (16067), 4, 1, 0; (16070), 4, 1, 0; (16353), 4, 1, 0; (16359), 4, 1, 0; (16401), 4, 1, 0; (16410), 4, 1, 0; (16413), 4, 1, 0; (16420), 4, 1, 0; (16425), 4, 1, 0; (16458), 4, 1, 0; (16473), 4, 1, 0; (16483), 4, 1, 0; (16493), 4, 1, 0; (16495), 4, 1, 0; (16522), 4, 1, 0; (16529), 4, 1, 0; (16566), 4, 1, 0; (16573), 4, 1, 0; (16578), 4, 1, 0; (16584), 4, 1, 0; (16586), 4, 1, 0; (16616), 4, 1, 0; (16626), 4, 1, 0; (16639), 4, 1, 0; (16643), 4, 1, 0; (16645), 4, 1, 0; (16650), 4, 1, 0; (16694), 4, 1, 0; (16700), 4, 1, 0; (16712), 4, 1, 0; (16746), 4, 1, 0; (16771), 4, 1, 0; (16779), 4, 1, 0; (16780), 4, 1, 0; (16786), 4, 1, 0; (16790), 4, 1, 0; (16796), 4, 1, 0; (16806), 4, 1, 0; (16813), 4, 1, 0; (16844), 4, 1, 0; (16852), 4, 1, 0; (16864), 4, 1, 0; (16866), 4, 1, 0; (16867), 4, 1, 0; (16870), 4, 1, 0; (16873), 4, 1, 0; (16901), 4, 1, 0; (16902), 4, 1, 0; (16909), 4, 1, 0; (16917), 4, 1, 0; (16929), 4, 1, 0; (16939), 4, 1, 0; (16949), 4, 1, 0; (16952), 4, 1, 0; (16995), 4, 1, 0; (17015), 4, 1, 0; (17089), 4, 1, 0; (17105), 4, 1, 0; (17112), 4, 1, 0; (17121), 4, 1, 0; (17128), 4, 1, 0; (17130), 4, 1, 0; (17133), 3, 1, 0; (17139), 4, 1, 0; (17155), 4, 1, 0; (17161), 4, 1, 0; (17163), 4, 1, 0; (17166), 4, 1, 0; (17167), 4, 1, 0; (17168), 4, 1, 0; (17297), 4, 1, 0; (17308), 4, 1, 0; (17312), 4, 1, 0; (17336), 4, 1, 0; (17345), 4, 1, 0; [15402, 3743, 328\*, 1998/01/08-2000/10/06]

### 703 Catalina Sky Survey

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

0.41-m  $f/3$  Schmidt + CCD

USNO-SA2.0, USNO-SA1.0

1981 EH<sub>38</sub>, 4, 1, 0; 1989 UQ<sub>5</sub>, 4, 1, 0; 1996 RO<sub>2</sub>, 4, 1, 0; 1996 VU<sub>4</sub>, 4, 1, 0; 1997 BO, 4, 1, 0; 1997 CF<sub>26</sub>, 4, 1, 0; 1997 JV, 4, 1, 0; 1997 QX, 4, 1, 0; 1998 FW<sub>103</sub>, 4, 1, 0; 1998 HL<sub>96</sub>, 8, 2, 17; 1998 KL<sub>22</sub>, 4, 1, 0; 1998 LB, 4, 1, 0; 1998 QC<sub>49</sub>, 4, 1, 0; 1999 GB<sub>24</sub>, 4, 1, 0; 1999 GN<sub>30</sub>, 4, 1, 0; 1999 GO<sub>30</sub>, 4, 1, 0; 1999 GS<sub>32</sub>, 4, 1, 0; 1999 GD<sub>37</sub>, 4, 1, 0; 1999 GR<sub>37</sub>, 4, 1, 0; 1999 GT<sub>38</sub>, 4, 1, 0; 1999 GZ<sub>39</sub>, 4, 1, 0; 1999 GX<sub>40</sub>, 4, 1, 0; 1999 GR<sub>41</sub>, 4, 1, 0; 1999 GR<sub>45</sub>, 4, 1, 0; 1999 HC<sub>5</sub>, 4, 1, 0; 1999 HL<sub>7</sub>, 4, 1, 0; 1999 HE<sub>10</sub>, 4, 1, 0; 1999 JE<sub>51</sub>, 4, 1, 0; 1999 JZ<sub>94</sub>, 4, 1, 0; 1999 JX<sub>95</sub>, 4, 1, 0; 1999 JA<sub>108</sub>, 4, 1, 0; 1999 JN<sub>111</sub>, 4, 1, 0; 1999 JX<sub>115</sub>, 4, 1, 0; 1999 JX<sub>127</sub>, 4, 1, 0; 1999 JS<sub>135</sub>, 4, 1, 0; 1999 KC<sub>7</sub>, 4, 1, 0; 1999 KB<sub>17</sub>, 4, 1, 0; 1999 KX<sub>18</sub>, 4, 1, 0; 1999 LF<sub>35</sub>, 4, 1, 0; 1999 NL<sub>24</sub>, 4, 1, 0; 1999 NQ<sub>31</sub>, 4, 1, 0; 1999 NF<sub>61</sub>, 4, 1, 0; 1999 RM<sub>30</sub>, 4, 1, 0; 1999 RE<sub>100</sub>, 4, 1, 0; 1999 SS<sub>22</sub>, 4, 1, 0; 1999 TJ<sub>37</sub>, 4, 1, 0; 1999 TP<sub>86</sub>, 4, 1, 0; 1999 TO<sub>88</sub>, 4, 1, 0; 1999 TO<sub>188</sub>, 4, 1, 0; 1999 TM<sub>279</sub>, 4, 1, 0; 1999 TV<sub>280</sub>, 4, 1, 0; 1999 VS<sub>101</sub>, 4, 1, 0; 2000 ED<sub>127</sub>, 4, 1, 0; 2000 FH<sub>16</sub>, 4, 1, 0; 2000 MN<sub>5</sub>, 4, 1, 0; 2000 OA<sub>25</sub>, 3, 1, 0; 2000 OE<sub>47</sub>, 4, 1, 0; 2000 OG<sub>49</sub>, 4, 1, 0; 2000 OL<sub>50</sub>, 4, 1, 0; 2000 QD<sub>19</sub>, 4, 1, 0; 2000 QW<sub>36</sub>, 4, 1, 0; 2000 QT<sub>47</sub>, 4, 1, 0; 2000 QK<sub>220</sub>, 4, 1, 0; 2000 RG<sub>3</sub>, 4, 1, 0; 2000 RY<sub>69</sub>, 4, 1, 0; 2000 RC<sub>84</sub>, 4, 1, 0; 3235 T-3, 4, 1, 0; [271, 67, 0\*, 1999/03/23-2000/03/12]

### 704 Lincoln Laboratory Experimental Test System, New Mexico

G. Stokes, MIT Lincoln Laboratory, 244 Wood Street, Lexington, MA 02420,  
U.S.A. [stokes@ll.mit.edu]

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

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

1.0-m  $f/2.15$  reflector + CCD

USNO-A2.0

1968 OJ, 13, 3, 11; 1968 OF<sub>1</sub>, 8, 2, 10; 1970 PU, 4, 1, 0; 1972 GJ, 8, 2, 51; 1972 RF<sub>2</sub>, 4, 1, 0; 1973 SU<sub>1</sub>, 5, 1, 0; 1974 CB, 13, 3, 10; 1975 SG<sub>1</sub>, 13, 3, 11; 1975 SH<sub>1</sub>, 15, 3, 8; 1975 SP<sub>1</sub>, 18, 4, 0; 1975 ST<sub>1</sub>, 14, 3, 12; 1976 QS, 5, 1, 0; 1976 UB<sub>16</sub>, 5, 1, 0; 1977 DR<sub>2</sub>, 5, 1, 0; 1977 DA<sub>4</sub>, 5, 1, 0; 1977 DH<sub>4</sub>, 14, 3, 10; 1977 EU<sub>1</sub>, 34, 6, 10; 1977 EE<sub>8</sub>, 5, 1, 0; 1977 FB, 4, 1, 0; 1978 NK, 19, 4, 10; 1978 QH<sub>3</sub>, 4, 1, 0; 1978 RU<sub>8</sub>, 10, 2, 2; 1978 RQ<sub>9</sub>, 5, 1, 0; 1978 SQ<sub>4</sub>, 12, 3, 3; 1978 SU<sub>4</sub>, 19, 4, 8; 1978 SX<sub>4</sub>, 5, 1, 0; 1978 TT<sub>7</sub>, 4, 1, 0; 1978 UP<sub>4</sub>, 8, 2, 2; 1978 UX<sub>5</sub>, 9, 2, 10; 1978 UF<sub>7</sub>, 13, 3, 10; 1978 UT<sub>7</sub>, 19, 4, 8; 1978 VW<sub>2</sub>, 13, 3, 7; 1978 VB<sub>3</sub>, 5, 1, 0; 1978 VF<sub>3</sub>, 20, 4, 8; 1978 VG<sub>4</sub>, 8, 2, 5; 1978 VB<sub>7</sub>, 5, 1, 0; 1978 VL<sub>8</sub>, 4, 1, 0; 1978 VX<sub>8</sub>, 19, 4, 8; 1978 VR<sub>10</sub>, 9, 2, 11; 1978 VF<sub>11</sub>, 18, 3, 10; 1979 MT<sub>1</sub>, 10, 2, 4; 1979 MY<sub>3</sub>, 5, 1, 0; 1979 MZ<sub>4</sub>, 10, 2, 6; 1979 ML<sub>7</sub>, 3, 1, 0; 1979 MX<sub>7</sub>, 14, 3, 10; 1979 MO<sub>8</sub>, 10, 2, 10; 1979 MT<sub>8</sub>, 9, 2, 2; 1979 OV<sub>4</sub>, 25, 4, 8; 1979 OU<sub>11</sub>, 3, 1, 0; 1979 PA, 4, 1, 0; 1979 QV<sub>1</sub>, 9, 2, 3; 1979 QR<sub>2</sub>, 4, 1, 0; 1979 SH, 14, 3, 8; 1979 TY<sub>1</sub>, 8, 2, 2; 1979 UR, 9, 2, 4; 1980 CJ, 14, 3, 11; 1980 PU, 3, 1, 0; 1981 DL, 5, 1, 0; 1981 DP, 4, 1, 0; 1981 DT, 12, 3, 11; 1981 DV, 27, 4, 11; 1981 DH<sub>1</sub>, 8, 2, 6; 1981 DL<sub>1</sub>, 24, 5, 10; 1981 DO<sub>1</sub>, 8, 2, 3; 1981 DT<sub>3</sub>, 3, 1, 0; 1981 EX, 13, 2, 8; 1981 EM<sub>3</sub>, 5, 1, 0; 1981 EQ<sub>3</sub>, 8, 2, 9; 1981 ES<sub>3</sub>, 10, 2, 2; 1981 EF<sub>4</sub>, 13, 3, 10; 1981 EG<sub>4</sub>, 15, 3, 10; 1981 EJ<sub>4</sub>, 18, 4, 11; 1981 EQ<sub>4</sub>, 23, 5, 11; 1981 EF<sub>5</sub>, 16, 4, 14; 1981 EM<sub>5</sub>, 22,

4, 7; 1981 EY<sub>5</sub>, 8, 2, 2; 1981 EB<sub>6</sub>, 10, 2, 4; 1981 EO<sub>6</sub>, 10, 2, 4; 1981 EP<sub>6</sub>, 7, 2, 10; 1981 EU<sub>6</sub>, 3, 1, 0; 1981 EG<sub>7</sub>, 13, 3, 10; 1981 EX<sub>7</sub>, 20, 4, 8; 1981 ED<sub>8</sub>, 18, 4, 14; 1981 ER<sub>8</sub>, 9, 2, 5; 1981 EF<sub>9</sub>, 5, 1, 0; 1981 EX<sub>9</sub>, 7, 2, 3; 1981 EB<sub>10</sub>, 14, 3, 8; 1981 EH<sub>10</sub>, 14, 3, 10; 1981 EO<sub>10</sub>, 4, 1, 0; 1981 ER<sub>10</sub>, 5, 1, 0; 1981 EC<sub>11</sub>, 13, 3, 10; 1981 EH<sub>11</sub>, 13, 3, 10; 1981 EM<sub>11</sub>, 17, 4, 10; 1981 EZ<sub>11</sub>, 8, 2, 2; 1981 EB<sub>12</sub>, 14, 3, 10; 1981 EE<sub>12</sub>, 13, 3, 10; 1981 EM<sub>12</sub>, 4, 1, 0; 1981 EK<sub>13</sub>, 3, 1, 0; 1981 EU<sub>13</sub>, 11, 3, 10; 1981 EV<sub>13</sub>, 18, 4, 8; 1981 EB<sub>14</sub>, 24, 5, 10; 1981 EA<sub>15</sub>, 8, 2, 3; 1981 EB<sub>15</sub>, 4, 1, 0; 1981 EK<sub>15</sub>, 10, 2, 10; 1981 ER<sub>15</sub>, 23, 4, 10; 1981 EJ<sub>16</sub>, 3, 1, 0; 1981 EK<sub>16</sub>, 6, 2, 7; 1981 EV<sub>16</sub>, 14, 3, 10; 1981 EL<sub>17</sub>, 4, 1, 0; 1981 EP<sub>18</sub>, 9, 2, 1; 1981 ES<sub>18</sub>, 9, 2, 1; 1981 ET<sub>18</sub>, 13, 3, 8; 1981 EC<sub>19</sub>, 5, 1, 0; 1981 ET<sub>21</sub>, 3, 1, 0; 1981 EE<sub>22</sub>, 4, 1, 0; 1981 EA<sub>23</sub>, 20, 4, 8; 1981 EV<sub>23</sub>, 10, 2, 2; 1981 EZ<sub>24</sub>, 14, 3, 8; 1981 ER<sub>26</sub>, 5, 1, 0; 1981 EA<sub>27</sub>, 8, 2, 1; 1981 ER<sub>28</sub>, 10, 2, 8; 1981 EE<sub>29</sub>, 9, 2, 3; 1981 ER<sub>29</sub>, 10, 2, 3; 1981 EN<sub>30</sub>, 4, 1, 0; 1981 ET<sub>30</sub>, 9, 2, 8; 1981 EU<sub>30</sub>, 10, 2, 3; 1981 EF<sub>31</sub>, 4, 1, 0; 1981 EP<sub>32</sub>, 12, 3, 10; 1981 ER<sub>32</sub>, 5, 1, 0; 1981 ES<sub>32</sub>, 18, 2, 8; 1981 EE<sub>33</sub>, 4, 1, 0; 1981 EV<sub>33</sub>, 9, 2, 8; 1981 EN<sub>34</sub>, 13, 3, 10; 1981 EA<sub>35</sub>, 14, 3, 10; 1981 ED<sub>36</sub>, 14, 3, 10; 1981 EZ<sub>37</sub>, 29, 6, 10; 1981 EC<sub>38</sub>, 5, 1, 0; 1981 EH<sub>38</sub>, 12, 3, 35; 1981 EJ<sub>38</sub>, 20, 4, 8; 1981 EK<sub>39</sub>, 5, 1, 0; 1981 EU<sub>39</sub>, 5, 1, 0; 1981 EC<sub>40</sub>, 5, 1, 0; 1981 EY<sub>40</sub>, 18, 4, 8; 1981 EA<sub>41</sub>, 19, 4, 8; 1981 EM<sub>41</sub>, 5, 1, 0; 1981 ER<sub>42</sub>, 8, 2, 6; 1981 EV<sub>42</sub>, 14, 3, 8; 1981 ET<sub>43</sub>, 15, 3, 8; 1981 EU<sub>43</sub>, 19, 4, 10; 1981 EA<sub>44</sub>, 15, 3, 8; 1981 EZ<sub>44</sub>, 4, 1, 0; 1981 EK<sub>45</sub>, 5, 1, 0; 1981 EA<sub>47</sub>, 10, 2, 4; 1981 ES<sub>47</sub>, 5, 1, 0; 1981 EF<sub>48</sub>, 25, 5, 13; 1981 QS<sub>2</sub>, 4, 1, 0; 1981 SD<sub>2</sub>, 10, 2, 3; 1982 DU, 15, 3, 10; 1982 JV<sub>1</sub>, 7, 2, 4; 1982 QP<sub>3</sub>, 4, 1, 0; 1982 UR<sub>2</sub>, 26, 5, 9; 1982 UV<sub>6</sub>, 15, 3, 10; 1982 UA<sub>11</sub>, 10, 2, 3; 1983 PM<sub>1</sub>, 3, 1, 0; 1983 RZ<sub>2</sub>, 8, 2, 4; 1984 HA<sub>2</sub>, 4, 1, 0; 1984 SB<sub>2</sub>, 10, 2, 8; 1984 SP<sub>4</sub>, 15, 3, 10; 1985 CV<sub>1</sub>, 12, 3, 8; 1985 CX<sub>1</sub>, 4, 1, 0; 1985 CY<sub>1</sub>, 5, 1, 0; 1985 PL<sub>1</sub>, 15, 3, 8; 1985 RP<sub>3</sub>, 7, 2, 2; 1985 RP<sub>4</sub>, 5, 1, 0; 1985 UF, 10, 2, 8; 1985 UR, 13, 3, 10; 1985 UU, 9, 2, 10; 1986 EL<sub>5</sub>, 25, 3, 8; 1986 QK, 10, 2, 2; 1986 QE<sub>1</sub>, 3, 1, 0; 1986 QM<sub>1</sub>, 10, 2, 8; 1986 QN<sub>2</sub>, 5, 1, 0; 1986 QD<sub>3</sub>, 19, 4, 8; 1986 QG<sub>3</sub>, 19, 4, 8; 1986 TZ<sub>3</sub>, 17, 4, 8; 1986 VQ<sub>2</sub>, 5, 1, 0; 1986 WP<sub>2</sub>, 9, 2, 427; 1987 BW<sub>1</sub>, 5, 1, 0; 1987 BB<sub>2</sub>, 3, 1, 0; 1987 DO, 7, 2, 4; 1987 DQ<sub>6</sub>, 4, 1, 0; 1987 KG<sub>5</sub>, 10, 2, 4; 1987 ON, 5, 1, 0; 1987 QF<sub>1</sub>, 15, 3, 11; 1987 SC<sub>1</sub>, 4, 1, 0; 1987 SH<sub>4</sub>, 10, 3, 10; 1987 TG, 25, 5, 13; 1987 UZ<sub>1</sub>, 8, 2, 6; 1988 BA<sub>4</sub>, 14, 3, 10; 1988 CW<sub>1</sub>, 14, 3, 10; 1988 CG<sub>2</sub>, 5, 1, 0; 1988 CQ<sub>4</sub>, 5, 1, 0; 1988 CR<sub>5</sub>, 9, 2, 7; 1988 CG<sub>7</sub>, 4, 1, 0; 1988 DF<sub>3</sub>, 5, 1, 0; 1988 EP, 14, 3, 8; 1988 FN, 3, 1, 0; 1988 GG, 5, 1, 0; 1988 KV, 14, 3, 8; 1988 LG, 4, 1, 0; 1988 MA, 13, 3, 10; 1988 PO, 10, 2, 2; 1988 RC, 25, 4, 12; 1988 RT<sub>4</sub>, 3, 1, 0; 1988 RE<sub>10</sub>, 5, 1, 0; 1988 RN<sub>10</sub>, 4, 1, 0; 1988 RO<sub>10</sub>, 4, 1, 0; 1988 RR<sub>10</sub>, 8, 2, 8; 1988 RX<sub>10</sub>, 38, 7, 12; 1988 RY<sub>10</sub>, 10, 2, 8; 1988 RB<sub>11</sub>, 3, 1, 0; 1988 RH<sub>11</sub>, 3, 1, 0; 1988 RY<sub>11</sub>, 13, 3, 8; 1988 RP<sub>12</sub>, 13, 3, 8; 1988 RS<sub>12</sub>, 5, 1, 0; 1988 RT<sub>12</sub>, 15, 3, 8; 1988 RW<sub>12</sub>, 4, 1, 0; 1988 RY<sub>12</sub>, 4, 1, 0; 1988 RH<sub>13</sub>, 9, 2, 4; 1988 RK<sub>13</sub>, 4, 1, 0; 1988 RL<sub>13</sub>, 8, 2, 2; 1988 SW<sub>1</sub>, 5, 1, 0; 1988 SE<sub>2</sub>, 9, 2, 2; 1988 SK<sub>2</sub>, 13, 3, 8; 1988 SP<sub>2</sub>, 15, 3, 8; 1988 SA<sub>3</sub>, 24, 6, 12; 1988 TQ<sub>1</sub>, 5, 1, 0; 1988 TV<sub>2</sub>, 13, 3, 12; 1988 VP, 15, 3, 8; 1988 VW<sub>2</sub>, 25, 5, 10; 1988 XQ, 4, 1, 0; 1989 AR, 5, 1, 0; 1989 AM<sub>3</sub>, 13, 3, 10; 1989 AR<sub>5</sub>, 5, 1, 0; 1989 CS<sub>1</sub>, 14, 3, 10; 1989 CQ<sub>2</sub>, 15, 3, 8; 1989 CR<sub>5</sub>, 15, 3, 10; 1989 DK, 5, 1, 0; 1989 DL, 24, 5, 10; 1989 GD<sub>1</sub>, 12, 3, 11; 1989 GY<sub>1</sub>, 24, 5, 9; 1989 GM<sub>2</sub>, 13, 3, 8; 1989 KF, 5, 1, 0; 1989 OM, 8, 2, 7; 1989 RT, 18, 4, 12; 1989 RT<sub>1</sub>, 19, 4, 8; 1989 RJ<sub>2</sub>, 5, 1, 0; 1989 SR, 5, 1, 0; 1989 ST<sub>1</sub>, 10, 2, 4; 1989 SN<sub>2</sub>, 15, 3, 8; 1989 SV<sub>2</sub>, 7, 2, 4; 1989 SJ<sub>3</sub>, 15, 3, 8; 1989 SN<sub>3</sub>, 12, 3, 8; 1989 SP<sub>3</sub>, 15, 3, 8; 1989 SV<sub>3</sub>, 8, 2, 4; 1989 SY<sub>3</sub>, 15, 3, 8; 1989 SC<sub>4</sub>, 23, 5, 8; 1989 SF<sub>4</sub>, 5, 1, 0; 1989 SH<sub>4</sub>, 19, 3, 8; 1989 SQ<sub>4</sub>, 3, 1, 0; 1989 SH<sub>5</sub>, 15, 3, 8; 1989 ST<sub>7</sub>, 7, 2, 2; 1989 SZ<sub>9</sub>, 18, 4, 8; 1989 SZ<sub>13</sub>, 5, 1, 0; 1989 TD, 4, 1, 0; 1989 TR<sub>3</sub>, 15, 3, 8; 1989 TR<sub>7</sub>, 14, 3, 8; 1989 TN<sub>11</sub>, 5, 1, 0; 1989 TZ<sub>11</sub>, 4, 1, 0; 1989 TO<sub>14</sub>, 8, 2, 10; 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1990 QF<sub>9</sub>, 5, 1, 0; 1990 QE<sub>10</sub>, 8, 2, 3; 1990 RG, 19, 4, 8; 1990 RH<sub>3</sub>, 15, 3, 12; 1990 RJ<sub>3</sub>, 14, 3, 8; 1990 RK<sub>5</sub>, 4, 1, 0; 1990 SF<sub>1</sub>, 5, 1, 0; 1990 SR<sub>2</sub>, 5, 1, 0; 1990 SP<sub>6</sub>, 14, 3, 12; 1990 SS<sub>6</sub>, 3, 1, 0; 1990 SA<sub>7</sub>, 15, 3, 8; 1990 SH<sub>7</sub>, 15, 3, 8; 1990 SS<sub>7</sub>, 10, 2, 8; 1990 SF<sub>8</sub>, 10, 2, 4; 1990 SH<sub>8</sub>, 15, 3, 8; 1990 SB<sub>11</sub>, 8, 2, 6; 1990 SC<sub>11</sub>, 14, 3, 10; 1990 SL<sub>11</sub>, 14, 3, 10; 1990 SE<sub>15</sub>, 15, 3, 10; 1990 TC<sub>1</sub>, 45, 4, 7; 1990 TQ<sub>1</sub>, 8, 2, 4; 1990 TY<sub>3</sub>, 15, 3, 12; 1990 TL<sub>7</sub>, 9, 2, 6; 1990 TP<sub>7</sub>, 34, 5, 9; 1990 TH<sub>8</sub>, 20, 4, 8; 1990 TJ<sub>8</sub>, 14, 3, 8; 1990 TC<sub>11</sub>, 12, 3, 11; 1990 UD<sub>1</sub>, 14, 3, 11; 1990 UP<sub>1</sub>, 11, 3, 11; 1990 UC<sub>5</sub>, 5, 1, 0; 1990 VX<sub>1</sub>, 3, 1, 0; 1990 VU<sub>3</sub>, 38, 7, 11; 1990 VL<sub>4</sub>, 10, 2, 6; 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1991 RP<sub>23</sub>, 8, 2, 10; 1991 RC<sub>27</sub>, 4, 1, 0; 1991 RB<sub>41</sub>, 15, 3, 8; 1991 SQ, 10, 2, 11; 1991 SY, 15, 3, 8; 1991 SH<sub>1</sub>, 10, 2, 4; 1991 TN<sub>2</sub>, 15, 3, 8; 1991 TB<sub>5</sub>, 4, 1, 0; 1991 TQ<sub>6</sub>, 39, 6, 10; 1991 TS<sub>6</sub>, 15, 3, 8; 1991 TQ<sub>7</sub>, 10, 2, 12; 1991 TG<sub>14</sub>, 4, 1, 0; 1991 UC<sub>3</sub>, 19, 4, 8; 1991 UM<sub>3</sub>, 10, 2, 6; 1991 UV<sub>3</sub>, 19, 3, 7; 1991 VJ<sub>6</sub>, 34, 6, 10; 1991 VZ<sub>5</sub>, 5, 1, 0; 1991 XG<sub>1</sub>, 5, 1, 0; 1991 YA, 4, 1, 0; 1991 YU, 4, 1, 0; 1992 AM<sub>3</sub>, 10, 2, 12; 1992 BC<sub>2</sub>, 24, 4, 13; 1992 BT<sub>5</sub>, 8, 2, 7; 1992 CR<sub>2</sub>, 19, 4, 8; 1992 DY, 15, 3, 8; 1992 DC<sub>1</sub>, 4, 1, 0; 1992 DM<sub>2</sub>, 10, 2, 8; 1992 DS<sub>5</sub>, 13, 2, 1; 1992 DO<sub>6</sub>, 10, 2, 8; 1992 DC<sub>7</sub>, 3, 1, 0; 1992 DG<sub>7</sub>, 10, 2, 4; 1992 DQ<sub>7</sub>, 20, 4, 8; 1992 DK<sub>8</sub>, 25, 4, 10; 1992 DM<sub>8</sub>, 19, 3, 8; 1992 DN<sub>8</sub>, 20, 4, 8; 1992 EO, 13, 3, 11; 1992 EP<sub>4</sub>, 4, 1, 0; 1992 EJ<sub>5</sub>, 10, 2, 8; 1992 EO<sub>5</sub>, 5, 1, 0; 1992 EV<sub>5</sub>, 15, 3, 12; 1992 EW<sub>5</sub>, 4, 1, 0; 1992 EK<sub>7</sub>, 5, 1, 0; 1992 EP<sub>8</sub>, 3, 1, 0; 1992 EY<sub>8</sub>, 9, 2, 7; 1992 EO<sub>9</sub>, 34, 6, 10; 1992 EQ<sub>10</sub>, 4, 1, 0; 1992 EU<sub>11</sub>, 12, 3, 12; 1992 EY<sub>14</sub>, 18, 4, 8; 1992 EW<sub>15</sub>, 18, 4, 10; 1992 EX<sub>16</sub>, 10, 2, 3; 1992 EE<sub>10</sub>, 4, 1, 0; 1992 ED<sub>22</sub>, 8, 2, 8; 1992 EG<sub>22</sub>, 5, 1, 0; 1992 EX<sub>25</sub>, 4, 1, 0; 1992 ER<sub>28</sub>, 15, 3, 8; 1992 EG<sub>31</sub>, 10, 2, 5; 1992 EL<sub>35</sub>, 10, 2, 3; 1992 FG, 5, 1, 0; 1992 FD<sub>1</sub>, 15, 3, 8; 1992 FK<sub>1</sub>, 5, 1, 0; 1992 GQ, 10, 2, 6; 1992 GB<sub>2</sub>, 19, 4, 10; 1992 GF<sub>2</sub>, 4, 1, 0; 1992 GO<sub>2</sub>, 15, 3, 8; 1992 GU<sub>2</sub>, 4, 1, 0; 1992 GN<sub>3</sub>, 19, 4, 8; 1992 GW<sub>4</sub>, 17, 2, 8; 1992 GX<sub>4</sub>, 18, 4, 8; 1992 HG<sub>1</sub>, 10, 2, 1; 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1, 0; 1994 NV<sub>1</sub>, 5, 1, 0; 1994 PE, 11, 3, 5; 1994 PV, 14, 3, 8; 1994 PY<sub>1</sub>, 18, 4, 6; 1994 PK<sub>3</sub>, 3, 1, 0; 1994 PG<sub>5</sub>, 10, 2, 3; 1994 PW<sub>8</sub>, 5, 1, 0; 1994 PF<sub>9</sub>, 19, 4, 8; 1994 PX<sub>11</sub>, 3, 1, 0; 1994 PC<sub>12</sub>, 8, 2, 10; 1994 PJ<sub>13</sub>, 19, 4, 8; 1994 PM<sub>13</sub>, 13, 3, 8; 1994 PN<sub>13</sub>, 61, 9, 13; 1994 PT<sub>13</sub>, 7, 2, 4; 1994 PU<sub>13</sub>, 16, 4, 451; 1994 PZ<sub>13</sub>, 4, 1, 0; 1994 PD<sub>14</sub>, 33, 5, 14; 1994 PQ<sub>14</sub>, 23, 4, 8; 1994 PN<sub>17</sub>, 23, 4, 11; 1994 PW<sub>17</sub>, 3, 1, 0; 1994 PZ<sub>17</sub>, 20, 4, 10; 1994 PT<sub>19</sub>, 18, 4, 8; 1994 PP<sub>20</sub>, 15, 3, 8; 1994 PL<sub>21</sub>, 18, 4, 8; 1994 PU<sub>24</sub>, 10, 2, 1; 1994 PL<sub>25</sub>, 10, 2, 6; 1994 PG<sub>27</sub>, 20, 4, 8; 1994 PZ<sub>27</sub>, 9, 2, 5; 1994 PG<sub>29</sub>, 29, 5, 9; 1994 PA<sub>31</sub>, 20, 4, 8; 1994 PL<sub>33</sub>, 30, 6, 8; 1994 PN<sub>36</sub>, 13, 3, 7; 1994 PP<sub>36</sub>, 13, 3, 9; 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14, 3, 12; 1996 TJ<sub>52</sub>, 15, 3, 11; 1996 TC<sub>54</sub>, 10, 2, 8; 1996 TK<sub>54</sub>, 5, 1, 0; 1996 TT<sub>54</sub>, 20, 4, 12; 1996 TA<sub>55</sub>, 4, 1, 0; 1996 TX<sub>64</sub>, 20, 4, 8; 1996 TY<sub>64</sub>, 23, 4, 8; 1996 UU, 23, 5, 12; 1996 UM<sub>1</sub>, 4, 1, 0; 1996 UP<sub>1</sub>, 15, 3, 10; 1996 UG<sub>4</sub>, 15, 3, 10; 1996 UH<sub>5</sub>, 14, 3, 10; 1996 VK, 4, 1, 0; 1996 VL, 4, 1, 0; 1996 VM, 10, 2, 4; 1996 VN, 12, 3, 8; 1996 VY, 3, 1, 0; 1996 VE<sub>1</sub>, 5, 1, 0; 1996 VM<sub>1</sub>, 5, 1, 0; 1996 VQ<sub>1</sub>, 13, 3, 10; 1996 VR<sub>1</sub>, 4, 1, 0; 1996 VY<sub>1</sub>, 17, 4, 10; 1996 VE<sub>2</sub>, 5, 1, 0; 1996 VG<sub>2</sub>, 5, 1, 0; 1996 VM<sub>2</sub>, 4, 1, 0; 1996 VF<sub>3</sub>, 9, 2, 3; 1996 VG<sub>3</sub>, 5, 1, 0; 1996 VK<sub>3</sub>, 19, 4, 8; 1996 VL<sub>3</sub>, 18, 4, 14; 1996 VT<sub>3</sub>, 5, 1, 0; 1996 VH<sub>4</sub>, 10, 2, 4; 1996 VK<sub>4</sub>, 4, 1, 0; 1996 VL<sub>4</sub>, 7, 2, 8; 1996 VR<sub>4</sub>, 5, 1, 0; 1996 VS<sub>4</sub>, 17, 4, 8; 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1997 WM<sub>35</sub>, 15, 3, 8; 1997 WT<sub>35</sub>, 5, 1, 0; 1997 WJ<sub>36</sub>, 15, 3, 8; 1997 WW<sub>36</sub>, 13, 3, 8; 1997 WM<sub>37</sub>, 5, 1, 0; 1997 WH<sub>38</sub>, 4, 1, 0; 1997 WK<sub>38</sub>, 5, 1, 0; 1997 WR<sub>38</sub>, 20, 4, 10; 1997 WF<sub>39</sub>, 5, 1, 0; 1997 WU<sub>39</sub>, 5, 1, 0; 1997 WZ<sub>39</sub>, 10, 2, 2; 1997 WS<sub>41</sub>, 5, 1, 0; 1997 WA<sub>42</sub>, 10, 2, 5; 1997 WB<sub>43</sub>, 5, 1, 0; 1997 WF<sub>43</sub>, 10, 2, 6; 1997 WH<sub>43</sub>, 5, 1, 0; 1997 WM<sub>43</sub>, 8, 2, 10; 1997 WW<sub>43</sub>, 13, 3, 10; 1997 WE<sub>44</sub>, 10, 2, 7; 1997 WY<sub>44</sub>, 5, 1, 0; 1997 WX<sub>45</sub>, 13, 3, 12; 1997 WO<sub>47</sub>, 15, 3, 8; 1997 WX<sub>49</sub>, 38, 6, 13; 1997 WV<sub>56</sub>, 5, 1, 0; 1997 WO<sub>57</sub>, 9, 2, 12; 1997 XG, 4, 1, 0; 1997 XL, 15, 3, 8; 1997 XO, 18, 3, 2; 1997 XR, 24, 5, 10; 1997 XW, 25, 4, 3; 1997 XX, 10, 2, 6; 1997 XZ, 39, 5, 10; 1997 XK<sub>1</sub>, 5, 1, 0; 1997 XV<sub>1</sub>, 5, 1, 0; 1997 XN<sub>3</sub>, 15, 3, 8; 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1998 FS<sub>13</sub>, 11, 3, 2; 1998 FU<sub>13</sub>, 37, 6, 13; 1998 FD<sub>14</sub>, 5, 1, 0; 1998 FE<sub>14</sub>, 12, 3, 10; 1998 FV<sub>14</sub>, 17, 4, 8; 1998 FA<sub>15</sub>, 12, 3, 5; 1998 FD<sub>15</sub>, 3, 1, 0; 1998 FH<sub>15</sub>, 10, 2, 7; 1998 FL<sub>15</sub>, 5, 1, 0; 1998 FY<sub>15</sub>, 15, 3, 8; 1998 FJ<sub>16</sub>, 5, 1, 0; 1998 FK<sub>16</sub>, 15, 3, 11; 1998 FO<sub>16</sub>, 19, 4, 8; 1998 FD<sub>17</sub>, 10, 2, 5; 1998 FY<sub>19</sub>, 3, 1, 0; 1998 FT<sub>20</sub>, 3, 1, 0; 1998 FV<sub>20</sub>, 34, 6, 12; 1998 FX<sub>20</sub>, 3, 1, 0; 1998 FE<sub>21</sub>, 3, 1, 0; 1998 FJ<sub>21</sub>, 20, 4, 8; 1998 FM<sub>21</sub>, 3, 1, 0; 1998 FQ<sub>21</sub>, 3, 1, 0; 1998 FE<sub>22</sub>, 3, 1, 0; 1998 FQ<sub>22</sub>, 3, 1, 0; 1998 FR<sub>22</sub>, 15, 3, 57; 1998 FA<sub>23</sub>, 13, 3, 11; 1998 FH<sub>23</sub>, 4, 1, 0; 1998 FJ<sub>23</sub>, 11, 3, 8; 1998 FY<sub>23</sub>, 5, 1, 0; 1998 FC<sub>24</sub>, 17, 4, 867; 1998 FQ<sub>24</sub>, 3, 1, 0; 1998 FQ<sub>25</sub>, 3, 1, 0; 1998 FZ<sub>25</sub>, 8, 2, 3; 1998 FD<sub>26</sub>, 15, 3, 11; 1998 FS<sub>26</sub>, 10, 2, 5; 1998 FT<sub>26</sub>, 5, 1, 0; 1998 FZ<sub>26</sub>, 10, 2, 4; 1998 FA<sub>27</sub>, 17, 4, 10; 1998 FD<sub>27</sub>, 22, 3, 8; 1998 FU<sub>27</sub>, 20, 4, 8; 1998 FA<sub>28</sub>, 14, 3, 10; 1998 FE<sub>28</sub>, 8, 2, 3; 1998 FG<sub>28</sub>, 10, 2, 8; 1998 FK<sub>28</sub>, 16, 4, 8; 1998 FR<sub>28</sub>, 7, 2, 23; 1998 FV<sub>28</sub>, 17, 4, 8; 1998 FC<sub>29</sub>, 15, 3, 12; 1998 FJ<sub>29</sub>, 5, 1, 0; 1998 FO<sub>29</sub>, 15, 3, 10; 1998 FP<sub>29</sub>, 10, 2, 3; 1998 FT<sub>29</sub>, 5, 1, 0; 1998 FU<sub>29</sub>, 5, 1, 0; 1998 FV<sub>29</sub>, 5, 1, 0; 1998 FW<sub>29</sub>, 5, 1, 0; 1998 FX<sub>29</sub>, 5, 1, 0; 1998 FB<sub>30</sub>, 9, 2, 422; 1998 FC<sub>30</sub>, 14, 3, 10; 1998 FE<sub>30</sub>, 4, 1, 0; 1998 FF<sub>30</sub>, 5, 1, 0; 1998 FH<sub>30</sub>, 4, 1, 0; 1998 FM<sub>30</sub>, 10, 2, 21; 1998 FN<sub>30</sub>, 15, 3, 6; 1998 FB<sub>31</sub>, 10, 2, 5; 1998 FC<sub>31</sub>, 9, 2, 21; 1998 FD<sub>31</sub>, 5, 1, 0; 1998 FK<sub>31</sub>, 8, 2, 3; 1998 FO<sub>31</sub>, 5, 1, 0; 1998 FX<sub>31</sub>, 10, 2, 21; 1998 FM<sub>32</sub>, 10, 2, 6; 1998 FD<sub>33</sub>, 20, 4, 8; 1998 FG<sub>33</sub>, 14, 3, 450; 1998 FL<sub>33</sub>, 4, 1, 0; 1998 FU<sub>33</sub>, 4, 1, 0; 1998 FX<sub>33</sub>, 10, 2, 21; 1998 FY<sub>33</sub>, 5, 1, 0; 1998 FZ<sub>33</sub>, 10, 2, 6; 1998 FK<sub>34</sub>, 13, 3, 8; 1998 FL<sub>34</sub>, 20, 4, 8; 1998 FR<sub>34</sub>, 10, 2, 24; 1998 FV<sub>34</sub>, 5, 1, 0; 1998 FD<sub>35</sub>, 14, 3, 8; 1998 FJ<sub>35</sub>, 9, 2, 21; 1998 FD<sub>36</sub>, 9, 2, 3; 1998 FJ<sub>36</sub>, 5, 1, 0; 1998 FL<sub>36</sub>, 4, 1, 0; 1998 FP<sub>36</sub>, 5, 1, 0; 1998 FJ<sub>37</sub>, 8, 2, 23; 1998 FO<sub>37</sub>, 4, 1, 0; 1998 FX<sub>37</sub>, 8, 2, 3; 1998 FY<sub>37</sub>, 9, 2, 29; 1998 FD<sub>38</sub>, 3, 1, 0; 1998 FG<sub>38</sub>, 4, 1, 0; 1998 FA<sub>39</sub>, 8, 2, 3; 1998 FT<sub>39</sub>, 12, 3, 8; 1998 FB<sub>40</sub>, 14, 3, 26; 1998 FD<sub>40</sub>, 8, 2, 21; 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14, 3, 8; 1998 FK<sub>58</sub>, 20, 4, 8; 1998 FO<sub>58</sub>, 39, 5, 8; 1998 FR<sub>58</sub>, 10, 2, 8; 1998 FV<sub>58</sub>, 19, 4, 8; 1998 FH<sub>59</sub>, 9, 2, 1; 1998 FM<sub>59</sub>, 4, 1, 0; 1998 FQ<sub>59</sub>, 4, 1, 0; 1998 FU<sub>59</sub>, 5, 1, 0; 1998 FZ<sub>59</sub>, 10, 2, 21; 1998 FA<sub>60</sub>, 14, 3, 32; 1998 FB<sub>60</sub>, 15, 3, 8; 1998 FC<sub>60</sub>, 20, 3, 8; 1998 FG<sub>60</sub>, 5, 1, 0; 1998 FJ<sub>60</sub>, 9, 2, 22; 1998 FN<sub>60</sub>, 29, 6, 897; 1998 FP<sub>60</sub>, 3, 1, 0; 1998 FU<sub>60</sub>, 14, 3, 8; 1998 FX<sub>60</sub>, 5, 1, 0; 1998 FJ<sub>61</sub>, 4, 1, 0; 1998 FW<sub>61</sub>, 4, 1, 0; 1998 FX<sub>61</sub>, 5, 1, 0; 1998 FY<sub>61</sub>, 14, 3, 10; 1998 FE<sub>62</sub>, 9, 2, 10; 1998 FE<sub>62</sub>, 14, 2, 8; 1998 FH<sub>62</sub>, 4, 1, 0; 1998 FM<sub>62</sub>, 17, 3, 8; 1998 FN<sub>62</sub>, 18, 4, 13; 1998 FO<sub>62</sub>, 20, 4, 8; 1998 FU<sub>62</sub>, 13, 3, 8; 1998 FV<sub>62</sub>, 33, 7, 918; 1998 FY<sub>62</sub>, 10, 2, 4; 1998 FC<sub>63</sub>, 20, 4, 8; 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0; 1999 CT<sub>1</sub>, 4, 1, 0; 1999 CZ<sub>1</sub>, 14, 3, 10; 1999 CZ<sub>3</sub>, 9, 2, 3; 1999 CZ<sub>4</sub>, 4, 1, 0; 1999 CB<sub>6</sub>, 4, 1, 0; 1999 CD<sub>6</sub>, 30, 6, 12; 1999 CA<sub>7</sub>, 4, 1, 0; 1999 CY<sub>7</sub>, 15, 3, 11; 1999 CZ<sub>7</sub>, 15, 3, 10; 1999 CO<sub>8</sub>, 8, 2, 8; 1999 CQ<sub>8</sub>, 9, 2, 8; 1999 CA<sub>9</sub>, 13, 3, 8; 1999 CC<sub>9</sub>, 14, 3, 10; 1999 CR<sub>9</sub>, 14, 3, 10; 1999 CU<sub>9</sub>, 5, 1, 0; 1999 CV<sub>9</sub>, 15, 3, 10; 1999 CJ<sub>10</sub>, 4, 1, 0; 1999 CU<sub>10</sub>, 5, 1, 0; 1999 CF<sub>11</sub>, 8, 2, 11; 1999 CS<sub>11</sub>, 40, 7, 15; 1999 CY<sub>11</sub>, 24, 5, 12; 1999 CZ<sub>11</sub>, 8, 2, 4; 1999 CH<sub>12</sub>, 10, 2, 91; 1999 CJ<sub>12</sub>, 5, 1, 0; 1999 CF<sub>14</sub>, 12, 3, 8; 1999 CT<sub>14</sub>, 4, 1, 0; 1999 CW<sub>14</sub>, 11, 3, 8; 1999 CZ<sub>14</sub>, 5, 1, 0; 1999 CH<sub>15</sub>, 5, 1, 0; 1999 CP<sub>15</sub>, 19, 4, 11; 1999 CL<sub>16</sub>, 4, 1, 0; 1999 CH<sub>25</sub>, 5, 1, 0; 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1999 CJ<sub>128</sub>, 10, 2, 53; 1999 CE<sub>135</sub>, 4, 1, 0; 1999 CL<sub>135</sub>, 38, 6, 40; 1999 CA<sub>138</sub>, 5, 1, 0; 1999 CG<sub>138</sub>, 17, 4, 8; 1999 CH<sub>147</sub>, 15, 3, 10; 1999 CE<sub>150</sub>, 13, 3, 12; 1999 CX<sub>150</sub>, 7, 2, 11; 1999 CZ<sub>157</sub>, 33, 6, 13; 1999 DY<sub>14</sub>, 14, 3, 8; 1999 DE<sub>1</sub>, 15, 3, 11; 1999 DJ<sub>1</sub>, 20, 3, 8; 1999 DC<sub>2</sub>, 14, 3, 11; 1999 DL<sub>2</sub>, 5, 1, 0; 1999 DR<sub>2</sub>, 5, 1, 0; 1999 DB<sub>3</sub>, 5, 1, 0; 1999 DC<sub>3</sub>, 5, 1, 0; 1999 DH<sub>3</sub>, 13, 3, 8; 1999 DL<sub>3</sub>, 5, 1, 0; 1999 DO<sub>3</sub>, 21, 4, 8; 1999 DN<sub>6</sub>, 5, 1, 0; 1999 DU<sub>6</sub>, 5, 1, 0; 1999 DV<sub>6</sub>, 5, 1, 0; 1999 DY<sub>6</sub>, 14, 3, 10; 1999 DV<sub>7</sub>, 4, 1, 0; 1999 DW<sub>8</sub>, 4, 1, 0; 1999 EA<sub>15</sub>, 3, 8; 1999 EB<sub>4</sub>, 1, 0; 1999 EJ<sub>4</sub>, 1, 0; 1999 EL<sub>10</sub>, 2, 2; 1999 EJ<sub>2</sub>, 30, 5, 15; 1999 EX<sub>2</sub>, 5, 1, 0; 1999 EZ<sub>2</sub>, 7, 2, 7; 1999 EK<sub>3</sub>, 10, 2, 2; 1999 EP<sub>3</sub>, 9, 2, 3; 1999 EQ<sub>3</sub>, 20, 4, 9; 1999 ET<sub>4</sub>, 9, 2, 1; 1999 EV<sub>4</sub>, 15, 3, 12; 1999 EY<sub>4</sub>, 5, 1, 0; 1999 EO<sub>5</sub>, 15, 3, 9; 1999 ED<sub>7</sub>, 20, 4, 10; 1999 EK<sub>9</sub>, 5, 1, 0; 1999 EF<sub>14</sub>, 4, 1, 0; 1999 EV<sub>14</sub>, 10, 2, 7; 1999 EW<sub>14</sub>, 9, 2, 108; 1999 FD<sub>14</sub>, 4, 3, 8; 1999 FN<sub>15</sub>, 15, 3, 10; 1999 FO<sub>5</sub>, 1, 0; 1999 FP<sub>5</sub>, 5, 1, 0; 1999 FZ<sub>2</sub>, 10, 2, 8; 1999 FB<sub>3</sub>, 8, 2, 7; 1999 FG<sub>3</sub>, 3, 1, 0; 1999 FL<sub>3</sub>, 5, 1, 0; 1999 FN<sub>3</sub>, 9, 2, 1064; 1999 FD<sub>4</sub>, 10, 2, 4; 1999 FW<sub>4</sub>, 17, 4, 8; 1999 FT<sub>5</sub>, 10, 2, 4; 1999 FH<sub>6</sub>, 20, 4, 8; 1999 FZ<sub>6</sub>, 20, 3, 10; 1999 FD<sub>7</sub>, 4, 1, 0; 1999 FE<sub>7</sub>, 19, 4, 8; 1999 FF<sub>7</sub>, 48, 5, 10; 1999 FQ<sub>7</sub>, 9, 2, 4; 1999 FS<sub>7</sub>, 6, 2, 2; 1999 FY<sub>7</sub>, 9, 2, 6; 1999 FF<sub>8</sub>, 14, 3, 10; 1999 FH<sub>8</sub>, 17, 4, 13; 1999 FK<sub>8</sub>, 5, 1, 0; 1999 FL<sub>8</sub>, 4, 1, 0; 1999 FS<sub>8</sub>, 5, 1, 0; 1999 FV<sub>8</sub>, 3, 1, 0; 1999 FJ<sub>9</sub>, 13, 3, 11; 1999 FN<sub>9</sub>, 12, 3, 8; 1999 FT<sub>9</sub>, 5, 1, 0; 1999 FY<sub>9</sub>, 18, 4, 8; 1999 FF<sub>10</sub>, 14, 3, 12; 1999 FG<sub>10</sub>, 3, 1, 0; 1999 FL<sub>10</sub>, 29, 6, 12; 1999 FP<sub>10</sub>, 5, 1, 0; 1999 FK<sub>17</sub>, 10, 2, 2; 1999 FP<sub>17</sub>, 3, 1, 0; 1999 FU<sub>17</sub>, 3, 1, 0; 1999 FE<sub>18</sub>, 14, 3, 11; 1999 FF<sub>18</sub>, 15, 3, 8; 1999 FL<sub>18</sub>, 5, 1, 0; 1999 FR<sub>18</sub>, 9, 2, 8; 1999 FT<sub>18</sub>, 4, 1, 0; 1999 FW<sub>18</sub>, 12, 3, 11; 1999 FZ<sub>18</sub>, 15, 3, 8; 1999 FB<sub>19</sub>, 17, 4, 14; 1999 FD<sub>19</sub>, 8, 2, 4; 1999 FF<sub>19</sub>, 14, 3, 9; 1999 FJ<sub>19</sub>, 15, 3, 12; 1999 FK<sub>19</sub>, 18, 4, 9; 1999 FU<sub>19</sub>, 10, 2, 8; 1999 FV<sub>19</sub>, 8, 2, 8; 1999 FN<sub>21</sub>, 5, 1, 0; 1999 FP<sub>21</sub>, 3, 1, 0; 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18, 4, 10; 1999 GC<sub>9</sub>, 20, 4, 8; 1999 GE<sub>9</sub>, 35, 6, 9; 1999 GF<sub>9</sub>, 13, 3, 10; 1999 GK<sub>9</sub>, 14, 3, 10; 1999 GO<sub>9</sub>, 3, 1, 0; 1999 GG<sub>11</sub>, 20, 3, 10; 1999 GP<sub>11</sub>, 5, 1, 0; 1999 GO<sub>12</sub>, 1, 1, 0; 1999 GC<sub>13</sub>, 8, 2, 10; 1999 GS<sub>13</sub>, 9, 2, 6; 1999 GE<sub>15</sub>, 4, 1, 0; 1999 GZ<sub>16</sub>, 20, 3, 8; 1999 GA<sub>17</sub>, 20, 4, 8; 1999 GD<sub>17</sub>, 5, 1, 0; 1999 GP<sub>17</sub>, 15, 3, 8; 1999 GQ<sub>17</sub>, 13, 3, 11; 1999 GT<sub>17</sub>, 5, 1, 0; 1999 GZ<sub>17</sub>, 7, 2, 3; 1999 GA<sub>18</sub>, 20, 4, 8; 1999 GE<sub>18</sub>, 10, 2, 11; 1999 GL<sub>18</sub>, 15, 3, 8; 1999 GQ<sub>18</sub>, 24, 4, 8; 1999 GT<sub>18</sub>, 31, 6, 30; 1999 GU<sub>18</sub>, 8, 2, 12; 1999 GG<sub>19</sub>, 5, 1, 0; 1999 GH<sub>19</sub>, 15, 3, 11; 1999 GJ<sub>19</sub>, 17, 4, 11; 1999 GL<sub>19</sub>, 15, 3, 8; 1999 GN<sub>19</sub>, 9, 2, 8; 1999 GQ<sub>19</sub>, 7, 2, 2; 1999 GV<sub>19</sub>, 10, 2, 8; 1999 GE<sub>20</sub>, 7, 2, 4; 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4; 1999 VZ<sub>88</sub>, 5, 1, 0; 1999 VA<sub>94</sub>, 5, 1, 0; 1999 VC<sub>97</sub>, 2, 1, 0; 1999 VU<sub>168</sub>, 3, 1, 0; 1999 VW<sub>180</sub>, 12, 3, 20; 1999 VS<sub>193</sub>, 8, 2, 21; 1999 VR<sub>194</sub>, 5, 1, 0; 1999 VE<sub>203</sub>, 10, 2, 5; 1999 VV<sub>203</sub>, 9, 2, 10; 1999 VN<sub>210</sub>, 5, 1, 0; 1999 VV<sub>225</sub>, 6, 2, 47; 1999 XL, 9, 2, 10; 1999 XF<sub>12</sub>, 5, 1, 0; 1999 XQ<sub>15</sub>, 3, 1, 0; 1999 XU<sub>38</sub>, 13, 3, 380; 1999 XW<sub>39</sub>, 9, 2, 6; 1999 XO<sub>49</sub>, 15, 3, 25; 1999 XG<sub>60</sub>, 3, 1, 0; 1999 XN<sub>78</sub>, 5, 1, 0; 1999 XV<sub>87</sub>, 5, 1, 0; 1999 XW<sub>90</sub>, 5, 1, 0; 1999 XK<sub>104</sub>, 4, 1, 0; 1999 XX<sub>109</sub>, 4, 1, 0; 1999 XP<sub>134</sub>, 10, 2, 25; 1999 XZ<sub>154</sub>, 4, 1, 0; 1999 XB<sub>179</sub>, 5, 1, 0; 1999 XR<sub>179</sub>, 7, 2, 28; 1999 XZ<sub>183</sub>, 3, 1, 0; 1999 XL<sub>216</sub>, 2, 1, 0; 1999 XF<sub>249</sub>, 4, 1, 0; 1999 XF<sub>261</sub>, 18, 4, 139; 2000 AW<sub>11</sub>, 3, 1, 0; 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2000 DM<sub>19</sub>, 4, 1, 0; 2000 DY<sub>19</sub>, 5, 1, 0; 2000 DQ<sub>23</sub>, 7, 2, 501; 2000 DT<sub>26</sub>, 4, 1, 0; 2000 DM<sub>42</sub>, 4, 1, 0; 2000 DY<sub>46</sub>, 4, 1, 0; 2000 DQ<sub>71</sub>, 4, 1, 0; 2000 DL<sub>72</sub>, 4, 1, 0; 2000 DG<sub>82</sub>, 5, 1, 0; 2000 DP<sub>107</sub>, 10, 2, 9; 2000 DG<sub>112</sub>, 8, 2, 59; 2000 EE<sub>101</sub>, 5, 1, 0; 2000 ED<sub>127</sub>, 8, 2, 34; 2000 EP<sub>200</sub>, 5, 1, 0; 2000 FH<sub>16</sub>, 5, 1, 0; 2000 GC<sub>1</sub>, 10, 2, 84; 2000 GP<sub>69</sub>, 5, 1, 0; 2000 GK<sub>137</sub>, 5, 1, 0; 2000 GV<sub>148</sub>, 4, 1, 0; 2000 JU<sub>53</sub>, 3, 1, 0; 2000 JQ<sub>66</sub>, 9, 2, 1; 2000 KQ<sub>2</sub>, 4, 1, 0; 2000 KM<sub>41</sub>, 14, 3, 10; 2000 KQ<sub>42</sub>, 12, 3, 11; 2000 KS<sub>43</sub>, 14, 3, 12; 2000 KH<sub>57</sub>, 12, 3, 12; 2000 KF<sub>67</sub>, 13, 3, 11; 2000 KH<sub>68</sub>, 19, 4, 12; 2000 KA<sub>73</sub>, 15, 3, 12; 2000 KD<sub>73</sub>, 12, 3, 11; 2000 KE<sub>73</sub>, 9, 2, 4; 2000 KF<sub>73</sub>, 10, 2, 4; 2000 KH<sub>73</sub>, 10, 2, 3; 2000 KK<sub>73</sub>, 10, 2, 2; 2000 KL<sub>73</sub>, 9, 2, 2; 2000 KM<sub>73</sub>, 8, 2, 8; 2000 KP<sub>73</sub>, 4, 1, 0; 2000 KL<sub>81</sub>, 13, 3, 12; 2000 LB, 13, 3, 10; 2000 LM, 5, 1, 0; 2000 LW, 11, 3, 11; 2000 LX, 10, 2, 2; 2000 LY<sub>2</sub>, 3, 1, 0; 2000 LZ<sub>2</sub>, 3, 1, 0; 2000 LA<sub>3</sub>, 3, 1, 0; 2000 LE<sub>3</sub>, 12, 3, 3; 2000 LX<sub>9</sub>, 5, 1, 0; 2000 LG<sub>10</sub>, 12, 3, 25; 2000 LH<sub>10</sub>, 20, 4, 10; 2000 LN<sub>10</sub>, 15, 3, 10; 2000 LO<sub>10</sub>, 3, 1, 0; 2000 LP<sub>10</sub>, 13, 3, 10; 2000 LQ<sub>10</sub>, 15, 3, 12; 2000 LS<sub>10</sub>, 15, 3, 10; 2000 LY<sub>11</sub>, 10, 2, 32; 2000 LC<sub>12</sub>, 5, 1, 0; 2000 LD<sub>12</sub>, 15, 3, 10; 2000 LE<sub>12</sub>, 11, 3, 10; 2000 LF<sub>12</sub>, 14, 3, 11; 2000 LH<sub>12</sub>, 15, 3, 10; 2000 LJ<sub>12</sub>, 5, 1, 0; 2000 LK<sub>12</sub>, 10, 2, 2; 2000 LS<sub>14</sub>, 20, 4, 12; 2000 LU<sub>14</sub>, 10, 2, 2; 2000 LV<sub>14</sub>, 15, 3, 12; 2000 LZ<sub>15</sub>, 5, 1, 0; 2000 LD<sub>16</sub>, 35, 7, 10; 2000 LK<sub>16</sub>, 10, 2, 5; 2000 LM<sub>16</sub>, 15, 3, 11; 2000 LN<sub>16</sub>, 15, 3, 12; 2000 LD<sub>17</sub>, 14, 3, 10; 2000 LQ<sub>17</sub>, 15, 3, 10; 2000 LR<sub>17</sub>, 15, 3, 12; 2000 LS<sub>17</sub>, 4, 1, 0; 2000 LN<sub>18</sub>, 5, 1, 0; 2000 LA<sub>19</sub>, 4, 1, 0; 2000 LF<sub>19</sub>, 20, 4, 12; 2000 LM<sub>19</sub>, 9, 2, 2; 2000 LN<sub>19</sub>, 8, 2, 2; 2000 LN<sub>19</sub>, 14, 3, 500; 2000 LO<sub>19</sub>, 7, 2, 2; 2000 LQ<sub>19</sub>, 10, 2, 2; 2000 LR<sub>19</sub>, 4, 1, 0; 2000 LT<sub>19</sub>, 8, 2, 2; 2000 LU<sub>19</sub>, 10, 2, 2; 2000 LV<sub>19</sub>, 6, 2, 2; 2000 LW<sub>19</sub>, 7, 2, 4; 2000 LA<sub>20</sub>, 7, 2, 4; 2000 LB<sub>20</sub>, 20, 4, 52; 2000 LD<sub>20</sub>, 15, 3, 12; 2000 LE<sub>20</sub>, 7, 2, 2; 2000 LF<sub>20</sub>, 17, 4, 92; 2000 LK<sub>20</sub>, 9, 2, 2; 2000 LM<sub>20</sub>, 5, 1, 0; 2000 LO<sub>20</sub>, 14, 3, 12; 2000 LP<sub>20</sub>, 15, 3, 12; 2000 LR<sub>20</sub>, 5, 1, 0; 2000 LS<sub>20</sub>, 9, 2, 2; 2000 LT<sub>20</sub>, 5, 1, 0; 2000 LX<sub>20</sub>, 8, 2, 4; 2000 LY<sub>20</sub>, 15, 3, 12; 2000 LZ<sub>20</sub>, 14, 3, 12; 2000 LA<sub>21</sub>, 19, 4, 12; 2000 LB<sub>21</sub>, 8, 2, 10; 2000 LE<sub>21</sub>, 4, 1, 0; 2000 LF<sub>21</sub>, 14, 3, 12; 2000 LG<sub>21</sub>, 8, 2, 2; 2000 LL<sub>21</sub>, 12, 3, 11; 2000 LQ<sub>21</sub>, 5, 1, 0; 2000 LS<sub>21</sub>, 5, 1, 0; 2000 LU<sub>21</sub>, 8, 2, 10; 2000 LV<sub>21</sub>, 13, 3, 12; 2000 LW<sub>21</sub>, 5, 1, 0; 2000 LX<sub>21</sub>, 4, 1, 0; 2000 LY<sub>21</sub>, 4, 1, 0; 2000 LZ<sub>21</sub>, 14, 3, 12; 2000 LJ<sub>23</sub>, 14, 3, 10; 2000 LK<sub>23</sub>, 5, 1, 0; 2000 LV<sub>23</sub>, 3, 1, 0; 2000 LZ<sub>24</sub>, 16, 4, 61; 2000 LX<sub>24</sub>, 7, 2, 2; 2000 LA<sub>25</sub>, 22, 5, 61; 2000 LB<sub>25</sub>, 13, 3, 11; 2000 LE<sub>25</sub>, 3, 1, 0; 2000 LU<sub>25</sub>, 5, 1, 0; 2000 LV<sub>25</sub>, 5, 1, 0; 2000 LW<sub>25</sub>, 15, 3, 3; 2000 LX<sub>25</sub>, 3, 1, 0; 2000 LP<sub>26</sub>, 29, 6, 28; 2000 LQ<sub>26</sub>, 9, 2, 4; 2000 LT<sub>26</sub>, 4, 1, 0; 2000 LU<sub>26</sub>, 15, 3, 10; 2000 LZ<sub>26</sub>, 5, 1, 0; 2000 LA<sub>27</sub>, 5, 1, 0; 2000 LB<sub>27</sub>

8; 2000 MH<sub>6</sub>, 15, 3, 5; 2000 MK<sub>6</sub>, 11, 3, 11; 2000 MM<sub>6</sub>, 15, 3, 12; 2000 MR<sub>6</sub>, 3, 1, 0; 2000 NG, 3, 1, 0; 2000 NR, 5, 1, 0; 2000 NV<sub>1</sub>, 13, 2, 4; 2000 ND<sub>2</sub>, 5, 1, 0; 2000 NJ<sub>2</sub>, 3, 1, 0; 2000 NL<sub>2</sub>, 5, 1, 0; 2000 NM<sub>2</sub>, 14, 3, 12; 2000 NO<sub>2</sub>, 8, 2, 4; 2000 NQ<sub>2</sub>, 8, 2, 8; 2000 NT<sub>2</sub>, 5, 1, 0; 2000 NU<sub>2</sub>, 7, 2, 3; 2000 NL<sub>3</sub>, 4, 1, 0; 2000 NN<sub>3</sub>, 5, 1, 0; 2000 NP<sub>3</sub>, 13, 3, 12; 2000 NS<sub>3</sub>, 8, 2, 12; 2000 NT<sub>3</sub>, 4, 1, 0; 2000 NV<sub>3</sub>, 5, 1, 0; 2000 NX<sub>3</sub>, 5, 1, 0; 2000 NT<sub>4</sub>, 4, 1, 0; 2000 NV<sub>4</sub>, 13, 3, 12; 2000 NW<sub>4</sub>, 4, 1, 0; 2000 NX<sub>4</sub>, 4, 1, 0; 2000 NY<sub>4</sub>, 5, 1, 0; 2000 NZ<sub>4</sub>, 12, 3, 11; 2000 NA<sub>5</sub>, 30, 5, 9; 2000 NC<sub>5</sub>, 20, 4, 8; 2000 ND<sub>5</sub>, 23, 5, 14; 2000 NE<sub>5</sub>, 34, 5, 10; 2000 NF<sub>5</sub>, 24, 5, 10; 2000 NG<sub>5</sub>, 32, 6, 14; 2000 NH<sub>5</sub>, 5, 1, 0; 2000 NK<sub>5</sub>, 8, 2, 10; 2000 NL<sub>5</sub>, 35, 5, 14; 2000 NM<sub>5</sub>, 3, 1, 0; 2000 NN<sub>5</sub>, 15, 3, 9; 2000 NO<sub>5</sub>, 16, 3, 8; 2000 NP<sub>5</sub>, 25, 5, 65; 2000 NR<sub>5</sub>, 19, 3, 10; 2000 NS<sub>5</sub>, 17, 4, 27; 2000 NT<sub>5</sub>, 13, 3, 10; 2000 NU<sub>5</sub>, 4, 1, 0; 2000 NW<sub>5</sub>, 4, 1, 0; 2000 NZ<sub>5</sub>, 10, 2, 2; 2000 NA<sub>6</sub>, 8, 2, 2; 2000 NW<sub>6</sub>, 14, 3, 12; 2000 NY<sub>6</sub>, 3, 1, 0; 2000 ND<sub>7</sub>, 5, 1, 0; 2000 NE<sub>7</sub>, 5, 1, 0; 2000 NK<sub>7</sub>, 5, 1, 0; 2000 NQ<sub>7</sub>, 5, 1, 0; 2000 NY<sub>7</sub>, 4, 1, 0; 2000 NU<sub>8</sub>, 5, 1, 0; 2000 NX<sub>8</sub>, 30, 5, 10; 2000 NY<sub>8</sub>, 10, 2, 10; 2000 NZ<sub>8</sub>, 18, 4, 8; 2000 NB<sub>9</sub>, 15, 3, 8; 2000 ND<sub>9</sub>, 25, 5, 10; 2000 NJ<sub>9</sub>, 15, 3, 11; 2000 NK<sub>9</sub>, 15, 3, 10; 2000 NL<sub>9</sub>, 19, 4, 8; 2000 NN<sub>9</sub>, 20, 3, 8; 2000 NO<sub>9</sub>, 16, 3, 8; 2000 NP<sub>9</sub>, 5, 1, 0; 2000 NG<sub>10</sub>, 3, 1, 0; 2000 NH<sub>10</sub>, 45, 9, 14; 2000 NJ<sub>10</sub>, 29, 5, 13; 2000 NK<sub>10</sub>, 3, 1, 0; 2000 NL<sub>10</sub>, 3, 1, 0; 2000 NO<sub>10</sub>, 14, 3, 12; 2000 NS<sub>10</sub>, 9, 2, 4; 2000 NU<sub>10</sub>, 4, 1, 0; 2000 NV<sub>10</sub>, 15, 3, 12; 2000 NX<sub>10</sub>, 20, 4, 15; 2000 NY<sub>10</sub>, 9, 2, 4; 2000 NA<sub>11</sub>, 9, 2, 3; 2000 NB<sub>11</sub>, 5, 1, 0; 2000 NC<sub>11</sub>, 14, 3, 11; 2000 ND<sub>11</sub>, 13, 3, 12; 2000 NE<sub>11</sub>, 9, 2, 2; 2000 NJ<sub>11</sub>, 4, 1, 0; 2000 NL<sub>11</sub>, 5, 1, 0; 2000 NU<sub>11</sub>, 8, 2, 82; 2000 ND<sub>12</sub>, 50, 6, 10; 2000 NE<sub>12</sub>, 15, 3, 12; 2000 NF<sub>12</sub>, 15, 3, 12; 2000 NG<sub>12</sub>, 23, 5, 64; 2000 NH<sub>12</sub>, 13, 3, 11; 2000 NJ<sub>12</sub>, 13, 3, 6; 2000 NK<sub>12</sub>, 4, 1, 0; 2000 NM<sub>12</sub>, 10, 2, 5; 2000 NQ<sub>12</sub>, 4, 1, 0; 2000 NS<sub>12</sub>, 4, 1, 0; 2000 NT<sub>12</sub>, 10, 2, 28; 2000 NU<sub>12</sub>, 13, 3, 12; 2000 NW<sub>12</sub>, 5, 1, 0; 2000 NZ<sub>12</sub>, 9, 2, 12; 2000 NB<sub>13</sub>, 4, 1, 0; 2000 NC<sub>13</sub>, 8, 2, 4; 2000 NE<sub>13</sub>, 4, 1, 0; 2000 NF<sub>13</sub>, 10, 2, 12; 2000 NK<sub>13</sub>, 13, 3, 12; 2000 NL<sub>13</sub>, 10, 2, 11; 2000 NM<sub>13</sub>, 9, 2, 2; 2000 NN<sub>13</sub>, 14, 3, 11; 2000 NO<sub>13</sub>, 5, 1, 0; 2000 NP<sub>13</sub>, 7, 2, 3; 2000 NQ<sub>13</sub>, 10, 1, 0; 2000 NR<sub>13</sub>, 9, 2, 3; 2000 NS<sub>13</sub>, 15, 3, 3; 2000 NT<sub>13</sub>, 9, 2, 3; 2000 NU<sub>13</sub>, 7, 2, 4; 2000 NV<sub>13</sub>, 12, 3, 2; 2000 NW<sub>13</sub>, 9, 2, 3; 2000 NX<sub>13</sub>, 5, 1, 0; 2000 NY<sub>13</sub>, 8, 2, 2; 2000 NZ<sub>13</sub>, 3, 1, 0; 2000 NB<sub>14</sub>, 10, 2, 3; 2000 NC<sub>14</sub>, 8, 2, 3; 2000 NE<sub>14</sub>, 5, 1, 0; 2000 NH<sub>14</sub>, 5, 1, 0; 2000 NJ<sub>14</sub>, 9, 2, 2; 2000 NK<sub>14</sub>, 5, 1, 0; 2000 NN<sub>14</sub>, 5, 1, 0; 2000 NY<sub>14</sub>, 15, 3, 10; 2000 NS<sub>14</sub>, 10, 2, 3; 2000 NT<sub>14</sub>, 5, 1, 0; 2000 NV<sub>14</sub>, 10, 2, 2; 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2000 ND<sub>25</sub>, 4, 1, 0; 2000 NG<sub>25</sub>, 5, 1, 0; 2000 NH<sub>25</sub>, 4, 1, 0; 2000 NJ<sub>25</sub>, 7, 2, 8; 2000 NK<sub>25</sub>, 4, 1, 0; 2000 NV<sub>25</sub>, 14, 3, 12; 2000 NS<sub>25</sub>, 5, 1, 0; 2000 NU<sub>25</sub>, 13, 3, 12; 2000 NV<sub>25</sub>, 5, 1, 0; 2000 NW<sub>25</sub>, 10, 2, 4; 2000 NA<sub>26</sub>, 10, 2, 12; 2000 ND<sub>26</sub>, 4, 1, 0; 2000 NJ<sub>26</sub>, 13, 3, 12; 2000 NK<sub>26</sub>, 7, 2, 31; 2000 NL<sub>26</sub>, 5, 1, 0; 2000 NM<sub>26</sub>, 13, 3, 12; 2000 NV<sub>26</sub>, 4, 1, 0; 2000 NW<sub>26</sub>, 5, 1, 0; 2000 NX<sub>26</sub>, 5, 1, 0; 2000 NF<sub>27</sub>, 5, 1, 0; 2000 NH<sub>27</sub>, 4, 1, 0; 2000 NJ<sub>27</sub>, 4, 1, 0; 2000 NK<sub>27</sub>, 10, 2, 4; 2000 NM<sub>27</sub>, 8, 2, 8; 2000 NO<sub>27</sub>, 8, 2, 8; 2000 NC<sub>28</sub>, 5, 1, 0; 2000 NE<sub>28</sub>, 5, 1, 0; 2000 NF<sub>28</sub>, 4, 1, 0; 2000 NJ<sub>28</sub>, 14, 3, 12; 2000 NL<sub>28</sub>, 8, 2, 1; 2000 NM<sub>28</sub>, 3, 1, 0; 2000 NS<sub>28</sub>, 7, 2, 4; 2000 NT<sub>28</sub>, 11, 3, 12; 2000 NU<sub>28</sub>, 13, 3, 12; 2000 NY<sub>28</sub>, 4, 1, 0; 2000 NC<sub>29</sub>, 12, 3, 12; 2000 ND<sub>29</sub>, 14, 3, 11; 2000 NE<sub>29</sub>, 15, 3, 10; 2000 OH, 19, 4, 6; 2000 OJ, 23, 6, 108; 2000 OL, 38, 7, 10; 2000 OA, 15, 3, 12; 2000 OQ, 14, 3, 11; 2000 OS, 9, 2, 8; 2000 OU, 12, 3, 12; 2000 OW, 5, 1, 0; 2000 OP<sub>1</sub>, 18, 4, 13; 2000 OC<sub>2</sub>, 14, 3, 3; 2000 OD<sub>2</sub>, 9, 2, 3; 2000 OE<sub>2</sub>, 5, 1, 0; 2000 OF<sub>2</sub>, 13, 3, 11; 2000 OQ<sub>2</sub>, 17, 4, 39; 2000 OT<sub>2</sub>, 3, 1, 0; 2000 OU<sub>2</sub>, 8, 2, 3; 2000 NY<sub>2</sub>, 13, 3, 12; 2000 OE<sub>3</sub>, 15, 3, 12; 2000 OF<sub>3</sub>, 4, 1, 0; 2000 OG<sub>3</sub>, 15, 3, 10; 2000 OH<sub>3</sub>, 14, 3, 10; 2000 OK<sub>3</sub>, 10, 2, 2; 2000 ON<sub>3</sub>, 8, 2, 3; 2000 OQ<sub>3</sub>, 10, 2, 9; 2000 OS<sub>3</sub>, 15, 3, 12; 2000 OT<sub>3</sub>, 10, 2, 10; 2000 OU<sub>3</sub>, 10, 2, 10; 2000 OW<sub>3</sub>, 15, 3, 12; 2000 OX<sub>3</sub>, 9, 2, 2; 2000 OZ<sub>3</sub>, 8, 2, 2; 2000 OA<sub>4</sub>, 5, 1, 0; 2000 OB<sub>4</sub>, 4, 1, 0; 2000 OD<sub>4</sub>, 18, 3, 3; 2000 OE<sub>4</sub>, 20, 4, 12; 2000 OF<sub>4</sub>, 18, 4, 11; 2000 OG<sub>4</sub>, 14, 3, 10; 2000 OH<sub>4</sub>, 20, 4, 10; 2000 OJ<sub>4</sub>, 10, 2, 2; 2000 OK<sub>4</sub>, 13, 3, 10; 2000 OL<sub>4</sub>, 15, 3, 12; 2000 OM<sub>4</sub>, 14, 3, 12; 2000 ON<sub>4</sub>, 10, 2, 3; 2000 OO<sub>4</sub>, 14, 3, 12; 2000 OP<sub>4</sub>, 15, 3, 11; 2000 OR<sub>4</sub>, 5, 1, 0; 2000 OS<sub>4</sub>, 24, 5, 12; 2000 OT<sub>4</sub>, 10, 2, 2; 2000 OU<sub>4</sub>, 14, 3, 11; 2000 OV<sub>4</sub>, 15, 3, 11; 2000 OX<sub>4</sub>, 15, 3, 11; 2000 OY<sub>4</sub>, 13, 3, 10; 2000 OZ<sub>4</sub>, 10, 2, 2; 2000 OA<sub>5</sub>,

20, 4, 54; 2000 OB<sub>5</sub>, 14, 3, 10; 2000 OD<sub>5</sub>, 14, 3, 10; 2000 OE<sub>5</sub>, 15, 3, 11; 2000 OF<sub>5</sub>, 15, 3, 11; 2000 OG<sub>5</sub>, 9, 2, 2; 2000 OH<sub>5</sub>, 15, 3, 10; 2000 OK<sub>5</sub>, 15, 3, 10; 2000 OL<sub>5</sub>, 15, 3, 10; 2000 OM<sub>5</sub>, 15, 3, 10; 2000 ON<sub>5</sub>, 14, 3, 10; 2000 OP<sub>5</sub>, 14, 3, 11; 2000 OQ<sub>5</sub>, 15, 3, 12; 2000 OR<sub>5</sub>, 20, 4, 10; 2000 OS<sub>5</sub>, 30, 6, 61; 2000 OT<sub>5</sub>, 15, 3, 10; 2000 OU<sub>5</sub>, 15, 3, 10; 2000 OV<sub>5</sub>, 15, 3, 10; 2000 OW<sub>5</sub>, 12, 3, 12; 2000 OY<sub>5</sub>, 19, 4, 14; 2000 OZ<sub>5</sub>, 15, 3, 10; 2000 OA<sub>6</sub>, 5, 1, 0; 2000 OB<sub>6</sub>, 4, 1, 0; 2000 OC<sub>6</sub>, 8, 2, 2; 2000 OD<sub>6</sub>, 15, 3, 10; 2000 OE<sub>6</sub>, 15, 3, 10; 2000 OG<sub>6</sub>, 15, 3, 12; 2000 OK<sub>6</sub>, 17, 4, 30; 2000 OL<sub>6</sub>, 15, 3, 12; 2000 OM<sub>6</sub>, 12, 3, 12; 2000 OO<sub>6</sub>, 8, 2, 4; 2000 OP<sub>6</sub>, 9, 2, 12; 2000 OQ<sub>6</sub>, 4, 1, 0; 2000 OR<sub>6</sub>, 13, 3, 12; 2000 OU<sub>6</sub>, 14, 3, 12; 2000 OZ<sub>6</sub>, 10, 2, 3; 2000 OB<sub>7</sub>, 10, 2, 2; 2000 OF<sub>7</sub>, 15, 3, 10; 2000 OM<sub>7</sub>, 8, 2, 8; 2000 ON<sub>7</sub>, 19, 4, 14; 2000 OO<sub>7</sub>, 3, 1, 0; 2000 OP<sub>7</sub>, 26, 3, 12; 2000 OS<sub>7</sub>, 13, 3, 12; 2000 OT<sub>7</sub>, 15, 3, 10; 2000 OV<sub>7</sub>, 6, 2, 82; 2000 OW<sub>7</sub>, 9, 2, 3; 2000 OY<sub>7</sub>, 15, 3, 10; 2000 OZ<sub>7</sub>, 45, 9, 31; 2000 OB<sub>8</sub>, 15, 3, 10; 2000 OC<sub>8</sub>, 14, 3, 12; 2000 OD<sub>8</sub>, 5, 1, 0; 2000 OG<sub>8</sub>, 30, 5, 15; 2000 OJ<sub>8</sub>, 5, 1, 0; 2000 OM<sub>8</sub>, 5, 1, 0; 2000 OQ<sub>8</sub>, 7, 2, 12; 2000 OT<sub>8</sub>, 10, 2, 10; 2000 OW<sub>8</sub>, 33, 6, 8; 2000 OX<sub>8</sub>, 5, 1, 0; 2000 OY<sub>8</sub>, 15, 3, 8; 2000 OZ<sub>8</sub>, 7, 2, 10; 2000 OB<sub>9</sub>, 5, 1, 0; 2000 OC<sub>9</sub>, 38, 8, 14; 2000 OQ<sub>9</sub>, 15, 3, 12; 2000 OV<sub>9</sub>, 10, 2, 16; 2000 OW<sub>9</sub>, 4, 1, 0; 2000 OZ<sub>9</sub>, 17, 4, 105; 2000 OF<sub>10</sub>, 9, 2, 981; 2000 OK<sub>10</sub>, 5, 1, 0; 2000 OM<sub>10</sub>, 5, 1, 0; 2000 OP<sub>10</sub>, 5, 1, 0; 2000 OQ<sub>10</sub>, 4, 1, 0; 2000 OR<sub>10</sub>, 19, 5, 88; 2000 OV<sub>10</sub>, 3, 1, 0; 2000 OZ<sub>10</sub>, 17, 4, 105; 2000 OC<sub>11</sub>, 3, 1, 0; 2000 OD<sub>11</sub>, 5, 1, 0; 2000 OE<sub>11</sub>, 5, 1, 0; 2000 OH<sub>11</sub>, 5, 1, 0; 2000 OK<sub>11</sub>, 5, 1, 0; 2000 ON<sub>11</sub>, 5, 1, 0; 2000 OS<sub>11</sub>, 5, 1, 0; 2000 OV<sub>11</sub>, 9, 2, 11; 2000 OB<sub>12</sub>, 9, 2, 4; 2000 OG<sub>12</sub>, 8, 2, 4; 2000 OH<sub>12</sub>, 7, 2, 8; 2000 OK<sub>12</sub>, 14, 3, 12; 2000 OL<sub>12</sub>, 4, 1, 0; 2000 OV<sub>12</sub>, 5, 1, 0; 2000 OT<sub>12</sub>, 4, 1, 0; 2000 OX<sub>12</sub>, 5, 1, 0; 2000 OC<sub>13</sub>, 4, 1, 0; 2000 OH<sub>13</sub>, 11, 3, 87; 2000 OL<sub>13</sub>, 5, 1, 0; 2000 OR<sub>13</sub>, 18, 4, 108; 2000 OS<sub>13</sub>, 5, 1, 0; 2000 OT<sub>13</sub>, 4, 1, 0; 2000 OA<sub>14</sub>, 16, 4, 79; 2000 OE<sub>14</sub>, 14, 3, 79; 2000 OG<sub>14</sub>, 8, 2, 4; 2000 OK<sub>14</sub>, 8, 2, 12; 2000 OQ<sub>14</sub>, 4, 1, 0; 2000 OS<sub>14</sub>, 5, 1, 0; 2000 OT<sub>14</sub>, 13, 3, 12; 2000 OW<sub>14</sub>, 3, 1, 0; 2000 OX<sub>14</sub>, 9, 2, 8; 2000 OJ<sub>15</sub>, 3, 1, 0; 2000 ON<sub>15</sub>, 5, 1, 0; 2000 OP<sub>15</sub>, 4, 1, 0; 2000 OQ<sub>15</sub>, 9, 2, 4; 2000 OT<sub>15</sub>, 8, 2, 8; 2000 OX<sub>15</sub>, 4, 1, 0; 2000 OD<sub>16</sub>, 6, 2, 8; 2000 OE<sub>16</sub>, 5, 1, 0; 2000 OJ<sub>16</sub>, 5, 1, 0; 2000 OK<sub>16</sub>, 18, 4, 12; 2000 OM<sub>16</sub>, 3, 1, 0; 2000 ON<sub>16</sub>, 11, 3, 12; 2000 OT<sub>16</sub>, 8, 2, 2; 2000 OV<sub>16</sub>, 8, 2, 8; 2000 OX<sub>16</sub>, 10, 2, 4; 2000 OY<sub>16</sub>, 12, 3, 12; 2000 OG<sub>17</sub>, 6, 2, 8; 2000 OL<sub>17</sub>, 14, 3, 12; 2000 ON<sub>17</sub>, 5, 1, 0; 2000 OO<sub>17</sub>, 5, 1, 0; 2000 OQ<sub>17</sub>, 4, 1, 0; 2000 OW<sub>17</sub>, 15, 3, 12; 2000 OW<sub>17</sub>, 9, 2, 3; 2000 OZ<sub>17</sub>, 14, 3, 12; 2000 OC<sub>18</sub>, 5, 1, 0; 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2000 ON<sub>21</sub>, 14, 3, 12; 2000 OQ<sub>21</sub>, 4, 1, 0; 2000 OS<sub>21</sub>, 5, 1, 0; 2000 OT<sub>21</sub>, 8, 2, 2; 2000 OV<sub>21</sub>, 15, 3, 8; 2000 OA<sub>22</sub>, 41, 8, 12; 2000 OB<sub>22</sub>, 5, 1, 0; 2000 OD<sub>22</sub>, 10, 3, 12; 2000 OG<sub>22</sub>, 5, 1, 0; 2000 OH<sub>22</sub>, 12, 3, 11; 2000 OK<sub>22</sub>, 30, 6, 665; 2000 OL<sub>22</sub>, 10, 1, 0; 2000 OM<sub>22</sub>, 22, 4, 10; 2000 ON<sub>22</sub>, 12, 3, 8; 2000 OO<sub>22</sub>, 19, 4, 503; 2000 OP<sub>22</sub>, 13, 3, 31; 2000 OQ<sub>22</sub>, 5, 1, 0; 2000 OR<sub>22</sub>, 14, 3, 8; 2000 OS<sub>22</sub>, 23, 5, 25; 2000 OT<sub>22</sub>, 15, 3, 8; 2000 OZ<sub>22</sub>, 5, 1, 0; 2000 OK<sub>23</sub>, 4, 1, 0; 2000 OM<sub>23</sub>, 8, 2, 4; 2000 OO<sub>23</sub>, 8, 2, 4; 2000 OY<sub>23</sub>, 13, 3, 79; 2000 OH<sub>24</sub>, 19, 4, 87; 2000 OK<sub>24</sub>, 8, 2, 79; 2000 OM<sub>24</sub>, 9, 2, 4; 2000 ON<sub>24</sub>, 4, 1, 0; 2000 OO<sub>24</sub>, 8, 2, 79; 2000 OV<sub>24</sub>, 13, 3, 79; 2000 OW<sub>24</sub>, 4, 1, 0; 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18, 4, 33; 2000 OA<sub>37</sub>, 5, 1, 0; 2000 OF<sub>37</sub>, 10, 2, 2; 2000 OG<sub>37</sub>, 20, 4, 33; 2000 OH<sub>37</sub>, 15, 3, 12; 2000 OK<sub>37</sub>, 4, 1, 0; 2000 OL<sub>37</sub>, 20, 4, 12; 2000 OM<sub>37</sub>, 9, 2, 10; 2000 ON<sub>37</sub>, 15, 3, 12; 2000 OO<sub>37</sub>, 19, 5, 107; 2000 OP<sub>37</sub>, 14, 3, 12; 2000 OQ<sub>37</sub>, 10, 2, 10; 2000 OT<sub>37</sub>, 14, 3, 25; 2000 OU<sub>37</sub>, 14, 3, 12; 2000 OV<sub>37</sub>, 5, 1, 0; 2000 OW<sub>37</sub>, 13, 3, 12; 2000 OX<sub>37</sub>, 14, 3, 12; 2000 OY<sub>37</sub>, 8, 2, 10; 2000 OA<sub>38</sub>, 23, 5, 117; 2000 OB<sub>38</sub>, 10, 2, 10; 2000 OD<sub>38</sub>, 15, 3, 11; 2000 OE<sub>38</sub>, 11, 3, 25; 2000 OF<sub>38</sub>, 18, 4, 916; 2000 OK<sub>38</sub>, 15, 3, 10; 2000 OM<sub>38</sub>, 13, 3, 26; 2000 ON<sub>38</sub>, 16, 4, 33; 2000 OO<sub>38</sub>, 15, 3, 10; 2000 OP<sub>38</sub>, 14, 3, 12; 2000 OQ<sub>38</sub>, 18, 4, 33; 2000 OR<sub>38</sub>, 26, 6, 470; 2000 OS<sub>38</sub>, 13, 3, 11; 2000 OT<sub>38</sub>, 15, 3, 25; 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12, 3, 8; 2000 OW<sub>52</sub>, 24, 6, 446; 2000 OX<sub>52</sub>, 15, 3, 8; 2000 OY<sub>52</sub>, 20, 4, 27; 2000 OZ<sub>52</sub>, 15, 3, 8; 2000 OB<sub>53</sub>, 5, 1, 0; 2000 OF<sub>53</sub>, 15, 3, 10; 2000 OG<sub>53</sub>, 25, 5, 33; 2000 OH<sub>53</sub>, 25, 4, 10; 2000 OJ<sub>53</sub>, 20, 4, 32; 2000 OK<sub>53</sub>, 15, 3, 10; 2000 OL<sub>53</sub>, 19, 4, 27; 2000 OM<sub>53</sub>, 14, 3, 10; 2000 ON<sub>53</sub>, 20, 4, 33; 2000 OO<sub>53</sub>, 20, 4, 33; 2000 OP<sub>53</sub>, 24, 5, 88; 2000 OQ<sub>53</sub>, 16, 4, 28; 2000 OR<sub>53</sub>, 18, 4, 28; 2000 OS<sub>53</sub>, 19, 4, 15; 2000 OT<sub>53</sub>, 15, 3, 12; 2000 OV<sub>53</sub>, 20, 4, 32; 2000 OW<sub>53</sub>, 12, 3, 10; 2000 OX<sub>54</sub>, 8, 2, 48; 2000 OO<sub>54</sub>, 14, 3, 75; 2000 OZ<sub>54</sub>, 9, 2, 50; 2000 OA<sub>56</sub>, 4, 1, 0; 2000 OG<sub>56</sub>, 12, 3, 11; 2000 OJ<sub>56</sub>, 4, 1, 0; 2000 OV<sub>56</sub>, 4, 1, 0; 2000 OW<sub>56</sub>, 5, 1, 0; 2000 OZ<sub>57</sub>, 4, 1, 0; 2000 OL<sub>58</sub>, 9, 2, 3; 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18, 4, 28; 2000 PY<sub>25</sub>, 35, 8, 477; 2000 PZ<sub>25</sub>, 17, 4, 10; 2000 PA<sub>26</sub>, 18, 4, 13; 2000 PC<sub>26</sub>, 15, 4, 28; 2000 PH<sub>26</sub>, 5, 1, 0; 2000 PJ<sub>26</sub>, 17, 4, 12; 2000 PK<sub>26</sub>, 13, 3, 10; 2000 PM<sub>26</sub>, 19, 4, 28; 2000 PN<sub>26</sub>, 5, 1, 0; 2000 PO<sub>26</sub>, 19, 4, 1038; 2000 PP<sub>26</sub>, 18, 3, 12; 2000 PQ<sub>26</sub>, 32, 7, 477; 2000 PS<sub>26</sub>, 18, 4, 10; 2000 PT<sub>26</sub>, 13, 3, 10; 2000 PU<sub>26</sub>, 24, 5, 865; 2000 PV<sub>26</sub>, 15, 3, 28; 2000 PW<sub>26</sub>, 33, 7, 448; 2000 PY<sub>26</sub>, 25, 4, 10; 2000 PZ<sub>26</sub>, 14, 3, 10; 2000 PA<sub>27</sub>, 18, 4, 8; 2000 PB<sub>27</sub>, 14, 3, 10; 2000 PC<sub>27</sub>, 19, 4, 10; 2000 PD<sub>27</sub>, 13, 3, 9; 2000 PE<sub>27</sub>, 19, 4, 8; 2000 PG<sub>27</sub>, 10, 2, 8; 2000 PO<sub>27</sub>, 5, 1, 0; 2000 PP<sub>27</sub>, 3, 1, 0; 2000 PQ<sub>27</sub>, 27, 4, 11; 2000 PR<sub>27</sub>, 5, 1, 0; 2000 PS<sub>27</sub>, 10, 2, 8; 2000 PT<sub>27</sub>, 10, 2, 19; 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2000 QL<sub>7</sub>, 39, 8, 14; 2000 QM<sub>7</sub>, 21, 5, 15; 2000 QN<sub>7</sub>, 18, 4, 10; 2000 QO<sub>7</sub>, 14, 2, 8; 2000 QP<sub>7</sub>, 3, 1, 0; 2000 QR<sub>7</sub>, 12, 3, 898; 2000 QT<sub>7</sub>, 4, 1, 0; 2000 QU<sub>7</sub>, 5, 1, 0; 2000 QW<sub>7</sub>, 3, 1, 0; 2000 QX<sub>7</sub>, 14, 3, 10; 2000 QY<sub>7</sub>, 19, 4, 88; 2000 QA<sub>8</sub>, 12, 3, 8; 2000 QB<sub>8</sub>, 13, 3, 61; 2000 QC<sub>8</sub>, 18, 4, 8; 2000 QD<sub>8</sub>, 20, 4, 8; 2000 QE<sub>8</sub>, 18, 4, 8; 2000 QF<sub>8</sub>, 19, 4, 8; 2000 QJ<sub>8</sub>, 23, 5, 10; 2000 QK<sub>8</sub>, 25, 3, 10; 2000 QL<sub>8</sub>, 23, 5, 88; 2000 QM<sub>8</sub>, 19, 4, 61; 2000 QN<sub>8</sub>, 10, 2, 8; 2000 QO<sub>8</sub>, 14, 3, 8; 2000 QP<sub>8</sub>, 14, 3, 11; 2000 QR<sub>8</sub>, 15, 3, 11; 2000 QS<sub>8</sub>, 15, 3, 11; 2000 QT<sub>8</sub>, 13, 3, 11; 2000 QU<sub>8</sub>, 15, 2, 8; 2000 QV<sub>8</sub>, 9, 2, 2; 2000 QW<sub>8</sub>, 19, 4, 8; 2000 QX<sub>8</sub>, 19, 3, 11; 2000 QA<sub>9</sub>, 15, 3, 11; 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0; 2000 QF<sub>18</sub>, 4, 1, 0; 2000 QG<sub>18</sub>, 8, 2, 3; 2000 QJ<sub>18</sub>, 4, 1, 0; 2000 QK<sub>18</sub>, 15, 3, 11; 2000 QL<sub>18</sub>, 4, 1, 0; 2000 QM<sub>18</sub>, 9, 2, 3; 2000 QO<sub>18</sub>, 10, 2, 3; 2000 QP<sub>18</sub>, 9, 2, 3; 2000 QR<sub>18</sub>, 4, 1, 0; 2000 QW<sub>18</sub>, 13, 3, 11; 2000 QX<sub>18</sub>, 9, 2, 3; 2000 QY<sub>18</sub>, 3, 1, 0; 2000 QB<sub>19</sub>, 15, 3, 11; 2000 QC<sub>19</sub>, 5, 1, 0; 2000 QD<sub>19</sub>, 19, 4, 539; 2000 QE<sub>19</sub>, 8, 2, 3; 2000 QF<sub>19</sub>, 4, 1, 0; 2000 QH<sub>19</sub>, 3, 1, 0; 2000 QI<sub>19</sub>, 3, 1, 0; 2000 QO<sub>19</sub>, 4, 1, 0; 2000 QP<sub>19</sub>, 15, 3, 11; 2000 QQ<sub>19</sub>, 10, 2, 3; 2000 QR<sub>19</sub>, 14, 3, 11; 2000 QS<sub>19</sub>, 4, 1, 0; 2000 QW<sub>19</sub>, 4, 1, 0; 2000 QY<sub>19</sub>, 7, 2, 7; 2000 QZ<sub>19</sub>, 8, 2, 8; 2000 QB<sub>20</sub>, 4, 1, 0; 2000 QC<sub>20</sub>, 10, 2, 8; 2000 QD<sub>20</sub>, 5, 1, 0; 2000 QE<sub>20</sub>, 14, 3, 8; 2000 QF<sub>20</sub>, 20, 4, 8; 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2000 QT<sub>25</sub>, 17, 4, 76; 2000 QU<sub>25</sub>, 28, 6, 599; 2000 QV<sub>25</sub>, 5, 1, 0; 2000 QW<sub>25</sub>, 5, 1, 0; 2000 QX<sub>25</sub>, 13, 3, 42; 2000 QY<sub>25</sub>, 12, 3, 5; 2000 QA<sub>26</sub>, 14, 3, 11; 2000 QC<sub>26</sub>, 13, 3, 11; 2000 QD<sub>26</sub>, 4, 1, 0; 2000 QG<sub>26</sub>, 20, 4, 8; 2000 QH<sub>26</sub>, 3, 1, 0; 2000 QJ<sub>26</sub>, 17, 4, 8; 2000 QK<sub>26</sub>, 5, 1, 0; 2000 QM<sub>26</sub>, 8, 2, 3; 2000 QN<sub>26</sub>, 17, 4, 11; 2000 QO<sub>26</sub>, 24, 5, 9; 2000 QQ<sub>26</sub>, 15, 3, 3; 2000 QR<sub>26</sub>, 22, 5, 10; 2000 QS<sub>26</sub>, 15, 3, 11; 2000 QT<sub>26</sub>, 9, 2, 2; 2000 QX<sub>26</sub>, 4, 1, 0; 2000 QY<sub>26</sub>, 13, 3, 11; 2000 QZ<sub>26</sub>, 3, 1, 0; 2000 QP<sub>27</sub>, 4, 1, 0; 2000 QC<sub>27</sub>, 9, 2, 3; 2000 QE<sub>27</sub>, 15, 2, 3; 2000 QF<sub>27</sub>, 11, 3, 11; 2000 QG<sub>27</sub>, 10, 2, 8; 2000 QH<sub>27</sub>, 10, 2, 8; 2000 QJ<sub>27</sub>, 10, 2, 8; 2000 QK<sub>27</sub>, 15, 2, 8; 2000 QL<sub>27</sub>, 19, 4, 8; 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9, 2, 26; 2000 QZ<sub>35</sub>, 5, 1, 0; 2000 QA<sub>36</sub>, 3, 1, 0; 2000 QB<sub>36</sub>, 13, 3, 11; 2000 QF<sub>36</sub>, 4, 1, 0; 2000 QG<sub>36</sub>, 5, 1, 0; 2000 QJ<sub>36</sub>, 4, 1, 0; 2000 QK<sub>36</sub>, 5, 1, 0; 2000 QL<sub>36</sub>, 5, 1, 0; 2000 QP<sub>36</sub>, 5, 1, 0; 2000 QR<sub>36</sub>, 5, 1, 0; 2000 QW<sub>36</sub>, 14, 3, 996; 2000 QX<sub>36</sub>, 4, 1, 0; 2000 QA<sub>37</sub>, 9, 2, 3; 2000 QD<sub>37</sub>, 5, 1, 0; 2000 QE<sub>37</sub>, 10, 2, 3; 2000 QG<sub>37</sub>, 9, 2, 11; 2000 QH<sub>37</sub>, 4, 1, 0; 2000 QO<sub>37</sub>, 4, 1, 0; 2000 QP<sub>37</sub>, 4, 1, 0; 2000 QR<sub>37</sub>, 10, 2, 3; 2000 QS<sub>37</sub>, 4, 1, 0; 2000 QU<sub>37</sub>, 10, 2, 3; 2000 QW<sub>37</sub>, 7, 2, 3; 2000 QY<sub>37</sub>, 5, 1, 0; 2000 QE<sub>38</sub>, 5, 1, 0; 2000 QF<sub>38</sub>, 4, 1, 0; 2000 QJ<sub>38</sub>, 4, 1, 0; 2000 QK<sub>38</sub>, 10, 2, 3; 2000 QM<sub>38</sub>, 5, 1, 0; 2000 QP<sub>38</sub>, 8, 2, 3; 2000 QU<sub>38</sub>, 8, 2, 8; 2000 QZ<sub>38</sub>, 29, 5, 53; 2000 QC<sub>39</sub>, 5, 1, 0; 2000 QD<sub>39</sub>, 8, 2, 56; 2000 QE<sub>39</sub>, 7, 2, 50; 2000 QG<sub>39</sub>, 9, 2, 3; 2000 QH<sub>39</sub>, 9, 2, 3; 2000 QJ<sub>39</sub>, 9, 2, 3; 2000 QK<sub>39</sub>, 7, 2, 3; 2000 QL<sub>39</sub>, 9, 2, 3; 2000 QO<sub>39</sub>, 5, 1, 0; 2000 QP<sub>39</sub>, 9, 2, 3; 2000 QQ<sub>39</sub>, 10, 2, 3; 2000 QS<sub>39</sub>, 3, 1, 0; 2000 QU<sub>39</sub>, 5, 1, 0; 2000 QV<sub>39</sub>, 3, 1, 0; 2000 QX<sub>39</sub>, 3, 1, 0; 2000 QY<sub>39</sub>, 7, 2, 3; 2000 QA<sub>40</sub>, 10, 2, 3; 2000 QB<sub>40</sub>, 9, 2, 3; 2000 QD<sub>40</sub>, 4, 1, 0; 2000 QK<sub>40</sub>, 15, 3, 11; 2000 QQ<sub>40</sub>, 5, 1, 0; 2000 QS<sub>40</sub>, 4, 1, 0; 2000 QU<sub>40</sub>, 8, 2, 3; 2000 QW<sub>40</sub>, 9, 2, 3; 2000 QZ<sub>40</sub>, 4, 1, 0; 2000 QD<sub>41</sub>, 4, 1, 0; 2000 QG<sub>41</sub>, 4, 1, 0; 2000 QM<sub>41</sub>, 3, 1, 0; 2000 QN<sub>41</sub>, 4, 1, 0; 2000 QO<sub>41</sub>, 3, 1, 0; 2000 QS<sub>41</sub>, 8, 2, 3; 2000 QW<sub>41</sub>, 4, 1, 0; 2000 QA<sub>42</sub>, 15, 3, 11; 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15, 3, 61; 2000 QC<sub>61</sub>, 4, 1, 0; 2000 QD<sub>61</sub>, 7, 2, 7; 2000 QF<sub>61</sub>, 10, 2, 3; 2000 QG<sub>61</sub>, 10, 2, 8; 2000 QH<sub>61</sub>, 22, 5, 87; 2000 QJ<sub>61</sub>, 8, 2, 8; 2000 QK<sub>61</sub>, 10, 2, 8; 2000 QL<sub>61</sub>, 10, 1, 0; 2000 QM<sub>61</sub>, 5, 1, 0; 2000 QN<sub>61</sub>, 12, 3, 8; 2000 QP<sub>61</sub>, 15, 3, 8; 2000 QQ<sub>61</sub>, 19, 4, 8; 2000 QT<sub>61</sub>, 10, 2, 8; 2000 QU<sub>61</sub>, 9, 2, 60; 2000 QV<sub>61</sub>, 10, 2, 8; 2000 QW<sub>61</sub>, 10, 2, 8; 2000 QX<sub>61</sub>, 9, 2, 8; 2000 QO<sub>62</sub>, 10, 2, 8; 2000 QR<sub>62</sub>, 8, 2, 8; 2000 QS<sub>62</sub>, 11, 3, 11; 2000 QT<sub>62</sub>, 8, 2, 8; 2000 QC<sub>63</sub>, 5, 1, 0; 2000 QD<sub>63</sub>, 10, 2, 52; 2000 QS<sub>63</sub>, 10, 2, 8; 2000 QT<sub>63</sub>, 10, 2, 8; 2000 QU<sub>63</sub>, 10, 2, 8; 2000 QV<sub>63</sub>, 3, 1, 0; 2000 QW<sub>63</sub>, 13, 3, 11; 2000 QX<sub>63</sub>, 4, 1, 0; 2000 QA<sub>64</sub>, 5, 1, 0; 2000 QG<sub>64</sub>, 10, 2, 2; 2000 QH<sub>64</sub>, 5, 1, 0; 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4, 1, 0; 2000 QX<sub>80</sub>, 14, 3, 11; 2000 QZ<sub>80</sub>, 15, 3, 11; 2000 QA<sub>81</sub>, 9, 2, 8; 2000 QC<sub>81</sub>, 4, 1, 0; 2000 QD<sub>81</sub>, 8, 2, 8; 2000 QJ<sub>81</sub>, 5, 1, 0; 2000 QL<sub>81</sub>, 5, 1, 0; 2000 QM<sub>81</sub>, 3, 1, 0; 2000 QN<sub>81</sub>, 4, 1, 0; 2000 QO<sub>81</sub>, 14, 3, 8; 2000 QP<sub>81</sub>, 9, 2, 8; 2000 QQ<sub>81</sub>, 4, 1, 0; 2000 QS<sub>81</sub>, 5, 1, 0; 2000 QT<sub>81</sub>, 11, 3, 7; 2000 QU<sub>81</sub>, 9, 2, 8; 2000 QV<sub>81</sub>, 12, 3, 8; 2000 QW<sub>81</sub>, 3, 1, 0; 2000 QX<sub>81</sub>, 5, 1, 0; 2000 QY<sub>81</sub>, 8, 2, 8; 2000 QZ<sub>81</sub>, 19, 4, 8; 2000 QA<sub>82</sub>, 10, 2, 8; 2000 QC<sub>82</sub>, 15, 3, 8; 2000 QD<sub>82</sub>, 14, 3, 8; 2000 QE<sub>82</sub>, 17, 4, 8; 2000 QF<sub>82</sub>, 14, 3, 8; 2000 QG<sub>82</sub>, 25, 4, 8; 2000 QH<sub>82</sub>, 5, 1, 0; 2000 QM<sub>82</sub>, 6, 2, 7; 2000 QN<sub>82</sub>, 10, 2, 8; 2000 QO<sub>82</sub>, 15, 3, 8; 2000 QP<sub>82</sub>, 8, 2, 8; 2000 QQ<sub>82</sub>, 4, 1, 0; 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8; 2000 QU<sub>114</sub>, 5, 1, 0; 2000 QV<sub>114</sub>, 53, 9, 504; 2000 QW<sub>114</sub>, 25, 3, 8; 2000 QX<sub>114</sub>, 35, 6, 30; 2000 QA<sub>115</sub>, 14, 3, 8; 2000 QB<sub>115</sub>, 15, 3, 8; 2000 QC<sub>115</sub>, 19, 3, 8; 2000 QF<sub>115</sub>, 3, 1, 0; 2000 QG<sub>115</sub>, 5, 1, 0; 2000 QH<sub>115</sub>, 3, 1, 0; 2000 QJ<sub>115</sub>, 4, 1, 0; 2000 QL<sub>115</sub>, 15, 3, 10; 2000 QM<sub>115</sub>, 10, 2, 2; 2000 QN<sub>115</sub>, 24, 5, 29; 2000 QO<sub>115</sub>, 15, 3, 8; 2000 QP<sub>115</sub>, 24, 5, 62; 2000 QQ<sub>115</sub>, 26, 5, 10; 2000 QR<sub>115</sub>, 20, 4, 894; 2000 QS<sub>115</sub>, 13, 3, 8; 2000 QT<sub>115</sub>, 14, 3, 10; 2000 QV<sub>115</sub>, 14, 3, 8; 2000 QY<sub>115</sub>, 10, 2, 4; 2000 QZ<sub>115</sub>, 16, 4, 27; 2000 QA<sub>116</sub>, 35, 5, 9; 2000 QD<sub>116</sub>, 18, 4, 475; 2000 QE<sub>116</sub>, 10, 2, 8; 2000 QG<sub>116</sub>, 20, 3, 9; 2000 QH<sub>116</sub>, 18, 4, 444; 2000 QJ<sub>116</sub>, 10, 2, 8; 2000 QK<sub>116</sub>, 10, 2, 8; 2000 QL<sub>116</sub>, 17, 4, 61; 2000 QM<sub>116</sub>, 19, 3, 8; 2000 QN<sub>116</sub>, 25, 4, 27; 2000 QO<sub>116</sub>, 10, 2, 8; 2000 QP<sub>116</sub>, 15, 3, 8; 2000 QQ<sub>116</sub>, 7, 2, 10; 2000 QR<sub>116</sub>, 17, 4, 61; 2000 QS<sub>116</sub>, 15, 3, 8; 2000 QT<sub>116</sub>, 17, 4, 444; 2000 QU<sub>116</sub>, 16, 4, 65; 2000 QX<sub>116</sub>, 15, 3, 60; 2000 QY<sub>116</sub>, 10, 2, 6; 2000 QZ<sub>116</sub>, 5, 1, 0; 2000 QB<sub>117</sub>, 12, 2, 8; 2000 QD<sub>117</sub>, 10, 2, 8; 2000 QF<sub>117</sub>, 18, 4, 10; 2000 QG<sub>117</sub>, 15, 3, 8; 2000 QJ<sub>117</sub>, 13, 3, 4; 2000 QK<sub>117</sub>, 20, 3, 4; 2000 QL<sub>117</sub>, 9, 2, 1; 2000 QO<sub>117</sub>, 29, 6, 628; 2000 QP<sub>117</sub>, 9, 2, 49; 2000 QQ<sub>117</sub>, 7, 2, 3; 2000 QR<sub>117</sub>, 4, 1, 0; 2000 QS<sub>117</sub>, 25, 5, 10; 2000 QT<sub>117</sub>, 18, 3, 11; 2000 QV<sub>117</sub>, 10, 2, 8; 2000 QX<sub>117</sub>, 14, 3, 10; 2000 QY<sub>117</sub>, 18, 4, 65; 2000 QZ<sub>117</sub>, 14, 3, 10; 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2000 QV<sub>120</sub>, 14, 3, 10; 2000 QW<sub>120</sub>, 20, 4, 10; 2000 QX<sub>120</sub>, 25, 5, 10; 2000 QY<sub>120</sub>, 29, 5, 10; 2000 QZ<sub>120</sub>, 25, 4, 10; 2000 QA<sub>121</sub>, 23, 5, 30; 2000 QB<sub>121</sub>, 15, 3, 10; 2000 QC<sub>121</sub>, 19, 4, 10; 2000 QD<sub>121</sub>, 13, 3, 10; 2000 QE<sub>121</sub>, 14, 3, 10; 2000 QF<sub>121</sub>, 25, 5, 10; 2000 QG<sub>121</sub>, 29, 5, 10; 2000 QH<sub>121</sub>, 19, 4, 10; 2000 QJ<sub>121</sub>, 28, 5, 10; 2000 QK<sub>121</sub>, 15, 2, 10; 2000 QL<sub>121</sub>, 35, 4, 8; 2000 QM<sub>121</sub>, 24, 5, 9; 2000 QN<sub>121</sub>, 25, 5, 10; 2000 QO<sub>121</sub>, 33, 6, 11; 2000 QP<sub>121</sub>, 22, 4, 65; 2000 QQ<sub>121</sub>, 29, 5, 9; 2000 QR<sub>121</sub>, 22, 4, 4; 2000 QS<sub>121</sub>, 19, 4, 8; 2000 QT<sub>121</sub>, 15, 3, 10; 2000 QV<sub>121</sub>, 30, 5, 10; 2000 QW<sub>121</sub>, 19, 3, 504; 2000 QX<sub>121</sub>, 35, 5, 10; 2000 QY<sub>121</sub>, 27, 6, 33; 2000 QZ<sub>121</sub>, 18, 3, 7; 2000 QA<sub>122</sub>, 28, 5, 14; 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2000 QK<sub>123</sub>, 20, 4, 13; 2000 QL<sub>123</sub>, 32, 5, 65; 2000 QM<sub>123</sub>, 24, 5, 9; 2000 QN<sub>123</sub>, 12, 3, 10; 2000 QO<sub>123</sub>, 20, 4, 8; 2000 QP<sub>123</sub>, 24, 4, 9; 2000 QR<sub>123</sub>, 14, 3, 10; 2000 QS<sub>123</sub>, 19, 3, 9; 2000 QT<sub>123</sub>, 48, 8, 472; 2000 QV<sub>123</sub>, 31, 6, 10; 2000 QW<sub>123</sub>, 43, 9, 587; 2000 QX<sub>123</sub>, 15, 3, 8; 2000 QY<sub>123</sub>, 12, 3, 10; 2000 QB<sub>124</sub>, 58, 10, 65; 2000 QC<sub>124</sub>, 21, 3, 8; 2000 QD<sub>124</sub>, 30, 5, 10; 2000 QE<sub>124</sub>, 28, 6, 447; 2000 QF<sub>124</sub>, 23, 5, 9; 2000 QG<sub>124</sub>, 15, 3, 53; 2000 QH<sub>124</sub>, 20, 3, 8; 2000 QJ<sub>124</sub>, 8, 2, 9; 2000 QK<sub>124</sub>, 22, 5, 30; 2000 QL<sub>124</sub>, 29, 6, 451; 2000 QM<sub>124</sub>, 4, 1, 0; 2000 QN<sub>124</sub>, 8, 2, 3; 2000 QO<sub>124</sub>, 17, 4, 1031; 2000 QR<sub>124</sub>, 3, 1, 0; 2000 QS<sub>124</sub>, 12, 3, 439; 2000 QT<sub>124</sub>, 5, 1, 0; 2000 QV<sub>124</sub>, 8, 2, 50; 2000 QW<sub>124</sub>, 3, 1, 0; 2000 QX<sub>124</sub>, 3, 1, 0; 2000 QY<sub>124</sub>, 3, 1, 0; 2000 QZ<sub>124</sub>, 17, 3, 79; 2000 QA<sub>125</sub>, 3, 1, 0; 2000 QB<sub>125</sub>, 4, 1, 0; 2000 QC<sub>125</sub>, 9, 2, 52; 2000 QD<sub>125</sub>, 22, 4, 15; 2000 QE<sub>125</sub>, 32, 6, 588; 2000 QF<sub>125</sub>, 5, 1, 0; 2000 QG<sub>125</sub>, 17, 4, 10; 2000 QH<sub>125</sub>, 17, 4, 10; 2000 QJ<sub>125</sub>, 8, 2, 7; 2000 QK<sub>125</sub>, 13, 3, 10; 2000 QL<sub>125</sub>, 18, 3, 3; 2000 QM<sub>125</sub>, 14, 3, 10; 2000 QN<sub>125</sub>, 14, 3, 10; 2000 QO<sub>125</sub>, 13, 3, 10; 2000 QP<sub>125</sub>, 22, 4, 10; 2000 QQ<sub>125</sub>, 14, 3, 3; 2000 QR<sub>125</sub>, 25, 4, 10; 2000 QS<sub>125</sub>, 14, 3, 10; 2000 QT<sub>125</sub>, 15, 3, 10; 2000 QU<sub>125</sub>, 20, 4, 61; 2000 QV<sub>125</sub>, 12, 3, 8; 2000 QW<sub>125</sub>, 3, 1, 0; 2000 QX<sub>125</sub>, 5, 1, 0; 2000 QY<sub>125</sub>, 15, 3, 8; 2000 QZ<sub>125</sub>, 14, 3, 7, 65; 2000 QA<sub>126</sub>, 22, 4, 8; 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2000 QS<sub>127</sub>, 20, 4, 8; 2000 QT<sub>127</sub>, 17, 4, 8; 2000 QV<sub>127</sub>, 5, 1, 0; 2000 QX<sub>127</sub>, 15, 3, 8; 2000 QY<sub>127</sub>, 9, 2, 4; 2000 QZ<sub>127</sub>, 12, 3, 8; 2000 QB<sub>128</sub>, 14, 3, 8; 2000 QD<sub>128</sub>, 11, 3, 8;

2000 QE<sub>128</sub>, 7, 2, 2; 2000 QG<sub>128</sub>, 8, 2, 8; 2000 QH<sub>128</sub>, 19, 4, 8; 2000 QJ<sub>128</sub>, 9, 2, 8; 2000 QL<sub>128</sub>, 7, 2, 55; 2000 QM<sub>128</sub>, 5, 1, 0; 2000 QN<sub>128</sub>, 19, 4, 65; 2000 QP<sub>128</sub>, 30, 6, 30; 2000 QQ<sub>128</sub>, 15, 3, 10; 2000 QR<sub>128</sub>, 15, 3, 9; 2000 QS<sub>128</sub>, 15, 3, 9; 2000 QT<sub>128</sub>, 34, 6, 11; 2000 QU<sub>128</sub>, 19, 4, 8; 2000 QV<sub>128</sub>, 40, 5, 10; 2000 QW<sub>128</sub>, 18, 4, 13; 2000 QX<sub>128</sub>, 25, 6, 33; 2000 QY<sub>128</sub>, 19, 4, 10; 2000 QZ<sub>128</sub>, 19, 4, 8; 2000 QA<sub>129</sub>, 19, 4, 8; 2000 QB<sub>129</sub>, 29, 5, 9; 2000 QC<sub>129</sub>, 30, 4, 9; 2000 QD<sub>129</sub>, 19, 4, 863; 2000 QH<sub>129</sub>, 14, 3, 8; 2000 QJ<sub>129</sub>, 5, 1, 0; 2000 QK<sub>129</sub>, 8, 2, 8; 2000 QM<sub>129</sub>, 20, 4, 8; 2000 QN<sub>129</sub>, 13, 3, 8; 2000 QO<sub>129</sub>, 20, 4, 8; 2000 QP<sub>129</sub>, 5, 1, 0; 2000 QQ<sub>129</sub>, 15, 3, 8; 2000 QR<sub>129</sub>, 13, 3, 8; 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2000 QA<sub>132</sub>, 18, 2, 49; 2000 QB<sub>132</sub>, 13, 3, 8; 2000 QC<sub>132</sub>, 5, 1, 0; 2000 QE<sub>132</sub>, 9, 2, 4; 2000 QF<sub>132</sub>, 9, 2, 4; 2000 QK<sub>132</sub>, 20, 4, 54; 2000 QM<sub>132</sub>, 9, 2, 87; 2000 QN<sub>132</sub>, 4, 1, 0; 2000 QO<sub>132</sub>, 3, 1, 0; 2000 QP<sub>132</sub>, 9, 2, 4; 2000 QS<sub>132</sub>, 14, 3, 12; 2000 QV<sub>132</sub>, 9, 2, 49; 2000 QZ<sub>132</sub>, 10, 2, 4; 2000 QD<sub>133</sub>, 5, 1, 0; 2000 QE<sub>133</sub>, 5, 1, 0; 2000 QM<sub>133</sub>, 10, 2, 4; 2000 QN<sub>133</sub>, 5, 1, 0; 2000 QV<sub>133</sub>, 8, 2, 4; 2000 QR<sub>133</sub>, 5, 1, 0; 2000 QS<sub>133</sub>, 5, 1, 0; 2000 QT<sub>133</sub>, 9, 2, 3; 2000 QV<sub>133</sub>, 10, 2, 4; 2000 QZ<sub>133</sub>, 5, 1, 0; 2000 QA<sub>134</sub>, 3, 1, 0; 2000 QB<sub>134</sub>, 5, 1, 0; 2000 QC<sub>134</sub>, 8, 2, 2, 4; 2000 QG<sub>134</sub>, 4, 1, 0; 2000 QJ<sub>134</sub>, 15, 3, 54; 2000 QK<sub>134</sub>, 3, 1, 0; 2000 QL<sub>134</sub>, 9, 2, 3; 2000 QN<sub>134</sub>, 8, 2, 4; 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2000 QF<sub>195</sub>, 14, 3, 54; 2000 QM<sub>195</sub>, 10, 2, 8; 2000 QN<sub>195</sub>, 3, 1, 0; 2000 QO<sub>195</sub>, 10, 2, 8; 2000 QP<sub>195</sub>, 12, 3, 8; 2000 QR<sub>195</sub>, 25, 5, 63; 2000 QS<sub>195</sub>, 4, 1, 0; 2000 QU<sub>195</sub>, 14, 3, 8; 2000 QW<sub>195</sub>, 9, 2, 8; 2000 QX<sub>195</sub>, 10, 2, 8; 2000 QY<sub>195</sub>, 10, 2, 8; 2000 QZ<sub>195</sub>, 5, 1, 0; 2000 QA<sub>196</sub>, 9, 2, 8; 2000 QB<sub>196</sub>, 9, 2, 8; 2000 QD<sub>196</sub>, 8, 2, 8; 2000 QF<sub>196</sub>, 5, 1, 0; 2000 QJ<sub>196</sub>, 3, 1, 0; 2000 QL<sub>196</sub>, 8, 2, 31; 2000 QM<sub>196</sub>, 8, 2, 53; 2000 QR<sub>196</sub>, 7, 2, 3; 2000 QS<sub>196</sub>, 5, 1, 0; 2000 QV<sub>196</sub>, 12, 3, 31; 2000 QW<sub>196</sub>, 9, 2, 3; 2000 QX<sub>196</sub>, 7, 2, 3; 2000 QY<sub>196</sub>, 10, 2, 3, 18; 2000 QA<sub>197</sub>, 25, 5, 61; 2000 QQ<sub>197</sub>, 5, 1, 0; 2000 QU<sub>197</sub>, 3, 1, 0; 2000 QV<sub>197</sub>, 4, 1, 0; 2000 QW<sub>197</sub>, 3, 1, 0; 2000 QY<sub>197</sub>, 14, 3, 11; 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2000 RX<sub>63</sub>, 17, 4, 28; 2000 RY<sub>63</sub>, 15, 3, 8; 2000 RZ<sub>63</sub>, 13, 3, 10; 2000 RA<sub>64</sub>, 17, 4, 28; 2000 RB<sub>64</sub>, 26, 6, 65; 2000 RC<sub>64</sub>, 19, 4, 27; 2000 RD<sub>64</sub>, 15, 3, 27; 2000 RG<sub>64</sub>, 13, 3, 54; 2000 RJ<sub>64</sub>, 8, 8, 2, 16; 2000 RK<sub>64</sub>, 21, 5, 27; 2000 RL<sub>64</sub>, 3, 1, 0; 2000 RM<sub>64</sub>, 23, 5, 65; 2000 RN<sub>64</sub>, 20, 4, 8; 2000 RO<sub>64</sub>, 19, 4, 8; 2000 RP<sub>64</sub>, 13, 3, 18; 2000 RQ<sub>64</sub>, 20, 4, 27; 2000 RS<sub>64</sub>, 22, 5, 65; 2000 RS<sub>64</sub>, 10, 2, 10; 2000 RT<sub>64</sub>, 4, 1, 0; 2000 RV<sub>64</sub>, 12, 3, 10; 2000 RW<sub>64</sub>, 13, 3, 10; 2000 RX<sub>64</sub>, 19, 4, 8; 2000 RY<sub>64</sub>, 30, 7, 927; 2000 RZ<sub>64</sub>, 24, 5, 12; 2000 RB<sub>65</sub>, 17, 4, 27; 2000 RC<sub>65</sub>, 20, 4, 27; 2000 RD<sub>65</sub>, 15, 3, 8; 2000 RE<sub>65</sub>, 9, 2, 8; 2000 RF<sub>65</sub>, 10, 2, 6; 2000 RG<sub>65</sub>, 14, 3, 63; 2000 RH<sub>65</sub>, 18, 4, 9; 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2000 RA<sub>67</sub>, 15, 3, 8; 2000 RB<sub>67</sub>, 20, 4, 8; 2000 RD<sub>67</sub>, 17, 4, 8; 2000 RE<sub>67</sub>, 19, 4, 8; 2000 RF<sub>67</sub>, 15, 3, 8; 2000 RH<sub>67</sub>, 10, 2, 6; 2000 RJ<sub>67</sub>, 5, 0; 2000 RJ<sub>67</sub>, 7, 2, 4; 2000 RK<sub>67</sub>, 7, 2, 4; 2000 RL<sub>67</sub>, 15, 3, 8; 2000 RM<sub>67</sub>, 5, 1, 0; 2000 RO<sub>67</sub>, 9, 2, 23; 2000 RQ<sub>67</sub>, 7, 2, 2; 2000 RS<sub>67</sub>, 12, 3, 26; 2000 RT<sub>67</sub>, 28, 5, 10; 2000 RU<sub>67</sub>, 14, 3, 8; 2000 RV<sub>67</sub>, 4, 1, 0; 2000 RW<sub>67</sub>, 14, 3, 8; 2000 RZ<sub>67</sub>, 17, 3, 12; 2000 RA<sub>68</sub>, 8, 2, 49; 2000 RB<sub>68</sub>, 23, 5, 71; 2000 RC<sub>68</sub>, 10, 3, 53; 2000 RD<sub>68</sub>, 13, 3, 63; 2000 RE<sub>68</sub>, 9, 2, 12; 2000 RF<sub>68</sub>, 15, 3, 54; 2000 RG<sub>68</sub>, 13, 3, 9; 2000 RH<sub>68</sub>, 13, 3, 8; 2000 RI<sub>68</sub>, 24, 5, 918; 2000 RJ<sub>68</sub>, 37, 7, 510; 2000 RK<sub>68</sub>, 17, 4, 894; 2000 RL<sub>68</sub>, 26, 5, 10; 2000 RM<sub>68</sub>, 20, 4, 8; 2000 RN<sub>68</sub>, 25, 5, 507; 2000 RO<sub>68</sub>, 15, 3, 8; 2000 RP<sub>68</sub>, 24, 5, 475; 2000 RQ<sub>68</sub>, 14, 3, 8; 2000 RS<sub>68</sub>, 14, 3, 8; 2000 RT<sub>68</sub>, 15, 3, 8; 2000 RV<sub>68</sub>, 14, 3, 8; 2000 RW<sub>68</sub>, 15, 3, 8; 2000 RA<sub>69</sub>, 25, 5, 9; 2000 RB<sub>69</sub>, 33, 6, 10; 2000 RC<sub>69</sub>, 19, 4, 53; 2000 RD<sub>69</sub>, 20, 4, 8; 2000 RE<sub>69</sub>, 24, 5, 32; 2000 RF<sub>69</sub>, 78, 8, 13; 2000 RG<sub>69</sub>, 57, 7, 12; 2000 RH<sub>69</sub>, 15, 3, 8; 2000 RJ<sub>69</sub>, 14, 3, 8; 2000 RK<sub>69</sub>, 13, 3, 8; 2000 RL<sub>69</sub>, 12, 3, 911; 2000 RM<sub>69</sub>, 15, 3, 8; 2000 RN<sub>69</sub>, 14, 3, 8; 2000 RO<sub>69</sub>, 15, 3, 8; 2000 RQ<sub>69</sub>, 19, 4, 8; 2000 RS<sub>69</sub>, 10, 2, 8; 2000 RT<sub>69</sub>, 32, 6, 10; 2000 RU<sub>69</sub>, 20, 4, 32; 2000 RV<sub>69</sub>, 19, 4, 8; 2000 RW<sub>69</sub>, 18, 4, 8; 2000 RX<sub>69</sub>, 15, 3, 8; 2000 RY<sub>69</sub>, 33, 6, 10; 2000 RZ<sub>69</sub>, 20, 4, 8; 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0: 2000 RN<sub>79</sub> \*, 12, 3, 25; 2000 RO<sub>79</sub> \*, 28, 6, 84; 2000 RP<sub>79</sub> \*, 13, 3, 25; 2000 RQ<sub>79</sub> \*, 5, 1, 0; 2000 RR<sub>79</sub> \*, 18, 4, 59; 2000 RS<sub>79</sub> \*, 18, 4, 33; 2000 RT<sub>79</sub> \*, 4, 1, 0; 2000 RU<sub>79</sub> \*, 13, 3, 30; 2000 RV<sub>79</sub> \*, 8, 2, 23; 2000 RW<sub>79</sub> \*, 25, 5, 65; 2000 RX<sub>79</sub> \*, 5, 1, 0; 2000 RY<sub>79</sub> \*, 15, 3, 25; 2000 RZ<sub>79</sub> \*, 23, 4, 32; 2000 RA<sub>80</sub> \*, 22, 5, 65; 2000 RB<sub>80</sub> \*, 20, 4, 32; 2000 RC<sub>80</sub> \*, 27, 4, 32; 2000 RD<sub>80</sub> \*, 20, 5, 61; 2000 RE<sub>80</sub> \*, 25, 5, 65; 2000 RF<sub>80</sub> \*, 27, 6, 32; 2000 RG<sub>80</sub> \*, 13, 3, 26; 2000 RH<sub>80</sub> \*, 17, 4, 32; 2000 RJ<sub>80</sub> \*, 24, 5, 65; 2000 RK<sub>80</sub> \*, 8, 2, 22; 2000 RL<sub>80</sub> \*, 10, 2, 25; 2000 RM<sub>80</sub> \*, 20, 4, 32; 2000 RN<sub>80</sub> \*, 9, 2, 22; 2000 RO<sub>80</sub> \*, 33, 6, 65; 2000 RP<sub>80</sub> \*, 19, 3, 25; 2000 RQ<sub>80</sub> \*, 4, 1, 0; 2000 RS<sub>80</sub> \*, 19, 4, 32; 2000 RT<sub>80</sub> \*, 14, 3, 32; 2000 RU<sub>80</sub> \*, 33, 5, 32; 2000 RV<sub>80</sub> \*, 34, 6, 32; 2000 RW<sub>80</sub> \*, 18, 4, 32; 2000 RX<sub>80</sub> \*, 19, 3, 32; 2000 RY<sub>80</sub> \*, 24, 5, 31; 2000 RZ<sub>80</sub> \*, 15, 3, 32; 2000 RA<sub>81</sub> \*, 24, 5, 32; 2000 RB<sub>81</sub> \*, 3, 1, 0; 2000 RC<sub>81</sub> \*, 7, 2, 31; 2000 RD<sub>81</sub> \*, 3, 1, 0; 2000 RE<sub>81</sub> \*, 5, 1, 0; 2000 RF<sub>81</sub> \*, 14, 3, 27; 2000 RG<sub>81</sub> \*, 29, 6, 69; 2000 RH<sub>81</sub> \*, 19, 4, 33; 2000 RI<sub>81</sub> \*, 19, 4, 33; 2000 RJ<sub>81</sub> \*, 12, 3, 25; 2000 RK<sub>81</sub> \*, 20, 4, 33; 2000 RL<sub>81</sub> \*, 19, 4, 32; 2000 RM<sub>81</sub> \*, 20, 4, 33; 2000 RN<sub>81</sub> \*, 17, 4, 32; 2000 RO<sub>81</sub> \*, 4, 1, 0; 2000 RP<sub>81</sub> \*, 3, 1, 0; 2000 RQ<sub>81</sub> \*, 27, 6, 32; 2000 RS<sub>81</sub> \*, 15, 4, 32; 2000 RT<sub>81</sub> \*, 29, 6, 32; 2000 RU<sub>81</sub> \*, 20, 4, 32; 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34; 2000 RW<sub>90</sub> \*, 19, 4, 30; 2000 RX<sub>90</sub> \*, 5, 1, 0; 2000 RY<sub>90</sub> \*, 22, 5, 30; 2000 RZ<sub>90</sub> \*, 16, 4, 30; 2000 RA<sub>91</sub> \*, 13, 3, 30; 2000 RB<sub>91</sub> \*, 15, 3, 30; 2000 RC<sub>91</sub> \*, 20, 5, 30; 2000 RD<sub>91</sub> \*, 27, 5, 30; 2000 RE<sub>91</sub> \*, 28, 5, 30; 2000 RF<sub>91</sub> \*, 23, 6, 30; 2000 RG<sub>91</sub> \*, 18, 4, 29; 2000 RH<sub>91</sub> \*, 16, 4, 30; 2000 RJ<sub>91</sub> \*, 3, 1, 0; 2000 RK<sub>91</sub> \*, 24, 5, 30; 2000 RL<sub>91</sub> \*, 19, 4, 30; 2000 RM<sub>91</sub> \*, 16, 4, 30; 2000 RN<sub>91</sub> \*, 20, 4, 29; 2000 RO<sub>91</sub> \*, 22, 5, 31; 2000 RP<sub>91</sub> \*, 13, 3, 24; 2000 RQ<sub>91</sub> \*, 17, 4, 30; 2000 RR<sub>91</sub> \*, 23, 5, 509; 2000 RS<sub>91</sub> \*, 18, 4, 30; 2000 RT<sub>91</sub> \*, 34, 7, 64; 2000 RU<sub>91</sub> \*, 8, 2, 20; 2000 RV<sub>91</sub> \*, 27, 6, 29; 2000 RW<sub>91</sub> \*, 20, 4, 29; 2000 RX<sub>91</sub> \*, 19, 4, 29; 2000 RY<sub>91</sub> \*, 20, 4, 29; 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18, 4, 27; 2000 RO<sub>102</sub> \*, 16, 4, 27; 2000 RP<sub>102</sub> \*, 21, 5, 27; 2000 RQ<sub>102</sub> \*, 19, 4, 27; 2000 RR<sub>102</sub> \*, 4, 1, 0; 2000 RS<sub>102</sub> \*, 21, 4, 27; 2000 RT<sub>102</sub> \*, 24, 5, 64; 2000 RU<sub>102</sub> \*, 15, 4, 27; 2000 RV<sub>102</sub> \*, 16, 4, 27; 2000 RW<sub>102</sub> \*, 19, 5, 28; 2000 RX<sub>102</sub> \*, 5, 1, 0; 2000 RY<sub>102</sub> \*, 19, 4, 27; 2000 RZ<sub>102</sub> \*, 19, 4, 27; 2000 RA<sub>103</sub> \*, 14, 3, 27; 2000 RB<sub>103</sub> \*, 27, 5, 27; 2000 RC<sub>103</sub> \*, 61, 10, 60; 2000 RD<sub>103</sub> \*, 24, 4, 27; 2000 RE<sub>103</sub> \*, 22, 5, 56; 2000 RF<sub>103</sub> \*, 11, 3, 27; 2000 RG<sub>103</sub> \*, 24, 4, 28; 2000 RH<sub>103</sub> \*, 18, 4, 27; 2000 RJ<sub>103</sub> \*, 3, 1, 0; 2000 RK<sub>103</sub> \*, 40, 8, 27; 2000 RL<sub>103</sub> \*, 50, 11, 31; 2000 RM<sub>103</sub> \*, 20, 4, 27; 2000 RN<sub>103</sub> \*, 5, 1, 0; 2000 RP<sub>103</sub> \*, 22, 5, 28; 2000 RQ<sub>103</sub> \*, 48, 10, 60; 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5, 29; 2000 SR<sub>21</sub> \*, 8, 2, 2; 2000 SS<sub>21</sub> \*, 23, 4, 12; 2000 ST<sub>21</sub> \*, 41, 7, 31; 2000 SU<sub>21</sub> \*, 29, 6, 31; 2000 SV<sub>21</sub> \*, 8, 2, 2; 2000 SW<sub>21</sub> \*, 19, 4, 8; 2000 SX<sub>21</sub> \*, 7, 2, 2; 2000 SY<sub>21</sub> \*, 11, 3, 8; 2000 SZ<sub>21</sub> \*, 9, 3, 8; 2000 SA<sub>22</sub> \*, 10, 2, 2; 2000 SB<sub>22</sub> \*, 11, 3, 8; 2000 SC<sub>22</sub> \*, 15, 2, 1; 2000 SD<sub>22</sub> \*, 9, 2, 8; 2000 SE<sub>22</sub> \*, 5, 1, 0; 2000 SF<sub>22</sub> \*, 5, 1, 0; 2000 SG<sub>22</sub> \*, 15, 3, 49; 2000 SH<sub>22</sub> \*, 3, 1, 0; 2000 SJ<sub>22</sub> \*, 10, 2, 8; 2000 SK<sub>22</sub> \*, 12, 3, 8; 2000 SL<sub>22</sub> \*, 15, 4, 8; 2000 SM<sub>22</sub> \*, 11, 3, 8; 2000 SN<sub>22</sub> \*, 33, 5, 33; 2000 SO<sub>22</sub> \*, 17, 4, 1037; 2000 SP<sub>22</sub> \*, 10, 2, 6; 2000 SQ<sub>22</sub> \*, 20, 4, 9; 2000 SR<sub>22</sub> \*, 21, 5, 11; 2000 ST<sub>22</sub> \*, 19, 4, 8; 2000 SU<sub>22</sub> \*, 38, 6, 12; 2000 SV<sub>22</sub> \*, 15, 3, 8; 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2000 TF<sub>10</sub> \*, 13, 2, 1; 2000 TG<sub>10</sub> \*, 14, 2, 1; 2000 TH<sub>10</sub> \*, 9, 2, 1; 2000 TJ<sub>10</sub> \*, 8, 2, 1; 2000 TK<sub>10</sub> \*, 10, 2, 1; 2000 TL<sub>10</sub> \*, 8, 2, 1; 2000 TM<sub>10</sub> \*, 9, 2, 1; 2000 TN<sub>10</sub> \*, 9, 2, 1; 2000 TO<sub>10</sub> \*, 10, 2, 1; 2000 TP<sub>10</sub> \*, 22, 4, 6; 2000 TQ<sub>10</sub> \*, 15, 3, 2; 2000 TR<sub>10</sub> \*, 23, 4, 3; 2000 TS<sub>10</sub> \*, 22, 4, 4; 2000 TT<sub>10</sub> \*, 8, 2, 1; 2000 TU<sub>10</sub> \*, 9, 2, 1; 2000 TV<sub>10</sub> \*, 9, 2, 1; 2000 TW<sub>10</sub> \*, 9, 2, 1; 2000 TX<sub>10</sub> \*, 8, 2, 1; 2000 TY<sub>10</sub> \*, 9, 2, 1; 2000 TZ<sub>10</sub> \*, 8, 2, 1; 2000 TA<sub>11</sub> \*, 8, 2, 1; 2000 TB<sub>11</sub> \*, 8, 2, 1; 2000 TC<sub>11</sub> \*, 11, 3, 2; 2000 TD<sub>11</sub> \*, 9, 2, 1; 2000 TE<sub>11</sub> \*, 10, 2, 1; 2000 TF<sub>11</sub> \*, 10, 2, 1; 2000 TG<sub>11</sub> \*, 11, 3, 2; 2000 TH<sub>11</sub> \*, 10, 2, 1; 2000 TJ<sub>11</sub> \*, 27, 5, 4; 2000 TK<sub>11</sub> \*, 10, 2, 1; 2000 TL<sub>11</sub> \*, 22, 4, 4; 2000 TM<sub>11</sub> \*, 18, 4, 4; 2000 TN<sub>11</sub> \*, 30, 5, 4; 2000 TO<sub>11</sub> \*, 17, 4, 4; 2000 TP<sub>11</sub> \*, 8, 2, 1; 2000 TQ<sub>11</sub> \*, 8, 2, 1; 2000 TR<sub>11</sub> \*, 8, 2, 1; 2000 TS<sub>11</sub> \*, 6, 2, 1; 2000 TT<sub>11</sub> \*, 9, 2, 1; 2000 TU<sub>11</sub> \*, 14, 3, 3; 2000 TV<sub>11</sub> \*, 9, 2, 1; 2000 TW<sub>11</sub> \*, 9, 2, 1; 2000 TX<sub>11</sub> \*, 19, 4, 3; 2000 TY<sub>11</sub> \*, 7, 2, 1; 2000 TZ<sub>11</sub> \*, 8, 2, 1; 2000 TA<sub>12</sub> \*, 8, 2, 1; 2000 TB<sub>12</sub> \*, 6, 2, 1; 2000 TC<sub>12</sub> \*, 7, 2, 1; 2000 TD<sub>12</sub> \*, 7, 2, 1; 2000 TE<sub>12</sub> \*, 8, 2, 1; 2000 TF<sub>12</sub> \*, 40, 4, 3; 2000 TG<sub>12</sub> \*, 7, 2, 1; 2000 TH<sub>12</sub> \*, 7, 2, 1; 2000 TJ<sub>12</sub> \*, 17, 4, 9; 2000 TK<sub>12</sub> \*, 14, 2, 1; 2000 TL<sub>12</sub> \*, 9, 2, 1; 2000 TM<sub>12</sub> \*, 15, 2, 1; 2000 TN<sub>12</sub> \*, 10, 2, 1; 2000 TO<sub>12</sub> \*, 21, 4, 3; 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2, 1; 2000 TR<sub>13</sub> \*, 8, 2, 1; 2000 TS<sub>13</sub> \*, 15, 2, 1; 2000 TT<sub>13</sub> \*, 12, 2, 1; 2000 TU<sub>13</sub> \*, 8, 2, 1; 2000 TV<sub>13</sub> \*, 8, 2, 1; 2000 TW<sub>13</sub> \*, 10, 2, 1; 2000 TX<sub>13</sub> \*, 9, 2, 1; 2000 TY<sub>13</sub> \*, 8, 2, 1; 2000 TZ<sub>13</sub> \*, 9, 2, 1; 2000 TA<sub>14</sub> \*, 8, 2, 1; 2000 TB<sub>14</sub> \*, 10, 2, 1; 2000 TC<sub>14</sub> \*, 10, 2, 1; 2000 TD<sub>14</sub> \*, 8, 2, 1; 2000 TE<sub>14</sub> \*, 12, 3, 6; 2000 TF<sub>14</sub> \*, 10, 2, 1; 2000 TG<sub>14</sub> \*, 10, 2, 1; 2000 TH<sub>14</sub> \*, 9, 2, 1; 2000 TJ<sub>14</sub> \*, 10, 2, 1; 2000 TK<sub>14</sub> \*, 9, 2, 1; 2000 TL<sub>14</sub> \*, 9, 2, 1; 2000 TM<sub>14</sub> \*, 8, 2, 1; 2000 TN<sub>14</sub> \*, 9, 2, 1; 2000 TO<sub>14</sub> \*, 10, 2, 1; 2000 TP<sub>14</sub> \*, 10, 2, 1; 2000 TQ<sub>14</sub> \*, 7, 2, 1; 2000 TR<sub>14</sub> \*, 10, 2, 1; 2000 TS<sub>14</sub> \*, 8, 2, 1; 2000 TT<sub>14</sub> \*, 9, 2, 1; 2000 TU<sub>14</sub> \*, 8, 2, 1; 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2000 TA<sub>16</sub> \*, 10, 2, 1; 2000 TB<sub>16</sub> \*, 10, 2, 1; 2000 TC<sub>16</sub> \*, 9, 2, 1; 2000 TD<sub>16</sub> \*, 9, 2, 1; 2000 TE<sub>16</sub> \*, 10, 2, 1; 2000 TF<sub>16</sub> \*, 9, 2, 1; 2000 TG<sub>16</sub> \*, 7, 2, 1; 2000 TH<sub>16</sub> \*, 10, 2, 1; 2000 TJ<sub>16</sub> \*, 10, 2, 1; 2000 TK<sub>16</sub> \*, 9, 2, 1; 2000 TL<sub>16</sub> \*, 9, 2, 1; 2000 TM<sub>16</sub> \*, 9, 2, 1; 2000 TN<sub>16</sub> \*, 10, 2, 1; 2000 TO<sub>16</sub> \*, 10, 2, 1; 2000 TP<sub>16</sub> \*, 10, 2, 1; 2000 TQ<sub>16</sub> \*, 6, 2, 1; 2000 TR<sub>16</sub> \*, 9, 2, 1; 2000 TS<sub>16</sub> \*, 9, 2, 1; 2000 TT<sub>16</sub> \*, 9, 2, 1; 2000 TU<sub>16</sub> \*, 9, 2, 1; 2000 TV<sub>16</sub> \*, 8, 2, 1; 2000 TW<sub>16</sub> \*, 8, 2, 1; 2000 TX<sub>16</sub> \*, 8, 2, 1; 2000 TY<sub>16</sub> \*, 10, 2, 1; 2000 TZ<sub>16</sub> \*, 8, 2, 1; 2000 TA<sub>17</sub> \*, 9, 2, 1; 2000 TB<sub>17</sub> \*, 17, 3, 3; 2000 TC<sub>17</sub> \*, 11, 3, 2; 2000 TD<sub>17</sub> \*, 14, 3, 2; 2000 TE<sub>17</sub> \*, 9, 2, 1; 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4, 3; 2000 TM<sub>25</sub> \*, 2, 1; 2000 TN<sub>25</sub> \*, 7, 2, 1; 2000 TO<sub>25</sub> \*, 13, 2, 1; 2000 TP<sub>25</sub> \*, 8, 2, 1; 2000 TQ<sub>25</sub> \*, 8, 2, 1; 2000 TR<sub>25</sub> \*, 11, 2, 1; 2000 TS<sub>25</sub> \*, 8, 2, 3; 2000 TT<sub>25</sub> \*, 9, 2, 3; 2000 TU<sub>25</sub> \*, 9, 2, 3; 2000 TV<sub>25</sub> \*, 9, 2, 3; 2000 TW<sub>25</sub> \*, 8, 2, 3; 2000 TX<sub>25</sub> \*, 13, 2, 3; 2000 TY<sub>25</sub> \*, 15, 2, 3; 2000 TZ<sub>25</sub> \*, 8, 2, 3; 2000 TA<sub>26</sub> \*, 8, 2, 3; 2000 TB<sub>26</sub> \*, 8, 2, 3; 2000 TC<sub>26</sub> \*, 8, 2, 3; 2000 TD<sub>26</sub> \*, 7, 2, 3; 2000 TE<sub>26</sub> \*, 8, 2, 3; 2000 TF<sub>26</sub> \*, 8, 2, 3; 2000 TG<sub>26</sub> \*, 7, 2, 3; 2000 TH<sub>26</sub> \*, 13, 2, 3; 2000 TJ<sub>26</sub> \*, 8, 2, 3; 2000 TK<sub>26</sub> \*, 8, 2, 2; 2000 TL<sub>26</sub> \*, 7, 2, 2; 2000 TM<sub>26</sub> \*, 8, 2, 2; 2000 TN<sub>26</sub> \*, 8, 2, 2; 2000 TO<sub>26</sub> \*, 15, 3, 10; 2000 TP<sub>26</sub> \*, 18, 2, 2; 2000 TQ<sub>26</sub> \*, 12, 2, 2; 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## 711 McDonald Observatory

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

0.76-m reflector + CCD

GSC

1991 YA, 3, 1, 0; 1997 UH<sub>9</sub>, 3, 1, 0; 1998 MN<sub>14</sub>, 2, 1, 0; 1998 MT<sub>24</sub>, 2, 1, 0; 1998 WQ<sub>5</sub>, 4, 2, 1; 1998 XM<sub>4</sub>, 3, 1, 0; 1999 CA<sub>1</sub>, 2, 2, 1; 1999 LO<sub>28</sub>, 3, 1, 0; 2000 LL, 2, 2, 1; 2000 LM, 3, 1, 0; 2000 NG<sub>11</sub>, 2, 1, 0; 2000 OB<sub>22</sub>, 3, 1, 0; 2000 OK<sub>39</sub>, 2, 1, 0; 2000 PF<sub>5</sub>, 3, 1, 0; 2000 PQ<sub>9</sub>, 3, 1, 0;

2000 QT<sub>7</sub>, 2, 1, 0; 2000 RD<sub>53</sub>, 3, 1, 0; 2000 RJ<sub>60</sub>, 3, 2, 1; 2000 RN<sub>77</sub>, 2, 2, 1; 2000 SP<sub>42</sub>, 4, 1, 0; 2000 SZ<sub>44</sub>, 3, 1, 0; 2000 SA<sub>45</sub>, 3, 1, 0; 2000 SC<sub>45</sub>, 3, 1, 0; 2000 SE<sub>45</sub>, 3, 1, 0; 2000 SX<sub>162</sub>, 9, 3, 2; 2000 SY<sub>162</sub>, 8, 3, 2; 2000 SU<sub>180</sub>, 3, 1, 0; 2000 SV<sub>180</sub>, 3, 1, 0; 2000 TK<sub>1</sub>, 3, 1, 0; (4688), 2, 1, 0; (15745), 2, 1, 0; (16816), 3, 1, 0; [99, 32, 0\*, 2000/09/29–2000/10/02]

### 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

1999 VF<sub>2</sub>, 2, 1, 0; [2, 1, 0\*, 2000/09/24]

### 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

1993 TA<sub>3</sub>, 3, 1, 0; 2000 DP<sub>107</sub>, 9, 2, 3; 2000 RP<sub>36</sub>, 3, 1, 0; 2000 RK<sub>78</sub>, 4, 2, 7; 2000 RC<sub>101</sub>, 6, 2, 1; (1719), 3, 1, 0; [28, 6, 0\*, 2000/09/12–2000/10/01]

### 718 University of Utah Hansen Planetarium, Tooele

P. Wiggins, University of Utah Hansen Planetarium, 15 South State Street, Salt Lake City, UT 84111-1590, U.S.A. [p.wiggins@m.cc.utah.edu]

Observers P. Wiggins, H. Phaneuf

0.35-m  $f/4.1$  Schmidt-Cassegrain + CCD

GSC

2000 NY<sub>8</sub>, 6, 2, 1; 2000 QQ<sub>120</sub>, 6, 2, 1; 2151 T-2, 4, 1, 0; (478), 4, 1, 0; (957), 11, 2, 1; [31, 5, 0\*, 2000/09/25–2000/10/06]

### 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 SU<sub>20</sub>, 2, 1, 0; 2000 SV<sub>20</sub>, 2, 1, 0; [4, 2, 0\*, 2000/09/25–2000/09/26]

### 720 Universidad de Monterrey

P. V. Sada, Apartado Postal 134-C, MX-66270 San Pedro Garza García, Nuevo Leon, Mexico [psada@ix.netcom.com]

0.18-m  $f/15.0$  Maksutov + focal reducer + CCD

USNO-A2.0

1985 UF, 5, 2, 1; 1987 QF<sub>1</sub>, 6, 2, 1; 1993 FY<sub>6</sub>, 7, 2, 1; 1998 BR<sub>1</sub>, 4, 2, 1; 6037 P-L, 6, 2, 1; (6488), 6, 2, 2; (7303), 6, 2, 1; (9511), 6, 2, 2; (10799), 6, 2, 2; (11048), 6, 2, 2; [58, 10, 0\*, 2000/08/31–2000/10/05]

### 721 Lime Creek

R. Linderholm, R2 Box 79, Cambridge, NE 69022, U.S.A. [lindh@swnebr.net]

0.25-m  $f/3.3$  Schmidt-Cassegrain + CCD

GSC

1998 HO<sub>96</sub>, 4, 2, 5; [4, 1, 0\*, 1996/10/14–1996/10/19]

### 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

2000 QE<sub>69</sub>, 7, 4, 23; [7, 1, 0\*, 2000/08/27–2000/09/19]

### 726 Brainerd

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

[jimw@brainerd.net]

Observers J. E. Wentworth, C. Vanvalkenburg

0.280-m Schmidt-Cassegrain + CCD

GSC-1.1

2000 DP<sub>107</sub>, 6, 1, 0; 2000 QU<sub>7</sub>, 23, 3, 10; 2000 RM<sub>12</sub>, 10, 2, 3; 2000 RD<sub>53</sub>, 27, 3, 4; (16636), 4, 1, 0; (17274), 3, 1, 0; [73, 6, 0\*, 2000/09/11–2000/09/27]

### 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

1997 YS<sub>10</sub>, 3, 1, 0; 1999 JB<sub>53</sub>, 3, 1, 0; 2000 SJ<sub>42</sub> \*, 10, 4, 7; (2273), 3, 1, 0; (4772), 5, 2, 2; (5567), 3, 1, 0; (6153), 3, 1, 0; (6315), 2, 1, 0; (6984), 6, 2, 1; (10499), 3, 1, 0; (10700), 3, 1, 0; (16645), 3, 1, 0; (16852), 3, 1, 0; [50, 13, 1\*, 2000/09/20–2000/10/04]

### 734 Farpoint Observatory, Eskridge

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

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

Measurers G. Hug, J. Edmonds

0.30-m Schmidt-Cassegrain + CCD

GSC-1.1, USNO-SA1.0

1992 EZ<sub>21</sub>, 3, 1, 0; 1999 OF<sub>1</sub>, 3, 1, 0; 1999 QA, 3, 1, 0; 1999 RV<sub>33</sub>, 4, 1, 0; 1999 TJ<sub>13</sub>, 3, 1, 0; 1999 XU<sub>38</sub>, 3, 1, 0; 1999 YJ<sub>4</sub>, 3, 1, 0; 2000 LR<sub>1</sub>, 1, 1, 0; 2000 LU<sub>2</sub>, 3, 1, 0; 2000 LG<sub>3</sub>, 2, 1, 0; 2000 LT<sub>31</sub>, 3, 1, 0; 2000 MA<sub>2</sub>, 2, 1, 0; 2000 NJ<sub>3</sub>, 6, 2, 30; 2000 NG<sub>10</sub>, 3, 1, 0; 2000 NJ<sub>11</sub>, 6, 2, 2; 2000 NO<sub>27</sub>, 3, 1, 0; 2000 OK, 6, 2, 3; 2000 OU, 2, 1, 0; 2000 OT<sub>1</sub>, 3, 1, 0; 2000 OV<sub>1</sub>, 2, 1, 0; 2000 PZ, 3, 1, 0; 2000 QE<sub>124</sub>, 3, 1, 0; 2000 QA<sub>127</sub>, 2, 1, 0; 2000 RB<sub>8</sub>, 3, 1, 0; 2000 RF<sub>39</sub>, 3, 1, 0; 2000 RU<sub>40</sub>, 2, 1, 0; 2000 RG<sub>78</sub>, 8, 2, 8; 2000 TA \*, 8, 3, 5; 2000 TL<sub>2</sub> \*, 7, 2, 4; 2000 TM<sub>2</sub> \*, 10, 2, 4; (5452), 3, 1, 0; [116, 31, 3\*, 2000/07/24–2000/10/06]

### 735 George Observatory, Needville

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

[bdillon@houston.geoquest.slb.com]

Observers J. Dellinger, W. G. Dillon, M. Eastman, L. Casady, K. Rivich,

C. Gustava, R. Pepper

Measurers W. G. Dillon, K. Rivich

0.46-m reflector + CCD

USNO-A2.0

2000 QA<sub>71</sub>, 2, 1, 0; 2000 RQ<sub>82</sub>, 2, 1, 0; [4, 2, 0\*, 2000/09/19–2000/09/20]

### 739 Sunflower Observatory, Olathe

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

[lrobinson@ix.netcom.com]

Observers L. Robinson, L. Bellavance

0.30-m Schmidt-Cassegrain + CCD

GSC-1.1

1977 EU<sub>1</sub>, 4, 1, 0; 1979 SH, 3, 1, 0; 1984 SP<sub>4</sub>, 2, 1, 0; 1986 EL<sub>5</sub>, 9, 3, 7; 1988 RC, 4, 1, 0; 1990 OV<sub>4</sub>, 3, 1, 0; 1990 UD<sub>1</sub>, 4, 1, 0; 1991 BT, 4, 1, 0; 1991 FK, 4, 1, 0; 1991 VJ<sub>6</sub>, 4, 1, 0; 1992 DK<sub>8</sub>, 3, 1, 0; 1993 FQ<sub>32</sub>, 3, 1, 0; 1993 FQ<sub>50</sub>, 8, 2, 6; 1993 SR<sub>1</sub>, 3, 1, 0; 1993 TF<sub>11</sub>, 3, 1, 0; 1994 CQ<sub>1</sub>, 4, 1, 0; 1995 EO, 4, 1, 0; 1995 WW<sub>2</sub>, 3, 1, 0; 1996 UU, 2, 1, 0; 1996 VL<sub>3</sub>, 7, 2, 6; 1997 AE<sub>2</sub>, 3, 1, 0; 1997 UZ<sub>21</sub>, 4, 1, 0; 1997 WJ<sub>36</sub>, 3, 1, 0; 1997 YS<sub>10</sub>, 5, 2, 7; 1998 DA<sub>6</sub>, 4, 1, 0; 1998 DG<sub>35</sub>, 3, 1, 0; 1998 FV<sub>20</sub>, 4, 1, 0; 1998 FV<sub>28</sub>, 3, 1, 0; 1998 FN<sub>54</sub>, 4, 1, 0; 1998 FG<sub>66</sub>, 12, 4, 25; 1998 FP<sub>90</sub>, 4, 1, 0; 1998 FU<sub>116</sub>, 3, 1, 0; 1998 FX<sub>123</sub>, 4, 1, 0; 1998 HL<sub>43</sub>, 4, 1, 0; 1998 HY<sub>46</sub>, 2, 1, 0; 1998 HL<sub>129</sub>, 15, 4, 10; 1998 RO<sub>1</sub>, 3, 1, 0; 1999 BC<sub>2</sub>, 3, 1, 0; 1999 CG<sub>104</sub>, 3, 1, 0; 1999 FB<sub>19</sub>, 11, 3, 9; 1999 FM<sub>24</sub>, 1, 1, 0; 1999 HO<sub>4</sub>, 4, 1, 0; 1999 HN<sub>8</sub>, 2, 1, 0; 1999 JA<sub>18</sub>, 8, 2, 6; 1999 JB<sub>24</sub>, 4, 1, 0; 1999 JN<sub>37</sub>, 3, 1, 0; 1999 JB<sub>53</sub>, 8, 2, 12; 1999 JQ<sub>75</sub>, 2, 1, 0; 1999 JW<sub>75</sub>, 8, 2, 6; 1999 JM<sub>76</sub>, 3, 1, 0; 1999 LK<sub>11</sub>, 4, 1, 0; 2000 DP<sub>107</sub>, 6, 2, 12; 2000 LD<sub>16</sub>, 3, 1, 0; 2000 LZ<sub>21</sub>, 3, 1, 0; 2000 MC<sub>5</sub>,

4, 1, 0; 2000 MV<sub>5</sub>, 4, 1, 0; 2000 NA<sub>5</sub>, 4, 1, 0; 2000 NE<sub>5</sub>, 7, 1, 0; 2000 NF<sub>5</sub>, 4, 1, 0; 2000 NL<sub>5</sub>, 4, 1, 0; 2000 NR<sub>5</sub>, 3, 1, 0; 2000 NS<sub>5</sub>, 6, 2, 1; 2000 NX<sub>8</sub>, 3, 1, 0; 2000 NY<sub>8</sub>, 4, 1, 0; 2000 ND<sub>9</sub>, 4, 1, 0; 2000 NL<sub>9</sub>, 4, 1, 0; 2000 NF<sub>12</sub>, 4, 1, 0; 2000 OH<sub>3</sub>, 2, 1, 0; 2000 OG<sub>8</sub>, 4, 1, 0; 2000 OV<sub>16</sub>, 3, 1, 0; 2000 OQ<sub>20</sub>, 3, 1, 0; 2000 OU<sub>20</sub>, 8, 2, 2; 2000 OB<sub>21</sub>, 4, 1, 0; 2000 OV<sub>21</sub>, 3, 1, 0; 2000 OM<sub>22</sub>, 3, 1, 0; 2000 OS<sub>22</sub>, 9, 3, 19; 2000 OQ<sub>35</sub>, 2, 1, 0; 2000 OG<sub>44</sub>, 8, 3, 12; 2000 OV<sub>44</sub>, 3, 1, 0; 2000 OA<sub>45</sub>, 4, 1, 0; 2000 OF<sub>45</sub>, 4, 1, 0; 2000 OL<sub>45</sub>, 4, 1, 0; 2000 OM<sub>45</sub>, 11, 3, 3; 2000 OO<sub>46</sub>, 4, 1, 0; 2000 OP<sub>46</sub>, 4, 1, 0; 2000 OQ<sub>46</sub>, 4, 1, 0; 2000 OS<sub>46</sub>, 4, 1, 0; 2000 OA<sub>47</sub>, 3, 1, 0; 2000 OC<sub>47</sub>, 4, 1, 0; 2000 OQ<sub>47</sub>, 3, 1, 0; 2000 OR<sub>47</sub>, 2, 1, 0; 2000 OW<sub>47</sub>, 8, 2, 6; 2000 OX<sub>47</sub>, 4, 1, 0; 2000 OB<sub>48</sub>, 4, 1, 0; 2000 OC<sub>48</sub>, 3, 1, 0; 2000 OD<sub>48</sub>, 7, 2, 6; 2000 OY<sub>49</sub>, 4, 1, 0; 2000 OZ<sub>49</sub>, 4, 1, 0; 2000 OD<sub>50</sub>, 4, 1, 0; 2000 OE<sub>50</sub>, 3, 1, 0; 2000 OF<sub>50</sub>, 2, 1, 0; 2000 OQ<sub>50</sub>, 4, 1, 0; 2000 OU<sub>51</sub>, 2, 1, 0; 2000 PX<sub>5</sub>, 2, 1, 0; 2000 PN<sub>9</sub>, 3, 1, 0; 2000 PU<sub>12</sub>, 12, 3, 4; 2000 PJ<sub>26</sub>, 9, 3, 4; 2000 QT<sub>7</sub>, 7, 2, 5; 2000 QU<sub>4</sub>, 4, 1, 0; 2000 QB<sub>6</sub>, 4, 1, 0; 2000 QL<sub>7</sub>, 6, 2, 12; 2000 QQ<sub>22</sub>, 3, 1, 0; 2000 QN<sub>24</sub>, 3, 1, 0; 2000 QV<sub>24</sub>, 4, 1, 0; 2000 QQ<sub>61</sub>, 4, 1, 0; 2000 QK<sub>68</sub>, 4, 1, 0; 2000 QP<sub>68</sub>, 2, 1, 0; 2000 QT<sub>68</sub>, 4, 1, 0; 2000 QJ<sub>70</sub>, 8, 1, 0; 2000 QU<sub>80</sub>, 4, 1, 0; 2000 QD<sub>83</sub>, 4, 1, 0; 2000 QK<sub>83</sub>, 3, 1, 0; 2000 QP<sub>83</sub>, 4, 1, 0; 2000 QR<sub>83</sub>, 4, 1, 0; 2000 QB<sub>91</sub>, 3, 1, 0; 2000 QC<sub>93</sub>, 3, 1, 0; 2000 QD<sub>93</sub>, 4, 1, 0; 2000 QH<sub>93</sub>, 3, 1, 0; 2000 QJ<sub>98</sub>, 4, 1, 0; 2000 QK<sub>119</sub>, 4, 1, 0; 2000 QV<sub>119</sub>, 6, 1, 0; 2000 QG<sub>120</sub>, 3, 1, 0; 2000 QR<sub>121</sub>, 7, 1, 0; 2000 QV<sub>121</sub>, 2, 1, 0; 2000 QH<sub>123</sub>, 4, 1, 0; 2000 QM<sub>123</sub>, 11, 2, 6; 2000 QW<sub>123</sub>, 3, 1, 0; 2000 QB<sub>124</sub>, 2, 1, 0; 2000 QA<sub>126</sub>, 4, 1, 0; 2000 QB<sub>126</sub>, 3, 1, 0; 2000 QE<sub>126</sub>, 3, 1, 0; 2000 QC<sub>127</sub>, 3, 1, 0; 2000 QH<sub>127</sub>, 4, 1, 0; 2000 QT<sub>127</sub>, 4, 1, 0; 2000 QU<sub>128</sub>, 7, 2, 1; 2000 QV<sub>150</sub>, 3, 1, 0; 2000 QB<sub>172</sub>, 3, 1, 0; 2000 QW<sub>205</sub>, 2, 1, 0; 2000 QX<sub>205</sub>, 4, 1, 0; 2000 RX<sub>1</sub>, 4, 1, 0; 2000 RZ<sub>1</sub>, 3, 1, 0; 2000 RU<sub>2</sub>, 2, 1, 0; 2000 RV<sub>2</sub>, 2, 1, 0; 2000 RX<sub>2</sub>, 4, 1, 0; 2000 RF<sub>3</sub>, 2, 1, 0; 2000 RG<sub>3</sub>, 3, 1, 0; 2000 RL<sub>3</sub>, 8, 2, 6; 2000 RN<sub>3</sub>, 2, 1, 0; 2000 RT<sub>3</sub>, 2, 1, 0; 2000 RG<sub>5</sub>, 4, 1, 0; 2000 RA<sub>8</sub>, 5, 2, 3; 2000 RH<sub>16</sub>, 2, 1, 0; 2000 RX<sub>16</sub>, 2, 1, 0; 2000 RB<sub>22</sub>, 2, 1, 0; 2000 RG<sub>22</sub>, 6, 1, 0; 2000 RP<sub>29</sub>, 3, 1, 0; 2000 RS<sub>29</sub>, 2, 1, 0; 2000 RR<sub>33</sub>, 12, 1, 0; 2000 RJ<sub>34</sub>, 5, 2, 12; 2000 RR<sub>35</sub>, 4, 1, 0; 2000 RS<sub>35</sub>, 4, 1, 0; 2000 RP<sub>36</sub>, 2, 1, 0; 2000 RU<sub>40</sub>, 6, 2, 1; 2000 RR<sub>42</sub>, 4, 1, 0; 2000 RF<sub>43</sub>, 2, 1, 0; 2000 RD<sub>53</sub>, 4, 1, 0; 2000 RG<sub>56</sub>, 4, 1, 0; 2000 RE<sub>57</sub>, 3, 1, 0; 2000 RE<sub>60</sub>, 2, 1, 0; 2000 RF<sub>60</sub>, 4, 1, 0; 2000 RL<sub>65</sub>, 4, 1, 0; 2000 RQ<sub>65</sub>, 2, 1, 0; 2000 RR<sub>65</sub>, 4, 2, 7; 2000 RM<sub>68</sub>, 3, 1, 0; 2000 RS<sub>69</sub>, 3, 1, 0; 2000 RY<sub>69</sub>, 2, 1, 0; 2000 RL<sub>75</sub>, 4, 1, 0; 2000 RN<sub>76</sub>, 2, 1, 0; 2000 RD<sub>78</sub>, 4, 1, 0; 2000 RH<sub>78</sub>, 5, 2, 7; 2000 RJ<sub>78</sub>, 2, 1, 0; 2000 RK<sub>78</sub>, 2, 1, 0; 2000 RY<sub>78</sub>, 2, 1, 0; 2000 RZ<sub>78</sub> \*, 9, 2, 4; 2000 RZ<sub>82</sub>, 2, 1, 0; 2000 RR<sub>83</sub>, 8, 1, 0; 2000 RV<sub>91</sub>, 4, 1, 0; 2000 RC<sub>102</sub>, 3, 1, 0; 2000 SA \*, 8, 2, 1; 2000 SB \*, 17, 5, 10; 2000 SS<sub>1</sub>, 4, 1, 0; 2000 SE<sub>4</sub>, 3, 1, 0; 2000 SJ<sub>5</sub> \*, 4, 1, 0; 2000 ST<sub>8</sub>, 3, 1, 0; 2000 SC<sub>23</sub>, 4, 1, 0; 2000 SW<sub>24</sub>, 2, 1, 0; 2000 SJ<sub>42</sub>, 3, 1, 0; 2000 SP<sub>43</sub>, 7, 2, 12; 2000 SO<sub>104</sub>, 6, 2, 2; 2000 SF<sub>115</sub>, 4, 1, 0; 2000 SO<sub>115</sub>, 4, 1, 0; 2000 SW<sub>115</sub>, 4, 1, 0; 2000 SA<sub>116</sub>, 4, 1, 0; 2000 SH<sub>146</sub>, 2, 1, 0; 2000 SO<sub>146</sub>, 9, 3, 7; 2000 SZ<sub>146</sub>, 3, 1, 0; 2000 SD<sub>149</sub>, 4, 1, 0; 2000 TJ<sub>1</sub>, 3, 1, 0; 4052 P-L, 4, 1, 0; 7069 P-L, 2, 1, 0; 2272 T-2, 3, 1, 0; (50), 2, 1, 0; (76), 3, 1, 0; (83), 2, 1, 0; (91), 2, 1, 0; (95), 3, 1, 0; (108), 2, 1, 0; (113), 3, 1, 0; (127), 3, 1, 0; (131), 2, 1, 0; (165), 2, 1, 0; (220), 3, 1, 0; (222), 3, 1, 0; (223), 2, 1, 0; (303), 2, 1, 0; (311), 3, 1, 0; (336), 3, 1, 0; (348), 2, 1, 0; (393), 3, 1, 0; (403), 3, 1, 0; (414), 2, 1, 0; (468), 2, 1, 0; (494), 5, 1, 0; (502), 3, 1, 0; (522), 2, 1, 0; (523), 2, 1, 0; (534), 2, 1, 0; (583), 3, 1, 0; (638), 2, 1, 0; (656), 3, 1, 0; (663), 4, 1, 0; (665), 2, 1, 0; (739), 4, 1, 0; (740), 3, 1, 0; (801), 3, 1, 0; (889), 3, 1, 0; (919), 3, 1, 0; (937), 3, 1, 0; (981), 2, 1, 0; (987), 4, 1, 0; (1027), 3, 1, 0; (1051), 2, 1, 0; (1082), 2, 1, 0; (1091), 3, 1, 0; (1092), 6, 2, 2; (1104), 3, 1, 0; (1178), 2, 1, 0; (1257), 2, 1, 0; (1347), 3, 1, 0; (1365), 2, 1, 0; (1396), 3, 1, 0; (1409), 3, 1, 0; (1423), 2, 1, 0; (1489), 2, 1, 0; (1505), 3, 1, 0; (1544), 2, 1, 0; (1565), 4, 1, 0; (1568), 10, 3, 3; (1610), 3, 1, 0; (1699), 10, 3, 3; (1719), 6, 2, 1; (1724), 4, 1, 0; (1739), 5, 2, 1; (1749), 2, 1, 0; (1755), 7, 2, 1; (1761), 4, 1, 0; (1771), 2, 1, 0; (1888), 3, 1, 0; (1932), 4, 1, 0; (1989), 4, 1, 0; (2080), 4, 1, 0; (2100), 2, 1, 0; (2190), 8, 1, 0; (2251), 2, 1, 0; (2345), 5, 2, 3; (2348), 4, 1, 0; (2461), 4, 1, 0; (2508), 7, 2, 6; (2540), 4, 1, 0; (2575), 7, 2, 3; (2591), 11, 3, 18; (2613), 4, 1, 0; (2634), 2, 1, 0; (2638), 4, 1, 0; (2751), 2, 1, 0; (2774), 2, 1, 0; (2932), 4, 1, 0; (2973), 7, 2, 18; (2986), 3, 1, 0; (2996), 4, 1, 0; (3120), 3, 1, 0; (3223), 3, 1, 0; (3259), 3, 1, 0; (3365), 3, 1, 0; (3423), 3, 1, 0; (3431), 3, 1, 0; (3527), 8, 2, 1; (3591), 3, 1, 0; (3624), 4, 1, 0; (3631), 6, 2, 1; (3654), 4, 1, 0; (3751), 4, 1, 0; (3805), 5, 2, 1; (3843), 3, 1, 0; (3882), 4, 1, 0; (3899), 2, 1, 0; (3932), 3, 1, 0; (3935), 2, 1, 0; (3977), 4, 1, 0; (4006), 2, 1, 0; (4018), 1, 1, 0; (4070), 6, 2, 1; (4264), 8, 3, 3; (4265), 3, 1, 0; (4348), 3, 1, 0; (4385), 4, 1, 0; (4439), 3, 1, 0; (4486), 6, 2, 6; (4545), 3, 1, 0; (4606), 4, 1, 0; (4707), 3, 1, 0; (4745), 3, 1, 0; (4772), 3, 1, 0; (4807), 3, 1, 0; (4943), 3, 1, 0; (5130), 4, 1, 0; (5435), 2, 1, 0; (5505), 7, 3, 3; (5520), 4, 1, 0; (5572), 3, 1, 0; (5633), 8, 2, 6; (5851), 3, 1, 0; (5891), 4, 1, 0; (6079), 2, 1, 0; (6153), 2, 1, 0; (6243), 3, 1, 0; (6248), 3, 1, 0; (6538), 4, 1, 0; (6747), 3, 1, 0; (6984), 3, 1, 0; (7044), 3, 1, 0; (7057), 6, 2, 1; (7133), 2, 1, 0; (7175), 3, 1, 0; (7178), 8, 2, 8; (7237), 4, 1, 0; (7320), 3, 1, 0; (7394), 4, 1, 0; (7544), 4, 1, 0; (7635), 2, 1, 0; (7650), 3, 1, 0; (8190), 2, 1, 0; (8293), 3, 1, 0; (8333), 10, 2, 18; (8365), 3, 1, 0; (8493), 8, 2, 6; (8538), 4, 1, 0; (8638), 9, 3, 18; (8658), 3, 1, 0; (8698), 3, 1, 0; (8701), 3, 1, 0; (8718), 4, 1, 0; (8766), 2, 1, 0; (8845), 4, 1, 0; (8945), 4, 1, 0; (9402), 4, 1, 0; (9971), 4, 1, 0; (10259), 4, 1, 0; (10268), 4, 1, 0; (10290), 3, 1, 0; (10427), 4, 1, 0; (10488), 8, 2, 6; (10495), 2, 1, 0; (10497), 3, 1, 0; (10499), 3, 1, 0; (10508), 3, 1, 0; (10526), 3, 1, 0; (10562), 2, 1, 0; (10634), 3, 1, 0; (10696), 2, 1, 0; (10711), 15, 4, 19; (10781), 3, 1, 0; (10796), 3, 1, 0; (10967), 4, 1, 0; (10970), 4, 1, 0; (11007), 3, 1, 0; (11077), 3, 1, 0; (11119), 4, 1, 0; (11137), 4, 1, 0; (11225), 4, 1, 0; (11227), 4, 1, 0; (11401), 1, 1, 0; (12929), 3, 1, 0; (15245), 4, 1, 0; (15844), 4, 1, 0; (15925), 3, 1, 0; (15953), 4, 1, 0; (16425), 4, 1, 0; (16458), 6, 2, 12; (16529), 4, 1, 0; (16539), 3, 1, 0; (16616), 4, 1, 0; (16635), 4, 1, 0; (16645), 4, 1, 0; (16650), 11, 3, 18; (16746), 7, 2, 12; (16785), 4, 1, 0;

(16830), 4, 1, 0; (17154), 3, 1, 0; (17164), 4, 1, 0; (17274), 3, 1, 0; (17308), 8, 2, 6; (17311), 4, 1, 0; [1722, 433, 4\*, 2000/09/03-2000/10/09]

#### 740 SFA Observatory, Nacogdoches

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

[f.brutonwd@titan.sfasu.edu]

Observers H. J. Plaisance, J. A. Martinez

Measurer W. D. Bruton

0.46-m Cassegrain reflector + CCD

GSC-1.1

2000 SN<sub>89</sub> \*, 9, 2, 1; 2000 SR<sub>320</sub> \*, 11, 2, 1; (2981), 8, 2, 1; [28, 3, 2\*, 2000/09/29-2000/10/01]

#### 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 W. Osborn, D. Ferrer, E. McDonald

Measurer W. Osborn

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

USNO-A2.0

(17), 8, 2, 12; (113), 24, 4, 26; (1259), 4, 1, 0; (1780), 12, 2, 8; (2296), 12, 2, 18; [60, 5, 0\*, 2000/08/19-2000/09/14]

#### 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

USNO-A2.0

1998 BR<sub>7</sub>, 2, 1, 0; (17274), 2, 1, 0; [4, 2, 0\*, 2000/09/29]

#### 807 Cerro Tololo

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

U.S.A. [buie@lowell.edu]

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

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

J. J. Qu, C. V. Salyk, J. A. P, J. A. Pate

4-m Blanco reflector + CCD

USNO-A2.0

1989 SZ<sub>9</sub>, 2, 1, 0; 1999 JR<sub>52</sub>, 2, 1, 0; 1999 RM<sub>252</sub>, 6, 1, 0; 2000 MF<sub>2</sub>, 2, 1, 0; 2000 NY<sub>7</sub>, 4, 2, 2; 2000 OB<sub>1</sub>, 2, 1, 0; 2000 OG<sub>2</sub>, 2, 1, 0; 2000 OM<sub>2</sub>, 2, 1, 0; 2000 OX<sub>12</sub>, 4, 2, 1; 2000 OY<sub>25</sub>, 2, 1, 0; 2000 OE<sub>32</sub>, 2, 1, 0; 2000 OV<sub>54</sub>, 2, 1, 0; 2000 ON<sub>55</sub>, 2, 1, 0; 2000 OO<sub>55</sub>, 4, 2, 1; 2000 OR<sub>55</sub>, 2, 1, 0; 2000 OX<sub>56</sub>, 2, 1, 0; 2000 OH<sub>57</sub>, 2, 1, 0; 2000 OK<sub>61</sub> \*, 4, 2, 3; 2000 OL<sub>61</sub> \*, 4, 2, 3; 2000 OM<sub>61</sub> \*, 4, 2, 3; 2000 ON<sub>61</sub> \*, 4, 2, 1; 2000 OO<sub>61</sub> \*, 4, 2, 3; 2000 OP<sub>61</sub> \*, 4, 2, 3; 2000 OQ<sub>61</sub> \*, 4, 2, 3; 2000 OR<sub>61</sub> \*, 4, 2, 3; 2000 OS<sub>61</sub> \*, 4, 2, 3; 2000 OT<sub>61</sub> \*, 4, 2, 3; 2000 OU<sub>61</sub> \*, 4, 2, 3; 2000 OV<sub>61</sub> \*, 4, 2, 3; 2000 OW<sub>61</sub> \*, 4, 2, 2; 2000 OX<sub>61</sub> \*, 4, 2, 2; 2000 OY<sub>61</sub> \*, 4, 2, 2; 2000 OZ<sub>61</sub> \*, 4, 2, 2; 2000 OA<sub>62</sub> \*, 4, 2, 2; 2000 OB<sub>62</sub> \*, 4, 2, 1; 2000 OC<sub>62</sub> \*, 4, 2, 1; 2000 OD<sub>62</sub> \*, 4, 2, 1; 2000 OE<sub>62</sub> \*, 4, 2, 1; 2000 OF<sub>62</sub> \*, 4, 2, 1; 2000 OG<sub>62</sub> \*, 4, 2, 1; 2000 OH<sub>62</sub> \*, 4, 2, 1; 2000 OJ<sub>62</sub> \*, 4, 2, 1; 2000 OK<sub>62</sub> \*, 4, 2, 1; 2000 OL<sub>62</sub> \*, 4, 2, 1; 2000 OM<sub>62</sub> \*, 4, 2, 1; 2000 ON<sub>62</sub> \*, 4, 2, 1; 2000 OO<sub>62</sub> \*, 4, 2, 1; 2000 OP<sub>62</sub> \*, 4, 2, 1; 2000 OQ<sub>62</sub> \*, 4, 2, 1; 2000 OR<sub>62</sub> \*, 4, 2, 1; 2000 OS<sub>62</sub> \*, 4, 2, 1; 2000 OT<sub>62</sub> \*, 4, 2, 1; 2000 OU<sub>62</sub> \*, 4, 2, 1; 2000 OV<sub>62</sub> \*, 4, 2, 1; 2000 OX<sub>62</sub> \*, 4, 2, 1; 2000 OY<sub>62</sub> \*, 4, 2, 1; 2000 OZ<sub>62</sub> \*, 4, 2, 1; 2000 OA<sub>63</sub> \*, 4, 2, 1; 2000 OB<sub>63</sub> \*, 4, 2, 1; 2000 OC<sub>63</sub> \*, 4, 2, 1; 2000 OD<sub>63</sub> \*, 4, 2, 1; 2000 OE<sub>63</sub> \*, 4, 2, 1; 2000 OF<sub>63</sub> \*, 4, 2, 1; 2000 OG<sub>63</sub> \*, 4, 2, 1; 2000 OH<sub>63</sub> \*, 4, 2, 1; 2000 OJ<sub>63</sub> \*, 4, 2, 1; 2000 OK<sub>63</sub> \*, 4, 2, 1; 2000 OL<sub>63</sub> \*, 4, 2, 1; 2000 OM<sub>63</sub> \*, 4, 2, 1; 2000 ON<sub>63</sub> \*, 4, 2, 1; 2000 OO<sub>63</sub> \*, 4, 2, 1; 2000 OP<sub>63</sub> \*, 4, 2, 1; 2000 OQ<sub>63</sub> \*, 4, 2, 1; 2000 OR<sub>63</sub> \*, 4, 2, 1; 2000 OS<sub>63</sub> \*, 4, 2, 1; 2000 OT<sub>63</sub> \*, 4, 2, 1; 2000 OU<sub>63</sub> \*, 4, 2, 1; 2000 OV<sub>63</sub> \*, 4, 2, 1; 2000 OW<sub>63</sub> \*, 4, 2, 1; 2000 OX<sub>63</sub> \*, 4, 2, 1; 2000 OY<sub>63</sub> \*, 4, 2, 1; 2000 OZ<sub>63</sub> \*, 4, 2, 1; 2000 OA<sub>64</sub> \*, 4, 2, 1; 2000 OB<sub>64</sub> \*, 4, 2, 1; 2000 OC<sub>64</sub> \*, 4, 2, 1; 2000 OD<sub>64</sub> \*, 4, 2, 1; 2000 OE<sub>64</sub> \*, 4, 2, 1; 2000 OF<sub>64</sub> \*, 4, 2, 1; 2000 OG<sub>64</sub> \*, 4, 2, 1; 2000 OH<sub>64</sub> \*, 4, 2, 1; 2000 OJ<sub>64</sub> \*, 4, 2, 1; 2000 OK<sub>64</sub> \*, 4, 2, 1; 2000 OL<sub>64</sub> \*, 4, 2, 1; 2000 OM<sub>64</sub> \*, 4, 2, 1; 2000 ON<sub>64</sub> \*, 4, 2, 1; 2000 OO<sub>64</sub> \*, 4, 2, 1; 2000 OP<sub>64</sub> \*, 4, 2, 1; 2000 OQ<sub>64</sub> \*, 4, 2, 1; 2000 OR<sub>64</sub> \*, 4, 2, 1; 2000 OS<sub>64</sub> \*, 4, 2, 1; 2000 OT<sub>64</sub> \*, 4, 2, 1; 2000 OU<sub>64</sub> \*, 4, 2, 1; 2000 OV<sub>64</sub> \*, 4, 2, 1; 2000 OW<sub>64</sub> \*, 4, 2, 1;

*(continued)*

\*, 2, 1; 2000 OX<sub>64</sub> \*, 4, 2, 1; 2000 OY<sub>64</sub> \*, 4, 2, 1; 2000 OZ<sub>64</sub> \*, 4, 2, 1; 2000 OA<sub>65</sub> \*, 4, 2, 1;  
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4, 2, 1; 2000 OQ<sub>65</sub> \*, 4, 2, 1; 2000 OR<sub>65</sub> \*, 4, 2, 3; 2000 OS<sub>65</sub> \*, 4, 2, 1; 2000 OT<sub>65</sub> \*, 4, 2, 3;  
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4, 2, 2; 2000 OI<sub>66</sub> \*, 4, 2, 2; 2000 OK<sub>66</sub> \*, 4, 2, 2; 2000 OL<sub>66</sub> \*, 4, 2, 1; 2000 OM<sub>66</sub> \*, 4, 2, 1;  
2000 ON<sub>66</sub> \*, 4, 2, 1; 2000 OO<sub>66</sub> \*, 4, 2, 1; 2000 OP<sub>66</sub> \*, 4, 2, 1; 2000 OQ<sub>66</sub> \*, 4, 2, 1; 2000 OR<sub>66</sub> \*,  
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2000 OF<sub>67</sub> \*, 4, 2, 1; 2000 OG<sub>67</sub> \*, 4, 2, 1; 2000 PG<sub>2</sub>, 2, 1, 0; 2000 PC<sub>16</sub>, 2, 1, 0; 2000 PO<sub>16</sub>, 2, 1,  
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2, 1, 0; 2000 QW<sub>94</sub>, 2, 1, 0; 2000 KQ<sub>109</sub>, 2, 1, 0; 2000 KM<sub>110</sub>, 2, 1, 0; 2000 QT<sub>110</sub>, 2, 1, 0;  
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2000 QB<sub>202</sub>, 2, 1, 0; 2000 QG<sub>202</sub>, 4, 2, 1; 2000 QH<sub>202</sub>, 2, 1, 0; 2000 QP<sub>203</sub>, 2, 1, 0; 2000 QG<sub>205</sub>,  
2, 1, 0; 2000 HQ<sub>205</sub>, 2, 1, 0; 2000 QZ<sub>205</sub>, 2, 1, 0; 2000 QZ<sub>208</sub>, 2, 1, 0; 2000 QD<sub>209</sub>, 2, 1, 0;  
2000 QN<sub>210</sub>, 2, 1, 0; 2000 QO<sub>210</sub>, 2, 1, 0; 2000 QQ<sub>210</sub>, 2, 1, 0; 2000 QU<sub>210</sub>, 2, 1, 0; 2000 QX<sub>211</sub>,  
2, 1, 0; 2000 QL<sub>212</sub>, 2, 1, 0; 2000 QR<sub>214</sub>, 2, 1, 0; 2000 QE<sub>215</sub>, 2, 1, 0; 2000 QH<sub>216</sub>, 2, 1, 0;  
2000 QV<sub>218</sub>, 2, 1, 0; 2000 QE<sub>219</sub>, 2, 1, 0; 2000 QJ<sub>219</sub>, 2, 1, 0; 2000 QM<sub>219</sub>, 2, 1, 0; 2000 QN<sub>219</sub>,  
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2000 QS<sub>223</sub>, 4, 2, 3; 2000 QZ<sub>224</sub>, 2, 1, 0; 2000 QA<sub>225</sub>, 2, 1, 0; 2000 QA<sub>226</sub>, 2, 1, 0; 2000 QK<sub>228</sub>,  
2, 1, 0; 2000 QQ<sub>228</sub>, 2, 1, 0; 2000 QS<sub>230</sub>, 2, 1, 0; 2000 QR<sub>231</sub>, 4, 2, 1; 2000 QW<sub>231</sub>, 2, 1, 0;  
2000 QK<sub>232</sub> \*, 4, 2, 1; 2000 QL<sub>232</sub> \*, 4, 2, 1; 2000 QM<sub>232</sub> \*, 4, 2, 1; 2000 QN<sub>232</sub> \*, 4, 2, 1;  
2000 QO<sub>232</sub> \*, 4, 2, 1; 2000 PQ<sub>232</sub> \*, 4, 2, 1; 2000 QQ<sub>232</sub> \*, 4, 2, 1; 2000 QR<sub>232</sub> \*, 4, 2, 1;  
2000 QS<sub>232</sub> \*, 4, 2, 1; 2000 QT<sub>232</sub> \*, 4, 2, 1; 2000 QU<sub>232</sub> \*, 4, 2, 3; 2000 QV<sub>232</sub> \*, 4, 2, 1;  
2000 QW<sub>232</sub> \*, 4, 2, 1; 2000 QX<sub>232</sub> \*, 4, 2, 1; 2000 QY<sub>232</sub> \*, 4, 2, 1; 2000 QZ<sub>232</sub> \*, 4, 2, 1;  
2000 QA<sub>233</sub> \*, 4, 2, 2; 2000 QB<sub>233</sub> \*, 4, 2, 2; 2000 QC<sub>233</sub> \*, 4, 2, 2; 2000 QD

2000 QD<sub>238</sub> \*, 4, 2, 1; 2000 QE<sub>238</sub> \*, 4, 2, 1; 2000 QF<sub>238</sub> \*, 4, 2, 1; 2000 QG<sub>238</sub> \*, 4, 2, 1;  
2000 QH<sub>238</sub> \*, 4, 2, 1; 2000 QJ<sub>238</sub> \*, 4, 2, 1; 2000 QK<sub>238</sub> \*, 4, 2, 3; 2000 QL<sub>238</sub> \*, 4, 2, 3;  
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2000 QQ<sub>238</sub> \*, 4, 2, 3; 2000 QR<sub>238</sub> \*, 4, 2, 3; 2000 QS<sub>238</sub> \*, 4, 2, 3; 2000 QT<sub>238</sub> \*, 4, 2, 3;  
2000 QU<sub>238</sub> \*, 4, 2, 3; 2000 QV<sub>238</sub> \*, 4, 2, 3; 2000 QW<sub>238</sub> \*, 4, 2, 3; 2000 QX<sub>238</sub> \*, 4, 2, 3;  
2000 QY<sub>238</sub> \*, 4, 2, 1; 2000 QZ<sub>238</sub> \*, 4, 2, 2; 2000 QA<sub>239</sub> \*, 4, 2, 2; 2000 QB<sub>239</sub> \*, 4, 2, 2;  
2000 QC<sub>239</sub> \*, 4, 2, 2; 2000 QD<sub>239</sub> \*, 4, 2, 2; 2000 QE<sub>239</sub> \*, 4, 2, 2; 2000 QF<sub>239</sub> \*, 4, 2, 2;  
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2000 QL<sub>239</sub> \*, 4, 2, 1; 2000 QM<sub>239</sub> \*, 4, 2, 1; 2000 QN<sub>239</sub> \*, 6, 3, 3; 2000 QO<sub>239</sub> \*, 4, 2, 1;  
2000 QP<sub>239</sub> \*, 4, 2, 1; 2000 QQ<sub>239</sub> \*, 4, 2, 1; 2000 QR<sub>239</sub> \*, 4, 2, 1; 2000 QS<sub>239</sub> \*, 4, 2, 1;  
2000 QT<sub>239</sub> \*, 4, 2, 2; 2000 QU<sub>239</sub> \*, 4, 2, 2; 2000 QV<sub>239</sub> \*, 4, 2, 2; 2000 QW<sub>239</sub> \*, 4, 2, 2;  
2000 QX<sub>239</sub> \*, 4, 2, 2; 2000 QY<sub>239</sub> \*, 4, 2, 2; 2000 QZ<sub>239</sub> \*, 4, 2, 2; 2000 QA<sub>240</sub> \*, 4, 2, 2;  
2000 QB<sub>240</sub> \*, 4, 2, 2; 2000 QC<sub>240</sub> \*, 4, 2, 2; 2000 QD<sub>240</sub> \*, 4, 2, 2; 2000 QE<sub>240</sub> \*, 4, 2, 2;  
2000 QF<sub>240</sub> \*, 4, 2, 2; 2000 QG<sub>240</sub> \*, 4, 2, 2; 2000 QH<sub>240</sub> \*, 4, 2, 2; 2000 QJ<sub>240</sub> \*, 4, 2, 2;  
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2000 QO<sub>240</sub> \*, 4, 2, 1; 2000 QP<sub>240</sub> \*, 4, 2, 1; 2000 QQ<sub>240</sub> \*, 4, 2, 1; 2000 QR<sub>240</sub> \*, 4, 2, 1;  
2000 QS<sub>240</sub> \*, 4, 2, 1; 2000 QT<sub>240</sub> \*, 4, 2, 1; 2000 QU<sub>240</sub> \*, 4, 2, 1; 2000 QV<sub>240</sub> \*, 4, 2, 1;  
2000 QW<sub>240</sub> \*, 4, 2, 1; 2000 QX<sub>240</sub> \*, 4, 2, 1; 2000 QY<sub>240</sub> \*, 4, 2, 1; 2000 QZ<sub>240</sub> \*, 4, 2, 1;  
2000 QA<sub>241</sub> \*, 4, 2, 1; 2000 QB<sub>241</sub> \*, 4, 2, 1; 2000 QC<sub>241</sub> \*, 4, 2, 1; 2000 QD<sub>241</sub> \*, 4, 2, 1;  
2000 QE<sub>241</sub> \*, 4, 2, 1; 2000 QF<sub>241</sub> \*, 4, 2, 1; 2000 QG<sub>241</sub> \*, 4, 2, 1; 2000 QH<sub>241</sub> \*, 4, 2, 1;  
2000 QJ<sub>241</sub> \*, 4, 2, 1; 2000 QK<sub>241</sub> \*, 4, 2, 1; 2000 QL<sub>241</sub> \*, 4, 2, 1; 2000 QM<sub>241</sub> \*, 4, 2, 1;  
2000 QN<sub>241</sub> \*, 4, 2, 2; 2000 QO<sub>241</sub> \*, 4, 2, 2; 2000 QP<sub>241</sub> \*, 4, 2, 2; 2000 QQ<sub>241</sub> \*, 4, 2, 2;  
2000 QR<sub>241</sub> \*, 4, 2, 2; 2000 QS<sub>241</sub> \*, 4, 2, 2; 2000 QT<sub>241</sub> \*, 4, 2, 2; 2000 QU<sub>241</sub> \*, 4, 2, 2;  
2000 QV<sub>241</sub> \*, 4, 2, 1; 2000 QW<sub>241</sub> \*, 4, 2, 1; 2000 QX<sub>241</sub> \*, 4, 2, 1; 2000 QY<sub>241</sub> \*, 4, 2, 1;  
2000 QZ<sub>241</sub> \*, 4, 2, 1; 2000 QA<sub>242</sub> \*, 4, 2, 1; 2000 QB<sub>242</sub> \*, 4, 2, 1; 2000 QC<sub>242</sub> \*, 4, 2, 1;  
2000 QD<sub>242</sub> \*, 4, 2, 1; 2000 QE<sub>242</sub> \*, 4, 2, 1; 2000 QF<sub>242</sub> \*, 4, 2, 1; 2000 QG<sub>242</sub> \*, 4, 2, 1;  
2000 QH<sub>242</sub> \*, 4, 2, 1; 2000 QJ<sub>242</sub> \*, 4, 2, 1; 2000 QK<sub>242</sub> \*, 4, 2, 1; 2000 QL<sub>242</sub> \*, 4, 2, 1;  
2000 QM<sub>242</sub> \*, 4, 2, 1; 2000 QN<sub>242</sub> \*, 4, 2, 1; 2000 QO<sub>242</sub> \*, 4, 2, 1; 2000 QP<sub>242</sub> \*, 4, 2, 1;  
2000 QQ<sub>242</sub> \*, 4, 2, 1; 2000 QR<sub>242</sub> \*, 4, 2, 1; 2000 QS<sub>242</sub> \*, 4, 2, 1; 2000 QT<sub>242</sub> \*, 4, 2, 1;  
2000 QU<sub>242</sub> \*, 4, 2, 1; 2000 QV<sub>242</sub> \*, 4, 2, 1; 2000 QW<sub>242</sub> \*, 4, 2, 1; 2000 QX<sub>242</sub> \*, 4, 2, 1;  
2000 QY<sub>242</sub> \*, 4, 2, 1; 2000 RE<sub>65</sub>, 2, 1, 0; 2000 RR<sub>77</sub>, 4, 2, 2; 2000 RP<sub>78</sub>, 2, 1, 0; 2000 RR<sub>84</sub>, 2,  
1, 0; 2000 RS<sub>84</sub>, 2, 1, 0; 2000 RB<sub>85</sub>, 2, 1, 0; 2000 RF<sub>88</sub>, 2, 1, 0; 2000 RF<sub>100</sub>, 2, 1, 0; 2000 SU<sub>29</sub>,  
2, 1, 0; 2000 SJ<sub>30</sub>, 4, 2, 3; 2000 SH<sub>31</sub>, 2, 1, 0; 2000 SW<sub>31</sub>, 2, 1, 0; (120), 2, 1, 0; (149), 2, 1, 0;  
(159), 2, 1, 0; (168), 1, 1, 0; (355), 4, 2, 1; (524), 2, 1, 0; (545), 2, 1, 0; (549), 2, 1, 0; (551), 2, 1,  
0; (738), 2, 1, 0; (949), 2, 1, 0; (975), 2, 1, 0; (1068), 2, 1, 0; (1092), 2, 1, 0; (1258), 2, 1, 0; (1496),  
2, 1, 0; (1699), 2, 1, 0; (1878), 2, 1, 0; (1953), 2, 1, 0; (2201), 2, 1, 0; (2248), 2, 1, 0; (2674), 2,  
1, 0; (2745), 2, 1, 0; (2884), 4, 2, 27; (3186), 2, 1, 0; (3230), 2, 1, 0; (3711), 2, 1, 0; (4172), 2,  
1, 0; (4256), 2, 1, 0; (4273), 2, 1, 0; (4429), 2, 1, 0; (4434), 4, 2, 1; (4550), 2, 1, 0; (4605), 2, 1,  
0; (4606), 2, 1, 0; (4718), 2, 1, 0; (5078), 2, 1, 0; (5219), 4, 2, 1; (5494), 2, 1, 0; (6421), 2, 1,  
0; (6468), 2, 1, 0; (7047), 2, 1, 0; (7070), 2, 1, 0; (7347), 2, 1, 0; (7429), 2, 1, 0; (7432), 2, 1,<

## 808 Carlos U. Cesco Observatory, El Leoncito

C. E. Lopez, Felix Aguilar Observatory, Benavidez 8175 (Oeste), AR-5407

Marquesado-San Juan, Argentina [clopez@iinfo.unsj.edu.ar]

Observers C. E. Lopez, H. S. Lepez, J. E. Torres, M. R. Cesco, J. A. Vicentela,

R. A. Gil Hutton

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

GSC-1.1

1990 TP<sub>7</sub>, 2, 1, 0; 1991 SY, 2, 1, 0; 1993 FB<sub>40</sub>, 2, 1, 0; 1996 WU<sub>2</sub>, 2, 1, 0; 1997 BC<sub>2</sub>, 2, 1, 0;

1998 RO<sub>1</sub>, 2, 1, 0; 1999 JJ<sub>126</sub>, 2, 1, 0; 1999 KV<sub>4</sub>, 2, 1, 0; 1999 SW<sub>7</sub>, 2, 1, 0; 2000 FN<sub>10</sub>, 2, 1, 0;

2000 NX<sub>3</sub>, 2, 1, 0; 2000 ON, 2, 1, 0; 2000 OY<sub>21</sub>, 4, 2, 21; 2000 OB<sub>22</sub>, 2, 1, 0; 2000 PG<sub>3</sub>, 1, 1, 0; 2000 PZ<sub>5</sub>, 2, 1, 0; 2000 PH<sub>6</sub>, 2, 1, 0; 2000 PN<sub>9</sub>, 2, 1, 0; 2000 QW<sub>7</sub>, 2, 1, 0; 2000 QC<sub>34</sub>, 2, 1, 0; 2000 QM<sub>50</sub>, 1, 1, 0; 2000 QJ<sub>130</sub>, 4, 2, 19; 2000 QN<sub>130</sub>, 2, 1, 0; 2000 QE<sub>182</sub>, 2, 1, 0; 2000 RS<sub>11</sub>, 1, 1, 0; 2000 RD<sub>53</sub>, 14, 4, 9; 2000 SV<sub>2</sub>, 2, 1, 0; 2000 SY<sub>2</sub>, 2, 1, 0; 2000 SB<sub>8</sub>, 7, 3, 0; 2000 SC<sub>8</sub>, 2, 1, 0; 2000 SF<sub>8</sub>, 7, 2, 1; 2000 SH<sub>8</sub>, 15, 3, 2; 2000 SR<sub>42</sub>, 3, 1, 0; 2000 SP<sub>43</sub>, 3, 1, 0; 1054 T-2, 2, 1, 0; (587), 2, 1, 0; (617), 2, 1, 0; (730), 2, 1, 0; (1362), 2, 1, 0; (1951), 2, 1, 0; (2100), 2, 1, 0; (2204), 4, 2, 9; (3040), 2, 1, 0; (3752), 2, 1, 0; (3753), 2, 1, 0; (4486), 2, 1, 0; (4601), 2, 1, 0; (4857), 4, 2, 9; (5224), 2, 1, 0; (5649), 4, 2, 17; (5751), 2, 1, 0; (6443), 2, 1, 0; (6450), 2, 1, 0; (6488), 2, 1, 0; (7160), 2, 1, 0; (7457), 2, 1, 0; (8013), 2, 1, 0; (8548), 2, 1, 0; (8741), 1, 1, 0; (9457), 2, 1, 0; (9511), 4, 2, 2; (10843), 2, 1, 0; (11177), 2, 1, 0; (11554), 2, 1, 0; (11622), 2, 1, 0; (16382), 2, 1, 0; (16437), 2, 1, 0; (16491), 2, 1, 0; (16508), 2, 1, 0; (16521), 2, 1, 0; (16564), 2, 1, 0; (16573), 2, 1, 0; (16585), 2, 1, 0; (16639), 2, 1, 0; (16667), 2, 1, 0; (16718), 2, 1, 0; (16923), 2, 1, 0; (17015), 2, 1, 0; (17028), 1, 1, 0; (17043), 2, 1, 0; (17081), 1, 1, 0; (17117), 2, 1, 0; (17130), 2, 1, 0; [209, 83, 0\*, 1995/11/16–2007/07/07]

### 809 European Southern Observatory

H. Debehogne, Observatoire Royal de Belgique, Avenue Circulaire 3, B-1180

Brussels, Belgium [henri@astro.oma.be] (3)

E. W. Elst, Observatoire Royal de Belgique, Avenue Circulaire 3, B-1180 Brussels, Belgium [elst@atmos.oma.be] (4)

B. Gladman, Observatoire de Nice, Department Cassini, BP 229, F-06304 Nice Cedex 4, France [gladman@obs-nice.fr] (6)

7 = 3 + 4

C.-I. Lagerkvist, Uppsala Observatory, Box 515, S-75120 Uppsala, Sweden

[classe@astro.uu.se] (8)

Observers G. Pizarro, O. Pizarro, A. Nathues, H. Debehogne, F. Colas, S. Mottola, C. Delahodde, M. Vair, G. Szokoly

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

1.0-m Schmidt, Bochum telescope + CCD

USNO-A2.0

{4} 1991 AT<sub>2</sub>, 3, 1, 0; 1992 RU<sub>2</sub>, 3, 1, 0; 1992 RK<sub>5</sub>, 3, 1, 0; 1992 SR<sub>19</sub>, 1, 1, 0; 1993 UR<sub>4</sub>, 3, 1, 0; 1993 UH<sub>6</sub>, 3, 1, 0; 1994 AA<sub>6</sub>, 3, 1, 0; 1994 PO<sub>20</sub>, 3, 1, 0; 1994 PD<sub>25</sub>, 3, 1, 0; 1994 RS<sub>14</sub>, 3, 1, 0; 1994 RS<sub>28</sub>, 3, 1, 0; 1996 HP<sub>22</sub>, 3, 1, 0; 1996 HO<sub>24</sub>, 3, 1, 0; 1996 KS<sub>4</sub>, 3, 1, 0; 1996 KW<sub>7</sub>, 3, 1, 0; 1996 PN<sub>2</sub>, 3, 1, 0; 1996 PT<sub>3</sub>, 3, 1, 0; 1996 PT<sub>5</sub>, 3, 1, 0; 1996 PA<sub>8</sub>, 3, 1, 0; 1996 PN<sub>9</sub>, 3, 1, 0; 1997 HJ<sub>13</sub>, 3, 1, 0; 1997 LS<sub>8</sub>, 3, 1, 0; 1997 LK<sub>13</sub>, 3, 1, 0; 1997 YL<sub>10</sub>, 3, 1, 0; 1998 AC<sub>6</sub>, 3, 1, 0; 1998 DA<sub>35</sub>, 3, 1, 0; 1998 EC<sub>11</sub>, 3, 1, 0; 1998 ES<sub>12</sub>, 3, 1, 0; 1998 EQ<sub>13</sub>, 3, 1, 0; 1998 EE<sub>19</sub>, 3, 1, 0; 1998 FD<sub>16</sub>, 3, 1, 0; 1998 FX<sub>20</sub>, 3, 1, 0; 1998 FE<sub>21</sub>, 3, 1, 0; 1998 QE<sub>76</sub>, 6, 2, 9; 1998 SW<sub>77</sub>, 3, 1, 0; 1998 TR<sub>19</sub>, 3, 1, 0; 1999 AB<sub>13</sub>, 3, 1, 0; 1999 JP<sub>22</sub>, 3, 1, 0; 1999 JK<sub>60</sub>, 3, 1, 0; 1999 JC<sub>83</sub>, 3, 1, 0; 1999 JO<sub>92</sub>, 6, 2, 1; 1999 JU<sub>98</sub>, 3, 1, 0; 1999 JQ<sub>125</sub>, 3, 1, 0; 1999 RF<sub>174</sub>, 3, 1, 0; 1999 TS<sub>139</sub>, 3, 1, 0; 1999 VD<sub>114</sub>, 9, 2, 7; 1999 XN<sub>78</sub>, 3, 1, 0; 1999 XV<sub>87</sub>, 3, 1, 0; 1999 XC<sub>119</sub>, 3, 1, 0; 2000 DF<sub>74</sub>, 3, 1, 0; 2000 OU<sub>52</sub>, 3, 1, 0; 2000 PO<sub>16</sub>, 3, 1, 0; 2000 QO<sub>102</sub>, 3, 1, 0; 2000 QR<sub>140</sub>, 3, 1, 0; 2000 QO<sub>148</sub>, 3, 1, 0; 2000 QT<sub>183</sub>, 3, 1, 0; 2000 QW<sub>201</sub>, 6, 2, 10; 2000 RU<sub>23</sub>, 3, 1, 0; 2000 RR<sub>33</sub>, 3, 1, 0; 2000 RG<sub>91</sub>, 3, 1, 0; 2000 SR<sub>11</sub>, 3, 1, 0; [196, 61, 0\*, 1992/05/03–1998/09/23]

{6} 1997 RT<sub>5</sub>, 3, 1, 0; 1998 KG<sub>62</sub>, 2, 1, 0; 1998 KR<sub>65</sub>, 3, 1, 0; 1998 KS<sub>65</sub>, 3, 1, 0; 1998 SN<sub>165</sub>, 3, 1, 0; 1999 OX<sub>3</sub>, 2, 1, 0; 1999 OA<sub>4</sub>, 3, 1, 0; 1999 OG<sub>4</sub>, 6, 2, 5; 1999 OK<sub>4</sub>, 6, 2, 1; 1999 RA<sub>215</sub>, 6, 2, 1; 2000 OY<sub>51</sub>, 6, 2, 1; 2000 PQ<sub>30</sub> \*, 6, 2, 5; 2000 PR<sub>30</sub> \*, 6, 2, 1; 2000 PS<sub>30</sub> \*, 6, 2, 1; [61, 14, 3\*, 2000/08/03–2000/08/08]

{7} 1993 TR<sub>14</sub>, 3, 1, 0; 1993 TE<sub>19</sub>, 3, 1, 0; 1993 TR<sub>19</sub>, 3, 1, 0; 1993 TN<sub>20</sub>, 3, 1, 0; 1993 TK<sub>21</sub>, 3, 1, 0; 1993 TO<sub>21</sub>, 3, 1, 0; 1993 TY<sub>47</sub>, 3, 1, 0; 1995 UQ<sub>15</sub>, 6, 2, 1; 1999 XM<sub>166</sub>, 6, 2, 10; 2000 DM<sub>19</sub>, 3, 1, 0; 2000 QP<sub>126</sub>, 3, 1, 0; 2000 SN<sub>185</sub>, 3, 1, 0; 3113 T-1, 3, 1, 0; [45, 13, 0\*, 1993/09/22–1994/07/12]

{8} 1981 EE<sub>33</sub>, 2, 2, 2; 1995 SX<sub>36</sub>, 3, 3, 24; 1996 BG<sub>17</sub>, 10, 10, 34; 1996 TG<sub>47</sub>, 1, 1, 0; 1996 TH<sub>49</sub>, 1, 1, 0; 1996 VL<sub>3</sub>, 2, 2, 2; 1997 AP<sub>18</sub>, 3, 3, 3; 1997 BS<sub>2</sub>, 6, 6, 34; 1998 DR<sub>13</sub>, 2, 1, 0; 1998 EJ<sub>6</sub>, 2, 2, 2; 1998 EW<sub>9</sub>, 2, 1, 0; 1998 FR<sub>22</sub>, 2, 2, 2; 1998 FA<sub>26</sub>, 2, 2, 2; 1998 FJ<sub>27</sub>, 2, 2, 2; 1998 FO<sub>37</sub>, 2, 2, 2; 1998 FY<sub>37</sub>, 2, 2, 2; 1998 FD<sub>44</sub>, 3, 3, 3; 1998 FG<sub>50</sub>, 2, 1, 0; 1998 FE<sub>64</sub>, 8, 6, 5; 1998 FO<sub>128</sub>, 2, 2, 2; 1998 HE<sub>30</sub>, 10, 8, 30; 1999 FT<sub>20</sub>, 1, 1, 0; 1999 JA<sub>36</sub>, 2, 2, 1; 1999 JA<sub>67</sub>, 2, 2, 1; 1999 JL<sub>68</sub>, 1, 1, 0; 1999 LQ<sub>2</sub>, 2, 1, 0; 1999 RK<sub>81</sub>, 4, 4, 25; 1999 RF<sub>84</sub>, 1, 1, 0; 1999 TA<sub>7</sub>, 5, 5, 34; 1999 TR<sub>131</sub>, 2, 2, 1; 1999 TS<sub>153</sub>, 1, 1, 0; 1999 TT<sub>176</sub>, 13, 12, 29; 1999 TG<sub>204</sub>, 5, 4, 30; 1999 TD<sub>217</sub>, 10, 8, 28; 1999 TM<sub>218</sub>, 4, 4, 22; 1999 TZ<sub>272</sub>, 2, 2, 1; 1999 US<sub>52</sub>, 2, 2, 2; 1999 VN<sub>18</sub>, 1, 1, 0; 1999 VN<sub>55</sub>, 2, 2, 2; 1999 VW<sub>86</sub>, 6, 5, 5; 1999 VN<sub>192</sub>, 1, 1, 0; 1999 VT<sub>194</sub>, 3, 3, 31; 1999 XJ<sub>43</sub>, 2, 2, 1;

1999 XV<sub>52</sub>, 4, 4, 4; 1999 XY<sub>111</sub>, 3, 3, 5; 1999 XJ<sub>171</sub>, 6, 5, 26; 2000 AJ<sub>9</sub>, 2, 2, 1; 2000 AL<sub>112</sub>, 3, 3, 3; 2000 AD<sub>120</sub>, 2, 2, 2; 2000 CW<sub>55</sub>, 9, 7, 23; 2000 QY<sub>41</sub>, 5, 4, 4; 2000 QT<sub>116</sub>, 3, 3, 23; 2000 QF<sub>135</sub>, 3, 3, 3; 2000 QD<sub>144</sub>, 12, 10, 30; 2000 QU<sub>209</sub>, 2, 2, 1; 2000 QG<sub>212</sub>, 4, 4, 26; 2000 QT<sub>230</sub>, 3, 3, 3; 2000 RY<sub>64</sub>, 7, 7, 34; 2000 RL<sub>68</sub>, 1, 1, 0; 2000 RX<sub>77</sub>, 2, 2, 1; 2000 RH<sub>93</sub>, 1, 1, 0; [213, 61, 0\*, 1995/08/19–1998/03/02]

### 829 Complejo Astronómico El Leoncito

R. Gil-Hutton, Felix Aguilar Observatory, Av. Benavidez 8175 oeste, AR- 5407 San Juan, Argentina [rgilhutton@casleo.gov.ar]

Observers R. Gil-Hutton, M. Cañada

Measurers R. Gil-Hutton, C. E. López

2.15-m  $f/2.8$  reflector + CCD

USNO-A1.0

1998 KG<sub>62</sub>, 2, 1, 0; (15807), 2, 1, 0; [4, 2, 0\*, 1999/03/10–1999/06/10]

### 842 Gettysburg College Observatory

G. A. Snyder, Gettysburg College, 300 N. Washington Street, Gettysburg, PA 17325, U.S.A. [gsnyder@gettysburg.edu]

Observer L. Marshall

Measurer G. A. Snyder

0.4-m  $f/11.5$  reflector + CCD

USNO-A2.0, GSC-ACT

1999 JF<sub>21</sub>, 4, 1, 0; 2000 DP<sub>107</sub>, 8, 1, 0; 2000 OL, 2, 1, 0; (712), 3, 1, 0; (17279), 3, 1, 0; [20, 5, 0\*, 2000/09/18–2000/10/01]

### 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

1981 EX<sub>9</sub>, 7, 2, 1; 1981 ET<sub>20</sub>, 6, 2, 2; 1995 CM, 7, 2, 1; 1999 JP<sub>72</sub>, 7, 2, 1; 2000 QC, 6, 2, 1; 2000 QM<sub>6</sub>, 6, 2, 1; 2000 QO<sub>6</sub>, 6, 2, 1; 2000 QD<sub>25</sub>, 6, 2, 1; 2000 QO<sub>207</sub>, 6, 2, 1; 2000 RZ<sub>8</sub>, 7, 2, 1; 2000 RN<sub>29</sub>, 3, 1, 0; 2000 RQ<sub>29</sub>, 3, 1, 0; 2000 SJ \*, 14, 4, 11; 2000 SK \*, 14, 4, 11; 2000 SQ<sub>89</sub> \*, 7, 2, 1; 2000 SR<sub>89</sub> \*, 6, 2, 1; 2000 SS<sub>89</sub> \*, 6, 2, 1; 2000 ST<sub>89</sub> \*, 6, 2, 1; 2000 SU<sub>89</sub> \*, 6, 2, 1; 2000 SR<sub>112</sub>, 7, 2, 1; 2000 SP<sub>166</sub>, 4, 1, 0; 2000 TM \*, 7, 2, 1; 2000 TN \*, 6, 2, 1; 2000 TO \*, 7, 2, 1; 2000 TP \*, 7, 2, 1; 2000 TQ \*, 7, 2, 1; 2000 TS<sub>32</sub> \*, 7, 2, 1; 2000 TV<sub>33</sub> \*, 7, 2, 1; [188, 28, 14\*, 2000/09/19–2000/10/09]

### 846 Principia Astronomical Observatory, Elsayh

D. A. Cornell, Physics Department, Principia College, Elsayh, IL 62028, U.S.A.

[dcorn@prin.edu]

Observers C. Hooper, D. Cornell

0.41-m  $f/10$  reflector + CCD

USNO-A2.0

2000 RD<sub>53</sub>, 3, 1, 0; [3, 1, 0\*, 2000/09/17]

### 848 Tenagra Observatory, Cottage Grove

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

Observer M. Schwartz

Measurer P. R. Holvorcem

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

GSC-ACT, USNO-A2.0

2000 SL, 9, 1, 0; [9, 1, 0\*, 2000/09/19]

### 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

1988 LG<sub>10</sub>, 10, 3, 3; 1990 KD<sub>1</sub>, 3, 1, 0; 1990 VX<sub>6</sub>, 3, 1, 0; 1997 BC<sub>2</sub>, 11, 3, 3; 1998 FG<sub>72</sub>, 3, 1, 0; 1998 HY<sub>93</sub>, 5, 1, 0; 1998 KY<sub>53</sub>, 6, 2, 1; 1999 GE<sub>34</sub>, 6, 2, 1; 1999 JQ<sub>80</sub>, 3, 1, 0; 1999 JK<sub>97</sub>, 12, 3, 3; 1999 NA<sub>3</sub>, 3, 1, 0; 2000 LK<sub>20</sub>, 8, 3, 2; 2000 QD<sub>71</sub>, 4, 1, 0; 2000 QV<sub>114</sub>, 4, 1, 0; 2000 RJ<sub>47</sub>, 7, 2, 1; 2000 SA<sub>10</sub>, 5, 1, 0; 2000 SQ<sub>23</sub> \*, 15, 3, 8; 2000 SQ<sub>42</sub>, 4, 1, 0; 2000 SP<sub>43</sub>, 6, 2, 1; 2000 SY<sub>162</sub>, 3, 1, 0; 2000 SU<sub>180</sub>, 2, 1, 0; 5149 T-2, 6, 2, 1; *[129, 22, 1\*, 2000/09/16–2000/10/09]*

### 853 Biosphere 2 Observatory

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

0.60-m  $f/8.0$  reflector

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

2000 QP<sub>2</sub>, 2, 1, 0; 2000 QU<sub>7</sub>, 2, 1, 0; 2000 QC<sub>34</sub>, 2, 1, 0; 2000 QD<sub>48</sub>, 3, 1, 0; 2000 QW<sub>69</sub>, 2, 1, 0; 2000 QY<sub>69</sub>, 2, 1, 0; 2000 QD<sub>90</sub>, 5, 1, 0; 2000 QK<sub>130</sub>, 3, 1, 0; 2000 QO<sub>130</sub>, 3, 1, 0; 2000 QX<sub>196</sub>, 3, 1, 0; 2000 QS<sub>226</sub>, 3, 1, 0; 2000 RN<sub>12</sub>, 3, 1, 0; 2000 RV<sub>37</sub>, 2, 1, 0; 2000 RE<sub>52</sub>, 3, 1, 0; 2000 RH<sub>60</sub>, 3, 1, 0; 2000 RN<sub>77</sub>, 2, 1, 0; 2000 SL<sub>6</sub>, 2, 1; 2000 SV<sub>2</sub>, 3, 1, 0; 2000 SX<sub>2</sub>, 2, 1, 0; 2000 SY<sub>2</sub>, 3, 1, 0; 2000 SB<sub>8</sub>, 3, 1, 0; 2000 SD<sub>8</sub>, 2, 1, 0; 2000 SE<sub>8</sub>, 3, 1, 0; 2000 SF<sub>8</sub>, 3, 1, 0; 2000 SG<sub>8</sub>, 2, 1, 0; 2000 SH<sub>8</sub>, 3, 1, 0; 2000 SJ<sub>8</sub>, 3, 1, 0; (8), 29, 5, 12; (9), 29, 5, 12; (27), 23, 4, 14; (381), 9, 1, 0; (451), 5, 1, 0; (675), 9, 2, 2; (704), 23, 2, 1; *[203, 34, 0\*, 2000/09/07–2000/09/23]*

### 858 Tebbutt Observatory, Edgewood

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

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

USNO-SA2.0

2000 QY<sub>69</sub>, 3, 1, 0; 2000 QK<sub>130</sub>, 3, 1, 0; 2000 RW<sub>37</sub>, 3, 1, 0; 2000 RH<sub>60</sub>, 3, 1, 0; 2000 RJ<sub>60</sub>, 3, 1, 0; 2000 SD<sub>8</sub>, 3, 1, 0; 2000 SG<sub>8</sub>, 3, 1, 0; 2000 SJ<sub>8</sub>, 3, 1, 0; 2000 SS<sub>20</sub>, 3, 1, 0; 2000 ST<sub>20</sub>, 3, 1, 0; 2000 SV<sub>20</sub>, 3, 1, 0; 2000 SQ<sub>23</sub> \*, 9, 3, 5; 2000 SP<sub>23</sub> \*, 9, 3, 5; 2000 SN<sub>42</sub>, 6, 2, 1; 2000 SO<sub>42</sub>, 5, 2, 1; 2000 SP<sub>43</sub>, 4, 1, 0; 2000 SR<sub>43</sub>, 2, 1, 0; 2000 SA<sub>45</sub>, 3, 1, 0; 2000 SX<sub>162</sub>, 2, 1, 0; 2000 SY<sub>162</sub>, 3, 1, 0; 2000 SZ<sub>162</sub>, 3, 1, 0; 2000 SU<sub>180</sub>, 3, 1, 0; 2000 SV<sub>180</sub>, 3, 1, 0; (9454), 3, 1, 0; *[88, 24, 2\*, 2000/09/26–2000/10/01]*

### 859 Serra da Piedade

C. Jacques, P.O. Box 1084, Belo Horizonte, Minas Gerais, BR-30000 Brazil [[cjacques@unix.horizontes.com.br](mailto:cjacques@unix.horizontes.com.br)]

Observers C. Jacques, G. Nappi, L. Duczmal, D. Weaver, J. Diniz, J. Duczmal, C. Magno

Measurer C. Jacques

0.30-m  $f/3.3$  reflector + CCD

GSC

2000 QW<sub>7</sub>, 4, 1, 0; 2000 SY<sub>2</sub>, 4, 1, 0; 2000 SB<sub>8</sub>, 4, 1, 0; 2000 SC<sub>8</sub>, 3, 1, 0; 2000 SF<sub>8</sub>, 3, 1, 0; 2000 SH<sub>8</sub>, 3, 1, 0; 2000 SL<sub>10</sub>, 3, 1, 0; 2000 SN<sub>10</sub>, 3, 1, 0; (433), 4, 1, 0; (2100), 4, 1, 0; (4179), 3, 1, 0; (4486), 4, 1, 0; (17274), 4, 1, 0; *[46, 13, 0\*, 2000/09/24–2000/09/25]*

### 860 Valinhos

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

1998 TU<sub>3</sub>, 3, 1, 0; 2000 LB<sub>27</sub>, 3, 1, 0; 2000 ON<sub>16</sub>, 2, 1, 0; 2000 OA<sub>25</sub>, 2, 1, 0; 2000 OH<sub>26</sub>, 3, 1, 0; 2000 QW<sub>7</sub>, 3, 1, 0; 2000 QE<sub>25</sub>, 2, 1, 0; 2000 QF<sub>34</sub>, 3, 1, 0; 2000 QN<sub>130</sub>, 3, 1, 0; 2000 QC<sub>184</sub>, 1, 1, 0; 2000 QF<sub>231</sub>, 2, 1, 0; 2000 QF<sub>231</sub>, 2, 1, 0; 2000 RU<sub>47</sub>, 3, 1, 0; 2000 RD<sub>68</sub>, 3, 1, 0; 2000 RL<sub>77</sub>, 3, 1, 0; 2000 SV<sub>2</sub>, 8, 2, 1; 2000 SY<sub>2</sub>, 15, 2, 1; 2000 SB<sub>8</sub>, 13, 3, 3; 2000 SC<sub>8</sub>, 16, 3, 3; 2000 SH<sub>8</sub>, 7, 2, 2; 2000 SA<sub>10</sub>, 3, 1, 0; 2000 SL<sub>10</sub>, 3, 1, 0; 2000 SN<sub>10</sub>, 4, 1, 0; 2000 SV<sub>20</sub>, 4, 1, 0; 2000 SP<sub>43</sub>, 4, 1, 0; 2000 TJ<sub>1</sub>, 3, 1, 0; (8344), 3, 1, 0; (16735), 4, 1, 0; *[125, 28, 0\*, 2000/08/26–2000/10/03]*

### 886 Susono

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

0.25-m  $f/6.3$  reflector + CCD

GSC

1997 WP<sub>7</sub>, 5, 2, 7; 1998 BU<sub>41</sub>, 2, 1, 0; 1999 BC<sub>2</sub>, 4, 2, 2; 2000 RX<sub>42</sub>, 9, 3, 7; *[20, 4, 0\*, 2000/09/18–2000/09/27]*

### 900 Moriyama

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

[[ikari@gold.ocn.ne.jp](mailto:ikari@gold.ocn.ne.jp)]

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

GSC-ACT, USNO-A2.0

1998 AF<sub>2</sub>, 2, 1, 0; 2000 DP<sub>107</sub>, 2, 1, 0; 2000 OG<sub>8</sub>, 4, 2, 12; 2000 OG<sub>44</sub>, 2, 1, 0; 2000 QF<sub>127</sub>, 2, 1, 0; 2000 RM<sub>12</sub>, 4, 2, 12; 2000 SH<sub>8</sub>, 2, 1, 0; 2000 SN<sub>10</sub>, 2, 1, 0; 2000 SF<sub>42</sub>, 4, 2, 3; 2000 SQ<sub>42</sub>, 2, 1, 0; 2000 SP<sub>43</sub>, 2, 1, 0; (17274), 4, 2, 14; *[32, 12, 0\*, 2000/09/05–2000/10/04]*

### 903 Fukuchiyama

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

[[myoshimi@silver.ocn.ne.jp](mailto:myoshimi@silver.ocn.ne.jp)]

Observer M. Yoshimi

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

GSC

1998 HW<sub>2</sub>, 2, 1, 0; 2000 PZ<sub>5</sub>, 2, 1, 0; 2000 QL<sub>7</sub>, 3, 1, 0; 2000 QW<sub>7</sub>, 3, 1, 0; 2000 SV<sub>20</sub>, 3, 1, 0; 2000 SF<sub>42</sub> \*, 14, 3, 5; (5860), 2, 1, 0; (10594), 2, 1, 0; *[31, 8, 1\*, 2000/09/04–2000/10/01]*

### 905 Nachi-Katsuura Observatory

T. Urata, 1-8, Dobayashi 1 Chome, Shimizu, Shizuoka-Ken 424, Japan

[[urata@sannet.ne.jp](mailto:urata@sannet.ne.jp)]

Observer Y. Shimizu

Measurer T. Urata

0.40-m  $f/3.3$  Baker-Schmidt

GSC

2000 SV<sub>44</sub> \*, 3, 2, 1; 2000 SW<sub>44</sub> \*, 4, 2, 1; *[7, 2, 2\*, 2000/09/26–2000/09/27]*

### 908 Toyama

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

0.43-m  $f/6$  reflector + CCD

GSC

(16769), 3, 1, 0; *[3, 1, 0\*, 2000/09/18]*

### 910 Caussols-ODAS

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

Measurers A. Maury, G. Hahn

0.90-m Schmidt + CCD

GSC

1992 DN<sub>9</sub>, 3, 1, 0; 1994 PJ<sub>28</sub>, 3, 1, 0; 1995 QL<sub>3</sub>, 3, 1, 0; 1997 WQ<sub>10</sub>, 3, 1, 0; 1997 WF<sub>32</sub>, 3, 1, 0; 1997 WR<sub>33</sub>, 3, 1, 0; 1997 WA<sub>34</sub>, 3, 1, 0; 1997 XM<sub>8</sub>, 3, 1, 0; 1998 BA<sub>29</sub>, 3, 1, 0; 1998 BQ<sub>29</sub>, 3, 1, 0; 1998 DG<sub>19</sub>, 6, 2, 32; 1998 EL<sub>19</sub>, 3, 1, 0; 1998 FO<sub>128</sub>, 3, 1, 0; 1998 FU<sub>134</sub>, 3, 1, 0; 1998 FQ<sub>136</sub>, 3, 1, 0; 1998 HX<sub>141</sub>, 3, 1, 0; 1998 WF<sub>6</sub>, 3, 1, 0; 1998 WX<sub>16</sub>, 3, 1, 0; 1998 YG<sub>8</sub>, 3, 1, 0; 1999 CN<sub>3</sub>, 3, 1, 0; 1999 CE<sub>49</sub>, 3, 1, 0; 1999 CO<sub>62</sub>, 6, 1, 0; 1999 CN<sub>142</sub>, 3, 1, 0; 1999 DL<sub>3</sub>, 6, 1, 0; 1999 GL<sub>21</sub>, 3, 1, 0; 1999 GB<sub>28</sub>, 3, 1, 0; 1999 GA<sub>46</sub>, 3, 1, 0; 1999 HC<sub>10</sub>, 3, 1, 0; 1999 JZ<sub>8</sub>, 3, 1, 0; 1999 JB<sub>31</sub>, 3, 1, 0; 1999 JJ<sub>32</sub>, 3, 1, 0; 1999 JL<sub>53</sub>, 3, 1, 0; 1999 JX<sub>59</sub>, 3, 1, 0; 1999 JX<sub>64</sub>, 3, 1, 0; 1999 JY<sub>91</sub>, 3, 1, 0; 1999 JP<sub>92</sub>, 3, 1, 0; 1999 LH<sub>13</sub>, 3, 1, 0; 1999 RU<sub>35</sub>, 3, 1, 0; 1999 RY<sub>169</sub>, 3, 1, 0; 1999 TC<sub>17</sub>, 3, 1, 0; 1999 TN<sub>105</sub>, 3, 1, 0; 1999 XL<sub>216</sub>, 3, 1, 0; 2000 CK<sub>30</sub>, 3, 1, 0; 2000 CG<sub>65</sub>, 3, 1, 0; 2000 CO<sub>79</sub>,

2000 OCT. 13

M.P.C. 41337

3, 1, 0; 2000 DY<sub>26</sub>, 3, 1, 0; 2000 DG<sub>49</sub>, 3, 1, 0; 2000 DS<sub>73</sub>, 3, 1, 0; 2000 OX<sub>12</sub>, 3, 1, 0; 2000 QT<sub>15</sub>, 3, 1, 0; 2000 QB<sub>27</sub>, 3, 1, 0; 2000 QY<sub>108</sub>, 3, 1, 0; 2000 QV<sub>109</sub>, 3, 1, 0; 2000 QP<sub>126</sub>, 3, 1, 0; 2000 QG<sub>129</sub>, 3, 1, 0; 2000 QC<sub>143</sub>, 3, 1, 0; 2000 QN<sub>160</sub>, 3, 1, 0; 2000 QA<sub>212</sub>, 3, 1, 0; 2000 RN<sub>56</sub>, 3, 1, 0; 2000 RG<sub>71</sub>, 3, 1, 0; 2000 RA<sub>73</sub>, 6, 2, 62; 2000 RA<sub>90</sub>, 3, 1, 0; 2000 RC<sub>104</sub>, 3, 1, 0; 2603 P-L, 3, 1, 0; 1112 T-2, 3, 1, 0; [207, 65, 0\*, 1997/02/06–1999/03/21]

### 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. Cecce, A. J. Cecce

0.5-m  $f/6$  reflector + CCD

USNO-A2.0

1992 UZ<sub>6</sub>, 5, 2, 2; 1999 JZ<sub>50</sub>, 4, 2, 1; 2000 RG<sub>39</sub>, 2, 1, 0; 2000 RC<sub>47</sub>, 6, 2, 1; 2000 RN<sub>53</sub>, 5, 2, 6; 2000 RB<sub>54</sub>, 5, 2, 1; 2000 RG<sub>54</sub>, 5, 2, 1; 2000 RA<sub>64</sub>, 4, 2, 2; 2000 RE<sub>77</sub>, 2, 1, 0; 2000 SA<sub>7</sub> \*, 9, 4, 11; 2000 SO<sub>89</sub> \*, 7, 3, 9; 2000 SP<sub>89</sub> \*, 7, 3, 9; 2000 SS<sub>162</sub> \*, 6, 3, 7; 2000 ST<sub>162</sub> \*, 7, 3, 7; 2000 SU<sub>162</sub> \*, 5, 2, 1; 2000 SV<sub>162</sub> \*, 5, 2, 1; 2000 SW<sub>162</sub> \*, 5, 2, 1; 2000 ST<sub>180</sub> \*, 4, 2, 1; (2572), 7, 2, 1; (7228), 2, 1, 0; [102, 20, 9\*, 2000/09/14–2000/10/07]

### 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

(712), 4, 2, 1; [4, 1, 0\*, 2000/09/11–2000/09/12]

### 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

1978 SU<sub>4</sub>, 3, 1, 0; 1998 BE<sub>5</sub>, 3, 1, 0; 1998 CJ<sub>4</sub>, 3, 1, 0; 1998 FD<sub>71</sub>, 3, 1, 0; 1998 KW<sub>7</sub>, 3, 1, 0; 1999 JX<sub>33</sub>, 3, 1, 0; 2000 DP<sub>107</sub>, 6, 1, 0; 2000 PD<sub>25</sub>, 4, 1, 0; 2000 RB<sub>46</sub>, 3, 1, 0; 2000 RC<sub>67</sub>, 3, 1, 0; 2000 RO<sub>80</sub>, 3, 1, 0; (549), 3, 1, 0; (587), 5, 2, 1; (823), 2, 1, 0; (834), 6, 2, 1; (914), 3, 1, 0; (1258), 6, 2, 1; (1794), 3, 1, 0; (1867), 3, 1, 0; (2190), 2, 1, 0; (2267), 6, 2, 1; (2348), 6, 2, 1; (2540), 3, 1, 0; (2555), 3, 1, 0; (2932), 3, 1, 0; (2996), 6, 2, 1; (3654), 6, 2, 1; (3732), 3, 1, 0; (3749), 6, 2, 1; (4172), 1, 1, 0; (5963), 3, 1, 0; (6347), 3, 1, 0; (6645), 3, 1, 0; (6901), 3, 1, 0; (7273), 4, 1, 0; (7967), 6, 1, 0; (8069), 3, 1, 0; (8253), 3, 1, 0; (8655), 3, 1, 0; (10617), 2, 1, 0; (10758), 4, 1, 0; (10769), 3, 1, 0; (10877), 2, 1, 0; (11762), 3, 1, 0; (15801), 3, 1, 0; (16641), 3, 1, 0; [164, 46, 0\*, 2000/09/14–2000/10/09]

### 919 Desert Beaver Observatory

W. K. Yeung, 139 Sandringham Place NW, Calgary, Alberta T3K 3V8, Canada

[Calgarian@canada.com]

0.45-m reflector + CCD

1978 UT<sub>7</sub>, 2, 1, 0; 1993 FC<sub>51</sub>, 2, 1, 0; 1998 HO<sub>68</sub>, 2, 1, 0; 1999 JR<sub>76</sub>, 2, 1, 0; 2000 ND<sub>2</sub>, 4, 2, 1; 2000 OB<sub>48</sub>, 6, 2, 1; 2000 QM<sub>9</sub>, 4, 2, 3; 2000 QV<sub>150</sub>, 2, 1, 0; 2000 QW<sub>194</sub>, 2, 1, 0; 2000 RG<sub>5</sub>, 2, 1, 0; 2000 RW<sub>5</sub>, 4, 2, 2; 2000 RB<sub>6</sub>, 2, 1, 0; 2000 RH<sub>7</sub>, 4, 2, 2; 2000 RZ<sub>33</sub>, 4, 2, 2; 2000 RR<sub>45</sub>, 4, 2, 1; 2000 RU<sub>46</sub>, 4, 2, 1; 2000 RE<sub>60</sub>, 2, 1, 0; 2000 RA<sub>67</sub>, 4, 2, 2; 2000 RF<sub>67</sub>, 4, 2, 1; 2000 RP<sub>72</sub>, 2, 1, 0; 2000 RH<sub>78</sub>, 2, 1, 0; 2000 RJ<sub>78</sub>, 2, 1, 0; 2000 SS<sub>1</sub> \*, 6, 3, 6; 2000 ST<sub>1</sub> \*, 6, 3, 6; 2000 SC<sub>7</sub> \*, 6, 3, 3; 2000 SE<sub>10</sub> \*, 4, 2, 2; 2000 SF<sub>10</sub> \*, 4, 2, 2; 2000 SG<sub>10</sub> \*, 4, 2, 2; 2000 SH<sub>10</sub> \*, 8, 4, 5; 2000 SJ<sub>10</sub> \*, 4, 2, 2; 2000 SR<sub>23</sub> \*, 4, 2, 1; 2000 SS<sub>23</sub> \*, 6, 3, 5; 2000 ST<sub>44</sub> \*, 4, 2, 1; 2000 SG<sub>277</sub>, 2, 1, 0; 2000 TB \*, 4, 2, 1; 2000 TC \*, 4, 2, 1; 2000 TR \*, 4, 2, 1; 2000 TS \*, 4, 2, 1; 2000 TC<sub>2</sub> \*, 6, 3, 3; 2000 TN<sub>2</sub> \*, 4, 2, 1; 2000 TR<sub>32</sub> \*, 4, 2, 1; 2000 TW<sub>33</sub> \*, 4, 2, 2; 2000 TX<sub>33</sub> \*, 4, 2, 2; (5633), 2, 1, 0; (8493), 2, 1, 0; (17098), 2, 1, 0; [168, 46, 20\*, 2000/09/20–2000/10/09]

### 920 RIT Observatory, Rochester

M. Richmond, Physics Department, Rochester Institute of Technology, 85 Lomb

Memorial Drive, Rochester, NY 14623-5603, U.S.A. [mwrsp@rit.edu]

Observers M. Richmond, T. Davis, S. Davis

Measurer M. Richmond

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

USNO-A2.0

2000 RD<sub>53</sub>, 6, 1, 0; [6, 1, 0\*, 2000/09/14]

### 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 QW<sub>7</sub>, 5, 1, 0; (4486), 4, 1, 0; [9, 2, 0\*, 2000/08/28]

### 922 Timberland Observatory, Decatur

G. Telepun, 1205 Timberland Drive, Decatur, AL 35603, U.S.A.

[dgordon@hiwaay.net]

0.18-m  $f/9.42$  M/C + CCD

GSC, USNO-SA2.0

1999 JN<sub>72</sub>, 6, 2, 1; 4066 P-L, 3, 1, 0; (3580), 6, 2, 1; (4829), 4, 2, 1; (4943), 6, 2, 1; [25, 5, 0\*, 2000/09/30–2000/10/01]

### 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

1996 SK<sub>7</sub>, 2, 1, 0; 1999 CK<sub>5</sub>, 4, 2, 26; 1999 JT<sub>81</sub>, 4, 1, 0; 1999 JG<sub>119</sub>, 3, 1, 0; 2000 QZ<sub>55</sub>, 3, 1, 0; [16, 5, 0\*, 2000/08/22–2000/09/18]

### 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

(372), 2, 2, 2; [2, 1, 0\*, 2000/10/02–2000/10/04]

### 946 Ametlla de Mar

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

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0.30-m  $f/5.0$  reflector + CCD

USNO-SA1.0

2000 QF<sub>71</sub>, 5, 2, 9; 2000 RU<sub>46</sub>, 5, 2, 3; 2000 RY<sub>49</sub>, 5, 2, 3; 2000 SH<sub>4</sub> \*, 6, 2, 1; 2000 SJ<sub>4</sub> \*, 6, 2, 1; 2000 SK<sub>4</sub> \*, 6, 2, 1; 2000 TG<sub>1</sub> \*, 5, 2, 3; [38, 7, 4\*, 2000/09/21–2000/10/04]

### 950 La Palma

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Observer W. Nowotny

Measurer O. Karlsson

2.56-m NOT + CCD

USNO-SA2.0

2000 PT<sub>27</sub>, 6, 1, 0; [6, 1, 0\*, 2000/08/31]

### 967 Greens Norton

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NN12 8BY, England [RJNeville@aol.com]

0.30-m  $f/4.1$  reflector + CCD

USNO-SA2.0, GSC

2000 DP<sub>107</sub>, 5, 1, 0; 2000 QW<sub>7</sub>, 15, 2, 1; 2000 SH<sub>8</sub>, 6, 1, 0; [26, 3, 0\*, 2000/08/29–2000/09/28]

## ORBITAL ELEMENTS

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**C/2000 K2 (LINEAR)**

Epoch 2000 Oct. 23.0 TT = JDT 2451840.5

| <i>T</i> | 2000 Oct. 11.3644 TT |                   | Marsden    |            |
|----------|----------------------|-------------------|------------|------------|
| <i>q</i> | 2.437115             | (2000.0)          | <b>P</b>   | <b>Q</b>   |
| <i>z</i> | +0.001841            | $\omega$ 106.8234 | +0.5063782 | +0.8547596 |
|          | $\pm 0.000011$       | $\Omega$ 195.2616 | -0.8586803 | +0.5119360 |
| <i>e</i> | 0.995514             | <i>i</i> 25.6332  | +0.0790524 | +0.0854843 |

From 163 observations 2000 May 4–Sept. 30, mean residual 0''.7.

**P/2000 R2 (LINEAR)**

| <i>T</i> | 2000 Sept. 12.6931 TT |                   | Nakano     |            |
|----------|-----------------------|-------------------|------------|------------|
| <i>q</i> | 1.390773              | (2000.0)          | <b>P</b>   | <b>Q</b>   |
| <i>n</i> | 0.1601584             | $\omega$ 147.1076 | +0.9029858 | +0.4296084 |
| <i>a</i> | 3.358172              | $\Omega$ 187.4607 | -0.4053608 | +0.8461419 |
| <i>e</i> | 0.585854              | <i>i</i> 3.2222   | -0.1424756 | +0.3154053 |
| <i>P</i> | 6.15                  |                   |            |            |

From 48 observations 2000 Sept. 3–27.

**P/2000 S1 (Skiff)**

| <i>T</i> | 2000 July 14.4211 TT |                   | Marsden    |            |
|----------|----------------------|-------------------|------------|------------|
| <i>q</i> | 2.511958             | (2000.0)          | <b>P</b>   | <b>Q</b>   |
| <i>n</i> | 0.0583567            | $\omega$ 308.3223 | +0.8984235 | +0.4029615 |
| <i>a</i> | 6.582776             | $\Omega$ 29.1631  | -0.1978635 | +0.7262632 |
| <i>e</i> | 0.618404             | <i>i</i> 20.9859  | -0.3920271 | +0.5569235 |
| <i>P</i> | 16.9                 |                   |            |            |

From 91 observations 2000 Aug. 26–Oct. 5.

**C/2000 S3**

| <i>T</i> | 2000 July 15.5851 TT |                   | Marsden    |            |
|----------|----------------------|-------------------|------------|------------|
| <i>q</i> | 2.659987             | (2000.0)          | <b>P</b>   | <b>Q</b>   |
| <i>n</i> | 0.0246006            | $\omega$ 298.0118 | +0.8796894 | +0.3845138 |
| <i>a</i> | 11.708628            | $\Omega$ 41.1824  | -0.1188748 | +0.7475253 |
| <i>e</i> | 0.772818             | <i>i</i> 25.1477  | -0.4604512 | +0.5416227 |
| <i>P</i> | 40.1                 |                   |            |            |

From 14 observations 2000 Sept. 20–Oct. 2.

**P/2000 S4**

| <i>T</i> | 2000 Oct. 19.1983 TT |                   | Marsden    |            |
|----------|----------------------|-------------------|------------|------------|
| <i>q</i> | 2.265525             | (2000.0)          | <b>P</b>   | <b>Q</b>   |
| <i>n</i> | 0.0517040            | $\omega$ 172.3641 | +0.9758759 | +0.2137790 |
| <i>a</i> | 7.135976             | $\Omega$ 174.6408 | -0.2168568 | +0.9726351 |
| <i>e</i> | 0.682521             | <i>i</i> 28.3323  | -0.0252855 | -0.0909920 |
| <i>P</i> | 19.1                 |                   |            |            |

From 30 observations 2000 Sept. 1–Oct. 7.

**C/2000 T1 (SOHO)**

| <i>T</i> | 2000 Oct. 11.45 TT |                 | Marsden  |          |
|----------|--------------------|-----------------|----------|----------|
| <i>q</i> | 0.0050             | (2000.0)        | <b>P</b> | <b>Q</b> |
|          |                    | $\omega$ 79.94  | +0.19720 | -0.98022 |
|          |                    | $\Omega$ 1.62   | -0.95639 | -0.19606 |
| <i>e</i> | 1.0                | <i>i</i> 144.04 | +0.21548 | +0.02684 |

From 16 observations 2000 Oct. 9–10.

**146P/Shoemaker-LINEAR**

Epoch 2000 June 25.0 TT = JDT 2451720.5

| <i>T</i> | 2000 July 14.3070 TT |                   | Nakano     |            |
|----------|----------------------|-------------------|------------|------------|
| <i>q</i> | 1.319171             | (2000.0)          | <b>P</b>   | <b>Q</b>   |
| <i>n</i> | 0.1251165            | $\omega$ 317.7613 | +0.9349854 | -0.1841485 |
| <i>a</i> | 3.959067             | $\Omega$ 55.3593  | +0.3314551 | +0.7578602 |
| <i>e</i> | 0.666798             | <i>i</i> 21.6201  | -0.1262532 | +0.6258892 |
| <i>P</i> | 7.88                 |                   |            |            |

From 28 observations 1984–2000, mean residual 0''.9.

**Jupiter XIII (Leda)**

Epoch 2000 Sept. 13.0 TT = JDT 2451800.5

| <i>M</i> | 256.61216  | (2000.0)           | Williams    |             |
|----------|------------|--------------------|-------------|-------------|
| <i>n</i> | 1.50130150 | $\omega$ 268.76095 | <b>P</b>    | <b>Q</b>    |
| <i>a</i> | 0.0743807  | $\Omega$ 216.78398 | -0.51383564 | -0.81219984 |
| <i>e</i> | 0.1790473  | <i>i</i> 27.47169  | +0.84713549 | -0.53119387 |
| <i>P</i> | 239.79 d   | <i>H</i> 13.1      | -0.13540458 | -0.24117317 |
|          |            | <i>G</i> 0.15      |             |             |

From 68 observations 1974 Sept. 11–1999 Dec. 7, mean residual 0''.71.

**Saturn IX (Phoebe)**

Epoch 2000 Sept. 13.0 TT = JDT 2451800.5

Williams

| <i>M</i> | 226.32412  | (2000.0)           | <i>P</i>      | <i>Q</i>    |
|----------|------------|--------------------|---------------|-------------|
| <i>n</i> | 0.65055221 | $\omega$ 353.60471 | -0.00548808   | -0.99322679 |
| <i>a</i> | 0.0868985  | $\Omega$ 263.33369 | -0.91221312   | -0.04257715 |
| <i>e</i> | 0.1508476  | <i>i</i> 173.28953 | -0.40967927   | +0.10810980 |
| <i>P</i> | 553.38 d   | <i>H</i> 6.4       | <i>G</i> 0.15 |             |

From 253 observations 1904 Nov. 7–2000 Aug. 7, mean residual 0".83.

**Uranus XVII (Sycorax)**

Epoch 2000 Sept. 13.0 TT = JDT 2451800.5

Williams

| <i>M</i> | 333.35469  | (2000.0)           | <i>P</i>      | <i>Q</i>    |
|----------|------------|--------------------|---------------|-------------|
| <i>n</i> | 0.27928650 | $\omega$ 16.99555  | -0.48658452   | -0.75166932 |
| <i>a</i> | 0.0816621  | $\Omega$ 255.78133 | -0.84542479   | +0.27667848 |
| <i>e</i> | 0.5117495  | <i>i</i> 152.65810 | -0.22020997   | +0.59870046 |
| <i>P</i> | 1289.00 d  | <i>H</i> 7.1       | <i>G</i> 0.15 |             |

From 143 observations 1984 June 2–2000 Sept. 4, mean residual 0".46.

**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*.

|         |                       |            |     |                                |
|---------|-----------------------|------------|-----|--------------------------------|
| (17350) | 1968 OJ               | 1968 07 18 | 805 | Torres, C., Cofre, S.          |
| (17351) | 1973 SV               | 1973 09 19 | 675 | van Houten & Gehrels           |
| (17352) | 1975 SG <sub>1</sub>  | 1975 09 30 | 675 | Bus, S. J.                     |
| (17353) | 1975 TE               | 1975 10 10 | 688 | Giclas, H. L.                  |
| (17354) | 1977 EU <sub>1</sub>  | 1977 03 13 | 095 | Chernykh, N. S.                |
| (17355) | 1978 NK               | 1978 07 10 | 675 | Helin, E. F., Shoemaker, E. M. |
| (17356) | 1978 PG <sub>4</sub>  | 1978 08 09 | 095 | Chernykh, N. S.                |
| (17357) | 1978 QH <sub>3</sub>  | 1978 08 23 | 414 | DeSanctis, G., Zappalà, V.     |
| (17358) | 1978 SU <sub>4</sub>  | 1978 09 27 | 095 | Chernykh, L. I.                |
| (17359) | 1978 UP <sub>4</sub>  | 1978 10 27 | 675 | Olmstead, C. M.                |
| (17360) | 1978 UX <sub>5</sub>  | 1978 10 27 | 675 | Olmstead, C. M.                |
| (17361) | 1978 UF <sub>7</sub>  | 1978 10 27 | 675 | Olmstead, C. M.                |
| (17362) | 1978 UT <sub>7</sub>  | 1978 10 27 | 675 | Olmstead, C. M.                |
| (17363) | 1978 VF <sub>3</sub>  | 1978 11 07 | 675 | Helin, E. F., Bus, S. J.       |
| (17364) | 1978 VR <sub>10</sub> | 1978 11 07 | 675 | Helin, E. F., Bus, S. J.       |
| (17365) | 1978 VF <sub>11</sub> | 1978 11 07 | 675 | Helin, E. F., Bus, S. J.       |
| (17366) | 1979 OV <sub>4</sub>  | 1979 07 24 | 675 | Bus, S. J.                     |
| (17367) | 1979 OU <sub>11</sub> | 1979 07 26 | 675 | Bus, S. J.                     |
| (17368) | 1979 QV <sub>1</sub>  | 1979 08 22 | 809 | Lagerkvist, C.-I.              |
| (17369) | 1979 QR <sub>2</sub>  | 1979 08 22 | 809 | Lagerkvist, C.-I.              |
| (17370) | 1980 CJ               | 1980 02 13 | 801 | Harvard Observatory            |
| (17371) | 1981 DT               | 1981 02 28 | 413 | Bus, S. J.                     |
| (17372) | 1981 DV               | 1981 02 28 | 413 | Bus, S. J.                     |
| (17373) | 1981 EQ <sub>3</sub>  | 1981 03 02 | 413 | Bus, S. J.                     |
| (17374) | 1981 EF <sub>4</sub>  | 1981 03 02 | 413 | Bus, S. J.                     |
| (17375) | 1981 EJ <sub>4</sub>  | 1981 03 02 | 413 | Bus, S. J.                     |

|         |                       |            |     |                         |
|---------|-----------------------|------------|-----|-------------------------|
| (17376) | 1981 EQ <sub>4</sub>  | 1981 03 02 | 413 | Bus, S. J.              |
| (17377) | 1981 EF <sub>5</sub>  | 1981 03 02 | 413 | Bus, S. J.              |
| (17378) | 1981 EM <sub>5</sub>  | 1981 03 02 | 413 | Bus, S. J.              |
| (17379) | 1981 ED <sub>8</sub>  | 1981 03 01 | 413 | Bus, S. J.              |
| (17380) | 1981 EB <sub>10</sub> | 1981 03 01 | 413 | Bus, S. J.              |
| (17381) | 1981 EC <sub>11</sub> | 1981 03 01 | 413 | Bus, S. J.              |
| (17382) | 1981 EH <sub>11</sub> | 1981 03 01 | 413 | Bus, S. J.              |
| (17383) | 1981 EE <sub>12</sub> | 1981 03 01 | 413 | Bus, S. J.              |
| (17384) | 1981 EM <sub>12</sub> | 1981 03 01 | 413 | Bus, S. J.              |
| (17385) | 1981 EU <sub>13</sub> | 1981 03 01 | 413 | Bus, S. J.              |
| (17386) | 1981 EA <sub>23</sub> | 1981 03 02 | 413 | Bus, S. J.              |
| (17387) | 1981 EV <sub>23</sub> | 1981 03 03 | 413 | Bus, S. J.              |
| (17388) | 1981 EZ <sub>24</sub> | 1981 03 02 | 413 | Bus, S. J.              |
| (17389) | 1981 EN <sub>30</sub> | 1981 03 02 | 413 | Bus, S. J.              |
| (17390) | 1981 EZ <sub>37</sub> | 1981 03 01 | 413 | Bus, S. J.              |
| (17391) | 1981 EK <sub>39</sub> | 1981 03 02 | 413 | Bus, S. J.              |
| (17392) | 1981 EY <sub>40</sub> | 1981 03 02 | 413 | Bus, S. J.              |
| (17393) | 1981 EA <sub>41</sub> | 1981 03 02 | 413 | Bus, S. J.              |
| (17394) | 1981 ER <sub>42</sub> | 1981 03 02 | 413 | Bus, S. J.              |
| (17395) | 1981 EA <sub>44</sub> | 1981 03 06 | 413 | Bus, S. J.              |
| (17396) | 1981 EK <sub>45</sub> | 1981 03 01 | 413 | Bus, S. J.              |
| (17397) | 1981 EF <sub>48</sub> | 1981 03 06 | 413 | Bus, S. J.              |
| (17398) | 1982 UR <sub>2</sub>  | 1982 10 20 | 695 | Aldering, G.            |
| (17399) | 1983 RL               | 1983 09 06 | 675 | Shoemaker, C. S.        |
| (17400) | 1985 PL <sub>1</sub>  | 1985 08 13 | 801 | Oak Ridge Observatory   |
| (17401) | 1985 RP <sub>3</sub>  | 1985 09 07 | 809 | Debehogne, H.           |
| (17402) | 1985 UF               | 1985 10 20 | 688 | Bowell, E.              |
| (17403) | 1986 EL <sub>5</sub>  | 1986 03 06 | 809 | DeSanctis, G.           |
| (17404) | 1986 TZ <sub>3</sub>  | 1986 10 04 | 046 | Mrkos, A.               |
| (17405) | 1986 VQ <sub>2</sub>  | 1986 11 04 | 010 | CERGA                   |
| (17406) | 1987 DO               | 1987 02 25 | 887 | Nijijima, T., Urata, T. |
| (17407) | 1987 TG               | 1987 10 14 | 046 | Mrkos, A.               |
| (17408) | 1987 UZ <sub>1</sub>  | 1987 10 19 | 675 | Shoemaker, C. S.        |
| (17409) | 1988 BA <sub>4</sub>  | 1988 01 19 | 809 | Debehogne, H.           |
| (17410) | 1988 CQ <sub>4</sub>  | 1988 02 13 | 809 | Elst, E. W.             |
| (17411) | 1988 DF <sub>3</sub>  | 1988 02 22 | 413 | McNaught, R. H.         |
| (17412) | 1988 KV               | 1988 05 24 | 809 | Landgraf, W.            |
| (17413) | 1988 RT <sub>4</sub>  | 1988 09 01 | 809 | Debehogne, H.           |
| (17414) | 1988 RN <sub>10</sub> | 1988 09 14 | 807 | Bus, S. J.              |
| (17415) | 1988 RO <sub>10</sub> | 1988 09 14 | 807 | Bus, S. J.              |
| (17416) | 1988 RR <sub>10</sub> | 1988 09 14 | 807 | Bus, S. J.              |
| (17417) | 1988 RY <sub>10</sub> | 1988 09 14 | 807 | Bus, S. J.              |
| (17418) | 1988 RT <sub>12</sub> | 1988 09 14 | 807 | Bus, S. J.              |
| (17419) | 1988 RH <sub>13</sub> | 1988 09 14 | 807 | Bus, S. J.              |
| (17420) | 1988 RL <sub>13</sub> | 1988 09 14 | 807 | Bus, S. J.              |
| (17421) | 1988 SW <sub>1</sub>  | 1988 09 16 | 807 | Bus, S. J.              |
| (17422) | 1988 SE <sub>2</sub>  | 1988 09 16 | 807 | Bus, S. J.              |
| (17423) | 1988 SK <sub>2</sub>  | 1988 09 16 | 807 | Bus, S. J.              |
| (17424) | 1988 SP <sub>2</sub>  | 1988 09 16 | 807 | Bus, S. J.              |
| (17425) | 1989 AM <sub>3</sub>  | 1989 01 04 | 413 | McNaught, R. H.         |
| (17426) | 1989 CS <sub>1</sub>  | 1989 02 05 | 888 | Oshima, Y.              |
| (17427) | 1989 CQ <sub>2</sub>  | 1989 02 04 | 809 | Elst, E. W.             |

|         |                       |            |     |                              |         |                       |            |     |                              |
|---------|-----------------------|------------|-----|------------------------------|---------|-----------------------|------------|-----|------------------------------|
| (17428) | 1989 DL               | 1989 02 28 | 809 | Debehogne, H.                | (17480) | 1991 PE <sub>10</sub> | 1991 08 07 | 675 | Holt, H. E.                  |
| (17429) | 1989 GD <sub>1</sub>  | 1989 04 03 | 809 | Elst, E. W.                  | (17481) | 1991 PE <sub>11</sub> | 1991 08 07 | 675 | Holt, H. E.                  |
| (17430) | 1989 KF               | 1989 05 31 | 675 | Holt, H. E.                  | (17482) | 1991 PY <sub>14</sub> | 1991 08 06 | 675 | Holt, H. E.                  |
| (17431) | 1989 RT               | 1989 09 03 | 511 | Elst, E. W.                  | (17483) | 1991 RA               | 1991 09 02 | 413 | Russell, K. S.               |
| (17432) | 1989 SR               | 1989 09 29 | 399 | Ueda, S., Kaneda, H.         | (17484) | 1991 RY <sub>4</sub>  | 1991 09 13 | 033 | Börngen, F., Schmadel, L. D. |
| (17433) | 1989 SV <sub>2</sub>  | 1989 09 26 | 809 | Elst, E. W.                  | (17485) | 1991 RP <sub>9</sub>  | 1991 09 05 | 413 | McNaught, R. H.              |
| (17434) | 1989 SN <sub>3</sub>  | 1989 09 26 | 809 | Elst, E. W.                  | (17486) | 1991 RB <sub>41</sub> | 1991 09 10 | 033 | Börngen, F.                  |
| (17435) | 1989 SP <sub>3</sub>  | 1989 09 26 | 809 | Elst, E. W.                  | (17487) | 1991 SY               | 1991 09 30 | 413 | McNaught, R. H.              |
| (17436) | 1989 SV <sub>3</sub>  | 1989 09 26 | 809 | Elst, E. W.                  | (17488) | 1991 TQ <sub>6</sub>  | 1991 10 02 | 033 | Börngen, F., Schmadel, L. D. |
| (17437) | 1989 SC <sub>4</sub>  | 1989 09 26 | 809 | Elst, E. W.                  | (17489) | 1991 TS <sub>6</sub>  | 1991 10 02 | 033 | Börngen, F., Schmadel, L. D. |
| (17438) | 1989 SQ <sub>4</sub>  | 1989 09 26 | 809 | Elst, E. W.                  | (17490) | 1991 UC <sub>3</sub>  | 1991 10 31 | 399 | Ueda, S., Kaneda, H.         |
| (17439) | 1989 TR <sub>3</sub>  | 1989 10 07 | 809 | Elst, E. W.                  | (17491) | 1991 UM <sub>3</sub>  | 1991 10 31 | 399 | Ueda, S., Kaneda, H.         |
| (17440) | 1989 TP <sub>14</sub> | 1989 10 02 | 809 | Debehogne, H.                | (17492) | 1991 XG <sub>1</sub>  | 1991 12 10 | 033 | Börngen, F.                  |
| (17441) | 1989 UE               | 1989 10 20 | 403 | Mizuno, Y., Furuta, T.       | (17493) | 1991 YA               | 1991 12 31 | 675 | Shoemaker, C. S.             |
| (17442) | 1989 UO <sub>5</sub>  | 1989 10 30 | 807 | Bus, S. J.                   | (17494) | 1992 AM <sub>3</sub>  | 1992 01 11 | 303 | Naranjo, O. A.               |
| (17443) | 1989 UU <sub>5</sub>  | 1989 10 30 | 807 | Bus, S. J.                   | (17495) | 1992 DY               | 1992 02 27 | 376 | Kawasato, N.                 |
| (17444) | 1989 VQ <sub>1</sub>  | 1989 11 03 | 809 | Elst, E. W.                  | (17496) | 1992 DM <sub>2</sub>  | 1992 02 29 | 033 | Börngen, F.                  |
| (17445) | 1989 YC <sub>5</sub>  | 1989 12 28 | 511 | Elst, E. W.                  | (17497) | 1992 DO <sub>6</sub>  | 1992 02 29 | 809 | UESAC                        |
| (17446) | 1990 BC <sub>2</sub>  | 1990 01 23 | 220 | Rajamohan, R.                | (17498) | 1992 EP <sub>4</sub>  | 1992 03 01 | 809 | UESAC                        |
| (17447) | 1990 HE               | 1990 04 25 | 675 | Helin, E. F.                 | (17499) | 1992 EJ <sub>5</sub>  | 1992 03 01 | 809 | UESAC                        |
| (17448) | 1990 HU <sub>1</sub>  | 1990 04 27 | 413 | McNaught, R. H.              | (17500) | 1992 EQ <sub>10</sub> | 1992 03 06 | 809 | UESAC                        |
| (17449) | 1990 OD <sub>5</sub>  | 1990 07 27 | 675 | Holt, H. E.                  | (17501) | 1992 FG               | 1992 03 23 | 400 | Endate, K., Watanabe, K.     |
| (17450) | 1990 QO <sub>4</sub>  | 1990 08 23 | 675 | Holt, H. E.                  | (17502) | 1992 FD <sub>1</sub>  | 1992 03 23 | 400 | Endate, K., Watanabe, K.     |
| (17451) | 1990 QF <sub>8</sub>  | 1990 08 16 | 809 | Elst, E. W.                  | (17503) | 1992 FK <sub>1</sub>  | 1992 03 26 | 413 | McNaught, R. H.              |
| (17452) | 1990 QE <sub>10</sub> | 1990 08 16 | 809 | Elst, E. W.                  | (17504) | 1992 GB <sub>2</sub>  | 1992 04 04 | 809 | Elst, E. W.                  |
| (17453) | 1990 RQ <sub>9</sub>  | 1990 09 14 | 675 | Holt, H. E.                  | (17505) | 1992 GO <sub>2</sub>  | 1992 04 04 | 809 | Elst, E. W.                  |
| (17454) | 1990 SA <sub>7</sub>  | 1990 09 22 | 809 | Elst, E. W.                  | (17506) | 1992 GW <sub>4</sub>  | 1992 04 04 | 809 | Elst, E. W.                  |
| (17455) | 1990 SH <sub>7</sub>  | 1990 09 22 | 809 | Elst, E. W.                  | (17507) | 1992 HH <sub>5</sub>  | 1992 04 24 | 809 | Debehogne, H.                |
| (17456) | 1990 SS <sub>7</sub>  | 1990 09 22 | 809 | Elst, E. W.                  | (17508) | 1992 JH               | 1992 05 03 | 372 | Seki, T.                     |
| (17457) | 1990 SC <sub>11</sub> | 1990 09 16 | 675 | Holt, H. E.                  | (17509) | 1992 JR               | 1992 05 04 | 372 | Seki, T.                     |
| (17458) | 1990 TP <sub>7</sub>  | 1990 10 13 | 033 | Börngen, F., Schmadel, L. D. | (17510) | 1992 PD <sub>6</sub>  | 1992 08 01 | 809 | Debehogne, H., Lopez G., A.  |
| (17459) | 1990 TJ <sub>8</sub>  | 1990 10 13 | 033 | Börngen, F., Schmadel, L. D. | (17511) | 1992 QN               | 1992 08 29 | 675 | Helin, E. F., Alu, J.        |
| (17460) | 1990 TC <sub>11</sub> | 1990 10 10 | 033 | Börngen, F., Schmadel, L. D. | (17512) | 1992 RN               | 1992 09 04 | 894 | Otomo, S.                    |
| (17461) | 1990 UD <sub>1</sub>  | 1990 10 20 | 372 | Seki, T.                     | (17513) | 1992 UM               | 1992 10 19 | 399 | Ueda, S., Kaneda, H.         |
| (17462) | 1990 UP <sub>1</sub>  | 1990 10 22 | 400 | Endate, K., Watanabe, K.     | (17514) | 1992 UA <sub>1</sub>  | 1992 10 19 | 399 | Ueda, S., Kaneda, H.         |
| (17463) | 1990 UO <sub>5</sub>  | 1990 10 16 | 809 | Elst, E. W.                  | (17515) | 1992 UT <sub>1</sub>  | 1992 10 21 | 402 | Sugie, A.                    |
| (17464) | 1990 VX <sub>1</sub>  | 1990 11 11 | 898 | Shiozawa, H., Kizawa, M.     | (17516) | 1992 UZ <sub>6</sub>  | 1992 10 28 | 400 | Yanai, M., Watanabe, K.      |
| (17465) | 1990 VU <sub>3</sub>  | 1990 11 11 | 372 | Seki, T.                     | (17517) | 1992 WZ <sub>3</sub>  | 1992 11 21 | 399 | Ueda, S., Kaneda, H.         |
| (17466) | 1990 VL <sub>4</sub>  | 1990 11 15 | 809 | Elst, E. W.                  | (17518) | 1992 YD               | 1992 12 18 | 885 | Natori, A., Urata, T.        |
| (17467) | 1990 VE <sub>6</sub>  | 1990 11 15 | 809 | Elst, E. W.                  | (17519) | 1992 YE <sub>2</sub>  | 1992 12 18 | 010 | Elst, E. W.                  |
| (17468) | 1990 WT <sub>6</sub>  | 1990 11 21 | 809 | Elst, E. W.                  | (17520) | 1993 BX <sub>2</sub>  | 1993 01 23 | 400 | Endate, K., Watanabe, K.     |
| (17469) | 1991 BT               | 1991 01 19 | 402 | Sugie, A.                    | (17521) | 1993 BR <sub>4</sub>  | 1993 01 27 | 010 | Elst, E. W.                  |
| (17470) | 1991 BX               | 1991 01 19 | 400 | Endate, K., Watanabe, K.     | (17522) | 1993 BL <sub>7</sub>  | 1993 01 23 | 809 | Elst, E. W.                  |
| (17471) | 1991 EO <sub>2</sub>  | 1991 03 11 | 809 | Debehogne, H.                | (17523) | 1993 FX <sub>2</sub>  | 1993 03 23 | 691 | Spacewatch                   |
| (17472) | 1991 FY               | 1991 03 17 | 887 | Nijima, T., Urata, T.        | (17524) | 1993 FS <sub>4</sub>  | 1993 03 17 | 809 | UESAC                        |
| (17473) | 1991 FM <sub>3</sub>  | 1991 03 21 | 809 | Debehogne, H.                | (17525) | 1993 FH <sub>5</sub>  | 1993 03 17 | 809 | UESAC                        |
| (17474) | 1991 GK <sub>5</sub>  | 1991 04 08 | 809 | Elst, E. W.                  | (17526) | 1993 FV <sub>5</sub>  | 1993 03 17 | 809 | UESAC                        |
| (17475) | 1991 GA <sub>7</sub>  | 1991 04 08 | 809 | Elst, E. W.                  | (17527) | 1993 FC <sub>14</sub> | 1993 03 17 | 809 | UESAC                        |
| (17476) | 1991 GG <sub>7</sub>  | 1991 04 08 | 809 | Elst, E. W.                  | (17528) | 1993 FX <sub>14</sub> | 1993 03 17 | 809 | UESAC                        |
| (17477) | 1991 GN <sub>9</sub>  | 1991 04 10 | 809 | Elst, E. W.                  | (17529) | 1993 FJ <sub>23</sub> | 1993 03 21 | 809 | UESAC                        |
| (17478) | 1991 LQ               | 1991 06 13 | 675 | Helin, E. F.                 | (17530) | 1993 FZ <sub>23</sub> | 1993 03 21 | 809 | UESAC                        |
| (17479) | 1991 PV <sub>9</sub>  | 1991 08 13 | 675 | Helin, E. F.                 | (17531) | 1993 FU <sub>25</sub> | 1993 03 21 | 809 | UESAC                        |

|         |                       |            |     |                            |         |                       |            |     |                                      |
|---------|-----------------------|------------|-----|----------------------------|---------|-----------------------|------------|-----|--------------------------------------|
| (17532) | 1993 FD <sub>34</sub> | 1993 03 19 | 809 | UESAC                      | (17584) | 1994 XF <sub>1</sub>  | 1994 12 06 | 411 | Kobayashi, T.                        |
| (17533) | 1993 FR <sub>36</sub> | 1993 03 19 | 809 | UESAC                      | (17585) | 1994 YC <sub>4</sub>  | 1994 12 31 | 691 | Spacewatch                           |
| (17534) | 1993 FB <sub>40</sub> | 1993 03 19 | 809 | UESAC                      | (17586) | 1995 AT <sub>2</sub>  | 1995 01 10 | 411 | Kobayashi, T.                        |
| (17535) | 1993 FF <sub>40</sub> | 1993 03 19 | 809 | UESAC                      | (17587) | 1995 BD               | 1995 01 20 | 411 | Kobayashi, T.                        |
| (17536) | 1993 FM <sub>40</sub> | 1993 03 19 | 809 | UESAC                      | (17588) | 1995 BH <sub>2</sub>  | 1995 01 30 | 411 | Kobayashi, T.                        |
| (17537) | 1993 FN <sub>40</sub> | 1993 03 19 | 809 | UESAC                      | (17589) | 1995 BR <sub>10</sub> | 1995 01 29 | 691 | Spacewatch                           |
| (17538) | 1993 FZ <sub>44</sub> | 1993 03 19 | 809 | UESAC                      | (17590) | 1995 CG               | 1995 02 01 | 411 | Kobayashi, T.                        |
| (17539) | 1993 FR <sub>46</sub> | 1993 03 19 | 809 | UESAC                      | (17591) | 1995 DG               | 1995 02 20 | 411 | Kobayashi, T.                        |
| (17540) | 1993 FX <sub>81</sub> | 1993 03 18 | 809 | UESAC                      | (17592) | 1995 DR               | 1995 02 22 | 411 | Kobayashi, T.                        |
| (17541) | 1993 OL <sub>5</sub>  | 1993 07 20 | 809 | Elst, E. W.                | (17593) | 1995 DV               | 1995 02 20 | 411 | Kobayashi, T.                        |
| (17542) | 1993 OW <sub>6</sub>  | 1993 07 20 | 809 | Elst, E. W.                | (17594) | 1995 DX <sub>5</sub>  | 1995 02 23 | 691 | Spacewatch                           |
| (17543) | 1993 PA <sub>3</sub>  | 1993 08 14 | 010 | Elst, E. W.                | (17595) | 1995 EO               | 1995 03 01 | 046 | Kleť                                 |
| (17544) | 1993 RF <sub>2</sub>  | 1993 09 15 | 400 | Endate, K., Watanabe, K.   | (17596) | 1995 EP <sub>1</sub>  | 1995 03 11 | 411 | Kobayashi, T.                        |
| (17545) | 1993 RZ <sub>3</sub>  | 1993 09 15 | 809 | Elst, E. W.                | (17597) | 1995 EK <sub>8</sub>  | 1995 03 04 | 033 | Börngen, F.                          |
| (17546) | 1993 SB <sub>2</sub>  | 1993 09 19 | 400 | Endate, K., Watanabe, K.   | (17598) | 1995 KE <sub>2</sub>  | 1995 05 23 | 894 | Otomo, S.                            |
| (17547) | 1993 SN <sub>2</sub>  | 1993 09 21 | 589 | Vagnozzi, A.               | (17599) | 1995 ON <sub>4</sub>  | 1995 07 22 | 691 | Spacewatch                           |
| (17548) | 1993 SX <sub>6</sub>  | 1993 09 17 | 809 | Elst, E. W.                | (17600) | 1995 SO               | 1995 09 18 | 557 | Šarounová, L.                        |
| (17549) | 1993 TW <sub>12</sub> | 1993 10 13 | 675 | Holt, H. E.                | (17601) | 1995 SS               | 1995 09 19 | 693 | Spahr, T. B.                         |
| (17550) | 1993 TO <sub>18</sub> | 1993 10 09 | 809 | Elst, E. W.                | (17602) | 1995 SO <sub>1</sub>  | 1995 09 19 | 693 | Spahr, T. B.                         |
| (17551) | 1993 TZ <sub>31</sub> | 1993 10 09 | 809 | Elst, E. W.                | (17603) | 1995 SG <sub>5</sub>  | 1995 09 20 | 400 | Endate, K., Watanabe, K.             |
| (17552) | 1993 TZ <sub>36</sub> | 1993 10 09 | 809 | Elst, E. W.                | (17604) | 1995 SO <sub>26</sub> | 1995 09 19 | 691 | Spacewatch                           |
| (17553) | 1993 UQ <sub>5</sub>  | 1993 10 20 | 809 | Elst, E. W.                | (17605) | 1995 SR <sub>26</sub> | 1995 09 19 | 691 | Spacewatch                           |
| (17554) | 1993 VY               | 1993 11 09 | 675 | Helin, E. F.               | (17606) | 1995 ST <sub>53</sub> | 1995 09 28 | 327 | Beijing Schmidt CCD Asteroid Program |
| (17555) | 1993 VC <sub>5</sub>  | 1993 11 04 | 413 | McNaught, R. H.            | (17607) | 1995 TC               | 1995 10 02 | 046 | Kleť                                 |
| (17556) | 1993 WB               | 1993 11 16 | 596 | Casulli, V. S.             | (17608) | 1995 TN               | 1995 10 12 | 046 | Tichý, M.                            |
| (17557) | 1994 AX               | 1994 01 04 | 411 | Kobayashi, T.              | (17609) | 1995 UR               | 1995 10 18 | 693 | Spahr, T. B.                         |
| (17558) | 1994 AA <sub>1</sub>  | 1994 01 04 | 896 | Kushida, Y., Muramatsu, O. | (17610) | 1995 UJ <sub>1</sub>  | 1995 10 23 | 817 | di Cicco, D.                         |
| (17559) | 1994 AR <sub>1</sub>  | 1994 01 08 | 402 | Sugie, A.                  | (17611) | 1995 UP <sub>2</sub>  | 1995 10 24 | 046 | Kleť                                 |
| (17560) | 1994 AD <sub>3</sub>  | 1994 01 14 | 587 | Gualdoni, C., Testa, A.    | (17612) | 1995 UW <sub>6</sub>  | 1995 10 20 | 369 | Sato, N., Urata, T.                  |
| (17561) | 1994 AE <sub>11</sub> | 1994 01 08 | 691 | Spacewatch                 | (17613) | 1995 UP <sub>7</sub>  | 1995 10 27 | 399 | Ueda, S., Kaneda, H.                 |
| (17562) | 1994 BG <sub>4</sub>  | 1994 01 16 | 010 | Elst, E. W., Pollas, C.    | (17614) | 1995 UT <sub>7</sub>  | 1995 10 27 | 587 | Sicoli, P., Chiavenna, P.            |
| (17563) | 1994 CC <sub>1</sub>  | 1994 02 05 | 896 | Kushida, Y., Muramatsu, O. | (17615) | 1995 UZ <sub>8</sub>  | 1995 10 30 | 400 | Endate, K., Watanabe, K.             |
| (17564) | 1994 CQ <sub>1</sub>  | 1994 02 07 | 411 | Kobayashi, T.              | (17616) | 1995 UE <sub>15</sub> | 1995 10 17 | 691 | Spacewatch                           |
| (17565) | 1994 CG <sub>2</sub>  | 1994 02 12 | 411 | Kobayashi, T.              | (17617) | 1995 UD <sub>45</sub> | 1995 10 28 | 400 | Endate, K., Watanabe, K.             |
| (17566) | 1994 CE <sub>11</sub> | 1994 02 07 | 809 | Elst, E. W.                | (17618) | 1995 VO               | 1995 11 04 | 411 | Kobayashi, T.                        |
| (17567) | 1994 GP               | 1994 04 05 | 400 | Endate, K., Watanabe, K.   | (17619) | 1995 VT               | 1995 11 01 | 894 | Otomo, S.                            |
| (17568) | 1994 GT <sub>8</sub>  | 1994 04 11 | 675 | Helin, E. F.               | (17620) | 1995 WY               | 1995 11 18 | 411 | Kobayashi, T.                        |
| (17569) | 1994 LB <sub>8</sub>  | 1994 06 08 | 809 | Debehogne, H., Elst, E. W. | (17621) | 1995 WD <sub>1</sub>  | 1995 11 16 | 399 | Ueda, S., Kaneda, H.                 |
| (17570) | 1994 NQ               | 1994 07 06 | 675 | Helin, E. F.               | (17622) | 1995 WW <sub>2</sub>  | 1995 11 20 | 411 | Kobayashi, T.                        |
| (17571) | 1994 PV               | 1994 08 14 | 411 | Kobayashi, T.              | (17623) | 1995 WO <sub>42</sub> | 1995 11 30 | 327 | Beijing Schmidt CCD Asteroid Program |
| (17572) | 1994 PX <sub>11</sub> | 1994 08 10 | 809 | Elst, E. W.                | (17624) | 1996 AT               | 1996 01 10 | 411 | Kobayashi, T.                        |
| (17573) | 1994 PJ <sub>13</sub> | 1994 08 10 | 809 | Elst, E. W.                | (17625) | 1996 AY <sub>1</sub>  | 1996 01 14 | 557 | Pravec, P., Šarounová, L.            |
| (17574) | 1994 PT <sub>13</sub> | 1994 08 10 | 809 | Elst, E. W.                | (17626) | 1996 AG <sub>2</sub>  | 1996 01 12 | 399 | Ueda, S., Kaneda, H.                 |
| (17575) | 1994 PQ <sub>14</sub> | 1994 08 10 | 809 | Elst, E. W.                | (17627) | 1996 BM <sub>3</sub>  | 1996 01 27 | 385 | Urata, T.                            |
| (17576) | 1994 PL <sub>25</sub> | 1994 08 12 | 809 | Elst, E. W.                | (17628) | 1996 FB <sub>5</sub>  | 1996 03 21 | 704 | Socorro                              |
| (17577) | 1994 PD <sub>38</sub> | 1994 08 10 | 809 | Elst, E. W.                | (17629) | 1996 HN <sub>1</sub>  | 1996 04 21 | 358 | Okuni, T.                            |
| (17578) | 1994 QQ               | 1994 08 16 | 411 | Kobayashi, T.              | (17630) | 1996 HM <sub>21</sub> | 1996 04 18 | 809 | Elst, E. W.                          |
| (17579) | 1994 TQ <sub>16</sub> | 1994 10 05 | 033 | Börngen, F.                | (17631) | 1996 HV <sub>21</sub> | 1996 04 21 | 566 | JPL/GEODSS NEAT                      |
| (17580) | 1994 VV               | 1994 11 03 | 411 | Kobayashi, T.              | (17632) | 1996 HW <sub>21</sub> | 1996 04 21 | 566 | JPL/GEODSS NEAT                      |
| (17581) | 1994 VE <sub>1</sub>  | 1994 11 04 | 411 | Kobayashi, T.              | (17633) | 1996 JU               | 1996 05 11 | 693 | Spahr, T. B.                         |
| (17582) | 1994 WL               | 1994 11 25 | 411 | Kobayashi, T.              | (17634) | 1996 NM <sub>3</sub>  | 1996 07 14 | 809 | Elst, E. W.                          |
| (17583) | 1994 WV <sub>2</sub>  | 1994 11 30 | 411 | Kobayashi, T.              | (17635) | 1996 OC <sub>1</sub>  | 1996 07 20 | 327 | Beijing Schmidt CCD Asteroid Program |

|         |                       |            |     |                                      |         |                       |            |     |                                      |
|---------|-----------------------|------------|-----|--------------------------------------|---------|-----------------------|------------|-----|--------------------------------------|
| (17636) | 1996 PQ               | 1996 08 09 | 566 | JPL/GEODSS NEAT                      | (17688) | 1997 BM <sub>3</sub>  | 1997 01 31 | 411 | Kobayashi, T.                        |
| (17637) | 1996 PA <sub>1</sub>  | 1996 08 11 | 684 | Comba, P. G.                         | (17689) | 1997 CS               | 1997 02 01 | 411 | Kobayashi, T.                        |
| (17638) | 1996 PB <sub>1</sub>  | 1996 08 11 | 816 | Viscome, G. R.                       | (17690) | 1997 CY <sub>2</sub>  | 1997 02 03 | 411 | Kobayashi, T.                        |
| (17639) | 1996 PA <sub>4</sub>  | 1996 08 09 | 566 | JPL/GEODSS NEAT                      | (17691) | 1997 CF <sub>17</sub> | 1997 02 01 | 691 | Spacewatch                           |
| (17640) | 1996 PA <sub>7</sub>  | 1996 08 15 | 424 | McNaught, R. H., Child, J. B.        | (17692) | 1997 CX <sub>27</sub> | 1997 02 06 | 327 | Beijing Schmidt CCD Asteroid Program |
| (17641) | 1996 SW <sub>7</sub>  | 1996 09 18 | 327 | Beijing Schmidt CCD Asteroid Program | (17693) | 1997 CP <sub>28</sub> | 1997 02 15 | 327 | Beijing Schmidt CCD Asteroid Program |
| (17642) | 1996 TY <sub>4</sub>  | 1996 10 06 | 816 | Viscome, G. R.                       | (17694) | 1997 ET <sub>1</sub>  | 1997 03 04 | 046 | Kleť                                 |
| (17643) | 1996 TJ <sub>5</sub>  | 1996 10 09 | 566 | JPL/GEODSS NEAT                      | (17695) | 1997 EE <sub>7</sub>  | 1997 03 03 | 691 | Spacewatch                           |
| (17644) | 1996 TW <sub>8</sub>  | 1996 10 10 | 693 | Spahr, T. B.                         | (17696) | 1997 EH <sub>8</sub>  | 1997 03 08 | 684 | Comba, P. G.                         |
| (17645) | 1996 TR <sub>14</sub> | 1996 10 09 | 358 | Okuni, T.                            | (17697) | 1997 EQ <sub>41</sub> | 1997 03 10 | 704 | LINEAR                               |
| (17646) | 1996 TM <sub>36</sub> | 1996 10 12 | 691 | Spacewatch                           | (17698) | 1997 EW <sub>42</sub> | 1997 03 10 | 704 | LINEAR                               |
| (17647) | 1996 TR <sub>41</sub> | 1996 10 08 | 809 | Elst, E. W.                          | (17699) | 1997 GX <sub>7</sub>  | 1997 04 02 | 704 | LINEAR                               |
| (17648) | 1996 UU               | 1996 10 16 | 905 | Shimizu, Y., Urata, T.               | (17700) | 1997 GM <sub>40</sub> | 1997 04 07 | 809 | Elst, E. W.                          |
| (17649) | 1996 UP <sub>1</sub>  | 1996 10 17 | 596 | Casulli, V. S.                       | (17701) | 1997 GU <sub>41</sub> | 1997 04 09 | 809 | Elst, E. W.                          |
| (17650) | 1996 UH <sub>5</sub>  | 1996 10 29 | 327 | Beijing Schmidt CCD Asteroid Program | (17702) | 1997 JD               | 1997 05 01 | 557 | Pravec, P.                           |
| (17651) | 1996 VM <sub>1</sub>  | 1996 11 03 | 901 | Mizuno, Y., Furuta, T.               | (17703) | 1997 RS <sub>5</sub>  | 1997 09 09 | 684 | Comba, P. G.                         |
| (17652) | 1996 VQ <sub>1</sub>  | 1996 11 03 | 610 | Goretti, V.                          | (17704) | 1997 UM <sub>5</sub>  | 1997 10 21 | 691 | Spacewatch                           |
| (17653) | 1996 VM <sub>2</sub>  | 1996 11 10 | 684 | Comba, P. G.                         | (17705) | 1997 UM <sub>24</sub> | 1997 10 28 | 327 | Beijing Schmidt CCD Asteroid Program |
| (17654) | 1996 VK <sub>3</sub>  | 1996 11 06 | 411 | Kobayashi, T.                        | (17706) | 1997 VA <sub>6</sub>  | 1997 11 09 | 411 | Kobayashi, T.                        |
| (17655) | 1996 VL <sub>3</sub>  | 1996 11 06 | 411 | Kobayashi, T.                        | (17707) | 1997 VM <sub>7</sub>  | 1997 11 02 | 327 | Beijing Schmidt CCD Asteroid Program |
| (17656) | 1996 VL <sub>4</sub>  | 1996 11 06 | 369 | Sato, N.                             | (17708) | 1997 WB               | 1997 11 18 | 426 | Zoltowski, F. B.                     |
| (17657) | 1996 VO <sub>4</sub>  | 1996 11 06 | 369 | Sato, N.                             | (17709) | 1997 WV <sub>1</sub>  | 1997 11 19 | 411 | Kobayashi, T.                        |
| (17658) | 1996 VS <sub>4</sub>  | 1996 11 13 | 411 | Kobayashi, T.                        | (17710) | 1997 WT <sub>2</sub>  | 1997 11 23 | 411 | Kobayashi, T.                        |
| (17659) | 1996 VX <sub>5</sub>  | 1996 11 15 | 411 | Kobayashi, T.                        | (17711) | 1997 WA <sub>7</sub>  | 1997 11 23 | 691 | Spacewatch                           |
| (17660) | 1996 VP <sub>6</sub>  | 1996 11 07 | 966 | Laurie, S. P.                        | (17712) | 1997 WK <sub>7</sub>  | 1997 11 19 | 905 | Shimizu, Y., Urata, T.               |
| (17661) | 1996 VW <sub>7</sub>  | 1996 11 03 | 399 | Ueda, S., Kaneda, H.                 | (17713) | 1997 WJ <sub>20</sub> | 1997 11 25 | 691 | Spacewatch                           |
| (17662) | 1996 VG <sub>30</sub> | 1996 11 07 | 399 | Ueda, S., Kaneda, H.                 | (17714) | 1997 WR <sub>38</sub> | 1997 11 29 | 704 | LINEAR                               |
| (17663) | 1996 VK <sub>30</sub> | 1996 11 07 | 399 | Ueda, S., Kaneda, H.                 | (17715) | 1997 WZ <sub>39</sub> | 1997 11 29 | 704 | LINEAR                               |
| (17664) | 1996 VP <sub>30</sub> | 1996 11 07 | 399 | Ueda, S., Kaneda, H.                 | (17716) | 1997 WW <sub>43</sub> | 1997 11 29 | 704 | LINEAR                               |
| (17665) | 1996 WD               | 1996 11 16 | 411 | Kobayashi, T.                        | (17717) | 1997 XL               | 1997 12 03 | 411 | Kobayashi, T.                        |
| (17666) | 1996 XR               | 1996 12 01 | 369 | Sato, N.                             | (17718) | 1997 XZ               | 1997 12 03 | 411 | Kobayashi, T.                        |
| (17667) | 1996 XT <sub>5</sub>  | 1996 12 07 | 411 | Kobayashi, T.                        | (17719) | 1997 XV <sub>1</sub>  | 1997 12 02 | 905 | Shimizu, Y., Urata, T.               |
| (17668) | 1996 XW <sub>5</sub>  | 1996 12 07 | 411 | Kobayashi, T.                        | (17720) | 1997 XH <sub>10</sub> | 1997 12 07 | 098 | Munari, U., Tombelli, M.             |
| (17669) | 1996 XF <sub>6</sub>  | 1996 12 07 | 411 | Kobayashi, T.                        | (17721) | 1997 XT <sub>10</sub> | 1997 12 10 | 327 | Beijing Schmidt CCD Asteroid Program |
| (17670) | 1996 XQ <sub>19</sub> | 1996 12 08 | 385 | Urata, T.                            | (17722) | 1997 YT <sub>1</sub>  | 1997 12 21 | 327 | Beijing Schmidt CCD Asteroid Program |
| (17671) | 1996 XS <sub>19</sub> | 1996 12 11 | 411 | Kobayashi, T.                        | (17723) | 1997 YA <sub>4</sub>  | 1997 12 22 | 327 | Beijing Schmidt CCD Asteroid Program |
| (17672) | 1996 XS <sub>25</sub> | 1996 12 11 | 867 | Saji                                 | (17724) | 1997 YZ <sub>5</sub>  | 1997 12 25 | 411 | Kobayashi, T.                        |
| (17673) | 1996 XL <sub>32</sub> | 1996 12 15 | 867 | Saji                                 | (17725) | 1997 YQ <sub>7</sub>  | 1997 12 27 | 411 | Kobayashi, T.                        |
| (17674) | 1996 YG               | 1996 12 20 | 411 | Kobayashi, T.                        | (17726) | 1997 YS <sub>10</sub> | 1997 12 22 | 327 | Beijing Schmidt CCD Asteroid Program |
| (17675) | 1996 YU               | 1996 12 20 | 411 | Kobayashi, T.                        | (17727) | 1997 YU <sub>11</sub> | 1997 12 30 | 411 | Kobayashi, T.                        |
| (17676) | 1997 AG <sub>1</sub>  | 1997 01 02 | 411 | Kobayashi, T.                        | (17728) | 1997 YM <sub>12</sub> | 1997 12 21 | 691 | Spacewatch                           |
| (17677) | 1997 AW <sub>2</sub>  | 1997 01 04 | 411 | Kobayashi, T.                        | (17729) | 1997 YW <sub>14</sub> | 1997 12 28 | 691 | Spacewatch                           |
| (17678) | 1997 AG <sub>3</sub>  | 1997 01 03 | 691 | Spacewatch                           | (17730) | 1998 AS <sub>4</sub>  | 1998 01 06 | 691 | Spacewatch                           |
| (17679) | 1997 AK <sub>4</sub>  | 1997 01 06 | 411 | Kobayashi, T.                        | (17731) | 1998 AD <sub>10</sub> | 1998 01 15 | 910 | ODAS                                 |
| (17680) | 1997 AW <sub>5</sub>  | 1997 01 01 | 327 | Beijing Schmidt CCD Asteroid Program | (17732) | 1998 AQ <sub>10</sub> | 1998 01 01 | 691 | Spacewatch                           |
| (17681) | 1997 AQ <sub>6</sub>  | 1997 01 06 | 385 | Urata, T.                            | (17733) | 1998 BS <sub>1</sub>  | 1998 01 19 | 411 | Kobayashi, T.                        |
| (17682) | 1997 AR <sub>12</sub> | 1997 01 10 | 411 | Kobayashi, T.                        | (17734) | 1998 BW <sub>3</sub>  | 1998 01 22 | 684 | Comba, P. G.                         |
| (17683) | 1997 AR <sub>16</sub> | 1997 01 10 | 355 | Asami, A.                            | (17735) | 1998 BG <sub>7</sub>  | 1998 01 24 | 566 | JPL/GEODSS NEAT                      |
| (17684) | 1997 AS <sub>16</sub> | 1997 01 14 | 411 | Kobayashi, T.                        | (17736) | 1998 BA <sub>12</sub> | 1998 01 23 | 704 | LINEAR                               |
| (17685) | 1997 AJ <sub>19</sub> | 1997 01 13 | 358 | Okuni, T.                            | (17737) | 1998 BF <sub>14</sub> | 1998 01 27 | 113 | Kandler, J.                          |
| (17686) | 1997 BC <sub>2</sub>  | 1997 01 29 | 411 | Kobayashi, T.                        | (17738) | 1998 BS <sub>15</sub> | 1998 01 24 | 566 | JPL/GEODSS NEAT                      |
| (17687) | 1997 BN <sub>2</sub>  | 1997 01 30 | 411 | Kobayashi, T.                        | (17739) | 1998 BY <sub>15</sub> | 1998 01 25 | 566 | JPL/GEODSS NEAT                      |

|         |                       |            |     |                                      |         |                        |            |     |                         |
|---------|-----------------------|------------|-----|--------------------------------------|---------|------------------------|------------|-----|-------------------------|
| (17740) | 1998 BC <sub>19</sub> | 1998 01 27 | 587 | Testa, A., Ghezzi, P.                | (17792) | 1998 FR <sub>56</sub>  | 1998 03 20 | 704 | LINEAR                  |
| (17741) | 1998 BS <sub>23</sub> | 1998 01 26 | 691 | Spacewatch                           | (17793) | 1998 FO <sub>58</sub>  | 1998 03 20 | 704 | LINEAR                  |
| (17742) | 1998 BP <sub>25</sub> | 1998 01 28 | 411 | Kobayashi, T.                        | (17794) | 1998 FC <sub>60</sub>  | 1998 03 20 | 704 | LINEAR                  |
| (17743) | 1998 BA <sub>31</sub> | 1998 01 26 | 691 | Spacewatch                           | (17795) | 1998 FJ <sub>61</sub>  | 1998 03 20 | 704 | LINEAR                  |
| (17744) | 1998 BZ <sub>31</sub> | 1998 01 18 | 910 | ODAS                                 | (17796) | 1998 FM <sub>62</sub>  | 1998 03 20 | 704 | LINEAR                  |
| (17745) | 1998 BG <sub>34</sub> | 1998 01 22 | 691 | Spacewatch                           | (17797) | 1998 FO <sub>62</sub>  | 1998 03 20 | 704 | LINEAR                  |
| (17746) | 1998 BU <sub>41</sub> | 1998 01 30 | 888 | Kagawa, T., Urata, T.                | (17798) | 1998 FC <sub>63</sub>  | 1998 03 20 | 704 | LINEAR                  |
| (17747) | 1998 BJ <sub>42</sub> | 1998 01 26 | 327 | Beijing Schmidt CCD Asteroid Program | (17799) | 1998 FC <sub>64</sub>  | 1998 03 20 | 704 | LINEAR                  |
| (17748) | 1998 CL               | 1998 02 01 | 867 | Saji                                 | (17800) | 1998 FG <sub>66</sub>  | 1998 03 20 | 704 | LINEAR                  |
| (17749) | 1998 DW <sub>1</sub>  | 1998 02 19 | 595 | Farra d'Isonzo                       | (17801) | 1998 FH <sub>69</sub>  | 1998 03 20 | 704 | LINEAR                  |
| (17750) | 1998 DZ <sub>1</sub>  | 1998 02 18 | 426 | Zoltowski, F. B.                     | (17802) | 1998 FA <sub>71</sub>  | 1998 03 20 | 704 | LINEAR                  |
| (17751) | 1998 DN <sub>3</sub>  | 1998 02 22 | 566 | JPL/GEODSS NEAT                      | (17803) | 1998 FD <sub>71</sub>  | 1998 03 20 | 704 | LINEAR                  |
| (17752) | 1998 DM <sub>4</sub>  | 1998 02 22 | 566 | JPL/GEODSS NEAT                      | (17804) | 1998 FH <sub>71</sub>  | 1998 03 20 | 704 | LINEAR                  |
| (17753) | 1998 DZ <sub>5</sub>  | 1998 02 22 | 566 | JPL/GEODSS NEAT                      | (17805) | 1998 FV <sub>72</sub>  | 1998 03 30 | 046 | Klet                    |
| (17754) | 1998 DN <sub>8</sub>  | 1998 02 21 | 327 | Beijing Schmidt CCD Asteroid Program | (17806) | 1998 FO <sub>73</sub>  | 1998 03 31 | 557 | Pravec, P.              |
| (17755) | 1998 DU <sub>11</sub> | 1998 02 24 | 566 | JPL/GEODSS NEAT                      | (17807) | 1998 FT <sub>74</sub>  | 1998 03 19 | 699 | LONEOS                  |
| (17756) | 1998 DM <sub>13</sub> | 1998 02 25 | 566 | JPL/GEODSS NEAT                      | (17808) | 1998 FV <sub>74</sub>  | 1998 03 24 | 704 | LINEAR                  |
| (17757) | 1998 DG <sub>15</sub> | 1998 02 22 | 566 | JPL/GEODSS NEAT                      | (17809) | 1998 FR <sub>78</sub>  | 1998 03 24 | 704 | LINEAR                  |
| (17758) | 1998 DC <sub>18</sub> | 1998 02 23 | 691 | Spacewatch                           | (17810) | 1998 FM <sub>100</sub> | 1998 03 31 | 704 | LINEAR                  |
| (17759) | 1998 DA <sub>24</sub> | 1998 02 17 | 905 | Shimizu, Y., Urata, T.               | (17811) | 1998 FH <sub>105</sub> | 1998 03 31 | 704 | LINEAR                  |
| (17760) | 1998 DU <sub>33</sub> | 1998 02 27 | 809 | Elst, E. W.                          | (17812) | 1998 FH <sub>109</sub> | 1998 03 31 | 704 | LINEAR                  |
| (17761) | 1998 DV <sub>34</sub> | 1998 02 27 | 809 | Elst, E. W.                          | (17813) | 1998 FL <sub>109</sub> | 1998 03 31 | 704 | LINEAR                  |
| (17762) | 1998 DY <sub>34</sub> | 1998 02 27 | 809 | Elst, E. W.                          | (17814) | 1998 FH <sub>113</sub> | 1998 03 31 | 704 | LINEAR                  |
| (17763) | 1998 EG               | 1998 03 01 | 910 | ODAS                                 | (17815) | 1998 FM <sub>113</sub> | 1998 03 31 | 704 | LINEAR                  |
| (17764) | 1998 ES <sub>1</sub>  | 1998 03 02 | 910 | ODAS                                 | (17816) | 1998 FY <sub>113</sub> | 1998 03 31 | 704 | LINEAR                  |
| (17765) | 1998 EZ <sub>2</sub>  | 1998 03 01 | 327 | Beijing Schmidt CCD Asteroid Program | (17817) | 1998 FU <sub>116</sub> | 1998 03 31 | 704 | LINEAR                  |
| (17766) | 1998 ES <sub>3</sub>  | 1998 03 02 | 411 | Kobayashi, T.                        | (17818) | 1998 FE <sub>118</sub> | 1998 03 31 | 704 | LINEAR                  |
| (17767) | 1998 EJ <sub>6</sub>  | 1998 03 01 | 910 | ODAS                                 | (17819) | 1998 FK <sub>118</sub> | 1998 03 31 | 704 | LINEAR                  |
| (17768) | 1998 EO <sub>8</sub>  | 1998 03 03 | 385 | Urata, T.                            | (17820) | 1998 FZ <sub>125</sub> | 1998 03 31 | 704 | LINEAR                  |
| (17769) | 1998 EM <sub>9</sub>  | 1998 03 15 | 411 | Kobayashi, T.                        | (17821) | 1998 FC <sub>127</sub> | 1998 03 31 | 113 | Knöfel, A., Kandler, J. |
| (17770) | 1998 EU <sub>11</sub> | 1998 03 01 | 809 | Elst, E. W.                          | (17822) | 1998 FM <sub>135</sub> | 1998 03 22 | 704 | LINEAR                  |
| (17771) | 1998 EA <sub>13</sub> | 1998 03 01 | 809 | Elst, E. W.                          | (17823) | 1998 GA                | 1998 04 01 | 732 | Roe, J.                 |
| (17772) | 1998 EP <sub>13</sub> | 1998 03 01 | 809 | Elst, E. W.                          | (17824) | 1998 GF                | 1998 04 02 | 704 | LINEAR                  |
| (17773) | 1998 EX <sub>13</sub> | 1998 03 01 | 809 | Elst, E. W.                          | (17825) | 1998 GQ <sub>8</sub>   | 1998 04 02 | 704 | LINEAR                  |
| (17774) | 1998 ER <sub>14</sub> | 1998 03 01 | 809 | Elst, E. W.                          | (17826) | 1998 GK <sub>10</sub>  | 1998 04 03 | 428 | Broughton, J.           |
| (17775) | 1998 FH               | 1998 03 18 | 426 | Zoltowski, F. B.                     | (17827) | 1998 HW                | 1998 04 17 | 691 | Spacewatch              |
| (17776) | 1998 FF <sub>3</sub>  | 1998 03 22 | 557 | Pravec, P.                           | (17828) | 1998 HK <sub>8</sub>   | 1998 04 22 | 426 | Zoltowski, F. B.        |
| (17777) | 1998 FV <sub>9</sub>  | 1998 03 24 | 910 | ODAS                                 | (17829) | 1998 HX <sub>32</sub>  | 1998 04 20 | 704 | LINEAR                  |
| (17778) | 1998 FT <sub>11</sub> | 1998 03 24 | 566 | JPL/GEODSS NEAT                      | (17830) | 1998 HR <sub>35</sub>  | 1998 04 20 | 704 | LINEAR                  |
| (17779) | 1998 FK <sub>12</sub> | 1998 03 26 | 910 | ODAS                                 | (17831) | 1998 HW <sub>35</sub>  | 1998 04 20 | 704 | LINEAR                  |
| (17780) | 1998 FY <sub>13</sub> | 1998 03 24 | 566 | JPL/GEODSS NEAT                      | (17832) | 1998 HV <sub>39</sub>  | 1998 04 20 | 704 | LINEAR                  |
| (17781) | 1998 FH <sub>23</sub> | 1998 03 20 | 704 | LINEAR                               | (17833) | 1998 HO <sub>42</sub>  | 1998 04 23 | 566 | JPL/GEODSS NEAT         |
| (17782) | 1998 FD <sub>26</sub> | 1998 03 20 | 704 | LINEAR                               | (17834) | 1998 HL <sub>43</sub>  | 1998 04 25 | 120 | Višnjan                 |
| (17783) | 1998 FO <sub>29</sub> | 1998 03 20 | 704 | LINEAR                               | (17835) | 1998 HS <sub>46</sub>  | 1998 04 20 | 704 | LINEAR                  |
| (17784) | 1998 FF <sub>30</sub> | 1998 03 20 | 704 | LINEAR                               | (17836) | 1998 HT <sub>50</sub>  | 1998 04 25 | 699 | LONEOS                  |
| (17785) | 1998 FX <sub>35</sub> | 1998 03 20 | 704 | LINEAR                               | (17837) | 1998 HQ <sub>92</sub>  | 1998 04 21 | 704 | LINEAR                  |
| (17786) | 1998 FL <sub>36</sub> | 1998 03 20 | 704 | LINEAR                               | (17838) | 1998 HJ <sub>94</sub>  | 1998 04 21 | 704 | LINEAR                  |
| (17787) | 1998 FT <sub>39</sub> | 1998 03 20 | 704 | LINEAR                               | (17839) | 1998 HN <sub>95</sub>  | 1998 04 21 | 704 | LINEAR                  |
| (17788) | 1998 FT <sub>41</sub> | 1998 03 20 | 704 | LINEAR                               | (17840) | 1998 HG <sub>96</sub>  | 1998 04 21 | 704 | LINEAR                  |
| (17789) | 1998 FJ <sub>49</sub> | 1998 03 20 | 704 | LINEAR                               | (17841) | 1998 HZ <sub>96</sub>  | 1998 04 21 | 704 | LINEAR                  |
| (17790) | 1998 FN <sub>49</sub> | 1998 03 20 | 704 | LINEAR                               | (17842) | 1998 HN <sub>98</sub>  | 1998 04 21 | 704 | LINEAR                  |
| (17791) | 1998 FN <sub>54</sub> | 1998 03 20 | 704 | LINEAR                               | (17843) | 1998 HD <sub>99</sub>  | 1998 04 21 | 704 | LINEAR                  |

|         |                        |            |     |                  |         |                       |            |     |                        |
|---------|------------------------|------------|-----|------------------|---------|-----------------------|------------|-----|------------------------|
| (17844) | 1998 HM <sub>100</sub> | 1998 04 21 | 704 | LINEAR           | (17896) | 1999 FW <sub>4</sub>  | 1999 03 17 | 691 | Spacewatch             |
| (17845) | 1998 HY <sub>112</sub> | 1998 04 23 | 704 | LINEAR           | (17897) | 1999 FV <sub>8</sub>  | 1999 03 19 | 699 | LONEOS                 |
| (17846) | 1998 HB <sub>115</sub> | 1998 04 23 | 704 | LINEAR           | (17898) | 1999 FB <sub>19</sub> | 1999 03 22 | 699 | LONEOS                 |
| (17847) | 1998 HQ <sub>115</sub> | 1998 04 23 | 704 | LINEAR           | (17899) | 1999 FD <sub>19</sub> | 1999 03 22 | 699 | LONEOS                 |
| (17848) | 1998 HR <sub>133</sub> | 1998 04 19 | 704 | LINEAR           | (17900) | 1999 FO <sub>24</sub> | 1999 03 19 | 704 | LINEAR                 |
| (17849) | 1998 HL <sub>134</sub> | 1998 04 19 | 704 | LINEAR           | (17901) | 1999 FT <sub>25</sub> | 1999 03 19 | 704 | LINEAR                 |
| (17850) | 1998 HR <sub>150</sub> | 1998 04 20 | 691 | Spacewatch       | (17902) | 1999 FM <sub>26</sub> | 1999 03 19 | 704 | LINEAR                 |
| (17851) | 1998 JK                | 1998 05 01 | 566 | JPL/GEODSS NEAT  | (17903) | 1999 FS <sub>27</sub> | 1999 03 19 | 704 | LINEAR                 |
| (17852) | 1998 JN <sub>1</sub>   | 1998 05 01 | 566 | JPL/GEODSS NEAT  | (17904) | 1999 FW <sub>30</sub> | 1999 03 19 | 704 | LINEAR                 |
| (17853) | 1998 JK <sub>3</sub>   | 1998 05 01 | 699 | LONEOS           | (17905) | 1999 FM <sub>31</sub> | 1999 03 19 | 704 | LINEAR                 |
| (17854) | 1998 JC <sub>4</sub>   | 1998 05 05 | 426 | Zoltowski, F. B. | (17906) | 1999 FG <sub>32</sub> | 1999 03 19 | 704 | LINEAR                 |
| (17855) | 1998 KK                | 1998 05 19 | 611 | Starkenburg      | (17907) | 1999 FQ <sub>33</sub> | 1999 03 19 | 704 | LINEAR                 |
| (17856) | 1998 KL <sub>1</sub>   | 1998 05 18 | 699 | LONEOS           | (17908) | 1999 FL <sub>34</sub> | 1999 03 19 | 704 | LINEAR                 |
| (17857) | 1998 KR <sub>1</sub>   | 1998 05 18 | 699 | LONEOS           | (17909) | 1999 FC <sub>35</sub> | 1999 03 19 | 704 | LINEAR                 |
| (17858) | 1998 KS <sub>3</sub>   | 1998 05 22 | 699 | LONEOS           | (17910) | 1999 FG <sub>37</sub> | 1999 03 20 | 704 | LINEAR                 |
| (17859) | 1998 KC <sub>4</sub>   | 1998 05 22 | 699 | LONEOS           | (17911) | 1999 FF <sub>41</sub> | 1999 03 20 | 704 | LINEAR                 |
| (17860) | 1998 KQ <sub>4</sub>   | 1998 05 22 | 699 | LONEOS           | (17912) | 1999 FV <sub>44</sub> | 1999 03 20 | 704 | LINEAR                 |
| (17861) | 1998 KN <sub>24</sub>  | 1998 05 22 | 704 | LINEAR           | (17913) | 1999 FT <sub>52</sub> | 1999 03 20 | 704 | LINEAR                 |
| (17862) | 1998 KT <sub>28</sub>  | 1998 05 22 | 704 | LINEAR           | (17914) | 1999 FA <sub>54</sub> | 1999 03 20 | 704 | LINEAR                 |
| (17863) | 1998 KN <sub>30</sub>  | 1998 05 22 | 704 | LINEAR           | (17915) | 1999 GU               | 1999 04 05 | 120 | Korlević, K.           |
| (17864) | 1998 KK <sub>38</sub>  | 1998 05 22 | 704 | LINEAR           | (17916) | 1999 GZ <sub>3</sub>  | 1999 04 10 | 426 | Zoltowski, F. B.       |
| (17865) | 1998 KS <sub>39</sub>  | 1998 05 22 | 704 | LINEAR           | (17917) | 1999 GN <sub>5</sub>  | 1999 04 15 | 684 | Comba, P. G.           |
| (17866) | 1998 KV <sub>45</sub>  | 1998 05 22 | 704 | LINEAR           | (17918) | 1999 GE <sub>6</sub>  | 1999 04 14 | 905 | Shimizu, Y., Urata, T. |
| (17867) | 1998 KD <sub>46</sub>  | 1998 05 22 | 704 | LINEAR           | (17919) | 1999 GC <sub>8</sub>  | 1999 04 09 | 699 | LONEOS                 |
| (17868) | 1998 KW <sub>46</sub>  | 1998 05 22 | 704 | LINEAR           | (17920) | 1999 GE <sub>9</sub>  | 1999 04 10 | 699 | LONEOS                 |
| (17869) | 1998 MA <sub>14</sub>  | 1998 06 20 | 910 | ODAS             | (17921) | 1999 GC <sub>13</sub> | 1999 04 15 | 704 | LINEAR                 |
| (17870) | 1998 QU <sub>92</sub>  | 1998 08 28 | 704 | LINEAR           | (17922) | 1999 GS <sub>13</sub> | 1999 04 12 | 691 | Spacewatch             |
| (17871) | 1998 RD <sub>58</sub>  | 1998 09 14 | 704 | LINEAR           | (17923) | 1999 GY <sub>16</sub> | 1999 04 15 | 704 | LINEAR                 |
| (17872) | 1998 SP <sub>22</sub>  | 1998 09 23 | 120 | Višnjan          | (17924) | 1999 GA <sub>17</sub> | 1999 04 15 | 704 | LINEAR                 |
| (17873) | 1998 XO <sub>96</sub>  | 1998 12 11 | 303 | Naranjo, O. A.   | (17925) | 1999 GQ <sub>17</sub> | 1999 04 15 | 704 | LINEAR                 |
| (17874) | 1998 YM <sub>3</sub>   | 1998 12 17 | 411 | Kobayashi, T.    | (17926) | 1999 GA <sub>18</sub> | 1999 04 15 | 704 | LINEAR                 |
| (17875) | 1999 AQ <sub>2</sub>   | 1999 01 09 | 411 | Kobayashi, T.    | (17927) | 1999 GL <sub>20</sub> | 1999 04 15 | 704 | LINEAR                 |
| (17876) | 1999 AX <sub>21</sub>  | 1999 01 15 | 120 | Korlević, K.     | (17928) | 1999 GJ <sub>21</sub> | 1999 04 15 | 704 | LINEAR                 |
| (17877) | 1999 AZ <sub>22</sub>  | 1999 01 15 | 411 | Kobayashi, T.    | (17929) | 1999 GQ <sub>21</sub> | 1999 04 15 | 704 | LINEAR                 |
| (17878) | 1999 AR <sub>25</sub>  | 1999 01 15 | 910 | ODAS             | (17930) | 1999 GE <sub>24</sub> | 1999 04 06 | 704 | LINEAR                 |
| (17879) | 1999 BA <sub>14</sub>  | 1999 01 22 | 910 | ODAS             | (17931) | 1999 GA <sub>27</sub> | 1999 04 07 | 704 | LINEAR                 |
| (17880) | 1999 BA <sub>24</sub>  | 1999 01 18 | 704 | LINEAR           | (17932) | 1999 GA <sub>35</sub> | 1999 04 06 | 704 | LINEAR                 |
| (17881) | 1999 CA <sub>51</sub>  | 1999 02 10 | 704 | LINEAR           | (17933) | 1999 GM <sub>36</sub> | 1999 04 12 | 704 | LINEAR                 |
| (17882) | 1999 CX <sub>87</sub>  | 1999 02 10 | 704 | LINEAR           | (17934) | 1999 GK <sub>39</sub> | 1999 04 12 | 704 | LINEAR                 |
| (17883) | 1999 CP <sub>105</sub> | 1999 02 12 | 704 | LINEAR           | (17935) | 1999 GX <sub>45</sub> | 1999 04 12 | 704 | LINEAR                 |
| (17884) | 1999 CD <sub>116</sub> | 1999 02 12 | 704 | LINEAR           | (17936) | 1999 HE <sub>3</sub>  | 1999 04 24 | 428 | Broughton, J.          |
| (17885) | 1999 CF <sub>118</sub> | 1999 02 12 | 704 | LINEAR           | (17937) | 1999 HO <sub>4</sub>  | 1999 04 16 | 691 | Spacewatch             |
| (17886) | 1999 CH <sub>118</sub> | 1999 02 12 | 704 | LINEAR           | (17938) | 1999 HW <sub>6</sub>  | 1999 04 17 | 704 | LINEAR                 |
| (17887) | 1999 DE <sub>1</sub>   | 1999 02 17 | 910 | ODAS             | (17939) | 1999 HH <sub>8</sub>  | 1999 04 16 | 704 | LINEAR                 |
| (17888) | 1999 DB <sub>3</sub>   | 1999 02 21 | 411 | Kobayashi, T.    | (17940) | 1999 JK <sub>2</sub>  | 1999 05 08 | 703 | CSS                    |
| (17889) | 1999 DH <sub>3</sub>   | 1999 02 20 | 704 | LINEAR           | (17941) | 1999 JW <sub>2</sub>  | 1999 05 06 | 683 | Tucker, R. A.          |
| (17890) | 1999 DU <sub>6</sub>   | 1999 02 20 | 704 | LINEAR           | (17942) | 1999 JG <sub>6</sub>  | 1999 05 11 | 905 | Shimizu, Y., Urata, T. |
| (17891) | 1999 EA                | 1999 03 06 | 684 | Comba, P. G.     | (17943) | 1999 JZ <sub>6</sub>  | 1999 05 08 | 703 | CSS                    |
| (17892) | 1999 EO <sub>5</sub>   | 1999 03 15 | 428 | Broughton, J.    | (17944) | 1999 JF <sub>7</sub>  | 1999 05 08 | 703 | CSS                    |
| (17893) | 1999 FO                | 1999 03 17 | 910 | ODAS             | (17945) | 1999 JU <sub>8</sub>  | 1999 05 14 | 428 | Broughton, J.          |
| (17894) | 1999 FP                | 1999 03 17 | 910 | ODAS             | (17946) | 1999 JC <sub>9</sub>  | 1999 05 07 | 703 | CSS                    |
| (17895) | 1999 FZ <sub>2</sub>   | 1999 03 17 | 691 | Spacewatch       | (17947) | 1999 JV <sub>10</sub> | 1999 05 09 | 703 | CSS                    |

|         |                       |            |     |           |
|---------|-----------------------|------------|-----|-----------|
| (17948) | 1999 JQ <sub>15</sub> | 1999 05 12 | 358 | Okuni, T. |
| (17949) | 1999 JA <sub>18</sub> | 1999 05 10 | 704 | LINEAR    |
| (17950) | 1999 JS <sub>18</sub> | 1999 05 10 | 704 | LINEAR    |
| (17951) | 1999 JO <sub>19</sub> | 1999 05 10 | 704 | LINEAR    |
| (17952) | 1999 JT <sub>19</sub> | 1999 05 10 | 704 | LINEAR    |
| (17953) | 1999 JB <sub>20</sub> | 1999 05 10 | 704 | LINEAR    |
| (17954) | 1999 JP <sub>20</sub> | 1999 05 10 | 704 | LINEAR    |
| (17955) | 1999 JZ <sub>22</sub> | 1999 05 10 | 704 | LINEAR    |
| (17956) | 1999 JC <sub>28</sub> | 1999 05 10 | 704 | LINEAR    |
| (17957) | 1999 JE <sub>29</sub> | 1999 05 10 | 704 | LINEAR    |
| (17958) | 1999 JE <sub>33</sub> | 1999 05 10 | 704 | LINEAR    |
| (17959) | 1999 JZ <sub>33</sub> | 1999 05 10 | 704 | LINEAR    |
| (17960) | 1999 JB <sub>36</sub> | 1999 05 10 | 704 | LINEAR    |
| (17961) | 1999 JB <sub>37</sub> | 1999 05 10 | 704 | LINEAR    |
| (17962) | 1999 JD <sub>37</sub> | 1999 05 10 | 704 | LINEAR    |
| (17963) | 1999 JM <sub>40</sub> | 1999 05 10 | 704 | LINEAR    |
| (17964) | 1999 JY <sub>41</sub> | 1999 05 10 | 704 | LINEAR    |
| (17965) | 1999 JO <sub>43</sub> | 1999 05 10 | 704 | LINEAR    |
| (17966) | 1999 JS <sub>43</sub> | 1999 05 10 | 704 | LINEAR    |
| (17967) | 1999 JT <sub>45</sub> | 1999 05 10 | 704 | LINEAR    |
| (17968) | 1999 JX <sub>46</sub> | 1999 05 10 | 704 | LINEAR    |
| (17969) | 1999 JB <sub>47</sub> | 1999 05 10 | 704 | LINEAR    |
| (17970) | 1999 JA <sub>48</sub> | 1999 05 10 | 704 | LINEAR    |
| (17971) | 1999 JZ <sub>50</sub> | 1999 05 10 | 704 | LINEAR    |
| (17972) | 1999 JH <sub>51</sub> | 1999 05 10 | 704 | LINEAR    |
| (17973) | 1999 JP <sub>51</sub> | 1999 05 10 | 704 | LINEAR    |
| (17974) | 1999 JL <sub>52</sub> | 1999 05 10 | 704 | LINEAR    |
| (17975) | 1999 JB <sub>53</sub> | 1999 05 10 | 704 | LINEAR    |
| (17976) | 1999 JQ <sub>54</sub> | 1999 05 10 | 704 | LINEAR    |
| (17977) | 1999 JR <sub>54</sub> | 1999 05 10 | 704 | LINEAR    |
| (17978) | 1999 JS <sub>54</sub> | 1999 05 10 | 704 | LINEAR    |
| (17979) | 1999 JS <sub>55</sub> | 1999 05 10 | 704 | LINEAR    |
| (17980) | 1999 JN <sub>56</sub> | 1999 05 10 | 704 | LINEAR    |
| (17981) | 1999 JZ <sub>56</sub> | 1999 05 10 | 704 | LINEAR    |
| (17982) | 1999 JK <sub>57</sub> | 1999 05 10 | 704 | LINEAR    |
| (17983) | 1999 JV <sub>59</sub> | 1999 05 10 | 704 | LINEAR    |
| (17984) | 1999 JU <sub>60</sub> | 1999 05 10 | 704 | LINEAR    |
| (17985) | 1999 JC <sub>62</sub> | 1999 05 10 | 704 | LINEAR    |
| (17986) | 1999 JF <sub>62</sub> | 1999 05 10 | 704 | LINEAR    |
| (17987) | 1999 JQ <sub>62</sub> | 1999 05 10 | 704 | LINEAR    |
| (17988) | 1999 JR <sub>62</sub> | 1999 05 10 | 704 | LINEAR    |
| (17989) | 1999 JE <sub>64</sub> | 1999 05 10 | 704 | LINEAR    |
| (17990) | 1999 JK <sub>64</sub> | 1999 05 10 | 704 | LINEAR    |
| (17991) | 1999 JN <sub>65</sub> | 1999 05 12 | 704 | LINEAR    |
| (17992) | 1999 JR <sub>65</sub> | 1999 05 12 | 704 | LINEAR    |
| (17993) | 1999 JT <sub>68</sub> | 1999 05 12 | 704 | LINEAR    |
| (17994) | 1999 JF <sub>70</sub> | 1999 05 12 | 704 | LINEAR    |
| (17995) | 1999 JF <sub>74</sub> | 1999 05 12 | 704 | LINEAR    |
| (17996) | 1999 JQ <sub>75</sub> | 1999 05 10 | 704 | LINEAR    |
| (17997) | 1999 JN <sub>78</sub> | 1999 05 13 | 704 | LINEAR    |
| (17998) | 1999 JN <sub>80</sub> | 1999 05 12 | 704 | LINEAR    |
| (17999) | 1999 JO <sub>80</sub> | 1999 05 12 | 704 | LINEAR    |

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|---------|------------------------|------------|-----|--------------|
| (18000) | 1999 JX <sub>80</sub>  | 1999 05 12 | 704 | LINEAR       |
| (18001) | 1999 JY <sub>83</sub>  | 1999 05 12 | 704 | LINEAR       |
| (18002) | 1999 JJ <sub>84</sub>  | 1999 05 12 | 704 | LINEAR       |
| (18003) | 1999 JU <sub>84</sub>  | 1999 05 13 | 704 | LINEAR       |
| (18004) | 1999 JD <sub>86</sub>  | 1999 05 12 | 704 | LINEAR       |
| (18005) | 1999 JD <sub>91</sub>  | 1999 05 12 | 704 | LINEAR       |
| (18006) | 1999 JE <sub>94</sub>  | 1999 05 12 | 704 | LINEAR       |
| (18007) | 1999 JK <sub>97</sub>  | 1999 05 12 | 704 | LINEAR       |
| (18008) | 1999 JV <sub>99</sub>  | 1999 05 12 | 704 | LINEAR       |
| (18009) | 1999 JP <sub>100</sub> | 1999 05 12 | 704 | LINEAR       |
| (18010) | 1999 JQ <sub>100</sub> | 1999 05 12 | 704 | LINEAR       |
| (18011) | 1999 JQ <sub>113</sub> | 1999 05 13 | 704 | LINEAR       |
| (18012) | 1999 JM <sub>114</sub> | 1999 05 13 | 704 | LINEAR       |
| (18013) | 1999 JS <sub>114</sub> | 1999 05 13 | 704 | LINEAR       |
| (18014) | 1999 JC <sub>121</sub> | 1999 05 13 | 704 | LINEAR       |
| (18015) | 1999 JD <sub>121</sub> | 1999 05 13 | 704 | LINEAR       |
| (18016) | 1999 JU <sub>122</sub> | 1999 05 13 | 704 | LINEAR       |
| (18017) | 1999 JC <sub>124</sub> | 1999 05 14 | 704 | LINEAR       |
| (18018) | 1999 JR <sub>125</sub> | 1999 05 10 | 704 | LINEAR       |
| (18019) | 1999 JJ <sub>126</sub> | 1999 05 13 | 704 | LINEAR       |
| (18020) | 1999 JT <sub>126</sub> | 1999 05 13 | 704 | LINEAR       |
| (18021) | 1999 JH <sub>127</sub> | 1999 05 13 | 704 | LINEAR       |
| (18022) | 1999 JN <sub>127</sub> | 1999 05 13 | 704 | LINEAR       |
| (18023) | 1999 JQ <sub>129</sub> | 1999 05 12 | 704 | LINEAR       |
| (18024) | 1999 KK <sub>4</sub>   | 1999 05 20 | 732 | Roe, J.      |
| (18025) | 1999 KF <sub>5</sub>   | 1999 05 18 | 691 | Spacewatch   |
| (18026) | 1999 KG <sub>13</sub>  | 1999 05 18 | 704 | LINEAR       |
| (18027) | 1999 KL <sub>14</sub>  | 1999 05 18 | 704 | LINEAR       |
| (18028) | 1999 KO <sub>14</sub>  | 1999 05 18 | 704 | LINEAR       |
| (18029) | 1999 KA <sub>16</sub>  | 1999 05 21 | 704 | LINEAR       |
| (18030) | 1999 LX <sub>4</sub>   | 1999 06 08 | 704 | LINEAR       |
| (18031) | 1999 LO <sub>14</sub>  | 1999 06 09 | 704 | LINEAR       |
| (18032) | 1999 MG <sub>1</sub>   | 1999 06 20 | 699 | LONEOS       |
| (18033) | 1999 NR <sub>4</sub>   | 1999 07 14 | 727 | Stafford, T. |
| (18034) | 1999 NF <sub>6</sub>   | 1999 07 13 | 704 | LINEAR       |
| (18035) | 1999 NJ <sub>7</sub>   | 1999 07 13 | 704 | LINEAR       |
| (18036) | 1999 ND <sub>26</sub>  | 1999 07 14 | 704 | LINEAR       |
| (18037) | 1999 NA <sub>38</sub>  | 1999 07 14 | 704 | LINEAR       |
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| (18039) | 1999 ND <sub>49</sub>  | 1999 07 13 | 704 | LINEAR       |
| (18040) | 1999 NC <sub>60</sub>  | 1999 07 13 | 704 | LINEAR       |
| (18041) | 1999 RX <sub>13</sub>  | 1999 09 07 | 704 | LINEAR       |
| (18042) | 1999 RF <sub>27</sub>  | 1999 09 07 | 704 | LINEAR       |
| (18043) | 1999 RQ <sub>54</sub>  | 1999 09 07 | 704 | LINEAR       |
| (18044) | 1999 RS <sub>89</sub>  | 1999 09 07 | 704 | LINEAR       |
| (18045) | 1999 RR <sub>100</sub> | 1999 09 08 | 704 | LINEAR       |
| (18046) | 1999 RN <sub>116</sub> | 1999 09 09 | 704 | LINEAR       |
| (18047) | 1999 RP <sub>145</sub> | 1999 09 09 | 704 | LINEAR       |
| (18048) | 1999 RG <sub>170</sub> | 1999 09 09 | 704 | LINEAR       |
| (18049) | 1999 RX <sub>195</sub> | 1999 09 08 | 704 | LINEAR       |
| (18050) | 1999 RS <sub>196</sub> | 1999 09 08 | 704 | LINEAR       |
| (18051) | 1999 RU <sub>196</sub> | 1999 09 08 | 704 | LINEAR       |

|         |                        |            |     |                   |         |                       |            |     |               |
|---------|------------------------|------------|-----|-------------------|---------|-----------------------|------------|-----|---------------|
| (18052) | 1999 RV <sub>199</sub> | 1999 09 08 | 704 | LINEAR            | (18104) | 2000 NP <sub>3</sub>  | 2000 07 03 | 704 | LINEAR        |
| (18053) | 1999 RU <sub>208</sub> | 1999 09 08 | 704 | LINEAR            | (18105) | 2000 NT <sub>3</sub>  | 2000 07 07 | 704 | LINEAR        |
| (18054) | 1999 SW <sub>7</sub>   | 1999 09 29 | 704 | LINEAR            | (18106) | 2000 NX <sub>3</sub>  | 2000 07 04 | 699 | LONEOS        |
| (18055) | 1999 TJ <sub>13</sub>  | 1999 10 11 | 734 | Hug, G., Bell, G. | (18107) | 2000 NC <sub>5</sub>  | 2000 07 07 | 704 | LINEAR        |
| (18056) | 1999 TV <sub>15</sub>  | 1999 10 11 | 143 | Sposetti, S.      | (18108) | 2000 NT <sub>5</sub>  | 2000 07 08 | 704 | LINEAR        |
| (18057) | 1999 VK <sub>10</sub>  | 1999 11 09 | 411 | Kobayashi, T.     | (18109) | 2000 NG <sub>11</sub> | 2000 07 07 | 704 | LINEAR        |
| (18058) | 1999 XY <sub>129</sub> | 1999 12 12 | 704 | LINEAR            | (18110) | 2000 NK <sub>13</sub> | 2000 07 05 | 699 | LONEOS        |
| (18059) | 1999 XL <sub>137</sub> | 1999 12 15 | 684 | Comba, P. G.      | (18111) | 2000 NB <sub>14</sub> | 2000 07 05 | 699 | LONEOS        |
| (18060) | 1999 XJ <sub>156</sub> | 1999 12 08 | 704 | LINEAR            | (18112) | 2000 NX <sub>17</sub> | 2000 07 05 | 699 | LONEOS        |
| (18061) | 1999 XH <sub>179</sub> | 1999 12 10 | 704 | LINEAR            | (18113) | 2000 NC <sub>19</sub> | 2000 07 05 | 699 | LONEOS        |
| (18062) | 1999 XY <sub>187</sub> | 1999 12 12 | 704 | LINEAR            | (18114) | 2000 NN <sub>19</sub> | 2000 07 05 | 699 | LONEOS        |
| (18063) | 1999 XW <sub>211</sub> | 1999 12 13 | 704 | LINEAR            | (18115) | 2000 NT <sub>19</sub> | 2000 07 05 | 699 | LONEOS        |
| (18064) | 1999 XY <sub>242</sub> | 1999 12 13 | 703 | CSS               | (18116) | 2000 NY <sub>22</sub> | 2000 07 05 | 699 | LONEOS        |
| (18065) | 2000 AM <sub>41</sub>  | 2000 01 03 | 704 | LINEAR            | (18117) | 2000 NY <sub>23</sub> | 2000 07 05 | 699 | LONEOS        |
| (18066) | 2000 AR <sub>79</sub>  | 2000 01 05 | 704 | LINEAR            | (18118) | 2000 NB <sub>24</sub> | 2000 07 05 | 691 | Spacewatch    |
| (18067) | 2000 AB <sub>98</sub>  | 2000 01 04 | 704 | LINEAR            | (18119) | 2000 NZ <sub>24</sub> | 2000 07 04 | 699 | LONEOS        |
| (18068) | 2000 AF <sub>184</sub> | 2000 01 07 | 704 | LINEAR            | (18120) | 2000 NA <sub>25</sub> | 2000 07 04 | 699 | LONEOS        |
| (18069) | 2000 AS <sub>199</sub> | 2000 01 09 | 704 | LINEAR            | (18121) | 2000 NF <sub>25</sub> | 2000 07 04 | 699 | LONEOS        |
| (18070) | 2000 AC <sub>205</sub> | 2000 01 13 | 120 | Korlević, K.      | (18122) | 2000 NL <sub>27</sub> | 2000 07 04 | 699 | LONEOS        |
| (18071) | 2000 BA <sub>27</sub>  | 2000 01 30 | 704 | LINEAR            | (18123) | 2000 NS <sub>27</sub> | 2000 07 04 | 699 | LONEOS        |
| (18072) | 2000 CL <sub>71</sub>  | 2000 02 07 | 704 | LINEAR            | (18124) | 2000 NE <sub>28</sub> | 2000 07 03 | 704 | LINEAR        |
| (18073) | 2000 CB <sub>82</sub>  | 2000 02 04 | 704 | LINEAR            | (18125) | 2000 OF               | 2000 07 22 | 428 | Broughton, J. |
| (18074) | 2000 DW                | 2000 02 24 | 411 | Kobayashi, T.     | (18126) | 2000 OU <sub>3</sub>  | 2000 07 24 | 704 | LINEAR        |
| (18075) | 2000 DD <sub>5</sub>   | 2000 02 28 | 704 | LINEAR            | (18127) | 2000 OX <sub>3</sub>  | 2000 07 24 | 704 | LINEAR        |
| (18076) | 2000 DV <sub>59</sub>  | 2000 02 29 | 704 | LINEAR            | (18128) | 2000 OD <sub>5</sub>  | 2000 07 24 | 704 | LINEAR        |
| (18077) | 2000 EM <sub>148</sub> | 2000 03 04 | 703 | CSS               | (18129) | 2000 OH <sub>5</sub>  | 2000 07 24 | 704 | LINEAR        |
| (18078) | 2000 FL <sub>31</sub>  | 2000 03 28 | 704 | LINEAR            | (18130) | 2000 OK <sub>5</sub>  | 2000 07 24 | 704 | LINEAR        |
| (18079) | 2000 FJ <sub>63</sub>  | 2000 03 27 | 699 | LONEOS            | (18131) | 2000 OM <sub>5</sub>  | 2000 07 24 | 704 | LINEAR        |
| (18080) | 2000 GW <sub>105</sub> | 2000 04 07 | 704 | LINEAR            | (18132) | 2000 ON <sub>9</sub>  | 2000 07 30 | 428 | Broughton, J. |
| (18081) | 2000 GB <sub>126</sub> | 2000 04 07 | 704 | LINEAR            | (18133) | 2000 OL <sub>12</sub> | 2000 07 23 | 704 | LINEAR        |
| (18082) | 2000 GB <sub>136</sub> | 2000 04 12 | 704 | LINEAR            | (18134) | 2000 OS <sub>14</sub> | 2000 07 23 | 704 | LINEAR        |
| (18083) | 2000 HD <sub>22</sub>  | 2000 04 29 | 704 | LINEAR            | (18135) | 2000 OQ <sub>20</sub> | 2000 07 31 | 704 | LINEAR        |
| (18084) | 2000 HP <sub>47</sub>  | 2000 04 29 | 704 | LINEAR            | (18136) | 2000 OD <sub>21</sub> | 2000 07 31 | 704 | LINEAR        |
| (18085) | 2000 JZ <sub>14</sub>  | 2000 05 06 | 704 | LINEAR            | (18137) | 2000 OU <sub>30</sub> | 2000 07 30 | 704 | LINEAR        |
| (18086) | 2000 JQ <sub>21</sub>  | 2000 05 06 | 704 | LINEAR            | (18138) | 2000 OP <sub>35</sub> | 2000 07 31 | 704 | LINEAR        |
| (18087) | 2000 JA <sub>22</sub>  | 2000 05 06 | 704 | LINEAR            | (18139) | 2000 OF <sub>37</sub> | 2000 07 30 | 704 | LINEAR        |
| (18088) | 2000 JS <sub>30</sub>  | 2000 05 07 | 704 | LINEAR            | (18140) | 2000 OD <sub>39</sub> | 2000 07 30 | 704 | LINEAR        |
| (18089) | 2000 JB <sub>41</sub>  | 2000 05 06 | 704 | LINEAR            | (18141) | 2000 OK <sub>42</sub> | 2000 07 30 | 704 | LINEAR        |
| (18090) | 2000 JA <sub>56</sub>  | 2000 05 06 | 704 | LINEAR            | (18142) | 2000 OG <sub>47</sub> | 2000 07 31 | 704 | LINEAR        |
| (18091) | 2000 JN <sub>58</sub>  | 2000 05 06 | 704 | LINEAR            | (18143) | 2000 OK <sub>48</sub> | 2000 07 31 | 704 | LINEAR        |
| (18092) | 2000 KR <sub>29</sub>  | 2000 05 28 | 704 | LINEAR            | (18144) | 2000 OO <sub>48</sub> | 2000 07 31 | 704 | LINEAR        |
| (18093) | 2000 KS <sub>31</sub>  | 2000 05 28 | 704 | LINEAR            | (18145) | 2000 OX <sub>48</sub> | 2000 07 31 | 704 | LINEAR        |
| (18094) | 2000 KN <sub>56</sub>  | 2000 05 27 | 704 | LINEAR            | (18146) | 2000 OU <sub>49</sub> | 2000 07 31 | 704 | LINEAR        |
| (18095) | 2000 LL <sub>5</sub>   | 2000 06 05 | 704 | LINEAR            | (18147) | 2000 OY <sub>50</sub> | 2000 07 31 | 704 | LINEAR        |
| (18096) | 2000 LM <sub>16</sub>  | 2000 06 01 | 704 | LINEAR            | (18148) | 2000 OZ <sub>57</sub> | 2000 07 29 | 699 | LONEOS        |
| (18097) | 2000 LU <sub>19</sub>  | 2000 06 08 | 704 | LINEAR            | (18149) | 2000 OB <sub>58</sub> | 2000 07 29 | 699 | LONEOS        |
| (18098) | 2000 LR <sub>20</sub>  | 2000 06 08 | 704 | LINEAR            | (18150) | 2000 OC <sub>60</sub> | 2000 07 29 | 699 | LONEOS        |
| (18099) | 2000 LD <sub>27</sub>  | 2000 06 06 | 699 | LONEOS            | (18151) | 2000 OT <sub>60</sub> | 2000 07 29 | 699 | LONEOS        |
| (18100) | 2000 LE <sub>28</sub>  | 2000 06 06 | 699 | LONEOS            | (18152) | 2000 OW <sub>60</sub> | 2000 07 29 | 699 | LONEOS        |
| (18101) | 2000 LF <sub>32</sub>  | 2000 06 05 | 699 | LONEOS            | (18153) | 2000 OC <sub>61</sub> | 2000 07 30 | 704 | LINEAR        |
| (18102) | 2000 LN <sub>34</sub>  | 2000 06 03 | 699 | LONEOS            | (18154) | 2000 PA               | 2000 08 01 | 106 | Crni Vrh      |
| (18103) | 2000 MC <sub>5</sub>   | 2000 06 26 | 704 | LINEAR            | (18155) | 2000 PF <sub>2</sub>  | 2000 08 01 | 704 | LINEAR        |

|         |                        |            |     |                          |         |          |            |     |                      |
|---------|------------------------|------------|-----|--------------------------|---------|----------|------------|-----|----------------------|
| (18156) | 2000 PU <sub>4</sub>   | 2000 08 03 | 300 | BATTeRS                  | (18208) | 4095 P-L | 1960 09 24 | 675 | van Houten & Gehrels |
| (18157) | 2000 PH <sub>10</sub>  | 2000 08 01 | 704 | LINEAR                   | (18209) | 4158 P-L | 1960 09 24 | 675 | van Houten & Gehrels |
| (18158) | 2000 PM <sub>10</sub>  | 2000 08 01 | 704 | LINEAR                   | (18210) | 4529 P-L | 1960 09 24 | 675 | van Houten & Gehrels |
| (18159) | 2000 PW <sub>10</sub>  | 2000 08 01 | 704 | LINEAR                   | (18211) | 4597 P-L | 1960 09 24 | 675 | van Houten & Gehrels |
| (18160) | 2000 PY <sub>12</sub>  | 2000 08 07 | 300 | BATTeRS                  | (18212) | 4603 P-L | 1960 09 24 | 675 | van Houten & Gehrels |
| (18161) | 2000 PZ <sub>12</sub>  | 2000 08 07 | 300 | BATTeRS                  | (18213) | 4607 P-L | 1960 09 24 | 675 | van Houten & Gehrels |
| (18162) | 2000 PX <sub>15</sub>  | 2000 08 01 | 704 | LINEAR                   | (18214) | 4615 P-L | 1960 09 24 | 675 | van Houten & Gehrels |
| (18163) | 2000 PF <sub>16</sub>  | 2000 08 01 | 704 | LINEAR                   | (18215) | 4792 P-L | 1960 09 24 | 675 | van Houten & Gehrels |
| (18164) | 2000 PA <sub>20</sub>  | 2000 08 01 | 704 | LINEAR                   | (18216) | 4917 P-L | 1960 09 24 | 675 | van Houten & Gehrels |
| (18165) | 2000 PN <sub>20</sub>  | 2000 08 01 | 704 | LINEAR                   | (18217) | 5021 P-L | 1960 10 17 | 675 | van Houten & Gehrels |
| (18166) | 2000 PG <sub>27</sub>  | 2000 08 08 | 860 | Holvorcem, P. R.         | (18218) | 6245 P-L | 1960 09 24 | 675 | van Houten & Gehrels |
| (18167) | 2000 PS <sub>27</sub>  | 2000 08 06 | 184 | Valmeca                  | (18219) | 6260 P-L | 1960 09 24 | 675 | van Houten & Gehrels |
| (18168) | 2000 PN <sub>28</sub>  | 2000 08 04 | 608 | JPL/NEAT                 | (18220) | 6286 P-L | 1960 09 24 | 675 | van Houten & Gehrels |
| (18169) | 2000 QF                | 2000 08 20 | 596 | Casulli, V. S.           | (18221) | 6526 P-L | 1960 09 24 | 675 | van Houten & Gehrels |
| (18170) | 2000 QW <sub>2</sub>   | 2000 08 24 | 704 | LINEAR                   | (18222) | 6669 P-L | 1960 09 24 | 675 | van Houten & Gehrels |
| (18171) | 2000 QB <sub>5</sub>   | 2000 08 24 | 704 | LINEAR                   | (18223) | 6700 P-L | 1960 09 24 | 675 | van Houten & Gehrels |
| (18172) | 2000 QL <sub>7</sub>   | 2000 08 25 | 704 | LINEAR                   | (18224) | 6726 P-L | 1960 09 24 | 675 | van Houten & Gehrels |
| (18173) | 2000 QD <sub>8</sub>   | 2000 08 25 | 120 | Korlević, K., Jurić, M.  | (18225) | 7069 P-L | 1960 10 22 | 675 | van Houten & Gehrels |
| (18174) | 2000 QW <sub>14</sub>  | 2000 08 24 | 704 | LINEAR                   | (18226) | 1182 T-1 | 1971 03 25 | 675 | van Houten & Gehrels |
| (18175) | 2000 QB <sub>15</sub>  | 2000 08 24 | 704 | LINEAR                   | (18227) | 1222 T-1 | 1971 03 25 | 675 | van Houten & Gehrels |
| (18176) | 2000 QG <sub>22</sub>  | 2000 08 24 | 704 | LINEAR                   | (18228) | 3163 T-1 | 1971 03 26 | 675 | van Houten & Gehrels |
| (18177) | 2000 QK <sub>27</sub>  | 2000 08 24 | 704 | LINEAR                   | (18229) | 3222 T-1 | 1971 03 26 | 675 | van Houten & Gehrels |
| (18178) | 2000 QP <sub>28</sub>  | 2000 08 24 | 704 | LINEAR                   | (18230) | 3285 T-1 | 1971 03 26 | 675 | van Houten & Gehrels |
| (18179) | 2000 QV <sub>29</sub>  | 2000 08 25 | 704 | LINEAR                   | (18231) | 3286 T-1 | 1971 03 26 | 675 | van Houten & Gehrels |
| (18180) | 2000 QB <sub>30</sub>  | 2000 08 25 | 704 | LINEAR                   | (18232) | 3322 T-1 | 1971 03 26 | 675 | van Houten & Gehrels |
| (18181) | 2000 QD <sub>34</sub>  | 2000 08 26 | 704 | LINEAR                   | (18233) | 4068 T-1 | 1971 03 26 | 675 | van Houten & Gehrels |
| (18182) | 2000 QC <sub>35</sub>  | 2000 08 27 | 557 | Pravec, P., Kušnirák, P. | (18234) | 4262 T-1 | 1971 03 26 | 675 | van Houten & Gehrels |
| (18183) | 2000 QG <sub>37</sub>  | 2000 08 24 | 704 | LINEAR                   | (18235) | 1003 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (18184) | 2000 QR <sub>37</sub>  | 2000 08 24 | 704 | LINEAR                   | (18236) | 1059 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (18185) | 2000 QW <sub>49</sub>  | 2000 08 24 | 704 | LINEAR                   | (18237) | 1182 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (18186) | 2000 QW <sub>50</sub>  | 2000 08 24 | 704 | LINEAR                   | (18238) | 1241 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (18187) | 2000 QQ <sub>53</sub>  | 2000 08 25 | 704 | LINEAR                   | (18239) | 1251 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (18188) | 2000 QD <sub>55</sub>  | 2000 08 25 | 704 | LINEAR                   | (18240) | 1317 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (18189) | 2000 QN <sub>82</sub>  | 2000 08 24 | 704 | LINEAR                   | (18241) | 1325 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (18190) | 2000 QY <sub>89</sub>  | 2000 08 25 | 704 | LINEAR                   | (18242) | 2102 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (18191) | 2000 QL <sub>90</sub>  | 2000 08 25 | 704 | LINEAR                   | (18243) | 2272 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (18192) | 2000 QP <sub>90</sub>  | 2000 08 25 | 704 | LINEAR                   | (18244) | 3008 T-2 | 1973 09 30 | 675 | van Houten & Gehrels |
| (18193) | 2000 QT <sub>93</sub>  | 2000 08 26 | 704 | LINEAR                   | (18245) | 3061 T-2 | 1973 09 30 | 675 | van Houten & Gehrels |
| (18194) | 2000 QE <sub>100</sub> | 2000 08 28 | 704 | LINEAR                   | (18246) | 3088 T-2 | 1973 09 30 | 675 | van Houten & Gehrels |
| (18195) | 2000 QG <sub>116</sub> | 2000 08 28 | 704 | LINEAR                   | (18247) | 3151 T-2 | 1973 09 30 | 675 | van Houten & Gehrels |
| (18196) | 2000 QY <sub>132</sub> | 2000 08 26 | 704 | LINEAR                   | (18248) | 3152 T-2 | 1973 09 30 | 675 | van Houten & Gehrels |
| (18197) | 2055 P-L               | 1960 09 24 | 675 | van Houten & Gehrels     | (18249) | 3175 T-2 | 1973 09 30 | 675 | van Houten & Gehrels |
| (18198) | 2056 P-L               | 1960 09 24 | 675 | van Houten & Gehrels     | (18250) | 3178 T-2 | 1973 09 30 | 675 | van Houten & Gehrels |
| (18199) | 2583 P-L               | 1960 09 24 | 675 | van Houten & Gehrels     | (18251) | 3207 T-2 | 1973 09 30 | 675 | van Houten & Gehrels |
| (18200) | 2714 P-L               | 1960 09 24 | 675 | van Houten & Gehrels     | (18252) | 3282 T-2 | 1973 09 30 | 675 | van Houten & Gehrels |
| (18201) | 2733 P-L               | 1960 09 24 | 675 | van Houten & Gehrels     | (18253) | 3295 T-2 | 1973 09 30 | 675 | van Houten & Gehrels |
| (18202) | 2757 P-L               | 1960 09 24 | 675 | van Houten & Gehrels     | (18254) | 4062 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (18203) | 2837 P-L               | 1960 09 24 | 675 | van Houten & Gehrels     | (18255) | 4188 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (18204) | 3065 P-L               | 1960 09 24 | 675 | van Houten & Gehrels     | (18256) | 4195 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (18205) | 3090 P-L               | 1960 09 24 | 675 | van Houten & Gehrels     | (18257) | 4209 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (18206) | 3093 P-L               | 1960 09 24 | 675 | van Houten & Gehrels     | (18258) | 4250 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |
| (18207) | 4041 P-L               | 1960 09 24 | 675 | van Houten & Gehrels     | (18259) | 4311 T-2 | 1973 09 29 | 675 | van Houten & Gehrels |

|         |          |            |     |                      |
|---------|----------|------------|-----|----------------------|
| (18260) | 5056 T-2 | 1973 09 25 | 675 | van Houten & Gehrels |
| (18261) | 5065 T-2 | 1973 09 25 | 675 | van Houten & Gehrels |
| (18262) | 5125 T-2 | 1973 09 25 | 675 | van Houten & Gehrels |
| (18263) | 5167 T-2 | 1973 09 25 | 675 | van Houten & Gehrels |
| (18264) | 5184 T-2 | 1973 09 25 | 675 | van Houten & Gehrels |
| (18265) | 1136 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (18266) | 1189 T-3 | 1977 10 17 | 675 | van Houten & Gehrels |
| (18267) | 2122 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (18268) | 2140 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (18269) | 2206 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (18270) | 2312 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (18271) | 2332 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (18272) | 2495 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (18273) | 3140 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (18274) | 3150 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (18275) | 3173 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (18276) | 3355 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (18277) | 3446 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (18278) | 4035 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (18279) | 4221 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (18280) | 4245 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (18281) | 4317 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (18282) | 4369 T-3 | 1977 10 16 | 675 | van Houten & Gehrels |
| (18283) | 5165 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> |
|---------|----------|-----------|-----------|-----------|----------|-----------|-----------|------------|
| (17350) | 13.9     | 20.04430  | 155.79469 | 153.19280 | 13.20417 | 0.1365365 | 2.7465935 | 4027       |
| (17351) | 11.3     | 57.71746  | 45.97348  | 2.99078   | 15.27475 | 0.0971834 | 5.1850537 | 4027       |
| (17352) | 15.0     | 293.78787 | 48.43176  | 25.64635  | 10.07847 | 0.0957946 | 2.5978949 | 4027       |
| (17353) | 14.5     | 164.14929 | 325.54981 | 24.40553  | 4.34164  | 0.2173135 | 2.2437971 | 4028       |
| (17354) | 14.2     | 206.42900 | 14.96010  | 155.21242 | 2.01598  | 0.1041642 | 2.6205641 | 4028       |
| (17355) | 15.2     | 355.07676 | 102.37268 | 256.54567 | 3.11528  | 0.2311462 | 2.6666043 | 4028       |
| (17356) | 14.4     | 217.33557 | 36.92268  | 303.04921 | 6.11910  | 0.2215889 | 2.2327874 | 4029       |
| (17357) | 14.4     | 27.62027  | 222.68406 | 122.12069 | 15.12975 | 0.2281598 | 2.6575288 | 4029       |
| (17358) | 14.3     | 30.35162  | 127.65838 | 213.73858 | 6.08769  | 0.1277267 | 2.3725835 | 4029       |
| (17359) | 14.2     | 246.34202 | 227.94032 | 236.08888 | 6.47064  | 0.1811000 | 2.7261250 | 4030       |
| (17360) | 16.3     | 326.60261 | 145.73497 | 223.97650 | 4.46359  | 0.0736414 | 2.1642413 | 4030       |
| (17361) | 14.2     | 43.51896  | 90.44065  | 217.74190 | 13.75788 | 0.2298708 | 3.1173428 | 4030       |
| (17362) | 13.3     | 42.58607  | 101.63438 | 212.25311 | 7.61385  | 0.2753806 | 3.1087555 | 4030       |
| (17363) | 15.8     | 319.67135 | 5.59541   | 50.57889  | 1.47085  | 0.2291016 | 2.3974200 | 4031       |
| (17364) | 13.9     | 162.48059 | 109.56819 | 68.98484  | 10.35933 | 0.1361144 | 2.7761586 | 4031       |
| (17365) | 10.3     | 356.43869 | 116.46054 | 252.23281 | 11.66110 | 0.0788683 | 5.2487744 | 4031       |
| (17366) | 13.9     | 264.68022 | 160.99039 | 317.73903 | 0.83739  | 0.0490654 | 2.9215607 | 4031       |
| (17367) | 14.9     | 293.63557 | 259.74194 | 138.33146 | 14.18847 | 0.1986974 | 2.6064953 | 4032       |
| (17368) | 14.8     | 175.39375 | 243.50670 | 315.01067 | 6.41444  | 0.1231086 | 2.2700401 | 4032       |
| (17369) | 14.1     | 0.93285   | 87.88873  | 333.62935 | 1.05814  | 0.0931518 | 2.9159870 | 4032       |
| (17370) | 13.1     | 238.02183 | 209.66154 | 316.90936 | 13.56839 | 0.0275997 | 3.1451717 | 4033       |
| (17371) | 13.8     | 233.21413 | 185.09543 | 329.33549 | 14.85168 | 0.0622750 | 3.0985856 | 4033       |
| (17372) | 14.2     | 263.97521 | 267.68028 | 209.72860 | 14.10124 | 0.0491258 | 2.6300596 | 4033       |
| (17373) | 13.9     | 42.89454  | 10.73355  | 312.00732 | 12.84061 | 0.1977977 | 3.1606278 | 4033       |

|         |      |           |           |           |          |           |           |      |
|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|
| (17374) | 14.9 | 112.03336 | 348.46825 | 246.02131 | 6.74066  | 0.1746640 | 2.3462295 | 4034 |
| (17375) | 14.1 | 350.58526 | 167.57870 | 215.55487 | 10.05889 | 0.0347234 | 3.1140846 | 4034 |
| (17376) | 14.0 | 229.07029 | 274.52573 | 228.64277 | 8.51203  | 0.1476759 | 3.1053179 | 4034 |
| (17377) | 14.3 | 303.94050 | 223.88369 | 224.69504 | 10.50425 | 0.2141767 | 2.5955526 | 4034 |
| (17378) | 14.3 | 287.37073 | 188.74142 | 272.39469 | 8.16402  | 0.0573349 | 3.0886803 | 4035 |
| (17379) | 15.3 | 246.26705 | 177.23281 | 306.98939 | 4.24061  | 0.0666878 | 2.3082830 | 4035 |
| (17380) | 15.4 | 155.37632 | 339.73723 | 204.14748 | 4.51191  | 0.1005391 | 2.3388624 | 4035 |
| (17381) | 15.0 | 73.66480  | 0.85320   | 286.40692 | 4.40714  | 0.1159985 | 2.6695725 | 4035 |
| (17382) | 14.0 | 37.51771  | 359.35958 | 344.45307 | 13.74434 | 0.1838956 | 2.6421064 | 4036 |
| (17383) | 15.0 | 311.30216 | 147.24056 | 281.84372 | 5.29761  | 0.0991790 | 2.3001764 | 4036 |
| (17384) | 14.4 | 75.13197  | 285.08103 | 340.22835 | 15.60442 | 0.0835814 | 3.1959274 | 4036 |
| (17385) | 15.5 | 245.62361 | 274.22069 | 199.12211 | 8.49294  | 0.1876044 | 2.3100645 | 4036 |
| (17386) | 14.4 | 122.11484 | 239.75455 | 352.67977 | 8.55021  | 0.0482422 | 2.6651347 | 4037 |
| (17387) | 14.6 | 305.16399 | 104.32485 | 358.82185 | 7.10192  | 0.1549905 | 2.5868714 | 4037 |
| (17388) | 14.2 | 129.85685 | 58.76451  | 181.17324 | 12.83613 | 0.1198947 | 2.6577689 | 4037 |
| (17389) | 13.4 | 43.51086  | 279.98230 | 59.13249  | 1.94498  | 0.1719563 | 3.1126871 | 4037 |
| (17390) | 14.3 | 311.97835 | 222.57089 | 190.56376 | 7.34058  | 0.0516951 | 3.1216363 | 4038 |
| (17391) | 15.6 | 302.22817 | 214.51446 | 178.68015 | 3.35501  | 0.1580368 | 2.3297792 | 4038 |
| (17392) | 15.3 | 46.85592  | 82.30299  | 218.34890 | 1.36500  | 0.0693548 | 2.6766381 | 4038 |
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|         |      |           |           |           |          |           |           |      |         |      |           |           |           |          |           |           |      |
|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|
| (17946) | 15.5 | 91.00654  | 127.51789 | 152.20410 | 6.84372  | 0.1156254 | 2.3627885 | 4200 | (17998) | 13.8 | 92.71973  | 73.54337  | 158.37681 | 9.88781  | 0.1223434 | 3.0562341 | 4215 |
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| (17951) | 14.1 | 40.90338  | 35.61483  | 294.98665 | 3.28384  | 0.1027859 | 2.2802773 | 4201 | (18003) | 14.3 | 33.14192  | 250.12999 | 54.19371  | 13.80619 | 0.1598785 | 2.5710990 | 4217 |
| (17952) | 15.1 | 125.12271 | 326.15897 | 268.87995 | 5.86738  | 0.0970118 | 2.3220148 | 4201 | (18004) | 15.2 | 301.07215 | 297.12506 | 113.21817 | 6.71174  | 0.1654531 | 2.2487678 | 4217 |
| (17953) | 13.4 | 81.14260  | 10.97572  | 234.42793 | 10.58593 | 0.3193170 | 3.0039904 | 4202 | (18005) | 14.1 | 331.27221 | 229.55235 | 164.63355 | 11.38080 | 0.2591937 | 2.3949502 | 4218 |
| (17954) | 15.0 | 170.98543 | 144.83021 | 38.96029  | 3.07609  | 0.1025328 | 2.2710510 | 4202 | (18006) | 13.7 | 31.06731  | 142.00207 | 156.99112 | 10.96161 | 0.0748240 | 3.0258247 | 4218 |
| (17955) | 15.2 | 123.52939 | 342.11334 | 224.95916 | 2.16492  | 0.0514206 | 2.6568972 | 4202 | (18007) | 14.1 | 359.11318 | 258.81460 | 113.51676 | 12.29573 | 0.2052575 | 2.5689810 | 4218 |
| (17956) | 15.4 | 210.57437 | 302.94382 | 208.07933 | 1.94862  | 0.0747072 | 2.2352973 | 4203 | (18008) | 13.8 | 302.43569 | 284.55965 | 119.41656 | 15.52106 | 0.1149424 | 2.8451479 | 4218 |
| (17957) | 14.7 | 33.34653  | 40.11134  | 319.03233 | 4.48168  | 0.2137577 | 2.2351397 | 4203 | (18009) | 14.1 | 182.43758 | 0.58451   | 155.62277 | 9.70359  | 0.0872988 | 2.8151502 | 4219 |
| (17958) | 15.0 | 217.55197 | 345.47810 | 149.10917 | 1.70111  | 0.0392813 | 2.4030247 | 4203 | (18010) | 13.9 | 160.64793 | 333.15491 | 193.69244 | 11.66311 | 0.1005686 | 3.0239948 | 4219 |
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| (17960) | 14.2 | 81.10283  | 159.53108 | 132.71789 | 3.37273  | 0.1770850 | 2.4276621 | 4204 | (18012) | 14.1 | 147.07549 | 344.71040 | 236.78876 | 5.14915  | 0.1143146 | 2.3186214 | 4220 |
| (17961) | 14.6 | 7.68804   | 317.92379 | 50.45442  | 7.12505  | 0.1472866 | 2.3374288 | 4204 | (18013) | 14.1 | 346.72250 | 341.70876 | 22.31449  | 4.09853  | 0.1164508 | 2.7761561 | 4220 |
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| (17963) | 15.0 | 206.87469 | 74.93039  | 69.78150  | 4.34830  | 0.1186219 | 2.3295321 | 4205 | (18015) | 14.7 | 205.58604 | 334.28182 | 190.70804 | 6.29549  | 0.0471756 | 2.3513808 | 4220 |
| (17964) | 14.0 | 320.03360 | 208.08909 | 201.61597 | 5.25145  | 0.1594175 | 2.2858387 | 4205 | (18016) | 14.3 | 120.58635 | 25.79374  | 232.32783 | 6.73687  | 0.0684720 | 2.3879546 | 4221 |
| (17965) | 15.1 | 54.55557  | 353.38230 | 311.25180 | 3.20095  | 0.1236998 | 2.6090738 | 4206 | (18017) | 13.5 | 108.11883 | 12.59044  | 233.78481 | 9.66651  | 0.2429693 | 2.7157021 | 4221 |
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| (17970) | 15.0 | 126.58022 | 231.57215 | 21.44005  | 5.12208  | 0.1504163 | 2.2721356 | 4207 | (18022) | 14.5 | 33.39796  | 331.18061 | 356.72508 | 2.46391  | 0.1216902 | 2.8092646 | 4222 |
| (17971) | 14.8 | 94.83035  | 167.55672 | 128.54068 | 2.93506  | 0.1677176 | 2.2697102 | 4207 | (18023) | 13.8 | 3.15463   | 184.47845 | 178.28776 | 13.52028 | 0.1766828 | 2.6677345 | 4223 |
| (17972) | 14.6 | 93.98931  | 46.67792  | 201.79515 | 5.12890  | 0.1044540 | 2.7227281 | 4208 | (18024) | 14.3 | 93.39364  | 43.24134  | 183.04085 | 9.52197  | 0.0781530 | 3.1778805 | 4223 |
| (17973) | 12.7 | 83.52241  | 36.85983  | 228.70977 | 10.58722 | 0.2163748 | 2.7835124 | 4208 | (18025) | 14.2 | 329.75933 | 327.35489 | 65.74546  | 3.99190  | 0.1755522 | 2.5152837 | 4223 |
| (17974) | 13.9 | 98.27113  | 27.53314  | 267.28863 | 3.66946  | 0.1653919 | 2.2597081 | 4208 | (18026) | 15.4 | 219.66452 | 348.25052 | 148.38645 | 4.74810  | 0.1965991 | 2.3334848 | 4224 |
| (17975) | 14.0 | 359.84599 | 165.29860 | 202.40979 | 7.21109  | 0.1905841 | 2.6084935 | 4209 | (18027) | 14.5 | 8.47184   | 243.19542 | 147.83525 | 5.05515  | 0.1355112 | 2.2547797 | 4224 |
| (17976) | 14.4 | 202.22845 | 151.81697 | 9.27894   | 6.46630  | 0.0711449 | 2.3491489 | 4209 | (18028) | 15.3 | 27.09464  | 208.95282 | 163.95396 | 3.57929  | 0.1504933 | 2.3044464 | 4224 |
| (17977) | 13.4 | 34.24310  | 307.86971 | 34.56693  | 12.93083 | 0.2408182 | 2.6656706 | 4209 | (18029) | 13.8 | 151.08693 | 29.60683  | 227.29261 | 12.96979 | 0.1920198 | 2.3305250 | 4224 |
| (17978) | 14.9 | 200.79356 | 226.16439 | 294.07271 | 4.17773  | 0.1614862 | 2.2741315 | 4210 | (18030) | 14.6 | 29.21785  | 208.28977 | 122.98574 | 13.82640 | 0.1615310 | 2.6419718 | 4225 |
| (17979) | 13.3 | 53.49914  | 214.51636 | 86.99590  | 10.23369 | 0.1354525 | 2.7838653 | 4210 | (18031) | 13.1 | 291.53266 | 316.28466 | 123.30006 | 13.41504 | 0.1400815 | 2.6741610 | 4225 |
| (17980) | 14.4 | 328.03778 | 293.03269 | 81.03202  | 3.23010  | 0.0812536 | 2.8319905 | 4210 | (18032) | 13.2 | 112.53390 | 356.89085 | 268.73918 | 11.65855 | 0.1387830 | 2.8353012 | 4225 |
| (17981) | 13.4 | 220.95020 | 53.72965  | 42.90864  | 1.50393  | 0.0688431 | 3.1603241 | 4210 | (18033) | 13.6 | 50.88544  | 51.91858  | 286.85529 | 9.05914  | 0.1122181 | 2.9945260 | 4225 |
| (17982) | 15.0 | 105.99722 | 179.70623 | 97.71340  | 4.67294  | 0.1345038 | 2.3120687 | 4211 | (18034) | 13.3 | 4.14849   | 199.76964 | 189.80905 | 1.80420  | 0.0651010 | 2.9457507 | 4226 |
| (17983) | 14.6 | 54.39545  | 180.26950 | 153.15600 | 3.72807  | 0.1943376 | 2.4477216 | 4211 | (18035) | 14.0 | 0.76380   | 285.50916 | 129.78402 | 5.43070  | 0.0664063 | 2.5777331 | 4226 |
| (17984) | 14.6 | 110.15096 | 60.76154  | 178.48381 | 3.13763  | 0.1446702 | 2.6937135 | 4211 | (18036) | 13.4 | 88.96239  | 167.41237 | 83.22065  | 3.91057  | 0.1499323 | 3.9582060 | 4226 |
| (17985) | 14.2 | 114.98143 | 233.11294 | 53.29296  | 6.56394  | 0.1553557 | 2.2005839 | 4212 | (18037) | 11.8 | 344.03268 | 254.42618 | 114.47632 | 15.35228 | 0.0830608 | 5.2653316 | 4226 |
| (17986) | 13.9 | 58.73182  | 240.06419 | 68.95962  | 14.84839 | 0.0542432 | 2.5206532 | 4212 | (18038) | 13.4 | 44.32360  | 95.53888  | 236.44083 | 8.69679  | 0.0280047 | 3.1636565 | 4227 |
| (17987) | 14.1 | 47.35672  | 187.42724 | 102.84144 | 10.31712 | 0.0486471 | 3.0698474 | 4212 | (18039) | 13.1 | 329.17185 | 144.44111 | 277.51244 | 8.08539  | 0.0748615 | 3.0738071 | 4227 |
| (17988) | 14.8 | 145.14904 | 44.72799  | 181.18467 | 6.02091  | 0.0737029 | 2.3785886 | 4212 | (18040) | 13.7 | 8.08186   | 185.64262 | 218.31985 | 12.26891 | 0.1527085 | 2.7084146 | 4227 |
| (17989) | 13.0 | 74.81842  | 211.36576 | 76.37395  | 9.16295  | 0.1959962 | 2.7936549 | 4213 | (18041) | 12.6 | 246.42923 | 80.79847  | 77.87545  | 3.11837  | 0.1289417 | 3.2171154 | 4227 |
| (17990) | 13.2 | 105.86659 | 177.90251 | 70.04606  | 8.41070  | 0.1558162 | 2.7307040 | 4213 | (18042) | 13.8 | 232.47274 | 70.52575  | 140.83484 | 8.01948  | 0.2532885 | 2.6124168 | 4228 |
| (17991) | 15.7 | 215.73428 | 353.16552 | 134.73355 | 2.54949  | 0.0870718 | 2.2932606 | 4213 | (18043) | 14.4 | 51.93038  | 240.68293 | 116.41344 | 3.10141  | 0.0846449 | 2.9102765 | 4228 |
| (17992) | 15.3 | 160.85372 | 345.18492 | 198.61991 | 5.41323  | 0.0630605 | 2.3630680 | 4214 | (18044) | 14.8 | 79.44481  | 220.56462 | 154.45909 | 5.81331  | 0.2900241 | 2.5346913 | 4228 |
| (17993) | 15.4 | 213.80817 | 321.84067 | 173.99128 | 3.15580  | 0.0874064 | 2.3112206 | 4214 | (18045) | 12.2 | 229.68365 | 242.00814 | 283.31896 | 15.06906 | 0.1554932 | 3.1732667 | 4228 |
| (17994) | 12.3 | 67.74130  | 192.84248 | 60.66197  | 13.57979 | 0.0605821 | 2.9327819 | 4214 | (18046) | 10.1 | 30.40359  | 153.28264 | 164.63405 | 33.22822 | 0.0578873 | 5.2386460 | 4229 |
| (17995) | 14.8 | 244.16665 | 293.84363 | 183.17637 | 6.39779  | 0.0614963 | 2.2835550 | 4214 | (18047) | 12.5 | 89.71171  | 343.88916 | 322.40212 | 13.59944 | 0.1215828 | 3.2196847 | 4229 |
| (17996) | 13.7 | 62.73546  | 67.66633  | 232.30894 | 3.90639  | 0.0845745 | 2.2812348 | 4215 | (18048) | 13.5 | 2.53263   | 182.38721 | 237.21344 | 1.10995  | 0.0741904 | 3.1987196 | 4229 |
| (17997) | 14.1 | 160.09702 | 55.71842  | 128.87012 | 11.58237 | 0.1560622 | 2.3336012 | 4215 | (18049) | 13.2 | 305.84868 | 269.41910 | 227.33004 | 13.92578 | 0.0905821 | 2.5404726 | 4230 |

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(18050) 13.2 192.32931 10.61925 215.41835 8.97368 0.0319346 2.9966479 4230  
 (18051) 13.6 336.99668 214.88929 225.64653 9.56925 0.0321098 3.0134535 4230  
 (18052) 12.3 357.21323 191.44698 233.27841 14.03231 0.0546283 3.2307865 4230  
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 (18062) 11.1 28.59671 35.55984 38.48784 17.35768 0.0502851 5.1909425 4233  
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 (18123) 13.9 20.15077 96.68217 201.67458 1.28128 0.0759258 2.9619292 4251  
 (18124) 15.0 6.57645 150.26125 155.82128 5.88057 0.1108308 2.3449156 4251  
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 (18129) 13.3 105.85659 283.34283 302.41346 9.82529 0.0516471 2.3167707 4253  
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|         |      |           |           |           |          |           |           |      |         |      |           |           |           |          |           |           |      |
|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|
| (18154) | 14.6 | 344.33774 | 259.94123 | 94.06105  | 3.17684  | 0.0937432 | 2.9212719 | 4260 | (18206) | 13.8 | 162.85419 | 306.53554 | 300.63375 | 12.32061 | 0.0832008 | 2.8920541 | 4275 |
| (18155) | 14.9 | 303.79435 | 64.36042  | 348.02275 | 4.51387  | 0.1874912 | 2.5466416 | 4260 | (18207) | 15.8 | 337.89889 | 96.66052  | 292.41397 | 1.86756  | 0.1707173 | 2.3652127 | 4275 |
| (18156) | 12.1 | 239.70018 | 160.45895 | 328.93785 | 9.16719  | 0.0311101 | 3.0039898 | 4261 | (18208) | 15.5 | 280.83794 | 207.81641 | 231.62744 | 4.36434  | 0.1430448 | 2.7113755 | 4276 |
| (18157) | 14.9 | 332.35364 | 349.16243 | 29.69010  | 7.67420  | 0.0984753 | 2.4757551 | 4261 | (18209) | 15.7 | 237.03810 | 164.66958 | 334.19647 | 4.25816  | 0.0577853 | 2.3601253 | 4276 |
| (18158) | 15.1 | 328.29377 | 332.14859 | 55.66526  | 7.20334  | 0.1318982 | 2.4050252 | 4261 | (18210) | 14.4 | 34.22965  | 331.67267 | 358.17421 | 4.72672  | 0.1295486 | 3.1849199 | 4276 |
| (18159) | 14.3 | 96.35099  | 158.61802 | 74.88125  | 9.51953  | 0.1614089 | 2.3373393 | 4262 | (18211) | 15.1 | 122.93006 | 252.99382 | 167.72235 | 3.72968  | 0.1998035 | 2.3009264 | 4276 |
| (18160) | 13.2 | 305.92942 | 305.33800 | 87.47353  | 10.69393 | 0.1269463 | 3.0218505 | 4262 | (18212) | 12.9 | 301.28007 | 353.82701 | 81.96134  | 3.04167  | 0.2006069 | 3.1918454 | 4276 |
| (18161) | 12.2 | 20.32145  | 9.51638   | 1.09590   | 9.57209  | 0.1002240 | 2.9987523 | 4262 | (18213) | 14.2 | 153.20110 | 184.48290 | 18.99464  | 5.41994  | 0.1175612 | 2.7014404 | 4277 |
| (18162) | 15.7 | 27.70561  | 58.59382  | 233.23386 | 1.31812  | 0.0754383 | 2.2896787 | 4262 | (18214) | 14.3 | 326.23251 | 278.43648 | 105.38652 | 2.53452  | 0.1679038 | 3.1957559 | 4277 |
| (18163) | 14.8 | 246.03403 | 313.42492 | 134.72310 | 5.24279  | 0.1423226 | 2.3776318 | 4262 | (18215) | 14.6 | 78.10562  | 251.88774 | 14.92870  | 2.41083  | 0.0423721 | 2.9311206 | 4277 |
| (18164) | 12.9 | 7.01602   | 320.68747 | 7.60554   | 9.39475  | 0.0798904 | 3.0378657 | 4263 | (18216) | 15.1 | 158.64216 | 189.94901 | 19.19710  | 2.20864  | 0.0699584 | 2.5143654 | 4278 |
| (18165) | 15.8 | 319.44403 | 305.22202 | 93.75181  | 3.22592  | 0.2037396 | 2.3478736 | 4263 | (18217) | 14.9 | 65.00715  | 90.52145  | 211.04998 | 9.77955  | 0.1707481 | 2.3575852 | 4278 |
| (18166) | 14.9 | 33.64171  | 193.10634 | 110.16243 | 4.66267  | 0.1178066 | 2.2463207 | 4263 | (18218) | 14.5 | 332.79936 | 14.67079  | 193.49778 | 13.03139 | 0.0873094 | 2.6026166 | 4278 |
| (18167) | 14.1 | 203.77036 | 357.73060 | 149.50207 | 9.61770  | 0.0753001 | 2.7699788 | 4264 | (18219) | 11.6 | 218.38558 | 172.07827 | 354.10250 | 16.25595 | 0.0583066 | 3.1776451 | 4278 |
| (18168) | 14.3 | 268.44202 | 252.45130 | 227.75889 | 15.44177 | 0.1417036 | 2.5612178 | 4264 | (18220) | 14.4 | 143.88967 | 233.20002 | 322.69852 | 2.81487  | 0.1025653 | 3.2100048 | 4279 |
| (18169) | 12.3 | 277.32192 | 200.65788 | 246.56313 | 10.10857 | 0.1600972 | 3.1512154 | 4264 | (18221) | 14.5 | 9.78947   | 185.13557 | 179.68962 | 18.08010 | 0.1323094 | 3.1745426 | 4279 |
| (18170) | 14.7 | 321.71938 | 44.01840  | 351.60098 | 4.54286  | 0.1923591 | 2.6723366 | 4264 | (18222) | 15.7 | 7.43747   | 321.79300 | 358.72123 | 6.40139  | 0.1771676 | 2.2371429 | 4279 |
| (18171) | 16.3 | 75.01969  | 69.10708  | 185.28522 | 2.16371  | 0.1770221 | 2.3841396 | 4265 | (18223) | 15.1 | 289.45547 | 45.60066  | 13.96339  | 3.21604  | 0.0948106 | 2.7112288 | 4279 |
| (18172) | 15.6 | 327.85680 | 100.27392 | 338.97851 | 17.82917 | 0.5077354 | 2.4282470 | 4265 | (18224) | 15.2 | 8.56187   | 211.12133 | 118.31693 | 3.01992  | 0.0516900 | 2.9334791 | 4280 |
| (18173) | 15.6 | 62.63245  | 87.30686  | 181.71673 | 5.45841  | 0.2019401 | 2.3507805 | 4265 | (18225) | 14.2 | 321.18616 | 215.58604 | 207.56077 | 11.52779 | 0.1309326 | 2.5140439 | 4280 |
| (18174) | 15.2 | 310.30202 | 52.40980  | 341.15701 | 5.77008  | 0.1063778 | 2.3168289 | 4266 | (18226) | 13.3 | 49.84081  | 207.95861 | 188.61440 | 12.97711 | 0.1637618 | 2.6673945 | 4280 |
| (18175) | 14.7 | 358.49478 | 318.82359 | 14.67050  | 1.97685  | 0.0486401 | 2.8943192 | 4266 | (18227) | 14.3 | 122.98392 | 354.68362 | 347.14673 | 11.28865 | 0.2340132 | 2.4375360 | 4281 |
| (18176) | 14.9 | 4.76725   | 244.08929 | 122.41195 | 2.55552  | 0.1267238 | 2.5896127 | 4266 | (18228) | 12.5 | 5.34936   | 346.18402 | 12.45422  | 3.20487  | 0.1279481 | 5.2605321 | 4281 |
| (18177) | 14.6 | 316.66035 | 242.72263 | 156.57409 | 7.82715  | 0.0809524 | 2.7611749 | 4267 | (18229) | 15.4 | 73.20915  | 82.52599  | 231.14903 | 1.59941  | 0.2087366 | 2.1286617 | 4281 |
| (18178) | 15.0 | 17.69585  | 182.34243 | 145.14255 | 3.04846  | 0.1571305 | 2.1818955 | 4267 | (18230) | 15.1 | 282.73759 | 297.28259 | 189.34951 | 4.85599  | 0.2111735 | 2.4527732 | 4281 |
| (18179) | 13.9 | 261.23862 | 87.09608  | 12.18329  | 6.90632  | 0.0931790 | 2.3914059 | 4267 | (18231) | 14.8 | 229.81823 | 128.47656 | 6.96870   | 13.20015 | 0.1247704 | 2.7324181 | 4282 |
| (18180) | 14.7 | 65.92109  | 218.11395 | 53.58804  | 4.51931  | 0.0877445 | 2.2107790 | 4267 | (18232) | 13.8 | 228.33607 | 348.78908 | 8.57450   | 15.34423 | 0.2239662 | 2.5868516 | 4282 |
| (18181) | 13.2 | 73.79702  | 251.45695 | 330.74960 | 21.19754 | 0.2983190 | 2.3373921 | 4268 | (18233) | 14.3 | 284.29955 | 239.86090 | 163.84018 | 11.52194 | 0.0790992 | 3.0920256 | 4282 |
| (18182) | 14.9 | 232.33214 | 207.39976 | 259.19632 | 1.05309  | 0.0053109 | 2.8309567 | 4268 | (18234) | 14.1 | 195.41511 | 89.41384  | 74.80055  | 3.28413  | 0.0831987 | 2.7405296 | 4283 |
| (18183) | 15.0 | 333.81836 | 193.96577 | 182.13778 | 2.06015  | 0.2179473 | 2.3740157 | 4268 | (18235) | 13.9 | 243.35853 | 263.19034 | 218.46186 | 0.70967  | 0.1611842 | 3.0846247 | 4283 |
| (18184) | 14.5 | 335.50055 | 154.47979 | 206.02089 | 2.10689  | 0.0685537 | 2.5775345 | 4269 | (18236) | 14.5 | 170.27933 | 53.70308  | 209.42295 | 3.85997  | 0.0430930 | 2.4104256 | 4283 |
| (18185) | 13.8 | 133.67489 | 179.72209 | 19.83402  | 1.32365  | 0.0996031 | 3.0189487 | 4269 | (18237) | 15.7 | 110.65245 | 66.60484  | 169.63550 | 2.48818  | 0.1635504 | 2.4579115 | 4284 |
| (18186) | 14.0 | 133.15848 | 97.97868  | 103.60286 | 2.37908  | 0.0938556 | 2.9619500 | 4269 | (18238) | 14.4 | 80.68585  | 281.21052 | 5.36821   | 8.80210  | 0.0825250 | 3.0612532 | 4284 |
| (18187) | 12.9 | 26.59814  | 210.20935 | 83.44915  | 2.59417  | 0.2741897 | 2.8683205 | 4270 | (18239) | 13.6 | 275.05506 | 312.85753 | 152.32933 | 1.24025  | 0.1663580 | 3.0729514 | 4284 |
| (18188) | 14.4 | 352.39759 | 300.57324 | 52.57690  | 3.37460  | 0.2198879 | 3.1169580 | 4270 | (18240) | 16.0 | 56.75920  | 261.75031 | 15.86308  | 6.57578  | 0.1282216 | 2.4670720 | 4285 |
| (18189) | 14.3 | 202.92455 | 138.65163 | 7.58788   | 1.84494  | 0.0381114 | 2.7019083 | 4270 | (18241) | 13.9 | 344.86531 | 357.79923 | 18.09754  | 5.19278  | 0.0666501 | 2.7262717 | 4285 |
| (18190) | 14.3 | 306.10985 | 149.24188 | 270.29709 | 5.51883  | 0.1842560 | 2.5578741 | 4270 | (18242) | 15.6 | 13.41822  | 142.74547 | 23.19333  | 2.54237  | 0.1447114 | 2.3550784 | 4285 |
| (18191) | 14.3 | 265.44604 | 230.45577 | 216.38183 | 3.66786  | 0.0385428 | 2.7819279 | 4271 | (18243) | 13.1 | 216.53752 | 161.80203 | 5.27690   | 6.87872  | 0.0939062 | 2.2424256 | 4286 |
| (18192) | 14.7 | 109.81152 | 354.79619 | 238.92806 | 3.88723  | 0.0444950 | 2.7759063 | 4271 | (18244) | 15.1 | 27.70953  | 144.03958 | 176.80455 | 9.07112  | 0.1071633 | 2.7266295 | 4286 |
| (18193) | 15.5 | 187.47944 | 273.91670 | 237.81034 | 4.04821  | 0.1581235 | 2.4682513 | 4271 | (18245) | 14.6 | 331.15729 | 209.24833 | 171.66364 | 16.74695 | 0.0050785 | 3.0826290 | 4286 |
| (18194) | 14.5 | 218.47743 | 352.55886 | 150.77652 | 10.14695 | 0.0193838 | 3.1538223 | 4272 | (18246) | 15.7 | 354.64339 | 295.83351 | 65.16034  | 3.23257  | 0.1143863 | 2.7266691 | 4286 |
| (18195) | 16.1 | 335.84950 | 259.28372 | 133.22285 | 2.01353  | 0.2614001 | 2.2535793 | 4272 | (18247) | 15.0 | 293.87463 | 55.51420  | 32.99650  | 3.75156  | 0.0837737 | 2.2423316 | 4287 |
| (18196) | 15.6 | 60.45664  | 216.31799 | 35.42035  | 3.45096  | 0.1683032 | 2.2929313 | 4272 | (18248) | 16.2 | 192.88166 | 147.23334 | 23.47363  | 6.35917  | 0.0655981 | 2.2477030 | 4287 |
| (18197) | 15.1 | 120.63904 | 245.66614 | 344.79950 | 8.81224  | 0.1376913 | 2.3658255 | 4272 | (18249) | 16.3 | 45.36661  | 267.65063 | 30.44759  | 5.54113  | 0.1541706 | 2.2498278 | 4287 |
| (18198) | 13.6 | 167.63996 | 346.62977 | 205.86568 | 12.30315 | 0.1190552 | 2.9269057 | 4273 | (18250) | 14.3 | 173.17936 | 345.26472 | 29.86525  | 3.17451  | 0.0675248 | 2.8820730 | 4287 |
| (18199) | 14.2 | 57.20672  | 245.22489 | 56.90583  | 2.94639  | 0.0757991 | 2.9230187 | 4273 | (18251) | 15.4 | 213.97587 | 114.80085 | 38.43684  | 7.07539  | 0.0942707 | 2.2478135 | 4288 |
| (18200) | 15.5 | 254.66250 | 107.06022 | 9.32772   | 2.06478  | 0.2703790 | 2.3732317 | 4273 | (18252) | 15.1 | 55.23641  | 261.14302 | 34.40659  | 5.54783  | 0.0712425 | 2.4604167 | 4288 |
| (18201) | 15.2 | 317.21754 | 307.90854 | 109.16741 | 2.87689  | 0.1235090 | 2.5187473 | 4274 | (18253) | 15.1 | 37.49888  | 179.96449 | 160.23038 | 6.80683  | 0.1404230 | 2.4445431 | 4288 |
| (18202) | 14.5 | 15.27552  | 307.79529 | 38.71550  | 1.41897  | 0.2148753 | 3.1833640 | 4274 | (18254) | 14.4 | 232.81339 | 328.95068 | 181.04307 | 13.06398 | 0.1138250 | 2.7154914 | 4289 |
| (18203) | 14.9 | 170.95266 | 326.24028 | 197.62110 | 3.04548  | 0.0915101 | 2.5353659 | 4274 | (18255) | 15.2 | 258.99015 | 332.97212 | 125.01869 | 3.15180  | 0.0321496 | 2.7327725 | 4289 |
| (18204) | 15.2 | 47.23512  | 44.77242  | 261.90912 | 5.60237  | 0.1278297 | 2.7012168 | 4274 | (18256) | 14.7 | 30.94258  | 192.46730 | 131.05059 | 3.43050  | 0.0778668 | 2.7271554 | 4289 |
| (18205) | 13.0 | 351.14627 | 197.80689 | 231.48392 | 14.20871 | 0.2324688 | 3.1673616 | 4275 | (18257) | 14.4 | 128.70221 | 178.77927 | 43.33440  | 5.85382  | 0.1134991 | 3.0826897 | 4290 |

|         |      |           |           |           |          |           |           |      |
|---------|------|-----------|-----------|-----------|----------|-----------|-----------|------|
| (18258) | 13.9 | 62.98145  | 5.67617   | 177.07289 | 14.03667 | 0.1188794 | 2.5396918 | 4290 |
| (18259) | 15.6 | 73.71732  | 115.44888 | 139.12031 | 3.49895  | 0.0983458 | 2.2624665 | 4290 |
| (18260) | 15.0 | 294.05807 | 129.77637 | 334.69263 | 13.35716 | 0.2049579 | 2.4498955 | 4291 |
| (18261) | 15.3 | 214.95917 | 244.66386 | 243.48489 | 9.80529  | 0.0743948 | 2.4759618 | 4291 |
| (18262) | 14.1 | 81.94508  | 338.86959 | 296.45625 | 9.40293  | 0.2129383 | 3.0641129 | 4291 |
| (18263) | 11.6 | 43.54794  | 143.88978 | 311.45013 | 10.64134 | 0.0408028 | 5.1294678 | 4291 |
| (18264) | 14.6 | 312.93448 | 185.40647 | 227.89418 | 9.20777  | 0.1089185 | 3.0796518 | 4292 |
| (18265) | 14.9 | 78.10082  | 316.79878 | 269.37807 | 4.87253  | 0.1106608 | 2.2459296 | 4292 |
| (18266) | 15.7 | 54.19238  | 12.63686  | 291.99744 | 4.01140  | 0.2012870 | 2.4437339 | 4292 |
| (18267) | 16.3 | 130.52749 | 319.28255 | 240.12959 | 2.79572  | 0.0792338 | 2.2327949 | 4292 |
| (18268) | 12.3 | 17.85466  | 112.31433 | 218.45440 | 16.59287 | 0.0959632 | 5.1745432 | 4293 |
| (18269) | 14.8 | 304.11985 | 142.01049 | 258.78913 | 2.65594  | 0.1001518 | 2.7975649 | 4293 |
| (18270) | 15.4 | 48.04869  | 330.09728 | 357.60585 | 2.66879  | 0.0518832 | 2.2048593 | 4293 |
| (18271) | 14.0 | 150.99474 | 349.40848 | 216.04602 | 5.53898  | 0.0812163 | 2.4605829 | 4294 |
| (18272) | 15.9 | 323.88297 | 96.86762  | 285.81500 | 2.84490  | 0.0960148 | 2.4691112 | 4294 |
| (18273) | 15.8 | 66.12014  | 45.87192  | 268.55756 | 0.25054  | 0.0404417 | 2.2031973 | 4294 |
| (18274) | 15.0 | 342.04727 | 256.06821 | 126.79144 | 1.32553  | 0.0826102 | 2.7750879 | 4294 |
| (18275) | 14.3 | 315.10981 | 205.04965 | 205.59299 | 8.38839  | 0.0231696 | 2.7757172 | 4295 |
| (18276) | 15.2 | 67.67006  | 67.69689  | 202.67120 | 8.63701  | 0.0759410 | 2.7929114 | 4295 |
| (18277) | 14.5 | 130.87817 | 55.70224  | 174.97173 | 4.07348  | 0.0313780 | 2.7738450 | 4295 |
| (18278) | 11.7 | 104.63226 | 206.78914 | 31.57501  | 17.89791 | 0.0672950 | 5.2163689 | 4296 |
| (18279) | 14.0 | 236.70788 | 349.07578 | 177.04238 | 9.30862  | 0.1422437 | 2.7487277 | 4296 |
| (18280) | 14.3 | 347.00619 | 9.03406   | 62.22229  | 7.53003  | 0.1294872 | 2.4231540 | 4296 |
| (18281) | 12.8 | 21.73668  | 168.16839 | 171.40094 | 9.55392  | 0.1040637 | 5.1580244 | 4296 |
| (18282) | 12.8 | 346.52051 | 211.28990 | 164.54165 | 8.71259  | 0.0782242 | 5.1968127 | 4297 |
| (18283) | 14.9 | 32.12914  | 253.60542 | 88.14190  | 7.12519  | 0.1639440 | 2.4410339 | 4297 |

## SUMMARY OF IDENTIFICATIONS

The following identifications are invalid:

|                        |                         |                        |            |       |
|------------------------|-------------------------|------------------------|------------|-------|
| 1998 EM <sub>19</sub>  | = 1979 WD <sub>6</sub>  | = 1985 YK <sub>2</sub> | <i>MPO</i> | 3200  |
| 1999 RX <sub>16</sub>  | = 1998 HL <sub>44</sub> |                        | <i>MPC</i> | 36033 |
| 1999 RD <sub>248</sub> | = 1999 RP <sub>44</sub> |                        | <i>MPO</i> | 4024  |
| 2000 QN <sub>49</sub>  | = 1977 RR <sub>14</sub> |                        | <i>MPO</i> | 3781  |
| 2125 T-1               | = 1996 XO <sub>10</sub> |                        | <i>MPC</i> | 33998 |
| 1169 T-2               | = 1989 YC <sub>2</sub>  |                        | <i>MPC</i> | 15906 |
| 2315 T-2               | = 1978 WU <sub>10</sub> |                        | <i>MPC</i> | 16883 |

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

|                      |                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 1971 UJ <sub>1</sub> | = 2000 SV <sub>3</sub>                                                                                                                            |
| 1972 GJ              | = 1972 JD = 2000 OP <sub>50</sub>                                                                                                                 |
| 1975 VX <sub>2</sub> | = 1980 TO <sub>11</sub> = 1990 VE <sub>15</sub> = 1990 WZ <sub>14</sub> = 1995 WB <sub>4</sub> = 1998 KG <sub>32</sub><br>= 2000 RK <sub>10</sub> |
| 1977 FB              | = 1998 HC <sub>76</sub> = 2000 QF <sub>142</sub>                                                                                                  |
| 1978 SG              | = 1985 TF <sub>2</sub> = 1998 FB <sub>126</sub> = 1999 XZ <sub>184</sub>                                                                          |
| 1978 UZ <sub>5</sub> | = 2000 SW <sub>27</sub>                                                                                                                           |
| 1979 MP <sub>2</sub> | = 2000 RR <sub>12</sub>                                                                                                                           |
| 1979 MY <sub>3</sub> | = 2000 SG <sub>217</sub>                                                                                                                          |
| 1979 MK <sub>4</sub> | = 2000 SD <sub>64</sub>                                                                                                                           |
| 1980 FL <sub>3</sub> | = 1999 NY <sub>44</sub> = 2000 QQ <sub>83</sub>                                                                                                   |

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| 1981 EC <sub>3</sub>  | = 2000 SZ <sub>7</sub>                                                     |
| 1981 EJ <sub>6</sub>  | = 2000 SX <sub>141</sub>                                                   |
| 1981 EL <sub>8</sub>  | = 2000 SM <sub>13</sub>                                                    |
| 1981 EF <sub>9</sub>  | = 2000 SX <sub>168</sub>                                                   |
| 1981 EH <sub>12</sub> | = 2000 SM <sub>49</sub>                                                    |
| 1981 EG <sub>13</sub> | = 2000 SG <sub>176</sub>                                                   |
| 1981 EW <sub>23</sub> | = 2000 SL <sub>254</sub>                                                   |
| 1981 EX <sub>29</sub> | = 2000 SK <sub>319</sub>                                                   |
| 1981 EE <sub>33</sub> | = 2000 SX <sub>51</sub>                                                    |
| 1981 EQ <sub>37</sub> | = 2000 QE <sub>26</sub>                                                    |
| 1981 EH <sub>38</sub> | = 2000 SD <sub>153</sub>                                                   |
| 1981 EH <sub>39</sub> | = 2000 FN <sub>62</sub>                                                    |
| 1981 EZ <sub>44</sub> | = 2000 SM <sub>144</sub>                                                   |
| 1981 UE <sub>27</sub> | = 1999 EO                                                                  |
| 1982 KX <sub>1</sub>  | = 1998 DV <sub>36</sub> = 2000 QV <sub>73</sub>                            |
| 1983 QL               | = 1999 LH <sub>29</sub>                                                    |
| 1984 HA <sub>2</sub>  | = 2000 SQ <sub>6</sub>                                                     |
| 1985 DU <sub>1</sub>  | = 1997 WZ <sub>40</sub> = 1999 FS <sub>18</sub>                            |
| 1985 RQ <sub>2</sub>  | = 1982 RS = 1998 RL <sub>40</sub> = 2000 DG <sub>112</sub>                 |
| 1986 QN <sub>2</sub>  | = 2000 QF <sub>121</sub>                                                   |
| 1986 SH               | = 1986 WZ <sub>7</sub> = 1990 RN <sub>12</sub> = 1999 TT <sub>210</sub>    |
| 1986 WP <sub>2</sub>  | = 2000 QD <sub>21</sub>                                                    |
| 1987 OV               | = 1998 FJ <sub>27</sub> = 1999 NE <sub>44</sub> = 2000 RE <sub>56</sub>    |
| 1987 SX <sub>11</sub> | = 2000 PS <sub>25</sub>                                                    |
| 1988 CQ <sub>5</sub>  | = 2000 SC <sub>240</sub>                                                   |
| 1988 DL               | = 2000 SC <sub>168</sub>                                                   |
| 1988 FD               | = 2000 SY <sub>1</sub>                                                     |
| 1988 PF <sub>2</sub>  | = 2000 OD <sub>51</sub>                                                    |
| 1989 CV <sub>2</sub>  | = 2000 RZ <sub>79</sub>                                                    |
| 1989 EP <sub>2</sub>  | = 1998 DJ <sub>3</sub> = 1999 LH <sub>20</sub> = 2000 QQ <sub>126</sub>    |
| 1989 RA               | = 2000 QM <sub>127</sub>                                                   |
| 1989 SY <sub>4</sub>  | = 2000 ST <sub>268</sub>                                                   |
| 1989 TS <sub>4</sub>  | = 1998 XG <sub>31</sub>                                                    |
| 1989 TO <sub>14</sub> | = 1986 EB <sub>3</sub> = 2000 QR <sub>200</sub>                            |
| 1989 TB <sub>16</sub> | = 1998 FN <sub>132</sub>                                                   |
| 1989 UQ <sub>5</sub>  | = 2000 SG <sub>65</sub>                                                    |
| 1989 UB <sub>7</sub>  | = 2000 RG <sub>7</sub>                                                     |
| 1989 UJ <sub>7</sub>  | = 2000 QS <sub>79</sub>                                                    |
| 1990 EH <sub>1</sub>  | = 2000 SH <sub>141</sub>                                                   |
| 1990 OJ               | = 2000 TE <sub>29</sub>                                                    |
| 1990 QF <sub>9</sub>  | = 1998 HX <sub>123</sub> = 1999 TC <sub>302</sub> = 1999 RC <sub>116</sub> |
| 1990 RG               | = 1987 YM <sub>4</sub> = 2000 QW <sub>96</sub>                             |
| 1990 SH <sub>5</sub>  | = 1998 RS <sub>76</sub> = 1998 SQ <sub>103</sub>                           |
| 1990 SZ <sub>10</sub> | = 2000 ET <sub>197</sub>                                                   |
| 1990 TQ <sub>3</sub>  | = 1998 FD <sub>146</sub>                                                   |
| 1990 TJ <sub>10</sub> | = 2000 QA <sub>56</sub>                                                    |
| 1990 TA <sub>11</sub> | = 1996 KB <sub>6</sub> = 2000 RH <sub>32</sub>                             |
| 1990 WC <sub>2</sub>  | = 2000 ST <sub>118</sub>                                                   |
| 1991 AT <sub>2</sub>  | = 2000 SD <sub>58</sub>                                                    |
| 1991 GY <sub>5</sub>  | = 1999 TX <sub>56</sub>                                                    |
| 1991 GB <sub>7</sub>  | = 1999 RJ <sub>162</sub>                                                   |
| 1991 GP <sub>8</sub>  | = 1999 GR <sub>48</sub> = 2000 QS <sub>175</sub>                           |

1991 NK = 2000 SW<sub>130</sub>  
 1991 PH<sub>9</sub> = 2000 RT<sub>104</sub>  
 1991 RP<sub>4</sub> = 2000 OU<sub>38</sub>  
 1991 RF<sub>5</sub> = 2000 RB<sub>35</sub>  
 1991 RK<sub>8</sub> = 1981 JB<sub>6</sub> = 2000 SS<sub>119</sub>  
 1991 TD = 2000 TX<sub>33</sub>  
 1991 TL<sub>2</sub> = 2000 RO<sub>97</sub>  
 1992 DW<sub>3</sub> = 1998 DW<sub>19</sub>  
 1992 DN<sub>9</sub> = 2000 QM<sub>228</sub>  
 1992 DT<sub>10</sub> = 2000 QH<sub>210</sub>  
 1992 EL<sub>5</sub> = 2000 SF<sub>250</sub>  
 1992 EW<sub>10</sub> = 2000 SL<sub>95</sub>  
 1992 EZ<sub>19</sub> = 2000 PY<sub>8</sub> = 2000 OC<sub>22</sub>  
 1992 ON = 2000 SN<sub>231</sub>  
 1992 QK = 2000 SF<sub>172</sub>  
 1992 RX<sub>4</sub> = 2000 QJ<sub>128</sub>  
 1992 SN<sub>12</sub> = 1994 CD = 1996 NC<sub>2</sub> = 1997 WA<sub>34</sub> = 1999 FH<sub>42</sub> = 2000 KL<sub>26</sub>  
 1992 WS<sub>4</sub> = 2000 OC<sub>50</sub>  
 1993 AG = 1979 YG<sub>4</sub> = 2000 SB<sub>109</sub>  
 1993 FP<sub>12</sub> = 2000 SB<sub>82</sub>  
 1993 FO<sub>18</sub> = 2000 SO<sub>85</sub>  
 1993 FL<sub>20</sub> = 2000 QN<sub>133</sub>  
 1993 FP<sub>31</sub> = 2000 FH<sub>16</sub>  
 1993 FZ<sub>31</sub> = 2000 SV<sub>125</sub>  
 1993 FK<sub>35</sub> = 2000 SF<sub>113</sub>  
 1993 FM<sub>37</sub> = 2000 SF<sub>65</sub>  
 1993 FS<sub>37</sub> = 2000 SB<sub>207</sub>  
 1993 FV<sub>80</sub> = 1998 HT<sub>148</sub> = 1998 LK<sub>4</sub>  
 1993 FB<sub>82</sub> = 1990 UQ<sub>7</sub> = 1990 UQ<sub>9</sub> = 1998 FA<sub>26</sub> = 1999 LB<sub>10</sub> = 2000 QE<sub>126</sub>  
 1993 OE<sub>2</sub> = 2000 QG<sub>142</sub>  
 1993 OO<sub>5</sub> = 1999 FT<sub>45</sub>  
 1993 OJ<sub>13</sub> = 1999 FF<sub>53</sub>  
 1993 PD<sub>3</sub> = 1990 RO<sub>12</sub> = 1998 AW<sub>7</sub>  
 1993 QD<sub>8</sub> = 2000 SQ<sub>305</sub>  
 1993 QR<sub>9</sub> = 2000 QO<sub>215</sub>  
 1993 RY<sub>4</sub> = 2000 QO<sub>81</sub>  
 1993 RT<sub>5</sub> = 1999 TD<sub>274</sub>  
 1993 RP<sub>13</sub> = 2000 QK<sub>209</sub>  
 1993 TG<sub>14</sub> = 2000 SM<sub>68</sub>  
 1993 TE<sub>19</sub> = 2000 SH<sub>224</sub>  
 1993 TX<sub>19</sub> = 2000 QW<sub>75</sub>  
 1993 TN<sub>20</sub> = 2000 QZ<sub>231</sub>  
 1993 TK<sub>21</sub> = 2000 QC<sub>189</sub>  
 1993 TR<sub>25</sub> = 1949 WY = 1980 DF<sub>4</sub> = 2000 QG<sub>58</sub>  
 1993 TE<sub>30</sub> = 2000 QG<sub>13</sub>  
 1993 TR<sub>32</sub> = 2000 SV<sub>127</sub>  
 1993 TF<sub>39</sub> = 2000 QB<sub>137</sub>  
 1993 UJ<sub>4</sub> = 2000 QJ<sub>77</sub>  
 1993 UB<sub>5</sub> = 2000 SZ<sub>269</sub>  
 1993 VR<sub>1</sub> = 1981 JK<sub>4</sub> = 2000 QH<sub>128</sub>  
 1993 XZ = 2000 QY<sub>136</sub>  
 1993 XE<sub>1</sub> = 2000 RO<sub>12</sub>

1994 AO<sub>1</sub> = 1985 XN = 2000 RO<sub>104</sub>  
 1994 AA<sub>4</sub> = 2000 SN<sub>82</sub>  
 1994 AF<sub>5</sub> = 2000 RR<sub>74</sub>  
 1994 AA<sub>6</sub> = 2000 QZ<sub>206</sub>  
 1994 CB<sub>11</sub> = 2000 HQ<sub>85</sub>  
 1994 ES<sub>3</sub> = 2000 SM<sub>212</sub>  
 1994 EE<sub>6</sub> = 2000 SZ<sub>241</sub>  
 1994 LP = 2000 SE<sub>101</sub>  
 1994 LQ<sub>1</sub> = 2000 SL<sub>9</sub>  
 1994 PA<sub>3</sub> = 2000 SP<sub>152</sub>  
 1994 PH<sub>3</sub> = 2000 RQ<sub>47</sub>  
 1994 PD<sub>4</sub> = 2000 SZ<sub>273</sub>  
 1994 PQ<sub>5</sub> = 2000 SW<sub>72</sub>  
 1994 PS<sub>6</sub> = 2000 SZ<sub>83</sub>  
 1994 PL<sub>10</sub> = 2000 SS<sub>272</sub>  
 1994 PU<sub>13</sub> = 2000 SW<sub>205</sub>  
 1994 PZ<sub>13</sub> = 2000 SW<sub>135</sub>  
 1994 PO<sub>21</sub> = 2000 SE<sub>84</sub>  
 1994 PL<sub>24</sub> = 2000 RM<sub>100</sub>  
 1994 PJ<sub>28</sub> = 2000 BF<sub>48</sub>  
 1994 PE<sub>32</sub> = 2000 SA<sub>140</sub>  
 1994 PW<sub>37</sub> = 2000 SO<sub>270</sub>  
 1994 PK<sub>39</sub> = 2000 SH<sub>152</sub>  
 1994 RY<sub>2</sub> = 2000 SF<sub>27</sub>  
 1994 TA<sub>12</sub> = 1997 HL<sub>11</sub>  
 1994 UA<sub>11</sub> = 2000 QF<sub>50</sub>  
 1995 BO = 2000 SG<sub>320</sub>  
 1995 BD<sub>2</sub> = 2000 QK<sub>202</sub>  
 1995 BW<sub>7</sub> = 1997 WQ<sub>8</sub>  
 1995 BN<sub>15</sub> = 1997 TX<sub>22</sub>  
 1995 DB<sub>6</sub> = 1995 FS<sub>5</sub>  
 1995 DN<sub>6</sub> = 1995 FV<sub>5</sub>  
 1995 EX<sub>7</sub> = 2000 SY<sub>154</sub>  
 1995 FY<sub>20</sub> = 1996 TP<sub>38</sub>  
 1995 GZ<sub>6</sub> = 1999 LW<sub>27</sub> = 2000 RF<sub>61</sub>  
 1995 GJ<sub>8</sub> = 2000 OU<sub>33</sub>  
 1995 JA<sub>1</sub> = 2000 PC<sub>9</sub>  
 1995 JJ<sub>1</sub> = 1995 HT = 1999 LH<sub>26</sub> = 2000 SV<sub>120</sub>  
 1995 OZ<sub>3</sub> = 2000 SQ<sub>167</sub>  
 1995 QD = 2000 ST<sub>88</sub>  
 1995 SH<sub>2</sub> = 2000 SZ<sub>107</sub>  
 1995 SY<sub>7</sub> = 2000 SX<sub>29</sub>  
 1995 SF<sub>21</sub> = 2000 QT<sub>231</sub>  
 1995 SS<sub>48</sub> = 1995 UG<sub>25</sub>  
 1995 TD<sub>1</sub> = 2000 RB<sub>81</sub>  
 1995 TP<sub>2</sub> = 2000 SC<sub>67</sub>  
 1995 UK<sub>2</sub> = 2000 RN<sub>24</sub>  
 1995 UQ<sub>8</sub> = 2000 QN<sub>195</sub>  
 1995 UG<sub>12</sub> = 2000 SL<sub>64</sub>  
 1995 UQ<sub>15</sub> = 2000 SD<sub>76</sub>  
 1995 UM<sub>18</sub> = 2000 SC<sub>31</sub>  
 1995 UN<sub>31</sub> = 1999 TY<sub>317</sub>

1995 VP<sub>10</sub> = 2000 SO<sub>14</sub>  
 1995 VB<sub>13</sub> = 2000 SM<sub>237</sub>  
 1995 WR<sub>5</sub> = 2000 SX<sub>217</sub>  
 1995 WD<sub>17</sub> = 2000 AM<sub>236</sub>  
 1995 WN<sub>36</sub> = 2000 AX<sub>60</sub>  
 1995 XB<sub>1</sub> = 2000 RJ<sub>80</sub>  
 1995 YA<sub>6</sub> = 1985 XH<sub>2</sub> = 2000 SU<sub>122</sub>  
 1996 AR<sub>3</sub> = 2000 SW<sub>113</sub>  
 1996 BJ<sub>14</sub> = 2000 CP<sub>124</sub>  
 1996 BG<sub>17</sub> = 1986 TX<sub>6</sub> = 1986 VM<sub>5</sub> = 2000 QH<sub>151</sub>  
 1996 CD<sub>1</sub> = 1985 BM<sub>1</sub> = 2000 SC<sub>5</sub>  
 1996 FX<sub>9</sub> = 2000 EP<sub>200</sub>  
 1996 GD<sub>6</sub> = 1999 CG<sub>41</sub> = 2000 QS<sub>192</sub>  
 1996 HG<sub>1</sub> = 2000 OB<sub>24</sub>  
 1996 HV<sub>22</sub> = 2000 SP<sub>38</sub>  
 1996 HZ<sub>25</sub> = 2000 TV<sub>4</sub>  
 1996 JN<sub>1</sub> = 1999 CB<sub>76</sub> = 2000 RV<sub>62</sub>  
 1996 KS<sub>4</sub> = 1995 AH<sub>2</sub> = 2000 MG<sub>4</sub>  
 1996 LQ<sub>1</sub> = 2000 QR<sub>9</sub>  
 1996 QV = 2000 SJ<sub>107</sub>  
 1996 QC<sub>1</sub> = 1999 LJ<sub>21</sub> = 2000 SP<sub>119</sub>  
 1996 QR<sub>1</sub> = 2000 QG<sub>150</sub>  
 1996 RV = 2000 SE<sub>232</sub>  
 1996 RJ<sub>1</sub> = 1999 GV<sub>54</sub> = 2000 QX<sub>202</sub>  
 1996 RO<sub>2</sub> = 2000 QT<sub>121</sub>  
 1996 RX<sub>3</sub> = 2000 SP<sub>275</sub>  
 1996 RW<sub>7</sub> = 2000 SH<sub>135</sub>  
 1996 ST<sub>4</sub> = 2000 SJ<sub>81</sub>  
 1996 SD<sub>6</sub> = 2000 QQ<sub>114</sub>  
 1996 TJ<sub>2</sub> = 1999 BA<sub>28</sub>  
 1996 TM<sub>3</sub> = 2000 RP<sub>55</sub>  
 1996 TA<sub>5</sub> = 2000 OD<sub>29</sub>  
 1996 TA<sub>10</sub> = 2000 QG<sub>167</sub>  
 1996 TH<sub>13</sub> = 2000 QF<sub>169</sub>  
 1996 TW<sub>14</sub> = 2000 SS<sub>145</sub>  
 1996 TL<sub>19</sub> = 1999 GV<sub>2</sub> = 2000 QZ<sub>139</sub>  
 1996 TZ<sub>40</sub> = 2000 QX<sub>192</sub>  
 1996 TF<sub>50</sub> = 2000 PJ<sub>13</sub>  
 1996 VA<sub>1</sub> = 2000 RC<sub>90</sub>  
 1996 VG<sub>1</sub> = 2000 TE<sub>11</sub>  
 1996 VW<sub>4</sub> = 2000 SW<sub>32</sub>  
 1996 VC<sub>5</sub> = 1991 ST<sub>2</sub> = 2000 QB<sub>187</sub>  
 1996 VQ<sub>5</sub> = 2000 SB<sub>166</sub>  
 1996 VY<sub>10</sub> = 2000 QP<sub>180</sub>  
 1996 VR<sub>15</sub> = 2000 SZ<sub>151</sub>  
 1996 VW<sub>26</sub> = 2000 QF<sub>177</sub>  
 1996 WQ<sub>2</sub> = 2000 SO<sub>52</sub>  
 1996 XE = 2000 RD<sub>16</sub>  
 1996 XM<sub>3</sub> = 2000 TU<sub>16</sub>  
 1996 XN<sub>3</sub> = 2000 SF<sub>308</sub>  
 1996 XL<sub>4</sub> = 2000 SB<sub>90</sub>  
 1996 XJ<sub>5</sub> = 2000 SG<sub>100</sub>

1996 XU<sub>5</sub> = 2000 OC<sub>36</sub>  
 1996 XA<sub>7</sub> = 2000 EL<sub>89</sub>  
 1996 XT<sub>25</sub> = 2000 PG<sub>12</sub>  
 1996 XV<sub>32</sub> = 2000 QW<sub>164</sub>  
 1996 XF<sub>33</sub> = 1982 VZ<sub>8</sub> = 2000 SL<sub>160</sub>  
 1996 YR<sub>2</sub> = 2000 SN<sub>141</sub>  
 1996 YB<sub>3</sub> = 2000 SC<sub>47</sub>  
 1997 AX<sub>1</sub> = 2000 RE<sub>101</sub>  
 1997 AC<sub>2</sub> = 2000 SP<sub>28</sub>  
 1997 AF<sub>2</sub> = 2000 SJ<sub>222</sub>  
 1997 AU<sub>5</sub> = 1977 FU<sub>2</sub> = 2000 RX<sub>103</sub>  
 1997 AY<sub>6</sub> = 2000 SN<sub>20</sub>  
 1997 AA<sub>9</sub> = 2000 RP<sub>96</sub>  
 1997 AY<sub>14</sub> = 2000 SD<sub>45</sub>  
 1997 BS<sub>1</sub> = 2000 SS<sub>211</sub>  
 1997 CS<sub>4</sub> = 2000 RK<sub>82</sub>  
 1997 DH = 2000 RH<sub>20</sub>  
 1997 DM = 2000 SV<sub>85</sub>  
 1997 GB<sub>1</sub> = 1999 XF<sub>249</sub>  
 1997 GO<sub>9</sub> = 1998 SH<sub>166</sub>  
 1997 GC<sub>13</sub> = 1998 TT<sub>27</sub>  
 1997 HS<sub>14</sub> = 2000 AX<sub>89</sub>  
 1997 JE<sub>4</sub> = 2000 AS<sub>114</sub>  
 1997 JX<sub>11</sub> = 1998 WS<sub>39</sub>  
 1997 KZ<sub>3</sub> = 2000 SH<sub>2</sub>  
 1997 LF<sub>5</sub> = 1997 MJ<sub>1</sub>  
 1997 MM<sub>3</sub> = 2000 QF<sub>148</sub>  
 1997 MX<sub>6</sub> = 2000 SF<sub>233</sub>  
 1997 MK<sub>9</sub> = 1999 VV<sub>225</sub>  
 1997 PH<sub>4</sub> = 2000 QL<sub>117</sub> = 1977 CF<sub>1</sub>  
 1997 ST<sub>2</sub> = 1999 CP<sub>118</sub>  
 1997 SV<sub>6</sub> = 2000 FX<sub>68</sub>  
 1997 SZ<sub>13</sub> = 2000 EQ<sub>52</sub>  
 1997 SB<sub>14</sub> = 1993 PJ<sub>1</sub> = 2000 QP<sub>153</sub>  
 1997 TX<sub>11</sub> = 1990 SB<sub>25</sub> = 2000 ON<sub>10</sub>  
 1997 UL<sub>20</sub> = 2000 SJ<sub>160</sub>  
 1997 UN<sub>20</sub> = 1999 CY<sub>33</sub>  
 1997 VJ<sub>5</sub> = 2000 QB<sub>91</sub>  
 1997 VB<sub>6</sub> = 1987 SV<sub>4</sub> = 2000 SH<sub>146</sub>  
 1997 VB<sub>7</sub> = 2000 KF<sub>35</sub>  
 1997 WD<sub>16</sub> = 2000 QT<sub>91</sub>  
 1997 WO<sub>25</sub> = 2000 SX<sub>125</sub>  
 1997 WS<sub>31</sub> = 5135 T-2 = 2000 RZ<sub>16</sub>  
 1997 WR<sub>33</sub> = 2000 QL<sub>58</sub>  
 1997 WU<sub>36</sub> = 2000 SM<sub>234</sub>  
 1997 WH<sub>38</sub> = 2000 QA<sub>227</sub>  
 1997 XC<sub>8</sub> = 2000 SK<sub>97</sub>  
 1997 YW<sub>2</sub> = 1987 BF<sub>1</sub> = 2000 SM<sub>243</sub>  
 1997 YD<sub>5</sub> = 2000 SS<sub>141</sub>  
 1997 YO<sub>5</sub> = 2000 ST<sub>87</sub>  
 1997 YU<sub>6</sub> = 2000 ST<sub>219</sub>  
 1997 YA<sub>12</sub> = 1999 JU<sub>12</sub> = 2000 OW<sub>46</sub>

1997 YS<sub>13</sub> = 2000 SW<sub>170</sub>  
 1997 YA<sub>15</sub> = 2000 QX<sub>80</sub>  
 1997 YS<sub>17</sub> = 2000 TH<sub>22</sub>  
 1998 AK<sub>1</sub> = 2000 QO<sub>202</sub>  
 1998 AC<sub>6</sub> = 2000 SB<sub>177</sub>  
 1998 BW = 2000 RW<sub>101</sub>  
 1998 BJ<sub>3</sub> = 1999 NL<sub>27</sub>  
 1998 BM<sub>8</sub> = 1983 CG<sub>1</sub> = 2000 ST<sub>100</sub>  
 1998 BJ<sub>15</sub> = 2000 RT<sub>100</sub>  
 1998 BW<sub>15</sub> = 2000 OK<sub>54</sub>  
 1998 BF<sub>17</sub> = 2000 SH<sub>82</sub>  
 1998 BL<sub>17</sub> = 2000 QC<sub>53</sub>  
 1998 BD<sub>19</sub> = 2000 SC<sub>215</sub>  
 1998 BU<sub>23</sub> = 2000 TP<sub>9</sub>  
 1998 BQ<sub>24</sub> = 2000 SD<sub>149</sub>  
 1998 BS<sub>24</sub> = 2000 ST<sub>116</sub>  
 1998 BC<sub>25</sub> = 2000 SK<sub>178</sub>  
 1998 BG<sub>25</sub> = 2000 SL<sub>211</sub>  
 1998 BG<sub>31</sub> = 2000 RZ<sub>47</sub>  
 1998 BU<sub>33</sub> = 2000 SW<sub>86</sub>  
 1998 BY<sub>33</sub> = 1957 WV  
 1998 BH<sub>35</sub> = 2000 QU<sub>162</sub>  
 1998 BX<sub>38</sub> = 2000 QF<sub>176</sub>  
 1998 BG<sub>41</sub> = 1999 KL<sub>4</sub> = 2000 SZ<sub>218</sub>  
 1998 BU<sub>43</sub> = 1980 BG<sub>1</sub> = 1980 DG<sub>2</sub> = 2000 SV<sub>273</sub>  
 1998 BD<sub>44</sub> = 2000 RX<sub>92</sub>  
 1998 BR<sub>45</sub> = 1998 BM<sub>6</sub> = 2000 PL<sub>16</sub>  
 1998 BO<sub>48</sub> = 1998 DX<sub>4</sub> = 2000 RF<sub>9</sub>  
 1998 CQ<sub>1</sub> = 2000 SU<sub>270</sub>  
 1998 CA<sub>2</sub> = 2000 SC<sub>219</sub>  
 1998 CM<sub>3</sub> = 2000 SE<sub>122</sub>  
 1998 CF<sub>4</sub> = 1985 CM = 2000 QW<sub>95</sub>  
 1998 CX<sub>4</sub> = 2000 QZ<sub>150</sub>  
 1998 CZ<sub>4</sub> = 2000 SV<sub>222</sub>  
 1998 CC<sub>5</sub> = 1996 TD<sub>56</sub>  
 1998 DG<sub>2</sub> = 2000 SY<sub>73</sub>  
 1998 DO<sub>2</sub> = 2000 SC<sub>211</sub>  
 1998 DB<sub>7</sub> = 2000 SV<sub>259</sub>  
 1998 DZ<sub>8</sub> = 2000 QV<sub>231</sub>  
 1998 DD<sub>9</sub> = 2000 SN<sub>222</sub>  
 1998 DM<sub>9</sub> = 2000 SN<sub>75</sub>  
 1998 DN<sub>9</sub> = 2000 SJ<sub>128</sub>  
 1998 DF<sub>12</sub> = 2000 SG<sub>270</sub>  
 1998 DN<sub>12</sub> = 2000 SP<sub>73</sub>  
 1998 DJ<sub>13</sub> = 2000 RJ<sub>96</sub>  
 1998 DR<sub>13</sub> = 2000 SB<sub>114</sub>  
 1998 DE<sub>15</sub> = 2000 SK<sub>154</sub>  
 1998 DG<sub>19</sub> = 2000 QP<sub>214</sub>  
 1998 DK<sub>20</sub> = 2000 SU<sub>143</sub>  
 1998 DO<sub>20</sub> = 2000 QJ<sub>119</sub>  
 1998 DA<sub>21</sub> = 2000 QH<sub>112</sub>  
 1998 DQ<sub>21</sub> = 2000 QY<sub>131</sub>

1998 DJ<sub>24</sub> = 2000 QQ<sub>55</sub>  
 1998 DD<sub>25</sub> = 2000 OV<sub>57</sub>  
 1998 DZ<sub>25</sub> = 2000 SM<sub>61</sub>  
 1998 DV<sub>27</sub> = 2000 SN<sub>277</sub>  
 1998 DB<sub>28</sub> = 2000 SQ<sub>148</sub>  
 1998 DX<sub>32</sub> = 2000 OB<sub>21</sub>  
 1998 DF<sub>33</sub> = 2000 OG<sub>50</sub>  
 1998 DJ<sub>34</sub> = 2000 SF<sub>180</sub>  
 1998 DM<sub>35</sub> = 2000 SY<sub>168</sub>  
 1998 DQ<sub>35</sub> = 1982 PX = 1982 RQ<sub>3</sub>  
 1998 DU<sub>37</sub> = 1999 LZ<sub>19</sub>  
 1998 EB<sub>2</sub> = 1998 FE<sub>75</sub> = 2000 SA<sub>113</sub>  
 1998 EZ<sub>5</sub> = 2000 SY<sub>278</sub>  
 1998 EW<sub>7</sub> = 2000 SQ<sub>228</sub>  
 1998 ED<sub>8</sub> = 2000 SZ<sub>113</sub>  
 1998 EH<sub>8</sub> = 2000 SL<sub>109</sub>  
 1998 EV<sub>8</sub> = 1984 GO = 2000 SU<sub>171</sub>  
 1998 EZ<sub>9</sub> = 2000 SN<sub>202</sub>  
 1998 ED<sub>10</sub> = 2000 RZ<sub>22</sub>  
 1998 EC<sub>11</sub> = 1989 TJ<sub>8</sub> = 2000 ST<sub>122</sub>  
 1998 ES<sub>11</sub> = 2000 ST<sub>230</sub>  
 1998 EM<sub>12</sub> = 2000 QA<sub>138</sub>  
 1998 EP<sub>12</sub> = 2000 SR<sub>73</sub>  
 1998 ED<sub>13</sub> = 1962 WT = 1986 VY<sub>6</sub> = 2000 SY<sub>160</sub>  
 1998 EO<sub>13</sub> = 2000 QJ<sub>201</sub>  
 1998 EK<sub>14</sub> = 2000 SY<sub>208</sub>  
 1998 EV<sub>14</sub> = 2000 SF<sub>49</sub>  
 1998 EM<sub>19</sub> = 2014 T-1 = 1995 WV<sub>40</sub> = 2000 QO<sub>83</sub> = 2000 QP<sub>129</sub>  
 1998 EM<sub>21</sub> = 2000 SV<sub>35</sub>  
 1998 FO<sub>3</sub> = 2000 SE<sub>183</sub>  
 1998 FT<sub>4</sub> = 2000 SM<sub>105</sub>  
 1998 FL<sub>6</sub> = 1980 TQ<sub>12</sub> = 2000 SS<sub>172</sub>  
 1998 FD<sub>9</sub> = 2000 QN<sub>65</sub>  
 1998 FY<sub>10</sub> = 2000 SG<sub>153</sub>  
 1998 FM<sub>11</sub> = 1990 VX<sub>10</sub> = 2000 SM<sub>219</sub>  
 1998 FF<sub>12</sub> = 2000 SD<sub>188</sub>  
 1998 FD<sub>14</sub> = 2000 RY<sub>92</sub>  
 1998 FS<sub>14</sub> = 2000 SC<sub>140</sub>  
 1998 FN<sub>16</sub> = 2000 RD<sub>4</sub>  
 1998 FN<sub>17</sub> = 2000 SO<sub>118</sub>  
 1998 FL<sub>18</sub> = 2000 SH<sub>153</sub>  
 1998 FO<sub>18</sub> = 2000 SQ<sub>112</sub>  
 1998 FR<sub>22</sub> = 1996 TP<sub>40</sub> = 2000 OH<sub>43</sub> = 2000 QR<sub>87</sub>  
 1998 FL<sub>23</sub> = 2000 SB<sub>147</sub>  
 1998 FC<sub>24</sub> = 1978 QO<sub>1</sub> = 1991 EQ<sub>4</sub>  
 1998 FJ<sub>24</sub> = 2000 RN<sub>75</sub>  
 1998 FE<sub>25</sub> = 2000 RU<sub>47</sub>  
 1998 FM<sub>25</sub> = 2000 RM<sub>54</sub>  
 1998 FR<sub>25</sub> = 2000 SE<sub>99</sub>  
 1998 FT<sub>29</sub> = 2000 SV<sub>185</sub>  
 1998 FB<sub>30</sub> = 1985 SF<sub>6</sub>  
 1998 FO<sub>31</sub> = 2000 SS<sub>189</sub>

1998 FX<sub>31</sub> = 1978 WU<sub>15</sub> = 2000 SG<sub>10</sub>  
 1998 FG<sub>33</sub> = 2000 QN<sub>76</sub>  
 1998 FJ<sub>37</sub> = 2000 QG<sub>151</sub>  
 1998 FO<sub>37</sub> = 1980 TV<sub>4</sub> = 1990 WW<sub>3</sub> = 1993 SP<sub>8</sub>  
 1998 FY<sub>37</sub> = 2000 RO<sub>66</sub>  
 1998 FA<sub>39</sub> = 2000 QD<sub>133</sub>  
 1998 FB<sub>40</sub> = 2000 QU<sub>138</sub>  
 1998 FD<sub>40</sub> = 2000 SZ<sub>180</sub>  
 1998 FM<sub>41</sub> = 2000 SD<sub>103</sub>  
 1998 FP<sub>41</sub> = 1977 EF<sub>5</sub> = 2000 SJ<sub>10</sub>  
 1998 FP<sub>42</sub> = 2000 TM<sub>2</sub>  
 1998 FD<sub>44</sub> = 1976 UJ<sub>11</sub> = 2000 QC<sub>106</sub>  
 1998 FS<sub>45</sub> = 2000 SP<sub>122</sub>  
 1998 FY<sub>48</sub> = 2000 SW<sub>147</sub>  
 1998 FA<sub>52</sub> = 2000 SD<sub>191</sub>  
 1998 FH<sub>53</sub> = 2000 SE<sub>108</sub>  
 1998 FL<sub>53</sub> = 2000 SV<sub>145</sub>  
 1998 FL<sub>54</sub> = 2000 SJ<sub>202</sub>  
 1998 FV<sub>54</sub> = 2000 QU<sub>165</sub>  
 1998 FO<sub>56</sub> = 2000 SL<sub>108</sub>  
 1998 FE<sub>57</sub> = 2000 SL<sub>66</sub>  
 1998 FU<sub>57</sub> = 2000 SA<sub>240</sub>  
 1998 FA<sub>58</sub> = 2000 SH<sub>120</sub>  
 1998 FR<sub>59</sub> = 2000 SW<sub>70</sub>  
 1998 FZ<sub>59</sub> = 2000 SZ<sub>146</sub>  
 1998 FA<sub>60</sub> = 1985 YE<sub>2</sub>  
 1998 FG<sub>60</sub> = 2000 SX<sub>223</sub>  
 1998 FJ<sub>60</sub> = 2000 SA<sub>122</sub>  
 1998 FN<sub>61</sub> = 2000 SN<sub>188</sub>  
 1998 FB<sub>62</sub> = 2000 SP<sub>178</sub>  
 1998 FH<sub>62</sub> = 2000 SQ<sub>272</sub>  
 1998 FX<sub>62</sub> = 2000 SF<sub>144</sub>  
 1998 FY<sub>64</sub> = 2000 SX<sub>176</sub>  
 1998 FS<sub>66</sub> = 2000 SV<sub>42</sub>  
 1998 FC<sub>70</sub> = 2000 SN<sub>123</sub>  
 1998 FE<sub>70</sub> = 2000 SB<sub>171</sub>  
 1998 FS<sub>71</sub> = 2000 SV<sub>263</sub>  
 1998 FW<sub>73</sub> = 2000 RB<sub>97</sub>  
 1998 FX<sub>74</sub> = 2000 SE<sub>10</sub>  
 1998 FG<sub>76</sub> = 1987 KH<sub>4</sub> = 2000 SQ<sub>116</sub>  
 1998 FQ<sub>76</sub> = 1975 VF<sub>7</sub> = 1983 TB<sub>1</sub>  
 1998 FB<sub>77</sub> = 2000 SQ<sub>249</sub>  
 1998 FT<sub>77</sub> = 2000 QC<sub>102</sub>  
 1998 FP<sub>78</sub> = 2000 SO<sub>72</sub>  
 1998 FQ<sub>78</sub> = 2000 SV<sub>72</sub>  
 1998 FC<sub>79</sub> = 2000 SY<sub>87</sub>  
 1998 FD<sub>79</sub> = 2000 SV<sub>124</sub>  
 1998 FE<sub>79</sub> = 2000 SE<sub>87</sub>  
 1998 FF<sub>79</sub> = 2000 SZ<sub>255</sub>  
 1998 FS<sub>85</sub> = 2000 SC<sub>74</sub>  
 1998 FE<sub>88</sub> = 1996 TV<sub>63</sub> = 2000 RY<sub>38</sub>  
 1998 FB<sub>91</sub> = 2000 SV<sub>274</sub>

1998 FW<sub>96</sub> = 2000 SA<sub>104</sub>  
 1998 FJ<sub>97</sub> = 2000 RZ<sub>80</sub>  
 1998 FU<sub>99</sub> = 1979 OR<sub>3</sub> = 2000 QP<sub>122</sub> = 2000 RJ<sub>79</sub>  
 1998 FN<sub>101</sub> = 2000 SY<sub>145</sub>  
 1998 FB<sub>102</sub> = 2000 QN<sub>234</sub>  
 1998 FW<sub>103</sub> = 1991 HB<sub>5</sub>  
 1998 FE<sub>104</sub> = 2000 QD<sub>158</sub>  
 1998 FF<sub>104</sub> = 2000 SP<sub>96</sub>  
 1998 FB<sub>107</sub> = 2000 SK<sub>17</sub>  
 1998 FC<sub>109</sub> = 2000 SG<sub>179</sub>  
 1998 FD<sub>109</sub> = 2000 QV<sub>120</sub>  
 1998 FX<sub>109</sub> = 2000 SV<sub>152</sub>  
 1998 FN<sub>113</sub> = 2000 RC<sub>89</sub>  
 1998 FD<sub>118</sub> = 2000 RO<sub>20</sub>  
 1998 FU<sub>118</sub> = 2000 SF<sub>171</sub>  
 1998 FY<sub>118</sub> = 2000 SG<sub>145</sub>  
 1998 FK<sub>119</sub> = 2000 SX<sub>276</sub>  
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 1998 FO<sub>120</sub> = 2000 SZ<sub>58</sub>  
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 1998 FN<sub>127</sub> = 2000 QT<sub>103</sub>  
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 1998 FH<sub>146</sub> = 1999 RQ<sub>111</sub>  
 1998 GW = 2000 ST<sub>11</sub>  
 1998 GK<sub>8</sub> = 2000 QH<sub>224</sub>  
 1998 GL<sub>8</sub> = 2000 QV<sub>183</sub>  
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 1998 GK<sub>11</sub> = 2000 SN<sub>257</sub>  
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 1998 HD<sub>3</sub> = 1981 JY<sub>4</sub> = 2000 SN<sub>32</sub>  
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 1998 HK<sub>7</sub> = 2000 SY<sub>225</sub>  
 1998 HH<sub>15</sub> = 2000 SB<sub>88</sub>  
 1998 HT<sub>15</sub> = 2000 SN<sub>203</sub>  
 1998 HK<sub>17</sub> = 2000 SW<sub>24</sub>  
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 1998 HX<sub>19</sub> = 2000 SH<sub>203</sub>  
 1998 HF<sub>23</sub> = 2000 RZ<sub>78</sub>  
 1998 HF<sub>29</sub> = 2000 SA<sub>139</sub>  
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 1998 HA<sub>36</sub> = 2000 SD<sub>117</sub>  
 1998 HE<sub>42</sub> = 2000 SM<sub>85</sub>  
 1998 HF<sub>45</sub> = 2000 SD<sub>143</sub>  
 1998 HT<sub>46</sub> = 2000 SJ<sub>268</sub>  
 1998 HU<sub>47</sub> = 2000 SC<sub>125</sub>  
 1998 HX<sub>53</sub> = 2000 SA<sub>215</sub>  
 1998 HU<sub>57</sub> = 1984 WE<sub>3</sub> = 2000 QL<sub>203</sub>  
 1998 HZ<sub>60</sub> = 2000 SL<sub>84</sub>  
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 1998 HQ<sub>94</sub> = 1999 NK<sub>64</sub> = 1999 OB<sub>4</sub>  
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 1998 HU<sub>99</sub> = 2000 SZ<sub>274</sub>  
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 1998 HX<sub>101</sub> = 1987 KP = 2000 SB<sub>155</sub>  
 1998 HN<sub>108</sub> = 1998 HE<sub>152</sub> = 1975 JF = 1999 SN<sub>26</sub>  
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 1998 HQ<sub>114</sub> = 2000 SH<sub>238</sub>  
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 1998 KR<sub>7</sub> = 2000 SQ<sub>221</sub>  
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 1998 KP<sub>9</sub> = 2000 SG<sub>73</sub>  
 1998 KO<sub>15</sub> = 2000 RE<sub>9</sub>  
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 1998 KF<sub>67</sub> = 1999 VQ<sub>196</sub>  
 1998 MH<sub>4</sub> = 2000 AC<sub>49</sub>  
 1998 MK<sub>34</sub> = 1998 KN<sub>43</sub> = 1999 XC<sub>30</sub>  
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 1998 QN<sub>33</sub> = 1985 SG  
 1998 QB<sub>70</sub> = 1999 XX<sub>90</sub>  
 1998 QP<sub>78</sub> = 1999 XF<sub>261</sub>  
 1998 QH<sub>86</sub> = 2000 AD<sub>202</sub>  
 1998 RF<sub>8</sub> = 2000 FJ<sub>54</sub>  
 1998 SV<sub>42</sub> = 1998 SP<sub>163</sub>  
 1998 SW<sub>97</sub> = 1998 UK<sub>46</sub>  
 1998 SV<sub>103</sub> = 2000 GX<sub>179</sub>  
 1998 TB<sub>28</sub> = 2000 EC<sub>101</sub>  
 1998 UV<sub>22</sub> = 1997 LV<sub>4</sub>  
 1998 VS<sub>53</sub> = 2000 AM<sub>218</sub>  
 1998 WG<sub>41</sub> = 1998 WV<sub>41</sub> = 2000 CH<sub>17</sub>  
 1998 XJ<sub>62</sub> = 1980 WF<sub>3</sub>  
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 1999 BO<sub>6</sub> = 2000 SE<sub>67</sub>  
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 1999 EN<sub>3</sub> = 2000 SZ<sub>81</sub>  
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 1999 EH<sub>6</sub> = 2000 QP<sub>113</sub>  
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 1999 FU<sub>23</sub> = 2000 SB<sub>35</sub>  
 1999 FK<sub>24</sub> = 2000 QX<sub>186</sub>  
 1999 FG<sub>25</sub> = 2000 SN<sub>40</sub>  
 1999 FY<sub>25</sub> = 2000 SJ<sub>278</sub>  
 1999 FS<sub>26</sub> = 2000 SD<sub>247</sub>  
 1999 FD<sub>27</sub> = 2000 SM<sub>249</sub>  
 1999 FF<sub>29</sub> = 2000 SN<sub>275</sub>  
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 1999 FB<sub>31</sub> = 2000 SW<sub>120</sub>  
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 1999 GK<sub>8</sub> = 2000 SU<sub>17</sub>  
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 1999 GY<sub>30</sub> = 2000 SU<sub>267</sub>  
 1999 GQ<sub>33</sub> = 2000 SF<sub>270</sub>  
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 1999 GB<sub>35</sub> = 1992 GP<sub>7</sub> = 2000 ST<sub>31</sub>  
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 1999 GX<sub>35</sub> = 2000 SX<sub>266</sub>  
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 1999 HJ<sub>8</sub> = 2000 QL<sub>8</sub>  
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 1999 JY<sub>6</sub> = 2000 SG<sub>263</sub>  
 1999 JV<sub>7</sub> = 2000 SH<sub>91</sub>  
 1999 JW<sub>8</sub> = 1990 WT<sub>8</sub>  
 1999 JM<sub>9</sub> = 2000 SO<sub>107</sub>  
 1999 JN<sub>9</sub> = 2000 SO<sub>75</sub>  
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 1999 JW<sub>9</sub> = 2000 RV<sub>18</sub>  
 1999 JS<sub>11</sub> = 2000 SZ<sub>8</sub>  
 1999 JB<sub>13</sub> = 1991 VS<sub>15</sub> = 2000 SX<sub>226</sub>  
 1999 JL<sub>13</sub> = 2000 SM<sub>279</sub>  
 1999 JW<sub>13</sub> = 2000 SK<sub>246</sub>  
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 1999 JU<sub>28</sub> = 2000 SZ<sub>101</sub>  
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 1999 JU<sub>29</sub> = 2000 SY<sub>263</sub>  
 1999 JJ<sub>30</sub> = 2000 ST<sub>167</sub>  
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 1999 JQ<sub>37</sub> = 2000 RW<sub>85</sub>  
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 1999 JT<sub>55</sub> = 2000 SE<sub>188</sub>  
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 1999 JE<sub>60</sub> = 2000 SK<sub>76</sub>  
 1999 JR<sub>60</sub> = 2000 SJ<sub>109</sub>  
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 1999 JR<sub>64</sub> = 1999 LN<sub>17</sub> = 2000 SL<sub>6</sub>  
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 1999 JX<sub>64</sub> = 2000 SF<sub>108</sub>  
 1999 JJ<sub>65</sub> = 2000 SJ<sub>23</sub>  
 1999 JY<sub>65</sub> = 2000 QV<sub>150</sub>  
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 1999 JZ<sub>71</sub> = 2000 SS<sub>183</sub>  
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 1999 JU<sub>72</sub> = 2000 SD<sub>125</sub>  
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 1999 JR<sub>83</sub> = 2000 SC<sub>162</sub>  
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 1999 JW<sub>84</sub> = 2000 QK<sub>139</sub>  
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 1999 JZ<sub>93</sub> = 2000 SX<sub>254</sub>  
 1999 JT<sub>94</sub> = 2000 SK<sub>231</sub>  
 1999 JD<sub>96</sub> = 2000 QG<sub>18</sub>  
 1999 JX<sub>96</sub> = 2000 SC<sub>264</sub>  
 1999 JB<sub>97</sub> = 2000 SQ<sub>213</sub>  
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 1999 JN<sub>112</sub> = 2000 SE<sub>86</sub>  
 1999 JW<sub>112</sub> = 2000 SV<sub>108</sub>  
 1999 JB<sub>113</sub> = 2000 PV<sub>21</sub>  
 1999 JY<sub>113</sub> = 2000 SV<sub>219</sub>  
 1999 JL<sub>115</sub> = 2000 SZ<sub>128</sub>  
 1999 JU<sub>116</sub> = 2000 SK<sub>149</sub>  
 1999 JT<sub>119</sub> = 2000 SA<sub>57</sub>  
 1999 JB<sub>120</sub> = 2000 SJ<sub>204</sub>  
 1999 JZ<sub>120</sub> = 2000 SP<sub>260</sub>

1999 JU<sub>121</sub> = 2000 SJ<sub>143</sub>  
 1999 JL<sub>122</sub> = 1999 LJ<sub>17</sub> = 2000 SL<sub>154</sub>  
 1999 JP<sub>122</sub> = 2000 ST<sub>271</sub>  
 1999 JQ<sub>125</sub> = 2000 SD<sub>74</sub>  
 1999 JZ<sub>125</sub> = 2000 SJ<sub>199</sub>  
 1999 JA<sub>127</sub> = 2000 SF<sub>140</sub>  
 1999 JP<sub>129</sub> = 2000 SL<sub>68</sub>  
 1999 JP<sub>131</sub> = 2000 SS<sub>125</sub>  
 1999 KG<sub>1</sub> = 2000 SV<sub>90</sub>  
 1999 KU<sub>2</sub> = 2000 SK<sub>147</sub>  
 1999 KM<sub>5</sub> = 2000 RH<sub>82</sub>  
 1999 KH<sub>6</sub> = 2000 SW<sub>238</sub>  
 1999 KD<sub>9</sub> = 2000 SH<sub>20</sub>  
 1999 KO<sub>11</sub> = 2000 QX<sub>159</sub>  
 1999 KU<sub>11</sub> = 2000 SO<sub>55</sub>  
 1999 KW<sub>13</sub> = 1999 LO<sub>17</sub>  
 1999 KA<sub>14</sub> = 1999 LJ<sub>19</sub> = 2000 TS<sub>11</sub>  
 1999 KD<sub>14</sub> = 1999 LW<sub>17</sub>  
 1999 KE<sub>14</sub> = 1999 LA<sub>18</sub> = 2000 SE<sub>128</sub>  
 1999 KJ<sub>14</sub> = 2000 SS<sub>276</sub>  
 1999 KK<sub>14</sub> = 1999 LP<sub>23</sub> = 2000 SX<sub>218</sub>  
 1999 KH<sub>15</sub> = 1977 DJ = 1998 FS<sub>74</sub> = 2000 RX<sub>49</sub>  
 1999 KW<sub>15</sub> = 2000 SQ<sub>15</sub>  
 1999 KY<sub>15</sub> = 2000 SE<sub>278</sub>  
 1999 KO<sub>17</sub> = 2000 SU<sub>225</sub>  
 1999 LG<sub>2</sub> = 2000 SZ<sub>219</sub>  
 1999 LF<sub>5</sub> = 2000 SM<sub>244</sub>  
 1999 LV<sub>13</sub> = 2000 SV<sub>178</sub>  
 1999 LK<sub>14</sub> = 1999 NK<sub>45</sub>  
 1999 LH<sub>15</sub> = 1991 PB<sub>23</sub> = 2000 QQ<sub>193</sub>  
 1999 LP<sub>22</sub> = 1993 SV<sub>2</sub> = 2000 QO<sub>217</sub>  
 1999 LP<sub>25</sub> = 2000 SM<sub>165</sub>  
 1999 LJ<sub>26</sub> = 2000 SO<sub>126</sub>  
 1999 LD<sub>27</sub> = 2000 SD<sub>239</sub>  
 1999 NF<sub>2</sub> = 1998 HR<sub>85</sub> = 2000 ST<sub>44</sub>  
 1999 NP<sub>17</sub> = 2000 SQ<sub>166</sub>  
 1999 NC<sub>32</sub> = 1981 AE<sub>2</sub> = 2000 RR<sub>104</sub>  
 1999 NA<sub>41</sub> = 1966 PE<sub>1</sub>  
 1999 NV<sub>41</sub> = 1933 FK<sub>1</sub> = 1971 SL = 1981 CG<sub>1</sub> = 2000 SS<sub>319</sub>  
 1999 NF<sub>47</sub> = 2000 SG<sub>238</sub>  
 1999 NF<sub>61</sub> = 2000 QP<sub>182</sub>  
 1999 NW<sub>61</sub> = 2000 SX<sub>220</sub>  
 1999 RR<sub>2</sub> = 2000 SL<sub>231</sub>  
 1999 RH<sub>23</sub> = 2000 SP<sub>172</sub>  
 1999 RP<sub>44</sub> = 1999 RT<sub>255</sub> = 2000 SX<sub>292</sub>  
 1999 RT<sub>47</sub> = 2000 ST<sub>177</sub>  
 1999 RF<sub>48</sub> = 2000 SY<sub>238</sub>  
 1999 RK<sub>58</sub> = 2000 SA<sub>320</sub>  
 1999 RW<sub>70</sub> = 2000 SY<sub>141</sub>  
 1999 RR<sub>88</sub> = 2000 SJ<sub>172</sub>  
 1999 RQ<sub>112</sub> = 1988 UN<sub>1</sub>  
 1999 RX<sub>113</sub> = 1998 HL<sub>44</sub>

1999 RX<sub>114</sub> = 2000 ST<sub>172</sub>  
 1999 RY<sub>138</sub> = 2000 SZ<sub>45</sub>  
 1999 RA<sub>144</sub> = 2000 SY<sub>117</sub>  
 1999 RP<sub>147</sub> = 2000 TG  
 1999 RW<sub>147</sub> = 1976 US<sub>17</sub>  
 1999 RO<sub>148</sub> = 2000 SH<sub>222</sub>  
 1999 RT<sub>166</sub> = 1976 UP<sub>14</sub>  
 1999 RE<sub>183</sub> = 1999 TP<sub>280</sub> = 1982 DE<sub>3</sub>  
 1999 RT<sub>186</sub> = 2000 SR<sub>112</sub>  
 1999 RS<sub>190</sub> = 1984 LP  
 1999 RW<sub>198</sub> = 2000 ST<sub>160</sub>  
 1999 RY<sub>205</sub> = 1988 AU<sub>4</sub>  
 1999 RT<sub>206</sub> = 2000 SM<sub>231</sub>  
 1999 RW<sub>208</sub> = 1941 SX = 1950 TZ<sub>3</sub> = 1968 UW<sub>1</sub> = 1986 TH<sub>6</sub>  
 1999 RG<sub>239</sub> = 1981 VU<sub>1</sub>  
 1999 RQ<sub>252</sub> = 1999 VX<sub>195</sub> = 2000 SM<sub>172</sub>  
 1999 SA<sub>8</sub> = 2000 SV<sub>160</sub>  
 1999 TG<sub>4</sub> = 2000 SR<sub>320</sub>  
 1999 TR<sub>10</sub> = 1990 AO  
 1999 TH<sub>35</sub> = 1983 EU<sub>1</sub>  
 1999 TF<sub>70</sub> = 1994 TG<sub>7</sub>  
 1999 TE<sub>91</sub> = 2000 SX<sub>160</sub>  
 1999 TJ<sub>106</sub> = 2000 SG<sub>227</sub>  
 1999 TD<sub>109</sub> = 1992 AO<sub>6</sub>  
 1999 TS<sub>138</sub> = 1995 VK<sub>16</sub>  
 1999 TS<sub>153</sub> = 1976 UT<sub>16</sub>  
 1999 TG<sub>179</sub> = 1977 DY<sub>5</sub>  
 1999 TQ<sub>228</sub> = 1992 EP<sub>29</sub>  
 1999 TV<sub>280</sub> = 1999 RN<sub>97</sub>  
 1999 UJ<sub>27</sub> = 1977 EY<sub>8</sub>  
 1999 UQ<sub>33</sub> = 1999 VZ<sub>226</sub>  
 1999 UW<sub>38</sub> = 1981 UB<sub>3</sub>  
 1999 VE<sub>37</sub> = 1981 UB<sub>5</sub>  
 1999 VN<sub>45</sub> = 1992 GN<sub>7</sub>  
 1999 VS<sub>155</sub> = 1999 XG<sub>152</sub>  
 1999 VO<sub>160</sub> = 1995 WS<sub>35</sub>  
 1999 VD<sub>169</sub> = 1991 PH<sub>22</sub> = 1991 PD<sub>32</sub>  
 1999 VR<sub>184</sub> = 2315 T-2  
 1999 XF<sub>12</sub> = 1990 BJ<sub>6</sub>  
 1999 XL<sub>24</sub> = 1998 OK<sub>15</sub>  
 1999 XS<sub>38</sub> = 1990 VN<sub>11</sub>  
 1999 XC<sub>80</sub> = 1995 TH<sub>3</sub>  
 1999 XM<sub>116</sub> = 1976 UK<sub>19</sub>  
 1999 XC<sub>119</sub> = 1993 OH<sub>14</sub>  
 1999 XS<sub>119</sub> = 1972 TZ<sub>8</sub>  
 1999 XA<sub>151</sub> = 1988 VP<sub>10</sub>  
 1999 XM<sub>166</sub> = 1976 UC<sub>20</sub>  
 1999 XR<sub>168</sub> = 1580 T-2 = 1998 HE<sub>68</sub>  
 1999 YR<sub>4</sub> = 1998 QT<sub>93</sub>  
 2000 AX<sub>33</sub> = 1990 KZ<sub>3</sub>  
 2000 AY<sub>46</sub> = 1990 SK<sub>25</sub>  
 2000 AJ<sub>51</sub> = 2000 SR<sub>172</sub>

2000 AB<sub>63</sub> = 1987 BH<sub>1</sub>  
 2000 AY<sub>104</sub> = 1997 ER<sub>21</sub>  
 2000 AK<sub>105</sub> = 1978 WV<sub>15</sub> = 1983 VF<sub>6</sub> = 1998 QN<sub>76</sub>  
 2000 AG<sub>138</sub> = 1990 UW<sub>7</sub>  
 2000 AE<sub>167</sub> = 1994 RJ<sub>14</sub> = 1998 QB<sub>108</sub>  
 2000 AA<sub>192</sub> = 1988 XV<sub>5</sub>  
 2000 AV<sub>246</sub> = 1980 TB<sub>3</sub>  
 2000 BS<sub>38</sub> = 1998 SB<sub>160</sub>  
 2000 BF<sub>49</sub> = 1997 LQ<sub>7</sub>  
 2000 CK<sub>40</sub> = 1979 QJ<sub>10</sub>  
 2000 CB<sub>102</sub> = 1991 RZ<sub>32</sub>  
 2000 CZ<sub>136</sub> = 1996 GW<sub>14</sub>  
 2000 CC<sub>137</sub> = 1994 UG<sub>8</sub>  
 2000 DH<sub>107</sub> = 1990 KF<sub>2</sub>  
 2000 ED<sub>1</sub> = 1993 FQ<sub>4</sub>  
 2000 ET<sub>71</sub> = 1994 PE<sub>9</sub>  
 2000 ED<sub>178</sub> = 1993 FO<sub>81</sub>  
 2000 FL<sub>73</sub> = 2000 GH<sub>148</sub> = 1982 UK<sub>3</sub> = 1994 WS<sub>11</sub>  
 2000 GO<sub>53</sub> = 1997 UM<sub>17</sub>  
 2000 GZ<sub>58</sub> = 1998 YN<sub>27</sub>  
 2000 GP<sub>69</sub> = 1989 EG<sub>5</sub>  
 2000 GE<sub>78</sub> = 1976 UU<sub>11</sub>  
 2000 GQ<sub>105</sub> = 1979 QT<sub>5</sub>  
 2000 GD<sub>121</sub> = 1994 VK<sub>4</sub>  
 2000 GW<sub>135</sub> = 1990 DY<sub>5</sub>  
 2000 GN<sub>138</sub> = 4416 T-3  
 2000 GV<sub>148</sub> = 1998 WY<sub>12</sub>  
 2000 GF<sub>151</sub> = 1997 UY<sub>16</sub>  
 2000 GL<sub>153</sub> = 1998 RZ<sub>2</sub>  
 2000 HF<sub>23</sub> = 1998 BP<sub>42</sub>  
 2000 HD<sub>59</sub> = 1999 CO<sub>94</sub>  
 2000 JJ<sub>14</sub> = 1990 WK<sub>12</sub>  
 2000 KR<sub>50</sub> = 1992 SC  
 2000 KH<sub>68</sub> = 1986 LS = 1995 KA<sub>2</sub>  
 2000 LL<sub>12</sub> = 1988 SR<sub>4</sub> = 1992 PB<sub>3</sub>  
 2000 LF<sub>19</sub> = 1986 LM = 1999 CV<sub>74</sub>  
 2000 LN<sub>19</sub> = 1980 XJ<sub>1</sub>  
 2000 LV<sub>24</sub> = 1991 RY<sub>1</sub>  
 2000 LX<sub>24</sub> = 1999 FA<sub>46</sub>  
 2000 LW<sub>28</sub> = 3028 T-1  
 2000 LQ<sub>34</sub> = 1987 YU<sub>3</sub>  
 2000 MA<sub>2</sub> = 1954 OP = 1999 DO<sub>4</sub>  
 2000 MN<sub>5</sub> = 1993 VK<sub>4</sub>  
 2000 MH<sub>6</sub> = 1993 UR<sub>4</sub>  
 2000 NN<sub>5</sub> = 1980 FK<sub>7</sub> = 1986 QW<sub>3</sub> = 1986 RS<sub>8</sub>  
 2000 NY<sub>7</sub> = 1999 GR<sub>41</sub>  
 2000 NU<sub>8</sub> = 1990 WO<sub>1</sub>  
 2000 NT<sub>12</sub> = 1999 JZ<sub>94</sub>  
 2000 NV<sub>12</sub> = 1989 GN<sub>7</sub> = 1997 UT<sub>13</sub>  
 2000 NW<sub>12</sub> = 2320 T-2  
 2000 NM<sub>16</sub> = 1992 OA<sub>6</sub> = 1996 PF<sub>8</sub>  
 2000 NU<sub>16</sub> = 1999 BQ<sub>19</sub>

2000 NK<sub>17</sub> = 1995 UZ<sub>48</sub>  
 2000 NQ<sub>25</sub> = 1986 RS<sub>13</sub> = 1987 YE<sub>3</sub>  
 2000 NK<sub>26</sub> = 1999 JP<sub>117</sub>  
 2000 NC<sub>27</sub> = 1978 RH<sub>10</sub> = 1999 GU<sub>22</sub>  
 2000 NB<sub>28</sub> = 1988 DC<sub>3</sub> = 1989 PE<sub>1</sub>  
 2000 OT = 1985 CU = 1991 PA<sub>23</sub> = 1991 PA<sub>30</sub>  
 2000 OA<sub>5</sub> = 1989 SA<sub>1</sub>  
 2000 OK<sub>6</sub> = 1999 BM<sub>24</sub>  
 2000 OL<sub>6</sub> = 1997 SZ<sub>17</sub>  
 2000 OY<sub>8</sub> = 1974 QK<sub>2</sub> = 1978 VK<sub>1</sub> = 1989 UC<sub>9</sub> = 1999 KG<sub>17</sub>  
 2000 OF<sub>10</sub> = 1992 ED<sub>26</sub> = 1996 GK<sub>20</sub> = 1999 FR<sub>41</sub>  
 2000 OK<sub>10</sub> = 1999 CW<sub>13</sub>  
 2000 OZ<sub>10</sub> = 1982 BT<sub>14</sub> = 1999 GT<sub>38</sub>  
 2000 OE<sub>11</sub> = 1998 BN<sub>40</sub>  
 2000 OX<sub>12</sub> = 1997 WQ<sub>10</sub>  
 2000 OH<sub>13</sub> = 2000 QW<sub>9</sub> = 1979 OG<sub>6</sub>  
 2000 OJ<sub>13</sub> = 1999 JF<sub>135</sub>  
 2000 OT<sub>13</sub> = 1994 AU<sub>8</sub>  
 2000 OU<sub>13</sub> = 1991 AG<sub>3</sub> = 1992 ET<sub>27</sub>  
 2000 OT<sub>16</sub> = 1949 WB<sub>1</sub> = 1981 TD = 1999 GJ<sub>3</sub>  
 2000 OZ<sub>16</sub> = 1977 RU<sub>8</sub> = 1996 AR<sub>15</sub>  
 2000 OJ<sub>19</sub> = 1977 LA<sub>1</sub> = 1985 SN<sub>3</sub> = 1989 UL<sub>4</sub>  
 2000 OW<sub>20</sub> = 1985 SM = 1998 BN<sub>32</sub>  
 2000 OC<sub>21</sub> = 1977 UL<sub>4</sub> = 1981 UN<sub>7</sub> = 1999 GG<sub>27</sub>  
 2000 OE<sub>21</sub> = 2000 RN<sub>65</sub> = 1989 UY<sub>4</sub>  
 2000 OO<sub>22</sub> = 1998 DQ<sub>26</sub>  
 2000 OH<sub>24</sub> = 1992 SW<sub>25</sub>  
 2000 OO<sub>24</sub> = 1981 RH<sub>6</sub>  
 2000 OY<sub>25</sub> = 1993 TJ<sub>23</sub>  
 2000 OE<sub>26</sub> = 1997 WR<sub>22</sub> = 1999 JS<sub>92</sub>  
 2000 OP<sub>26</sub> = 1999 EX<sub>11</sub>  
 2000 OZ<sub>27</sub> = 1977 DF<sub>6</sub> = 1999 GD<sub>43</sub>  
 2000 OJ<sub>28</sub> = 1997 WJ<sub>34</sub> = 1998 BQ<sub>34</sub>  
 2000 OQ<sub>30</sub> = 1996 FD<sub>23</sub>  
 2000 OE<sub>32</sub> = 1992 RU<sub>2</sub> = 1999 HT<sub>6</sub>  
 2000 OM<sub>32</sub> = 1986 RC<sub>4</sub> = 1998 FP<sub>29</sub>  
 2000 OD<sub>35</sub> = 1999 JB<sub>130</sub>  
 2000 OD<sub>36</sub> = 1985 QB<sub>6</sub> = 1989 RT<sub>5</sub>  
 2000 OA<sub>38</sub> = 1989 TV<sub>14</sub>  
 2000 OF<sub>38</sub> = 1999 JV<sub>131</sub>  
 2000 OQ<sub>38</sub> = 1999 FQ<sub>41</sub>  
 2000 OR<sub>38</sub> = 1998 FK<sub>110</sub>  
 2000 OX<sub>38</sub> = 1999 KH<sub>11</sub>  
 2000 OU<sub>41</sub> = 1999 KD<sub>7</sub>  
 2000 OG<sub>44</sub> = 1977 SD  
 2000 OH<sub>45</sub> = 1992 YW<sub>2</sub>  
 2000 OM<sub>45</sub> = 1998 FL<sub>96</sub> = 1999 JM<sub>121</sub>  
 2000 OE<sub>47</sub> = 2000 QC<sub>207</sub>  
 2000 OB<sub>48</sub> = 1969 UL<sub>1</sub> = 1999 HE<sub>10</sub>  
 2000 OG<sub>48</sub> = 1980 FM<sub>9</sub> = 1989 SQ<sub>10</sub> = 1999 LK<sub>28</sub>  
 2000 OG<sub>49</sub> = 1996 HW<sub>10</sub> = 1997 WX<sub>43</sub>  
 2000 OW<sub>49</sub> = 1982 VN<sub>6</sub> = 1999 JR<sub>28</sub>

2000 OB<sub>50</sub> = 1997 WE<sub>54</sub> = 1999 GR<sub>58</sub>  
 2000 OL<sub>50</sub> = 1991 JU<sub>2</sub>  
 2000 OF<sub>51</sub> = 1999 JU<sub>106</sub>  
 2000 OH<sub>51</sub> = 1996 OS<sub>1</sub>  
 2000 OK<sub>51</sub> = 1994 LW<sub>5</sub>  
 2000 OR<sub>51</sub> = 1972 VV<sub>1</sub> = 1991 AW<sub>1</sub>  
 2000 OS<sub>51</sub> = 1984 YJ<sub>2</sub> = 1987 SV<sub>23</sub> = 1990 DO<sub>9</sub> = 1991 OU  
 2000 OT<sub>51</sub> = 1998 DJ<sub>4</sub> = 2000 NQ<sub>5</sub>  
 2000 OJ<sub>52</sub> = 1975 RY<sub>1</sub>  
 2000 OQ<sub>52</sub> = 1978 WE<sub>4</sub> = 1999 FA<sub>1</sub>  
 2000 OU<sub>52</sub> = 1977 SL<sub>2</sub> = 1999 JS<sub>56</sub>  
 2000 OW<sub>52</sub> = 1998 KA<sub>39</sub>  
 2000 OX<sub>52</sub> = 1999 GU<sub>42</sub>  
 2000 OY<sub>52</sub> = 1998 HS<sub>41</sub>  
 2000 OL<sub>53</sub> = 1999 JL<sub>131</sub>  
 2000 OC<sub>57</sub> = 1997 WV<sub>51</sub> = 1999 GW<sub>55</sub>  
 2000 ON<sub>58</sub> = 1996 GC<sub>19</sub>  
 2000 OS<sub>58</sub> = 1995 SX<sub>36</sub>  
 2000 PJ<sub>1</sub> = 1982 XA<sub>1</sub> = 1999 GN<sub>39</sub>  
 2000 PL<sub>2</sub> = 1998 KN<sub>12</sub>  
 2000 PC<sub>6</sub> = 1999 LD<sub>8</sub>  
 2000 PS<sub>6</sub> = 1999 EW<sub>14</sub>  
 2000 PR<sub>7</sub> = 1999 KC<sub>7</sub>  
 2000 PB<sub>9</sub> = 1996 TP<sub>5</sub>  
 2000 PF<sub>9</sub> = 1990 WE<sub>7</sub>  
 2000 PL<sub>9</sub> = 1999 GD<sub>37</sub>  
 2000 PP<sub>11</sub> = 1998 GT<sub>3</sub>  
 2000 PU<sub>12</sub> = 1990 EE<sub>5</sub> = 1992 WA<sub>8</sub>  
 2000 PV<sub>12</sub> = 1993 BS<sub>7</sub>  
 2000 PS<sub>13</sub> = 1998 DH<sub>32</sub> = 1999 GD<sub>48</sub>  
 2000 PV<sub>14</sub> = 1990 TA<sub>7</sub> = 1999 FA<sub>42</sub>  
 2000 PR<sub>15</sub> = 1998 DL<sub>24</sub>  
 2000 PK<sub>16</sub> = 1976 YO<sub>7</sub> = 1977 AX = 1991 VA<sub>15</sub> = 1993 FC<sub>57</sub> = 1996 VM<sub>31</sub>  
 2000 PO<sub>16</sub> = 1999 JW<sub>109</sub>  
 2000 PC<sub>20</sub> = 1982 UB<sub>9</sub> = 1982 VT<sub>9</sub> = 1991 RT<sub>8</sub>  
 2000 PS<sub>20</sub> = 1998 BU<sub>27</sub>  
 2000 PV<sub>20</sub> = 1992 WB<sub>7</sub>  
 2000 PP<sub>22</sub> = 1045 T-1 = 1979 QW<sub>9</sub> = 1986 RS<sub>6</sub> = 1986 RX<sub>14</sub>  
 2000 PS<sub>22</sub> = 1999 CE<sub>49</sub>  
 2000 PC<sub>23</sub> = 1996 FX<sub>17</sub>  
 2000 PN<sub>24</sub> = 1996 XQ<sub>34</sub>  
 2000 PY<sub>25</sub> = 1995 UV<sub>1</sub>  
 2000 PO<sub>26</sub> = 1990 QE<sub>3</sub> = 1990 RH = 1999 GC<sub>26</sub>  
 2000 PQ<sub>26</sub> = 1995 SF<sub>45</sub> = 1998 FK<sub>100</sub>  
 2000 PU<sub>26</sub> = 1999 NB<sub>48</sub>  
 2000 PW<sub>26</sub> = 1998 FM<sub>114</sub>  
 2000 PR<sub>28</sub> = 1999 GY<sub>45</sub>  
 2000 PT<sub>28</sub> = 1997 WO<sub>57</sub>  
 2000 QZ = 1978 WB<sub>3</sub>  
 2000 QF<sub>1</sub> = 1999 CB<sub>6</sub>  
 2000 QV<sub>2</sub> = 1998 FM<sub>112</sub>  
 2000 QK<sub>3</sub> = 1993 FK<sub>43</sub> = 1999 BJ<sub>5</sub>

2000 QQ<sub>3</sub> = 1996 RH<sub>17</sub>  
 2000 QT<sub>3</sub> = 1997 WE<sub>56</sub>  
 2000 QR<sub>4</sub> = 2302 T-1 = 1998 FO<sub>123</sub>  
 2000 QZ<sub>4</sub> = 1996 ND<sub>4</sub>  
 2000 QK<sub>5</sub> = 1999 GH<sub>11</sub>  
 2000 QU<sub>5</sub> = 1998 FJ<sub>29</sub>  
 2000 QW<sub>5</sub> = 1998 DV<sub>37</sub>  
 2000 QH<sub>6</sub> = 1990 TJ<sub>5</sub>  
 2000 QR<sub>6</sub> = 1977 RL<sub>11</sub>  
 2000 QQ<sub>7</sub> = 1979 SM<sub>6</sub> = 1986 RK<sub>10</sub> = 1991 BP<sub>1</sub> = 1993 TG<sub>13</sub>  
 2000 QR<sub>7</sub> = 1991 PE<sub>12</sub> = 1991 RC<sub>33</sub>  
 2000 QB<sub>8</sub> = 1995 BN<sub>12</sub>  
 2000 QK<sub>9</sub> = 1995 BD<sub>16</sub>  
 2000 QQ<sub>10</sub> = 1991 PC<sub>5</sub>  
 2000 QY<sub>10</sub> = 1993 FM<sub>58</sub> = 1999 JZ<sub>124</sub>  
 2000 QM<sub>11</sub> = 1998 DW<sub>22</sub>  
 2000 QX<sub>11</sub> = 1999 CH<sub>148</sub>  
 2000 QZ<sub>11</sub> = 1999 KF<sub>8</sub>  
 2000 QD<sub>12</sub> = 1996 VA<sub>2</sub> = 1998 FZ<sub>25</sub>  
 2000 QN<sub>14</sub> = 1998 DL<sub>7</sub>  
 2000 QP<sub>14</sub> = 1998 AO<sub>1</sub>  
 2000 QT<sub>15</sub> = 1994 CA<sub>12</sub>  
 2000 QH<sub>16</sub> = 1989 VJ<sub>4</sub> = 1989 XQ<sub>1</sub>  
 2000 QJ<sub>16</sub> = 1999 JS<sub>135</sub>  
 2000 QY<sub>17</sub> = 1999 JR<sub>112</sub>  
 2000 QR<sub>18</sub> = 1993 QC<sub>9</sub>  
 2000 QU<sub>18</sub> = 1995 BT<sub>13</sub>  
 2000 QY<sub>18</sub> = 1997 WA<sub>10</sub>  
 2000 QB<sub>19</sub> = 1992 SA<sub>19</sub>  
 2000 QC<sub>19</sub> = 1999 JP<sub>101</sub>  
 2000 QZ<sub>19</sub> = 1978 WZ<sub>10</sub> = 1989 SQ<sub>6</sub>  
 2000 QL<sub>20</sub> = 2215 T-1 = 1998 HX<sub>141</sub>  
 2000 QB<sub>22</sub> = 1993 RQ<sub>20</sub>  
 2000 QK<sub>22</sub> = 1999 CM<sub>145</sub>  
 2000 QW<sub>23</sub> = 1998 DF<sub>22</sub>  
 2000 QB<sub>24</sub> = 1999 LS<sub>6</sub>  
 2000 QJ<sub>24</sub> = 1999 LE<sub>13</sub>  
 2000 QA<sub>25</sub> = 1999 JW<sub>135</sub>  
 2000 QH<sub>25</sub> = 1999 CZ<sub>14</sub>  
 2000 QU<sub>25</sub> = 1984 RC  
 2000 QG<sub>26</sub> = 1977 RA<sub>11</sub>  
 2000 QK<sub>26</sub> = 1991 RY<sub>32</sub> = 1999 LJ<sub>20</sub>  
 2000 QB<sub>27</sub> = 1999 JY<sub>42</sub>  
 2000 QC<sub>27</sub> = 1999 FE<sub>23</sub>  
 2000 QW<sub>27</sub> = 1988 DM<sub>2</sub> = 1998 FU<sub>134</sub>  
 2000 QD<sub>28</sub> = 1998 FQ<sub>136</sub>  
 2000 QH<sub>28</sub> = 1997 SM<sub>28</sub>  
 2000 QU<sub>28</sub> = 1995 VB<sub>18</sub>  
 2000 QY<sub>28</sub> = 1999 KA<sub>10</sub>  
 2000 QC<sub>29</sub> = 1995 YA<sub>17</sub>  
 2000 QH<sub>29</sub> = 1996 TW<sub>23</sub>  
 2000 QM<sub>30</sub> = 1992 EB<sub>22</sub>

2000 QQ<sub>30</sub> = 1997 WH<sub>55</sub> = 1999 GK<sub>51</sub>  
 2000 QW<sub>30</sub> = 1989 TU<sub>14</sub>  
 2000 QB<sub>32</sub> = 1998 BD<sub>22</sub> = 1999 JD<sub>93</sub>  
 2000 QL<sub>32</sub> = 1979 WV<sub>6</sub> = 1998 FL<sub>145</sub> = 1999 LN<sub>20</sub>  
 2000 QZ<sub>32</sub> = 1999 GU<sub>38</sub>  
 2000 QN<sub>33</sub> = 1998 HK<sub>134</sub>  
 2000 QP<sub>33</sub> = 1998 GN<sub>5</sub> = 1999 NX<sub>12</sub>  
 2000 QZ<sub>34</sub> = 1999 JS<sub>122</sub>  
 2000 QR<sub>35</sub> = 1998 BC<sub>7</sub>  
 2000 QS<sub>35</sub> = 1989 US<sub>7</sub>  
 2000 QZ<sub>35</sub> = 1996 UN<sub>4</sub>  
 2000 QW<sub>36</sub> = 1975 TS<sub>4</sub> = 1975 VC<sub>7</sub> = 1993 TB<sub>43</sub>  
 2000 QY<sub>36</sub> = 1998 FS<sub>142</sub>  
 2000 QA<sub>38</sub> = 1991 KU<sub>1</sub> = 1996 RG<sub>13</sub> = 1999 GD<sub>14</sub>  
 2000 QM<sub>38</sub> = 1994 SQ<sub>4</sub>  
 2000 QY<sub>38</sub> = 1978 RQ<sub>6</sub> = 1998 EA<sub>4</sub>  
 2000 QE<sub>39</sub> = 1999 KN<sub>8</sub>  
 2000 QQ<sub>40</sub> = 1997 AG<sub>20</sub> = 1998 HJ<sub>92</sub>  
 2000 QD<sub>41</sub> = 1999 JK<sub>95</sub>  
 2000 QM<sub>41</sub> = 1999 JS<sub>110</sub>  
 2000 QY<sub>41</sub> = 1993 FM<sub>55</sub>  
 2000 QS<sub>44</sub> = 1997 CZ<sub>22</sub>  
 2000 QU<sub>44</sub> = 1978 UT<sub>5</sub> = 1991 PW<sub>5</sub> = 1991 RB<sub>42</sub>  
 2000 QD<sub>45</sub> = 1998 HS<sub>38</sub>  
 2000 QP<sub>45</sub> = 1999 FK<sub>40</sub>  
 2000 QW<sub>45</sub> = 1993 TY<sub>47</sub>  
 2000 QT<sub>47</sub> = 1993 FR<sub>19</sub>  
 2000 QM<sub>48</sub> = 1998 FB<sub>23</sub>  
 2000 QZ<sub>48</sub> = 1978 RY<sub>9</sub> = 1998 FY<sub>16</sub> = 1999 NQ<sub>12</sub>  
 2000 QA<sub>49</sub> = 1999 LD  
 2000 QD<sub>49</sub> = 1999 CZ<sub>47</sub>  
 2000 QL<sub>49</sub> = 1999 GN<sub>53</sub>  
 2000 QO<sub>49</sub> = 1999 LH<sub>9</sub>  
 2000 QV<sub>49</sub> = 1989 ST<sub>6</sub> = 1997 LK<sub>13</sub>  
 2000 QS<sub>50</sub> = 1998 DX<sub>26</sub>  
 2000 QX<sub>50</sub> = 1990 WW<sub>5</sub> = 1998 HQ<sub>110</sub>  
 2000 QA<sub>54</sub> = 1999 JC<sub>137</sub>  
 2000 QD<sub>54</sub> = 1999 JV<sub>136</sub>  
 2000 QK<sub>54</sub> = 1993 RM<sub>9</sub>  
 2000 QP<sub>54</sub> = 1999 FW<sub>37</sub>  
 2000 QV<sub>54</sub> = 1999 GC<sub>23</sub>  
 2000 QR<sub>55</sub> = 1998 FL<sub>16</sub>  
 2000 QU<sub>55</sub> = 1992 HY<sub>2</sub>  
 2000 QE<sub>56</sub> = 1999 CV<sub>150</sub>  
 2000 QQ<sub>57</sub> = 1978 RC<sub>8</sub>  
 2000 QT<sub>60</sub> = 1999 KD<sub>18</sub>  
 2000 QG<sub>61</sub> = 1994 NE<sub>11</sub> = 1998 FE<sub>45</sub> = 1999 LO<sub>23</sub>  
 2000 QL<sub>61</sub> = 1977 RW<sub>13</sub>  
 2000 QS<sub>62</sub> = 1989 VV<sub>2</sub> = 1994 RS<sub>28</sub>  
 2000 QC<sub>63</sub> = 1986 TU<sub>1</sub>  
 2000 QU<sub>63</sub> = 1997 WY<sub>36</sub>  
 2000 QJ<sub>64</sub> = 1989 TO<sub>7</sub>

2000 QS<sub>64</sub> = 1998 FH<sub>87</sub>  
 2000 QL<sub>65</sub> = 1997 XJ<sub>12</sub>  
 2000 QX<sub>66</sub> = 1982 VO<sub>8</sub> = 1998 BJ<sub>41</sub>  
 2000 QM<sub>67</sub> = 1999 LR<sub>35</sub>  
 2000 QV<sub>67</sub> = 1991 CK<sub>5</sub> = 1998 KP<sub>60</sub>  
 2000 QE<sub>68</sub> = 1998 HN<sub>109</sub> = 1999 NV<sub>45</sub>  
 2000 QJ<sub>68</sub> = 1990 GW  
 2000 QS<sub>68</sub> = 1996 HP<sub>22</sub> = 1999 GY<sub>24</sub>  
 2000 QF<sub>69</sub> = 1995 QZ<sub>7</sub>  
 2000 QV<sub>69</sub> = 1998 HJ<sub>45</sub>  
 2000 QK<sub>70</sub> = 1993 QM<sub>5</sub>  
 2000 QL<sub>70</sub> = 1999 CH<sub>15</sub>  
 2000 QE<sub>72</sub> = 1999 GG<sub>28</sub>  
 2000 QG<sub>72</sub> = 1996 KX<sub>4</sub>  
 2000 QG<sub>73</sub> = 1977 RH<sub>13</sub> = 1996 JE<sub>8</sub>  
 2000 QM<sub>73</sub> = 1998 DK<sub>33</sub> = 1999 JD<sub>135</sub>  
 2000 QX<sub>73</sub> = 1993 SR<sub>9</sub>  
 2000 QJ<sub>75</sub> = 1993 YQ<sub>1</sub>  
 2000 QM<sub>75</sub> = 1979 WH<sub>1</sub> = 1992 EO<sub>27</sub> = 1995 UZ<sub>42</sub>  
 2000 QS<sub>75</sub> = 1999 LT<sub>35</sub>  
 2000 QD<sub>76</sub> = 1998 FV<sub>140</sub>  
 2000 QS<sub>76</sub> = 1990 SF<sub>20</sub> = 1990 SU<sub>20</sub>  
 2000 QV<sub>76</sub> = 1980 FW<sub>1</sub>  
 2000 QM<sub>77</sub> = 1993 FR<sub>49</sub> = 1993 HM<sub>5</sub> = 1999 LM<sub>22</sub>  
 2000 QD<sub>78</sub> = 1998 FN<sub>148</sub>  
 2000 QU<sub>78</sub> = 1998 EM<sub>6</sub>  
 2000 QT<sub>79</sub> = 1991 NV<sub>4</sub> = 1998 AR<sub>5</sub> = 1998 EV<sub>17</sub>  
 2000 QV<sub>79</sub> = 1978 WE<sub>21</sub>  
 2000 QG<sub>80</sub> = 1989 TL<sub>17</sub>  
 2000 QU<sub>80</sub> = 1618 T-2  
 2000 QA<sub>83</sub> = 1996 TR<sub>49</sub> = 1998 FF<sub>37</sub>  
 2000 QB<sub>84</sub> = 1996 TC<sub>24</sub>  
 2000 QX<sub>85</sub> = 1992 EE<sub>16</sub> = 1999 FC<sub>52</sub>  
 2000 QF<sub>87</sub> = 1996 NW<sub>1</sub>  
 2000 QL<sub>87</sub> = 1991 BE<sub>3</sub>  
 2000 QM<sub>87</sub> = 1999 JN<sub>123</sub>  
 2000 QX<sub>87</sub> = 1998 FJ<sub>102</sub>  
 2000 QN<sub>88</sub> = 1999 JK<sub>101</sub>  
 2000 QW<sub>89</sub> = 1991 RL<sub>21</sub>  
 2000 QD<sub>90</sub> = 1996 TK<sub>5</sub>  
 2000 QE<sub>90</sub> = 1997 WV<sub>56</sub> = 1999 JC<sub>136</sub>  
 2000 QC<sub>91</sub> = 1999 LT<sub>14</sub>  
 2000 QS<sub>91</sub> = 1993 SN<sub>12</sub>  
 2000 QB<sub>92</sub> = 1998 FE<sub>139</sub>  
 2000 QD<sub>92</sub> = 1987 YQ<sub>4</sub> = 1998 FD<sub>97</sub>  
 2000 QM<sub>93</sub> = 1996 TB<sub>57</sub>  
 2000 QB<sub>95</sub> = 1997 SL<sub>12</sub>  
 2000 QD<sub>95</sub> = 1977 RM<sub>10</sub> = 1996 XE<sub>34</sub>  
 2000 QJ<sub>95</sub> = 1999 GS<sub>27</sub>  
 2000 QS<sub>95</sub> = 1999 JD<sub>34</sub>  
 2000 QX<sub>95</sub> = 1255 T-1 = 1998 FW<sub>128</sub>  
 2000 QB<sub>96</sub> = 1999 JQ<sub>135</sub>

2000 QF<sub>96</sub> = 1996 TP<sub>61</sub>  
 2000 QQ<sub>96</sub> = 1993 RA<sub>11</sub>  
 2000 QZ<sub>96</sub> = 1998 FP<sub>36</sub>  
 2000 QC<sub>97</sub> = 1998 GR<sub>11</sub>  
 2000 QH<sub>97</sub> = 1998 EN<sub>14</sub> = 1999 NF<sub>58</sub>  
 2000 QL<sub>97</sub> = 1998 GR<sub>12</sub>  
 2000 QJ<sub>98</sub> = 1998 DQ<sub>31</sub>  
 2000 QK<sub>98</sub> = 1977 DQ<sub>6</sub> = 1995 ST<sub>41</sub> = 1998 HR<sub>32</sub>  
 2000 QZ<sub>98</sub> = 1999 JE<sub>51</sub>  
 2000 QS<sub>99</sub> = 1978 NY<sub>6</sub>  
 2000 QD<sub>100</sub> = 1999 FM<sub>39</sub>  
 2000 QM<sub>100</sub> = 1999 JP<sub>43</sub>  
 2000 QO<sub>100</sub> = 1998 HD<sub>131</sub>  
 2000 QR<sub>100</sub> = 1977 DM<sub>10</sub> = 1998 HB<sub>141</sub>  
 2000 QY<sub>100</sub> = 1998 AT<sub>2</sub>  
 2000 QF<sub>101</sub> = 1980 TR<sub>2</sub> = 1998 FL<sub>94</sub>  
 2000 QK<sub>101</sub> = 1993 FE<sub>18</sub>  
 2000 QM<sub>101</sub> = 1999 JX<sub>115</sub>  
 2000 QO<sub>101</sub> = 1992 WB<sub>1</sub>  
 2000 QT<sub>101</sub> = 1998 FD<sub>31</sub>  
 2000 QF<sub>102</sub> = 1999 JC<sub>115</sub>  
 2000 QL<sub>102</sub> = 1991 TF<sub>13</sub> = 1998 HO<sub>103</sub>  
 2000 QO<sub>102</sub> = 1997 WO<sub>8</sub>  
 2000 QZ<sub>102</sub> = 1999 JE<sub>120</sub>  
 2000 QC<sub>103</sub> = 1998 HL<sub>104</sub>  
 2000 QH<sub>103</sub> = 1998 FM<sub>145</sub>  
 2000 QL<sub>103</sub> = 1994 HR<sub>1</sub> = 1999 LZ<sub>25</sub>  
 2000 QX<sub>103</sub> = 1989 TK<sub>6</sub>  
 2000 QW<sub>104</sub> = 1999 JA<sub>107</sub> = 1999 LH<sub>3</sub>  
 2000 QB<sub>105</sub> = 1999 JE<sub>130</sub>  
 2000 QC<sub>105</sub> = 1997 ED<sub>34</sub>  
 2000 QF<sub>105</sub> = 1979 UH<sub>1</sub> = 1985 YL<sub>2</sub>  
 2000 QK<sub>105</sub> = 1999 FL<sub>3</sub>  
 2000 QY<sub>108</sub> = 1999 KW<sub>17</sub>  
 2000 QA<sub>109</sub> = 1998 BM<sub>48</sub>  
 2000 QV<sub>109</sub> = 1999 JN<sub>131</sub>  
 2000 QT<sub>111</sub> = 1999 KO<sub>10</sub>  
 2000 QQ<sub>112</sub> = 1998 FR<sub>28</sub>  
 2000 QR<sub>112</sub> = 1998 BC<sub>11</sub>  
 2000 QE<sub>113</sub> = 1997 WW<sub>18</sub> = 1999 FT<sub>9</sub>  
 2000 QX<sub>113</sub> = 1993 TE<sub>6</sub>  
 2000 QD<sub>114</sub> = 1992 DQ<sub>5</sub>  
 2000 QR<sub>114</sub> = 1994 GR<sub>6</sub>  
 2000 QV<sub>114</sub> = 1991 RJ<sub>15</sub> = 1998 DS<sub>21</sub>  
 2000 QR<sub>115</sub> = 1995 UB<sub>23</sub>  
 2000 QS<sub>115</sub> = 2000 RN<sub>105</sub> = 1993 RO<sub>4</sub>  
 2000 QD<sub>116</sub> = 1998 FE<sub>21</sub>  
 2000 QH<sub>116</sub> = 1997 EB<sub>34</sub> = 1998 KZ<sub>21</sub>  
 2000 QP<sub>116</sub> = 1996 FH<sub>21</sub>  
 2000 QT<sub>116</sub> = 1998 HG<sub>82</sub>  
 2000 QX<sub>116</sub> = 1998 HW<sub>136</sub>  
 2000 QZ<sub>116</sub> = 1999 CQ<sub>79</sub>

2000 QT<sub>118</sub> = 1997 WK<sub>18</sub>  
 2000 QX<sub>118</sub> = 1992 CY<sub>4</sub> = 1998 FE<sub>100</sub>  
 2000 QN<sub>119</sub> = 1994 PA<sub>34</sub> = 1998 FC<sub>108</sub>  
 2000 QO<sub>119</sub> = 1998 FN<sub>96</sub>  
 2000 QV<sub>119</sub> = 1999 JP<sub>94</sub>  
 2000 QC<sub>120</sub> = 1993 RO<sub>5</sub>  
 2000 QE<sub>120</sub> = 1999 KN<sub>11</sub>  
 2000 QF<sub>120</sub> = 1999 HS<sub>4</sub>  
 2000 QG<sub>120</sub> = 1998 HG<sub>127</sub> = 1999 LK<sub>24</sub>  
 2000 QO<sub>120</sub> = 1999 JD<sub>24</sub>  
 2000 QP<sub>120</sub> = 1987 KV<sub>4</sub> = 1999 GU<sub>52</sub>  
 2000 QB<sub>121</sub> = 1987 QE<sub>5</sub> = 1998 FE<sub>137</sub>  
 2000 QM<sub>121</sub> = 1998 HY<sub>146</sub> = 1999 NB<sub>2</sub>  
 2000 QW<sub>121</sub> = 1992 US<sub>2</sub> = 1992 XV  
 2000 QC<sub>122</sub> = 1993 QQ<sub>2</sub>  
 2000 QE<sub>122</sub> = 1997 GK<sub>19</sub>  
 2000 QY<sub>122</sub> = 1990 UB<sub>10</sub> = 1998 FE<sub>96</sub> = 1999 NM<sub>51</sub>  
 2000 QF<sub>123</sub> = 1996 PT<sub>3</sub>  
 2000 QM<sub>123</sub> = 1999 LH<sub>31</sub>  
 2000 QN<sub>123</sub> = 1999 JG<sub>76</sub>  
 2000 QQ<sub>123</sub> = 1999 GX<sub>32</sub>  
 2000 QT<sub>123</sub> = 1988 VX  
 2000 QX<sub>123</sub> = 1999 GB<sub>28</sub>  
 2000 QC<sub>124</sub> = 1998 HC<sub>142</sub>  
 2000 QE<sub>124</sub> = 1998 EE<sub>2</sub>  
 2000 QF<sub>124</sub> = 1990 TY<sub>9</sub>  
 2000 QJ<sub>124</sub> = 1999 GH<sub>49</sub>  
 2000 QM<sub>124</sub> = 1999 RH<sub>55</sub>  
 2000 QN<sub>124</sub> = 1996 XY<sub>34</sub>  
 2000 QQ<sub>124</sub> = 1990 YA<sub>1</sub> = 1994 XM<sub>4</sub>  
 2000 QR<sub>124</sub> = 1978 UV<sub>5</sub> = 1999 JY<sub>24</sub>  
 2000 QS<sub>124</sub> = 1998 GW<sub>5</sub>  
 2000 QB<sub>125</sub> = 1992 EL<sub>4</sub>  
 2000 QF<sub>125</sub> = 1995 CR<sub>7</sub>  
 2000 QJ<sub>125</sub> = 1998 BD<sub>14</sub>  
 2000 QR<sub>125</sub> = 1993 FC<sub>25</sub> = 1998 FK<sub>127</sub>  
 2000 QU<sub>125</sub> = 1991 PB<sub>8</sub>  
 2000 QB<sub>126</sub> = 1998 EL<sub>19</sub>  
 2000 QC<sub>126</sub> = 1993 FB<sub>46</sub> = 1998 FU<sub>33</sub>  
 2000 QF<sub>126</sub> = 1997 WX<sub>48</sub>  
 2000 QG<sub>126</sub> = 1997 WF<sub>32</sub>  
 2000 QM<sub>126</sub> = 1998 BW<sub>40</sub>  
 2000 QP<sub>126</sub> = 1999 FB<sub>38</sub>  
 2000 QA<sub>127</sub> = 1999 RM<sub>252</sub>  
 2000 QJ<sub>127</sub> = 1999 KB<sub>17</sub>  
 2000 QE<sub>128</sub> = 1980 TH<sub>4</sub> = 1992 EA<sub>21</sub> = 1999 GN<sub>28</sub>  
 2000 QL<sub>128</sub> = 1981 WY<sub>1</sub> = 1987 SQ<sub>29</sub> = 1987 UG<sub>9</sub> = 1998 KP<sub>22</sub>  
 2000 QN<sub>128</sub> = 1999 GE<sub>61</sub>  
 2000 QG<sub>129</sub> = 3108 T-1 = 1994 TD<sub>12</sub>  
 2000 QO<sub>129</sub> = 1994 AG<sub>8</sub>  
 2000 QE<sub>130</sub> = 1979 VQ<sub>1</sub> = 1979 YW = 1996 YW<sub>1</sub> = 1998 FD<sub>83</sub>  
 2000 QO<sub>131</sub> = 1990 SH<sub>14</sub>

2000 QQ<sub>131</sub> = 1998 BE<sub>16</sub>  
 2000 QW<sub>131</sub> = 1952 HL<sub>3</sub> = 1979 WM<sub>2</sub> = 1983 UF = 1987 WK<sub>3</sub> = 1989 AG<sub>8</sub>  
 2000 QK<sub>132</sub> = 1992 BH<sub>1</sub>  
 2000 QM<sub>132</sub> = 1999 GH<sub>47</sub>  
 2000 QN<sub>132</sub> = 1997 EX<sub>32</sub>  
 2000 QR<sub>132</sub> = 1978 WW<sub>20</sub>  
 2000 QR<sub>133</sub> = 1999 JK<sub>74</sub>  
 2000 QD<sub>134</sub> = 1991 RD<sub>23</sub>  
 2000 QF<sub>135</sub> = 1998 FV<sub>29</sub>  
 2000 QB<sub>136</sub> = 1998 HS<sub>35</sub>  
 2000 QM<sub>137</sub> = 1993 FN<sub>29</sub>  
 2000 QR<sub>137</sub> = 1995 DS<sub>12</sub>  
 2000 QS<sub>137</sub> = 1993 HO<sub>6</sub> = 1998 FT<sub>20</sub>  
 2000 QX<sub>137</sub> = 1999 JG<sub>123</sub> = 1999 KY<sub>12</sub>  
 2000 QB<sub>138</sub> = 1996 LQ = 1999 GW<sub>23</sub>  
 2000 QH<sub>138</sub> = 1998 FN<sub>129</sub>  
 2000 QQ<sub>138</sub> = 1998 FE<sub>52</sub>  
 2000 QS<sub>138</sub> = 1998 DJ<sub>21</sub>  
 2000 QA<sub>139</sub> = 1999 GZ<sub>39</sub>  
 2000 QS<sub>139</sub> = 1998 AR<sub>10</sub>  
 2000 QT<sub>139</sub> = 1996 TL<sub>7</sub>  
 2000 QF<sub>140</sub> = 1999 KZ<sub>10</sub>  
 2000 QQ<sub>140</sub> = 1996 PR<sub>5</sub>  
 2000 QR<sub>140</sub> = 1989 VY<sub>5</sub> = 1997 XW<sub>11</sub>  
 2000 QU<sub>140</sub> = 1979 SW<sub>14</sub>  
 2000 QV<sub>140</sub> = 1990 KY<sub>3</sub> = 1994 WK<sub>10</sub> = 1999 FE<sub>39</sub>  
 2000 QA<sub>141</sub> = 1998 FV<sub>132</sub>  
 2000 QB<sub>141</sub> = 1984 DX<sub>1</sub> = 1995 SL<sub>54</sub> = 1996 VR<sub>9</sub> = 1999 NT<sub>46</sub>  
 2000 QN<sub>141</sub> = 1999 GX<sub>10</sub>  
 2000 QR<sub>141</sub> = 1998 HN<sub>62</sub>  
 2000 QY<sub>141</sub> = 1995 FY<sub>1</sub>  
 2000 QD<sub>142</sub> = 1994 RH<sub>22</sub>  
 2000 QJ<sub>142</sub> = 1996 RY<sub>19</sub> = 1998 FV<sub>131</sub>  
 2000 QP<sub>142</sub> = 1999 JO<sub>114</sub>  
 2000 QT<sub>142</sub> = 1998 FL<sub>81</sub>  
 2000 QU<sub>142</sub> = 1998 FC<sub>31</sub>  
 2000 QV<sub>142</sub> = 1999 GH<sub>16</sub>  
 2000 QW<sub>142</sub> = 1993 TR<sub>14</sub>  
 2000 QX<sub>142</sub> = 1999 LG<sub>26</sub>  
 2000 QY<sub>142</sub> = 1998 HL<sub>128</sub>  
 2000 QC<sub>143</sub> = 1989 SS<sub>5</sub>  
 2000 QK<sub>143</sub> = 1999 FC<sub>60</sub>  
 2000 QM<sub>143</sub> = 1998 FX<sub>37</sub>  
 2000 QQ<sub>143</sub> = 1990 RC<sub>14</sub>  
 2000 QS<sub>143</sub> = 1999 JK<sub>78</sub>  
 2000 QY<sub>143</sub> = 1995 CT<sub>8</sub> = 1999 FZ<sub>43</sub>  
 2000 QD<sub>144</sub> = 1993 FG<sub>82</sub>  
 2000 QT<sub>144</sub> = 1999 JD<sub>95</sub>  
 2000 QU<sub>144</sub> = 1999 JY<sub>126</sub> = 1999 KC<sub>1</sub>  
 2000 QY<sub>144</sub> = 1997 EK<sub>27</sub>  
 2000 QF<sub>145</sub> = 1992 BA<sub>6</sub> = 1997 UA<sub>14</sub>  
 2000 QK<sub>145</sub> = 1995 FF<sub>5</sub>

2000 QO<sub>145</sub> = 1997 WY<sub>27</sub>  
 2000 QZ<sub>145</sub> = 1999 KA<sub>3</sub>  
 2000 QF<sub>146</sub> = 1999 GR<sub>45</sub>  
 2000 QR<sub>146</sub> = 1999 GW<sub>38</sub>  
 2000 QB<sub>147</sub> = 1999 GB<sub>24</sub>  
 2000 QF<sub>147</sub> = 1991 RE<sub>26</sub> = 1998 FW<sub>93</sub>  
 2000 QG<sub>147</sub> = 1998 KP<sub>38</sub> = 1999 VW<sub>203</sub>  
 2000 QJ<sub>148</sub> = 1996 PP<sub>5</sub>  
 2000 QM<sub>148</sub> = 1999 BF<sub>27</sub>  
 2000 QU<sub>148</sub> = 1981 JB<sub>5</sub> = 1999 GJ<sub>57</sub>  
 2000 QK<sub>149</sub> = 1998 FR<sub>132</sub>  
 2000 QM<sub>149</sub> = 1999 EE<sub>1</sub>  
 2000 QO<sub>149</sub> = 1997 YG<sub>21</sub>  
 2000 QT<sub>149</sub> = 1995 CU<sub>4</sub>  
 2000 QZ<sub>149</sub> = 1999 GE<sub>60</sub>  
 2000 QA<sub>150</sub> = 1996 VU<sub>25</sub> = 1999 JJ<sub>121</sub>  
 2000 QP<sub>150</sub> = 1984 YV<sub>3</sub> = 1992 WL<sub>8</sub>  
 2000 QE<sub>151</sub> = 1988 JH<sub>1</sub> = 1996 PT<sub>5</sub>  
 2000 QM<sub>151</sub> = 1994 RG<sub>14</sub> = 1998 HW<sub>132</sub>  
 2000 QP<sub>151</sub> = 1972 TM<sub>5</sub> = 1986 TV<sub>11</sub> = 1999 LX<sub>27</sub>  
 2000 QQ<sub>151</sub> = 1997 RZ<sub>1</sub>  
 2000 QW<sub>151</sub> = 1993 FP<sub>27</sub>  
 2000 QN<sub>152</sub> = 1988 RM<sub>12</sub> = 1999 KX<sub>18</sub>  
 2000 QV<sub>152</sub> = 1994 NX<sub>7</sub>  
 2000 QX<sub>152</sub> = 1977 RT<sub>11</sub> = 1992 EH<sub>13</sub>  
 2000 QY<sub>152</sub> = 1979 ON = 1999 FM<sub>23</sub>  
 2000 QA<sub>153</sub> = 1993 TC<sub>33</sub>  
 2000 QM<sub>153</sub> = 1997 RY<sub>3</sub>  
 2000 QV<sub>153</sub> = 1999 JS<sub>67</sub>  
 2000 QB<sub>154</sub> = 1999 JT<sub>96</sub>  
 2000 QF<sub>154</sub> = 1998 BV<sub>40</sub>  
 2000 QM<sub>154</sub> = 1978 WQ<sub>4</sub>  
 2000 QB<sub>155</sub> = 1999 GA<sub>46</sub>  
 2000 QN<sub>155</sub> = 1999 FU<sub>54</sub>  
 2000 QS<sub>155</sub> = 1996 VG<sub>41</sub> = 1998 FO<sub>142</sub>  
 2000 QG<sub>156</sub> = 1996 TB<sub>59</sub>  
 2000 QD<sub>157</sub> = 1999 JA<sub>108</sub>  
 2000 QL<sub>157</sub> = 1999 JU<sub>52</sub>  
 2000 QL<sub>159</sub> = 1993 FH<sub>64</sub>  
 2000 QJ<sub>160</sub> = 1996 KW<sub>7</sub>  
 2000 QN<sub>160</sub> = 1999 CX<sub>66</sub>  
 2000 QL<sub>161</sub> = 1995 VS<sub>3</sub>  
 2000 QL<sub>163</sub> = 1993 TN<sub>4</sub>  
 2000 QA<sub>165</sub> = 1998 FQ<sub>104</sub>  
 2000 QM<sub>165</sub> = 1998 FJ<sub>147</sub>  
 2000 QO<sub>165</sub> = 1996 VG<sub>13</sub>  
 2000 QS<sub>165</sub> = 1999 JN<sub>111</sub>  
 2000 QA<sub>166</sub> = 1979 OY<sub>4</sub>  
 2000 QE<sub>166</sub> = 1999 JE<sub>38</sub>  
 2000 QQ<sub>166</sub> = 1999 JA<sub>74</sub>  
 2000 QR<sub>166</sub> = 1990 TY<sub>5</sub>  
 2000 QT<sub>166</sub> = 1999 JE<sub>39</sub>

2000 QV<sub>166</sub> = 1995 TS<sub>7</sub>  
 2000 QF<sub>167</sub> = 1993 SP<sub>11</sub>  
 2000 QU<sub>167</sub> = 1996 HH<sub>17</sub>  
 2000 QN<sub>168</sub> = 1997 XZ<sub>5</sub>  
 2000 QU<sub>168</sub> = 1996 PW<sub>5</sub> = 1999 GV<sub>52</sub>  
 2000 QC<sub>170</sub> = 1996 TG<sub>47</sub>  
 2000 QE<sub>170</sub> = 1998 FQ<sub>108</sub>  
 2000 QP<sub>170</sub> = 1998 HS<sub>129</sub>  
 2000 QR<sub>170</sub> = 1998 HT<sub>29</sub>  
 2000 QU<sub>170</sub> = 1990 VW<sub>2</sub>  
 2000 QZ<sub>170</sub> = 1999 LF<sub>35</sub>  
 2000 QO<sub>171</sub> = 1998 AF<sub>5</sub>  
 2000 QB<sub>172</sub> = 1998 FO<sub>128</sub>  
 2000 QB<sub>173</sub> = 1998 DB<sub>30</sub> = 1999 JA<sub>111</sub>  
 2000 QL<sub>173</sub> = 1998 HH<sub>103</sub>  
 2000 QC<sub>174</sub> = 1996 TH<sub>55</sub>  
 2000 QV<sub>174</sub> = 1998 FD<sub>138</sub>  
 2000 QY<sub>175</sub> = 1993 TD<sub>15</sub>  
 2000 QH<sub>177</sub> = 1998 FZ<sub>43</sub>  
 2000 QN<sub>177</sub> = 1999 LB<sub>32</sub>  
 2000 QR<sub>177</sub> = 1980 FF<sub>6</sub> = 1999 JL<sub>64</sub>  
 2000 QS<sub>177</sub> = 1991 TM<sub>9</sub>  
 2000 QY<sub>177</sub> = 1999 RB<sub>131</sub>  
 2000 QB<sub>178</sub> = 1998 DM<sub>29</sub>  
 2000 QN<sub>178</sub> = 1993 TR<sub>35</sub>  
 2000 QN<sub>179</sub> = 1977 RD<sub>12</sub> = 1997 EL<sub>24</sub>  
 2000 QF<sub>180</sub> = 1999 CG<sub>15</sub>  
 2000 QO<sub>180</sub> = 1998 KU<sub>24</sub>  
 2000 QX<sub>182</sub> = 1998 FJ<sub>131</sub>  
 2000 QC<sub>183</sub> = 1998 BT<sub>43</sub>  
 2000 QP<sub>183</sub> = 1981 RE<sub>6</sub>  
 2000 QQ<sub>183</sub> = 1997 WW<sub>26</sub>  
 2000 QT<sub>183</sub> = 1999 FQ<sub>46</sub>  
 2000 QC<sub>184</sub> = 1998 AL<sub>6</sub>  
 2000 QP<sub>184</sub> = 1993 UH<sub>6</sub>  
 2000 QB<sub>185</sub> = 1999 FF<sub>15</sub>  
 2000 QO<sub>185</sub> = 1999 CT<sub>58</sub>  
 2000 QY<sub>185</sub> = 1998 HP<sub>106</sub>  
 2000 QE<sub>186</sub> = 1972 TQ<sub>9</sub> = 1999 HB<sub>1</sub>  
 2000 QL<sub>186</sub> = 1997 WW<sub>16</sub>  
 2000 QO<sub>186</sub> = 1996 TZ<sub>49</sub>  
 2000 QU<sub>186</sub> = 1999 KU<sub>6</sub>  
 2000 QG<sub>188</sub> = 1989 CL<sub>2</sub>  
 2000 QT<sub>189</sub> = 1999 GT<sub>33</sub>  
 2000 QX<sub>189</sub> = 1999 GZ<sub>43</sub>  
 2000 QB<sub>190</sub> = 1998 HA<sub>5</sub>  
 2000 QC<sub>190</sub> = 1992 SU<sub>2</sub>  
 2000 QD<sub>190</sub> = 1989 UZ<sub>5</sub> = 1998 FC<sub>134</sub>  
 2000 QE<sub>190</sub> = 1998 AS<sub>9</sub>  
 2000 QP<sub>190</sub> = 1997 CM<sub>7</sub>  
 2000 QQ<sub>190</sub> = 1998 DW<sub>32</sub>  
 2000 QR<sub>190</sub> = 1996 FY<sub>21</sub> = 1996 GW<sub>17</sub>

2000 QS<sub>190</sub> = 1997 WF<sub>34</sub> = 1999 CR<sub>58</sub>  
 2000 QH<sub>191</sub> = 1999 JH<sub>109</sub>  
 2000 QW<sub>191</sub> = 1999 GR<sub>46</sub>  
 2000 QY<sub>191</sub> = 1996 HK<sub>24</sub>  
 2000 QD<sub>192</sub> = 1999 LE<sub>34</sub>  
 2000 QL<sub>192</sub> = 1999 JM<sub>116</sub>  
 2000 QM<sub>192</sub> = 1999 JG<sub>113</sub>  
 2000 QC<sub>193</sub> = 1998 HX<sub>35</sub>  
 2000 QD<sub>193</sub> = 1995 SJ<sub>41</sub>  
 2000 QJ<sub>193</sub> = 1999 KE<sub>12</sub>  
 2000 QR<sub>193</sub> = 1997 EL<sub>37</sub> = 1998 HG<sub>16</sub>  
 2000 QU<sub>193</sub> = 1998 HP<sub>131</sub>  
 2000 QC<sub>194</sub> = 1998 AO<sub>3</sub>  
 2000 QH<sub>194</sub> = 1995 BJ<sub>10</sub>  
 2000 QF<sub>195</sub> = 2000 RD<sub>63</sub> = 1999 CW<sub>53</sub>  
 2000 QH<sub>195</sub> = 1999 JQ<sub>107</sub>  
 2000 QR<sub>195</sub> = 1982 RR<sub>1</sub> = 1991 RJ<sub>1</sub>  
 2000 QX<sub>195</sub> = 1981 RD<sub>6</sub> = 1998 AV<sub>1</sub>  
 2000 QY<sub>195</sub> = 1999 JZ<sub>40</sub>  
 2000 QA<sub>196</sub> = 1993 FV<sub>77</sub>  
 2000 QB<sub>196</sub> = 1999 GN<sub>30</sub>  
 2000 QD<sub>196</sub> = 1992 DY<sub>6</sub>  
 2000 QL<sub>196</sub> = 1999 GS<sub>52</sub>  
 2000 QS<sub>196</sub> = 1976 UK<sub>8</sub> = 1996 RV<sub>24</sub>  
 2000 QU<sub>196</sub> = 1993 RO<sub>18</sub>  
 2000 QW<sub>196</sub> = 1999 HL<sub>7</sub>  
 2000 QF<sub>198</sub> = 1997 LS<sub>8</sub>  
 2000 QR<sub>198</sub> = 1996 HB<sub>23</sub> = 1997 RC<sub>4</sub>  
 2000 QJ<sub>200</sub> = 1996 TC<sub>56</sub>  
 2000 QZ<sub>200</sub> = 1989 AF<sub>6</sub> = 1998 EG<sub>15</sub> = 1999 JD<sub>101</sub>  
 2000 QN<sub>201</sub> = 1999 JE<sub>25</sub>  
 2000 QU<sub>201</sub> = 1992 DH<sub>4</sub>  
 2000 QW<sub>201</sub> = 1999 FQ<sub>43</sub>  
 2000 QD<sub>202</sub> = 1999 GO<sub>30</sub>  
 2000 QF<sub>202</sub> = 1999 GD<sub>22</sub>  
 2000 QJ<sub>202</sub> = 1993 FC<sub>52</sub> = 1994 NZ<sub>11</sub> = 1999 JT<sub>112</sub>  
 2000 QN<sub>202</sub> = 1996 TJ<sub>51</sub>  
 2000 QS<sub>202</sub> = 1998 HY<sub>144</sub>  
 2000 QY<sub>202</sub> = 1999 JY<sub>104</sub>  
 2000 QA<sub>203</sub> = 1980 XO<sub>1</sub> = 1996 TE<sub>63</sub>  
 2000 QB<sub>204</sub> = 1994 LR<sub>3</sub>  
 2000 QO<sub>204</sub> = 1999 FD<sub>40</sub>  
 2000 QQ<sub>204</sub> = 1995 SZ<sub>18</sub>  
 2000 QR<sub>204</sub> = 1998 EE<sub>19</sub>  
 2000 QT<sub>204</sub> = 1998 FX<sub>33</sub>  
 2000 QB<sub>205</sub> = 1992 EC<sub>31</sub>  
 2000 QD<sub>205</sub> = 1996 RH<sub>24</sub> = 1998 EP<sub>18</sub>  
 2000 QG<sub>205</sub> = 1990 EO<sub>7</sub>  
 2000 QT<sub>205</sub> = 1998 AJ<sub>11</sub>  
 2000 QY<sub>205</sub> = 1995 UN<sub>33</sub>  
 2000 QF<sub>206</sub> = 1994 LH<sub>2</sub>  
 2000 QH<sub>206</sub> = 1993 RF<sub>10</sub>

2000 QO<sub>206</sub> = 1998 DT<sub>25</sub>  
 2000 QU<sub>206</sub> = 1999 JA<sub>120</sub>  
 2000 QW<sub>206</sub> = 1999 GJ<sub>53</sub>  
 2000 QF<sub>207</sub> = 1987 DV<sub>6</sub> = 1998 FS<sub>114</sub>  
 2000 QG<sub>207</sub> = 1998 FJ<sub>35</sub>  
 2000 QJ<sub>207</sub> = 1998 FK<sub>19</sub>  
 2000 QL<sub>207</sub> = 1998 EO<sub>21</sub>  
 2000 QN<sub>207</sub> = 1995 EU<sub>1</sub>  
 2000 QY<sub>207</sub> = 1998 DX<sub>19</sub>  
 2000 QJ<sub>208</sub> = 1998 BY<sub>44</sub>  
 2000 QL<sub>208</sub> = 1995 WG<sub>16</sub>  
 2000 QS<sub>208</sub> = 1999 JP<sub>123</sub>  
 2000 QT<sub>208</sub> = 1999 JE<sub>109</sub>  
 2000 QX<sub>208</sub> = 1999 JD<sub>109</sub>  
 2000 QB<sub>209</sub> = 1999 FQ<sub>34</sub>  
 2000 QL<sub>209</sub> = 1997 UF<sub>13</sub>  
 2000 QP<sub>209</sub> = 1998 FV<sub>137</sub>  
 2000 QT<sub>209</sub> = 1998 FT<sub>143</sub>  
 2000 QU<sub>209</sub> = 1998 FC<sub>40</sub>  
 2000 QZ<sub>209</sub> = 1979 OG<sub>1</sub>  
 2000 QD<sub>210</sub> = 1997 YD<sub>20</sub>  
 2000 QL<sub>210</sub> = 1993 PJ<sub>3</sub> = 1998 HP<sub>113</sub>  
 2000 QW<sub>210</sub> = 1998 BQ<sub>29</sub>  
 2000 QX<sub>210</sub> = 1994 LL<sub>3</sub>  
 2000 QG<sub>211</sub> = 1995 UC<sub>12</sub>  
 2000 QN<sub>211</sub> = 1998 FC<sub>133</sub>  
 2000 QA<sub>212</sub> = 1984 BV<sub>5</sub>  
 2000 QG<sub>212</sub> = 1993 FE<sub>4</sub> = 1998 FO<sub>36</sub>  
 2000 QO<sub>212</sub> = 1991 VV<sub>8</sub>  
 2000 QX<sub>212</sub> = 1999 AJ<sub>25</sub>  
 2000 QH<sub>213</sub> = 1998 FL<sub>147</sub>  
 2000 QW<sub>213</sub> = 1996 TX<sub>33</sub>  
 2000 QY<sub>213</sub> = 1978 WE<sub>13</sub> = 1997 LC<sub>17</sub>  
 2000 QA<sub>214</sub> = 1993 FL<sub>79</sub>  
 2000 QR<sub>214</sub> = 1998 FG<sub>67</sub>  
 2000 QT<sub>215</sub> = 1998 FR<sub>3</sub>  
 2000 QU<sub>215</sub> = 1997 AH<sub>3</sub>  
 2000 QX<sub>215</sub> = 1996 SA<sub>8</sub>  
 2000 QZ<sub>215</sub> = 1993 TN<sub>22</sub>  
 2000 QK<sub>217</sub> = 1987 UB<sub>10</sub> = 1987 VT<sub>1</sub> = 1991 RG<sub>26</sub> = 1998 FS<sub>93</sub>  
 2000 QH<sub>218</sub> = 1980 BZ<sub>1</sub> = 1997 GW<sub>25</sub>  
 2000 QO<sub>218</sub> = 1997 HJ<sub>13</sub>  
 2000 QT<sub>218</sub> = 1995 TS<sub>2</sub> = 1999 JE<sub>18</sub>  
 2000 QV<sub>218</sub> = 1995 GD<sub>6</sub>  
 2000 QN<sub>219</sub> = 1996 TH<sub>38</sub>  
 2000 QR<sub>219</sub> = 1977 EC<sub>6</sub> = 1999 FZ<sub>49</sub>  
 2000 QK<sub>220</sub> = 1993 FT<sub>55</sub> = 1998 EY<sub>21</sub>  
 2000 QX<sub>220</sub> = 1999 KV<sub>2</sub>  
 2000 QA<sub>223</sub> = 1997 WR<sub>54</sub>  
 2000 QP<sub>223</sub> = 1998 BQ<sub>43</sub>  
 2000 QM<sub>224</sub> = 1998 EP<sub>17</sub>  
 2000 QN<sub>224</sub> = 1996 XN<sub>18</sub> = 1998 FY<sub>33</sub>

2000 QO<sub>224</sub> = 1990 EH<sub>4</sub>  
 2000 QT<sub>224</sub> = 1999 JT<sub>58</sub>  
 2000 QW<sub>224</sub> = 1993 YY = 1999 JP<sub>121</sub>  
 2000 QK<sub>227</sub> = 1998 FP<sub>102</sub>  
 2000 QO<sub>227</sub> = 1998 FP<sub>127</sub>  
 2000 QS<sub>227</sub> = 1995 SS<sub>51</sub> = 1998 FZ<sub>137</sub>  
 2000 QU<sub>227</sub> = 1996 TN<sub>4</sub>  
 2000 QB<sub>228</sub> = 1993 FD<sub>45</sub>  
 2000 QJ<sub>228</sub> = 1999 GO<sub>52</sub>  
 2000 QK<sub>228</sub> = 1996 XH<sub>10</sub>  
 2000 QQ<sub>229</sub> = 1996 WO  
 2000 QY<sub>229</sub> = 1997 EA<sub>9</sub>  
 2000 QG<sub>230</sub> = 1999 JM<sub>109</sub>  
 2000 QT<sub>230</sub> = 1999 LX<sub>30</sub>  
 2000 QW<sub>230</sub> = 1995 HG<sub>4</sub>  
 2000 QE<sub>231</sub> = 1982 BL<sub>5</sub> = 1990 TH<sub>11</sub> = 1998 DF<sub>5</sub>  
 2000 QH<sub>232</sub> = 1979 OU<sub>3</sub> = 1986 CG<sub>1</sub> = 1990 DL<sub>5</sub> = 1996 TB<sub>14</sub>  
 2000 QJ<sub>242</sub> = 1998 DB<sub>21</sub>  
 2000 RY = 1997 XY<sub>4</sub> = 1999 JJ<sub>110</sub>  
 2000 RZ = 1997 TB<sub>24</sub>  
 2000 RA<sub>1</sub> = 1998 HB<sub>120</sub>  
 2000 RB<sub>1</sub> = 1996 RZ<sub>5</sub>  
 2000 RD<sub>1</sub> = 1995 DC<sub>13</sub>  
 2000 RE<sub>1</sub> = 1989 GY<sub>8</sub> = 1995 SR<sub>32</sub> = 1998 FY<sub>19</sub>  
 2000 RF<sub>1</sub> = 1999 FB<sub>24</sub>  
 2000 RK<sub>1</sub> = 1990 RR<sub>9</sub> = 1997 WE<sub>46</sub>  
 2000 RM<sub>1</sub> = 1982 SP<sub>10</sub> = 1997 XM<sub>8</sub>  
 2000 RO<sub>1</sub> = 1990 QZ<sub>6</sub>  
 2000 RQ<sub>1</sub> = 1989 SD<sub>11</sub>  
 2000 RT<sub>1</sub> = 1998 FC<sub>37</sub> = 1999 NK<sub>12</sub>  
 2000 RV<sub>1</sub> = 1996 PA<sub>8</sub>  
 2000 RZ<sub>1</sub> = 1994 GG<sub>11</sub>  
 2000 RA<sub>2</sub> = 1998 DG<sub>36</sub>  
 2000 RC<sub>2</sub> = 1982 JW<sub>2</sub> = 1986 HW = 1999 NN<sub>50</sub>  
 2000 RG<sub>2</sub> = 1999 HA<sub>7</sub>  
 2000 RL<sub>2</sub> = 1977 RY<sub>12</sub>  
 2000 RP<sub>2</sub> = 1992 TZ = 1998 FC<sub>17</sub>  
 2000 RU<sub>2</sub> = 1990 VQ<sub>10</sub> = 1998 FZ<sub>2</sub>  
 2000 RY<sub>2</sub> = 1990 US<sub>13</sub> = 1993 QX<sub>2</sub> = 1993 QY<sub>10</sub> = 1997 WM<sub>37</sub>  
 2000 RA<sub>3</sub> = 1998 HU<sub>121</sub>  
 2000 RB<sub>3</sub> = 1998 FB<sub>50</sub>  
 2000 RC<sub>3</sub> = 1998 BH<sub>47</sub>  
 2000 RN<sub>3</sub> = 1998 HU<sub>84</sub>  
 2000 RP<sub>3</sub> = 1998 FV<sub>120</sub>  
 2000 RT<sub>3</sub> = 1996 XO<sub>10</sub> = 1999 JB<sub>34</sub>  
 2000 RW<sub>3</sub> = 1998 FG<sub>50</sub>  
 2000 RZ<sub>3</sub> = 1999 NQ<sub>43</sub>  
 2000 RP<sub>4</sub> = 1999 JH<sub>44</sub>  
 2000 RU<sub>4</sub> = 1995 SU<sub>26</sub> = 1998 HB<sub>128</sub>  
 2000 RC<sub>5</sub> = 1993 RU<sub>6</sub>  
 2000 RE<sub>5</sub> = 1998 HQ<sub>20</sub>  
 2000 RG<sub>5</sub> = 1999 JU<sub>110</sub>

2000 RH<sub>5</sub> = 1978 UY<sub>6</sub> = 1981 JS<sub>4</sub> = 1999 GL<sub>23</sub>  
 2000 RJ<sub>5</sub> = 1993 RH<sub>18</sub>  
 2000 RM<sub>5</sub> = 1999 JK<sub>106</sub>  
 2000 RS<sub>5</sub> = 1978 WO<sub>20</sub>  
 2000 RW<sub>5</sub> = 1998 EA<sub>22</sub>  
 2000 RB<sub>6</sub> = 1998 FZ<sub>87</sub>  
 2000 RN<sub>6</sub> = 1999 FT<sub>14</sub>  
 2000 RU<sub>6</sub> = 1998 HZ<sub>86</sub>  
 2000 RF<sub>7</sub> = 1999 KK<sub>10</sub>  
 2000 RS<sub>7</sub> = 1982 SO<sub>10</sub> = 1993 FF<sub>48</sub> = 1993 HG<sub>9</sub>  
 2000 RV<sub>7</sub> = 1999 JO<sub>99</sub>  
 2000 RZ<sub>7</sub> = 1999 HC<sub>5</sub>  
 2000 RA<sub>8</sub> = 1975 LG<sub>1</sub> = 1994 RS<sub>11</sub>  
 2000 RJ<sub>8</sub> = 1999 CT<sub>155</sub>  
 2000 RZ<sub>8</sub> = 1998 HF<sub>58</sub>  
 2000 RG<sub>9</sub> = 1998 FR<sub>93</sub>  
 2000 RO<sub>9</sub> = 1999 TP<sub>86</sub>  
 2000 RP<sub>9</sub> = 1994 CP<sub>7</sub> = 1999 LF<sub>19</sub>  
 2000 RX<sub>9</sub> = 1998 FO<sub>146</sub>  
 2000 RM<sub>13</sub> = 1999 CU<sub>113</sub>  
 2000 RS<sub>13</sub> = 1981 EU<sub>44</sub>  
 2000 RZ<sub>13</sub> = 1998 HB<sub>108</sub>  
 2000 RF<sub>16</sub> = 1993 BW<sub>12</sub>  
 2000 RQ<sub>16</sub> = 1997 EA<sub>41</sub>  
 2000 RR<sub>16</sub> = 1996 VX<sub>37</sub> = 1999 LL<sub>21</sub>  
 2000 RT<sub>16</sub> = 1993 FM<sub>66</sub> = 1999 JX<sub>95</sub>  
 2000 RX<sub>16</sub> = 1986 TZ<sub>6</sub> = 1999 JT<sub>21</sub>  
 2000 RH<sub>17</sub> = 1999 LV<sub>26</sub>  
 2000 RN<sub>17</sub> = 1999 JQ<sub>105</sub>  
 2000 RS<sub>17</sub> = 1998 FA<sub>42</sub>  
 2000 RB<sub>18</sub> = 1995 UX<sub>21</sub>  
 2000 RG<sub>18</sub> = 1994 PM<sub>37</sub>  
 2000 RS<sub>18</sub> = 1999 DW<sub>8</sub>  
 2000 RH<sub>19</sub> = 1994 NO<sub>3</sub>  
 2000 RS<sub>19</sub> = 1995 TA<sub>2</sub>  
 2000 RV<sub>19</sub> = 1998 HV<sub>67</sub>  
 2000 RB<sub>20</sub> = 1978 WA<sub>8</sub>  
 2000 RD<sub>20</sub> = 1993 FK<sub>65</sub>  
 2000 RJ<sub>20</sub> = 1998 HE<sub>73</sub>  
 2000 RR<sub>20</sub> = 1999 GD<sub>53</sub> = 1999 JQ<sub>132</sub>  
 2000 RV<sub>20</sub> = 1999 JW<sub>17</sub>  
 2000 RX<sub>20</sub> = 1996 NF<sub>2</sub>  
 2000 RY<sub>20</sub> = 1999 KA<sub>12</sub>  
 2000 RZ<sub>20</sub> = 1999 JV<sub>132</sub>  
 2000 RB<sub>21</sub> = 1996 TX<sub>57</sub>  
 2000 RG<sub>21</sub> = 1991 PS<sub>9</sub>  
 2000 RO<sub>21</sub> = 1998 HK<sub>29</sub>  
 2000 RQ<sub>21</sub> = 1998 FW<sub>140</sub>  
 2000 RR<sub>21</sub> = 1992 DW<sub>10</sub> = 1999 DL<sub>3</sub>  
 2000 RF<sub>22</sub> = 1992 WG<sub>7</sub> = 1994 GS<sub>9</sub>  
 2000 RJ<sub>22</sub> = 1996 VC<sub>39</sub>  
 2000 RV<sub>22</sub> = 1992 EM<sub>9</sub> = 1998 HN<sub>13</sub>

2000 RC<sub>23</sub> = 1997 XD<sub>8</sub>  
 2000 RG<sub>23</sub> = 1996 PN<sub>9</sub>  
 2000 RO<sub>23</sub> = 1984 BT<sub>2</sub>  
 2000 RQ<sub>23</sub> = 1999 JX<sub>124</sub>  
 2000 RR<sub>23</sub> = 1996 HO<sub>24</sub>  
 2000 RT<sub>23</sub> = 1993 RF<sub>5</sub>  
 2000 RU<sub>23</sub> = 1990 UV<sub>2</sub>  
 2000 RA<sub>24</sub> = 1997 WG<sub>42</sub>  
 2000 RB<sub>24</sub> = 1991 ST<sub>4</sub> = 1998 FU<sub>74</sub> = 1999 NH<sub>59</sub>  
 2000 RY<sub>24</sub> = 1998 FR<sub>100</sub>  
 2000 RH<sub>25</sub> = 1999 JV<sub>128</sub>  
 2000 RU<sub>25</sub> = 1998 BT<sub>11</sub>  
 2000 RW<sub>25</sub> = 1998 FF<sub>113</sub>  
 2000 RX<sub>25</sub> = 1999 NO<sub>49</sub>  
 2000 RF<sub>26</sub> = 1997 AZ<sub>13</sub>  
 2000 RO<sub>26</sub> = 1981 EH<sub>36</sub>  
 2000 RV<sub>26</sub> = 1990 UW<sub>10</sub> = 1998 HS<sub>79</sub>  
 2000 RY<sub>26</sub> = 1994 NC<sub>10</sub> = 1996 XK<sub>23</sub>  
 2000 RD<sub>27</sub> = 1996 QS<sub>3</sub>  
 2000 RS<sub>27</sub> = 1999 FA<sub>8</sub>  
 2000 RX<sub>27</sub> = 1995 DV<sub>3</sub>  
 2000 RY<sub>27</sub> = 1998 FV<sub>134</sub>  
 2000 RA<sub>28</sub> = 1998 FO<sub>95</sub>  
 2000 RB<sub>28</sub> = 1999 JP<sub>112</sub>  
 2000 RD<sub>28</sub> = 1999 LC<sub>28</sub>  
 2000 RH<sub>28</sub> = 1999 SX<sub>16</sub>  
 2000 RK<sub>28</sub> = 1999 FT<sub>50</sub>  
 2000 RN<sub>28</sub> = 1995 MP<sub>2</sub> = 1996 XT<sub>6</sub>  
 2000 RO<sub>28</sub> = 1999 FF<sub>3</sub>  
 2000 RS<sub>28</sub> = 1998 FZ<sub>147</sub>  
 2000 RT<sub>28</sub> = 1998 HN<sub>45</sub>  
 2000 RL<sub>29</sub> = 1999 JU<sub>37</sub>  
 2000 RW<sub>29</sub> = 1999 GY<sub>59</sub>  
 2000 RX<sub>29</sub> = 1998 DU<sub>31</sub>  
 2000 RY<sub>29</sub> = 1998 KX<sub>25</sub> = 1999 NM<sub>61</sub>  
 2000 RZ<sub>29</sub> = 1999 LV<sub>2</sub>  
 2000 RB<sub>30</sub> = 1998 FY<sub>104</sub>  
 2000 RG<sub>30</sub> = 1999 JX<sub>127</sub>  
 2000 RH<sub>30</sub> = 1998 FX<sub>95</sub>  
 2000 RL<sub>30</sub> = 1997 ET<sub>42</sub>  
 2000 RO<sub>30</sub> = 1998 FF<sub>114</sub>  
 2000 RT<sub>30</sub> = 1999 JC<sub>23</sub>  
 2000 RX<sub>30</sub> = 1978 VG<sub>1</sub>  
 2000 RY<sub>30</sub> = 1999 GL<sub>60</sub>  
 2000 RZ<sub>30</sub> = 1996 XQ<sub>30</sub>  
 2000 RA<sub>31</sub> = 1980 RK<sub>5</sub>  
 2000 RD<sub>31</sub> = 1994 PJ<sub>31</sub>  
 2000 RK<sub>31</sub> = 1999 JA<sub>125</sub>  
 2000 RN<sub>31</sub> = 1993 TY<sub>9</sub>  
 2000 RP<sub>31</sub> = 1998 HV<sub>27</sub>  
 2000 RR<sub>31</sub> = 1998 DF<sub>29</sub> = 1999 JW<sub>29</sub>  
 2000 RS<sub>31</sub> = 1998 HV<sub>85</sub>

2000 RW<sub>31</sub> = 1998 FZ<sub>110</sub> = 1999 NK<sub>25</sub>  
 2000 RX<sub>31</sub> = 1998 FM<sub>107</sub>  
 2000 RK<sub>32</sub> = 1998 HE<sub>129</sub>  
 2000 RM<sub>32</sub> = 1998 FW<sub>146</sub>  
 2000 RY<sub>32</sub> = 1991 TO<sub>3</sub>  
 2000 RC<sub>33</sub> = 1998 FB<sub>136</sub>  
 2000 RF<sub>33</sub> = 1999 JT<sub>135</sub>  
 2000 RH<sub>33</sub> = 1998 FY<sub>17</sub>  
 2000 RL<sub>33</sub> = 1999 JV<sub>105</sub>  
 2000 RR<sub>33</sub> = 1986 PT<sub>2</sub>  
 2000 RS<sub>33</sub> = 1978 UJ<sub>6</sub>  
 2000 RV<sub>33</sub> = 1998 FA<sub>132</sub>  
 2000 RK<sub>34</sub> = 1994 PZ<sub>31</sub>  
 2000 RO<sub>34</sub> = 1999 JD<sub>134</sub>  
 2000 RR<sub>34</sub> = 1999 GZ<sub>50</sub>  
 2000 RS<sub>34</sub> = 1996 TU<sub>64</sub> = 1999 JH<sub>38</sub>  
 2000 RD<sub>35</sub> = 1969 TX<sub>7</sub> = 1993 SU<sub>12</sub> = 1999 KW<sub>11</sub>  
 2000 RK<sub>35</sub> = 1998 FW<sub>104</sub>  
 2000 RL<sub>35</sub> = 1996 OQ<sub>2</sub>  
 2000 RS<sub>35</sub> = 1997 WE<sub>18</sub>  
 2000 RU<sub>35</sub> = 1988 DV<sub>3</sub> = 1993 FU<sub>48</sub>  
 2000 RS<sub>36</sub> = 1999 FF<sub>16</sub>  
 2000 RG<sub>37</sub> = 1999 FK<sub>8</sub>  
 2000 RZ<sub>38</sub> = 1971 BU<sub>2</sub> = 1998 DP<sub>14</sub>  
 2000 RG<sub>39</sub> = 1999 FJ<sub>44</sub>  
 2000 RP<sub>39</sub> = 1995 FC<sub>4</sub>  
 2000 RD<sub>40</sub> = 1989 CK<sub>3</sub>  
 2000 RH<sub>40</sub> = 1999 JP<sub>114</sub>  
 2000 RK<sub>40</sub> = 1992 CQ<sub>6</sub> = 1992 CR<sub>8</sub> = 1998 FD<sub>112</sub>  
 2000 RQ<sub>40</sub> = 1996 WC<sub>1</sub> = 1999 GD<sub>60</sub>  
 2000 RS<sub>40</sub> = 1999 RU<sub>141</sub>  
 2000 RU<sub>40</sub> = 1979 QF<sub>3</sub>  
 2000 RA<sub>41</sub> = 1994 RU<sub>11</sub>  
 2000 RB<sub>41</sub> = 1998 FQ<sub>100</sub>  
 2000 RC<sub>41</sub> = 1993 YZ  
 2000 RE<sub>41</sub> = 1998 HT<sub>130</sub>  
 2000 RH<sub>41</sub> = 1998 KH<sub>19</sub> = 1999 NL<sub>59</sub>  
 2000 RQ<sub>41</sub> = 1997 XC<sub>5</sub>  
 2000 RV<sub>41</sub> = 1997 YV<sub>20</sub>  
 2000 RD<sub>42</sub> = 1999 JJ<sub>108</sub>  
 2000 RE<sub>42</sub> = 1985 CA = 1998 FG<sub>108</sub>  
 2000 RL<sub>42</sub> = 1996 RO<sub>26</sub>  
 2000 RO<sub>42</sub> = 1998 FO<sub>102</sub>  
 2000 RR<sub>42</sub> = 1994 PD<sub>25</sub>  
 2000 RX<sub>42</sub> = 1968 KJ = 1999 ND<sub>58</sub>  
 2000 RY<sub>42</sub> = 1998 FR<sub>125</sub>  
 2000 RB<sub>43</sub> = 1979 RL<sub>1</sub> = 1982 FT<sub>3</sub> = 1990 VZ<sub>11</sub> = 1994 NY<sub>1</sub> = 1998 FR<sub>111</sub>  
 2000 RC<sub>43</sub> = 1984 YB<sub>1</sub> = 1989 SM<sub>13</sub> = 1994 RS<sub>12</sub> = 1999 NZ<sub>33</sub>  
 2000 RL<sub>43</sub> = 1987 SG<sub>11</sub>  
 2000 RR<sub>43</sub> = 1998 FF<sub>111</sub>  
 2000 RU<sub>43</sub> = 1979 QV<sub>2</sub>  
 2000 RS<sub>44</sub> = 1998 EH<sub>5</sub> = 1999 LJ<sub>16</sub>  
 2000 RT<sub>44</sub> = 1991 GX<sub>10</sub>  
 2000 RC<sub>45</sub> = 1998 EG<sub>18</sub>  
 2000 RE<sub>45</sub> = 1997 XK<sub>2</sub>  
 2000 RO<sub>45</sub> = 1999 JZ<sub>135</sub>  
 2000 RX<sub>45</sub> = 1998 FG<sub>141</sub>  
 2000 RB<sub>46</sub> = 1989 VF<sub>5</sub> = 1998 BK<sub>47</sub>  
 2000 RL<sub>46</sub> = 1993 WN  
 2000 RS<sub>46</sub> = 1997 GA<sub>1</sub>  
 2000 RX<sub>46</sub> = 1996 XO  
 2000 RB<sub>47</sub> = 1998 FU<sub>141</sub>  
 2000 RD<sub>47</sub> = 1997 HF<sub>5</sub>  
 2000 RV<sub>47</sub> = 1998 FE<sub>111</sub>  
 2000 RW<sub>47</sub> = 1993 QM<sub>10</sub>  
 2000 RY<sub>47</sub> = 1987 SE<sub>24</sub> = 1998 HD<sub>127</sub>  
 2000 RA<sub>48</sub> = 1994 PH<sub>23</sub>  
 2000 RD<sub>48</sub> = 1998 HS<sub>126</sub>  
 2000 RH<sub>48</sub> = 1998 FZ<sub>34</sub>  
 2000 RN<sub>48</sub> = 1998 FK<sub>111</sub>  
 2000 RV<sub>49</sub> = 1964 ES = 1998 FG<sub>87</sub>  
 2000 RB<sub>50</sub> = 1975 XT<sub>2</sub> = 1980 BP<sub>2</sub> = 1991 EO  
 2000 RO<sub>50</sub> = A916 UC = 1989 TS<sub>17</sub> = 1998 DY<sub>15</sub> = 1999 KB<sub>10</sub>  
 2000 RZ<sub>50</sub> = 1998 HC<sub>80</sub>  
 2000 RA<sub>51</sub> = 1999 LC<sub>24</sub>  
 2000 RD<sub>51</sub> = 1997 WY<sub>38</sub>  
 2000 RH<sub>51</sub> = 1999 JD<sub>123</sub> = 1999 KW<sub>18</sub>  
 2000 RO<sub>51</sub> = 1992 HX<sub>3</sub> = 1999 NN<sub>52</sub>  
 2000 RY<sub>51</sub> = 1999 RL<sub>128</sub>  
 2000 RY<sub>52</sub> = 1998 GA<sub>11</sub>  
 2000 RF<sub>53</sub> = 1992 OR<sub>7</sub> = 1996 TU<sub>61</sub> = 1998 BA<sub>29</sub>  
 2000 RH<sub>53</sub> = 1999 NQ<sub>3</sub>  
 2000 RR<sub>53</sub> = 1978 YN<sub>1</sub> = 1988 RD<sub>9</sub> = 1999 NS<sub>51</sub>  
 2000 RG<sub>54</sub> = 1986 HD<sub>1</sub> = 1991 PK<sub>29</sub> = 1998 FB<sub>130</sub> = 1999 NG<sub>29</sub>  
 2000 RO<sub>54</sub> = 1999 NL<sub>24</sub>  
 2000 RP<sub>54</sub> = 1998 FA<sub>103</sub>  
 2000 RQ<sub>54</sub> = 1987 SX<sub>23</sub> = 1991 PY<sub>21</sub> = 1991 RM<sub>31</sub> = 1998 ET<sub>15</sub>  
 2000 RR<sub>54</sub> = 1998 FO<sub>100</sub>  
 2000 RS<sub>54</sub> = 1996 PJ<sub>8</sub>  
 2000 RU<sub>54</sub> = 1999 LM<sub>34</sub>  
 2000 RV<sub>54</sub> = 1998 FR<sub>112</sub> = 1999 NS<sub>30</sub>  
 2000 RZ<sub>54</sub> = 1979 EH = 1998 FL<sub>146</sub>  
 2000 RG<sub>55</sub> = 1998 FO<sub>112</sub>  
 2000 RH<sub>55</sub> = 1981 JM<sub>1</sub> = 1998 BP<sub>44</sub>  
 2000 RU<sub>55</sub> = 1999 GR<sub>53</sub>  
 2000 RW<sub>55</sub> = 1992 EW<sub>27</sub>  
 2000 RG<sub>56</sub> = 1998 DO<sub>16</sub> = 1999 LG<sub>20</sub>  
 2000 RH<sub>56</sub> = 1998 FD<sub>100</sub>  
 2000 RL<sub>56</sub> = 1999 NP<sub>63</sub>  
 2000 RN<sub>56</sub> = 1981 RT = 1992 OA<sub>5</sub>  
 2000 RA<sub>58</sub> = 1997 EE<sub>31</sub>  
 2000 RG<sub>58</sub> = 1998 FZ<sub>126</sub>  
 2000 RO<sub>59</sub> = 1993 OC<sub>1</sub>  
 2000 RY<sub>59</sub> = 1999 NF<sub>62</sub>

2000 RC<sub>60</sub> = 1998 HQ<sub>84</sub>  
 2000 RD<sub>60</sub> = 1991 EK<sub>5</sub> = 1998 DA<sub>38</sub>  
 2000 RF<sub>60</sub> = 1993 RX<sub>11</sub>  
 2000 RM<sub>60</sub> = 1990 HK<sub>5</sub> = 1998 HG<sub>13</sub> = 1999 LD<sub>18</sub>  
 2000 RN<sub>60</sub> = 1979 QA<sub>1</sub>  
 2000 RP<sub>60</sub> = 1995 QQ<sub>1</sub>  
 2000 RW<sub>60</sub> = 1993 RB<sub>3</sub>  
 2000 RD<sub>61</sub> = 1998 DZ<sub>14</sub> = 1999 NL<sub>12</sub>  
 2000 RL<sub>61</sub> = 1986 WK<sub>7</sub> = 1992 BN<sub>5</sub> = 1996 AX<sub>2</sub> = 1997 EF<sub>44</sub> = 1998 KH<sub>37</sub>  
     = 1999 RU<sub>53</sub>  
 2000 RU<sub>62</sub> = 1992 AH<sub>2</sub>  
 2000 RY<sub>62</sub> = 1999 FM<sub>20</sub>  
 2000 RB<sub>63</sub> = 1997 WR<sub>40</sub> = 1999 GS<sub>32</sub>  
 2000 RE<sub>63</sub> = 1999 GR<sub>37</sub>  
 2000 RA<sub>64</sub> = 1998 FR<sub>27</sub>  
 2000 RL<sub>64</sub> = 1999 KM<sub>14</sub>  
 2000 RS<sub>64</sub> = 1996 TB<sub>7</sub>  
 2000 RY<sub>64</sub> = 1976 UF<sub>8</sub>  
 2000 RC<sub>65</sub> = 1982 XZ<sub>3</sub>  
 2000 RD<sub>65</sub> = 1999 KL<sub>10</sub>  
 2000 RF<sub>65</sub> = 1999 CR<sub>15</sub>  
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 2000 RK<sub>65</sub> = 1999 NC<sub>45</sub>  
 2000 RM<sub>65</sub> = 1996 FW<sub>13</sub>  
 2000 RP<sub>65</sub> = 1998 HH<sub>30</sub>  
 2000 RQ<sub>65</sub> = 1999 FF<sub>39</sub>  
 2000 RR<sub>65</sub> = 1991 UB = 1998 HZ<sub>78</sub>  
 2000 RW<sub>65</sub> = 1999 GZ<sub>27</sub>  
 2000 RY<sub>65</sub> = 1998 HS<sub>111</sub>  
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 2000 RL<sub>68</sub> = 1981 SE<sub>8</sub> = 1994 LJ<sub>3</sub>  
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 2000 RP<sub>68</sub> = 1999 GK<sub>38</sub>  
 2000 RR<sub>68</sub> = 1997 YW<sub>20</sub>  
 2000 RT<sub>68</sub> = 1991 FO<sub>2</sub>  
 2000 RU<sub>68</sub> = 1992 HC<sub>7</sub>  
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 2000 RF<sub>69</sub> = 1999 JN<sub>41</sub>  
 2000 RL<sub>69</sub> = 1999 LP<sub>21</sub>  
 2000 RS<sub>69</sub> = 1998 HW<sub>46</sub>  
 2000 RT<sub>69</sub> = 1998 HQ<sub>89</sub>  
 2000 RX<sub>69</sub> = 1993 TR<sub>19</sub>  
 2000 RC<sub>70</sub> = 1998 FZ<sub>54</sub>  
 2000 RH<sub>70</sub> = 1993 TX<sub>27</sub>  
 2000 RJ<sub>70</sub> = 1991 LT

2000 RM<sub>70</sub> = 1996 XS<sub>11</sub>  
 2000 RN<sub>70</sub> = 1998 HN<sub>22</sub>  
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 2000 RQ<sub>70</sub> = 1989 VE<sub>1</sub>  
 2000 RV<sub>70</sub> = 1990 SW<sub>5</sub> = 1995 SW<sub>42</sub> = 1998 HA<sub>40</sub>  
 2000 RW<sub>70</sub> = 1999 GX<sub>40</sub>  
 2000 RB<sub>71</sub> = 1995 FQ<sub>18</sub>  
 2000 RG<sub>71</sub> = 1996 HN<sub>11</sub>  
 2000 RJ<sub>71</sub> = 1993 TQ<sub>20</sub>  
 2000 RK<sub>71</sub> = 1992 RK<sub>5</sub>  
 2000 RL<sub>71</sub> = 1998 FL<sub>33</sub>  
 2000 RN<sub>71</sub> = 1999 JR<sub>74</sub>  
 2000 RU<sub>71</sub> = 1999 KP<sub>9</sub>  
 2000 RX<sub>71</sub> = 1999 NZ<sub>44</sub>  
 2000 RY<sub>71</sub> = 1985 RF<sub>6</sub> = 1991 GN<sub>2</sub> = 1998 BG<sub>10</sub>  
 2000 RZ<sub>71</sub> = 1983 WF  
 2000 RF<sub>72</sub> = 1969 TP<sub>5</sub> = 1987 YY<sub>4</sub> = 1991 RN<sub>9</sub>  
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 2000 RR<sub>72</sub> = 1999 JZ<sub>47</sub>  
 2000 RT<sub>72</sub> = 1998 MS<sub>48</sub>  
 2000 RZ<sub>72</sub> = 1998 EH<sub>15</sub>  
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 2000 RE<sub>73</sub> = 1993 PM<sub>7</sub>  
 2000 RF<sub>73</sub> = 1998 DE<sub>6</sub>  
 2000 RG<sub>73</sub> = 1993 TE<sub>42</sub>  
 2000 RH<sub>73</sub> = 1998 FQ<sub>22</sub>  
 2000 RJ<sub>73</sub> = 1992 SP<sub>22</sub> = 1996 TZ<sub>62</sub>  
 2000 RK<sub>73</sub> = 1993 TG<sub>45</sub>  
 2000 RM<sub>73</sub> = 1999 LJ<sub>7</sub>  
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 2000 RS<sub>73</sub> = 1998 HS<sub>47</sub> = 1999 NA<sub>62</sub>  
 2000 RA<sub>74</sub> = 1998 FF<sub>94</sub>  
 2000 RC<sub>74</sub> = 1978 EM = 1990 WZ<sub>5</sub>  
 2000 RN<sub>74</sub> = 1996 VL<sub>10</sub>  
 2000 RT<sub>74</sub> = 1977 UD<sub>5</sub>  
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 2000 RM<sub>75</sub> = 1996 NJ<sub>2</sub>  
 2000 RO<sub>75</sub> = 1978 PV<sub>4</sub> = 1999 GN<sub>52</sub>  
 2000 RU<sub>75</sub> = 5479 T-2 = 1995 YP<sub>13</sub>  
 2000 RX<sub>75</sub> = 1996 PJ<sub>3</sub>  
 2000 RZ<sub>75</sub> = 1989 CF<sub>1</sub> = 1989 EQ<sub>2</sub> = 1991 RN<sub>19</sub> = 1998 FM<sub>118</sub> = 1999 RL<sub>49</sub>  
 2000 RJ<sub>76</sub> = 1998 BK<sub>17</sub>  
 2000 RN<sub>76</sub> = 1992 SS<sub>23</sub> = 1999 JY<sub>75</sub>  
 2000 RP<sub>76</sub> = 1998 BA<sub>33</sub>  
 2000 RW<sub>76</sub> = 1996 WV<sub>2</sub>  
 2000 RX<sub>76</sub> = 1991 GN<sub>12</sub> = 1999 JB<sub>1</sub>  
 2000 RE<sub>77</sub> = 1993 TO<sub>21</sub>  
 2000 RQ<sub>77</sub> = 1998 BA<sub>32</sub>  
 2000 RW<sub>77</sub> = 1993 FW<sub>17</sub> = 1998 HP<sub>91</sub>  
 2000 RX<sub>77</sub> = 1981 SP = 1999 NF<sub>44</sub>  
 2000 RK<sub>78</sub> = 1984 BU<sub>1</sub> = 1998 FM<sub>147</sub>  
 2000 RY<sub>78</sub> = 1998 FF<sub>98</sub> = 1999 NT<sub>44</sub>

2000 RD<sub>79</sub> = 1999 JH<sub>125</sub>  
 2000 RW<sub>79</sub> = 1990 RJ<sub>17</sub> = 1998 FP<sub>107</sub> = 1999 LY<sub>27</sub>  
 2000 RE<sub>82</sub> = 1996 VE<sub>24</sub>  
 2000 RT<sub>82</sub> = 1996 OH<sub>2</sub>  
 2000 RH<sub>83</sub> = 1996 PN<sub>2</sub>  
 2000 RP<sub>83</sub> = 1998 HQ<sub>88</sub>  
 2000 RQ<sub>83</sub> = 1999 RP<sub>65</sub>  
 2000 RC<sub>84</sub> = 1998 EJ  
 2000 RW<sub>84</sub> = 1999 GN<sub>22</sub>  
 2000 RJ<sub>85</sub> = 1997 CD<sub>25</sub>  
 2000 RK<sub>85</sub> = 1992 SR<sub>19</sub>  
 2000 RN<sub>85</sub> = 1999 FE<sub>16</sub>  
 2000 RS<sub>85</sub> = 1998 HO<sub>137</sub>  
 2000 RT<sub>85</sub> = 1992 EE<sub>24</sub>  
 2000 RY<sub>85</sub> = 1998 FW<sub>123</sub>  
 2000 RA<sub>86</sub> = 1998 HB<sub>69</sub>  
 2000 RB<sub>86</sub> = 1996 VK<sub>12</sub>  
 2000 RC<sub>86</sub> = 1994 BR<sub>1</sub>  
 2000 RG<sub>86</sub> = 1998 EL<sub>18</sub>  
 2000 RK<sub>86</sub> = 1998 FT<sub>40</sub>  
 2000 RT<sub>86</sub> = 1998 KR<sub>18</sub>  
 2000 RU<sub>86</sub> = 1990 EW<sub>3</sub> = 1991 PE<sub>32</sub>  
 2000 RA<sub>87</sub> = 1999 JN<sub>119</sub>  
 2000 RG<sub>87</sub> = 1993 SD<sub>10</sub>  
 2000 RH<sub>87</sub> = 1999 EV<sub>6</sub>  
 2000 RJ<sub>87</sub> = 1996 XZ<sub>15</sub>  
 2000 RK<sub>87</sub> = 1993 TR<sub>47</sub>  
 2000 RN<sub>87</sub> = 1995 UK<sub>22</sub>  
 2000 RO<sub>87</sub> = 1999 KG<sub>14</sub>  
 2000 RZ<sub>87</sub> = 1999 JP<sub>37</sub>  
 2000 RN<sub>88</sub> = 1997 AY<sub>13</sub>  
 2000 RZ<sub>88</sub> = 1997 EQ<sub>36</sub>  
 2000 RA<sub>89</sub> = 1998 DJ<sub>27</sub>  
 2000 RA<sub>90</sub> = 1996 GC  
 2000 RD<sub>90</sub> = 1997 YH<sub>9</sub>  
 2000 RH<sub>90</sub> = 2000 QU<sub>115</sub> = 1998 DG<sub>22</sub>  
 2000 RD<sub>91</sub> = 1994 RW<sub>16</sub>  
 2000 RF<sub>91</sub> = 1999 CP<sub>7</sub>  
 2000 RG<sub>91</sub> = 1995 BF<sub>5</sub>  
 2000 RK<sub>91</sub> = 1999 GC<sub>52</sub>  
 2000 RN<sub>91</sub> = 1992 LE<sub>2</sub> = 1993 SY<sub>11</sub> = 1997 WB<sub>44</sub>  
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 2000 RR<sub>91</sub> = 1998 FJ<sub>4</sub>  
 2000 RY<sub>91</sub> = 1999 HN<sub>9</sub>  
 2000 RB<sub>92</sub> = 1997 BY<sub>8</sub> = 1998 KW<sub>13</sub>  
 2000 RD<sub>92</sub> = 1999 GV<sub>57</sub>  
 2000 RF<sub>92</sub> = 1999 NQ<sub>31</sub>  
 2000 RG<sub>92</sub> = 1999 GJ<sub>34</sub>  
 2000 RL<sub>92</sub> = 1988 BU<sub>2</sub> = 1998 AA<sub>9</sub>  
 2000 RU<sub>92</sub> = 1995 QZ<sub>5</sub>  
 2000 RW<sub>92</sub> = 1997 CO<sub>21</sub>  
 2000 RZ<sub>92</sub> = 1996 RQ<sub>24</sub>

2000 RD<sub>93</sub> = 1996 XB<sub>34</sub>  
 2000 RH<sub>93</sub> = 1998 FT<sub>137</sub>  
 2000 RL<sub>93</sub> = 1998 FY<sub>21</sub>  
 2000 RO<sub>93</sub> = 1993 QK<sub>9</sub>  
 2000 RW<sub>93</sub> = 1996 VA<sub>36</sub>  
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 2000 RF<sub>94</sub> = 1998 FH<sub>140</sub>  
 2000 RG<sub>94</sub> = 1996 PS<sub>2</sub>  
 2000 RH<sub>94</sub> = 1993 TG<sub>42</sub>  
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 2000 RQ<sub>94</sub> = 1999 EF<sub>14</sub>  
 2000 RT<sub>94</sub> = 1998 FX<sub>20</sub>  
 2000 RX<sub>94</sub> = 1994 NF<sub>9</sub>  
 2000 RZ<sub>94</sub> = 1996 JB<sub>14</sub>  
 2000 RB<sub>95</sub> = 1990 TT<sub>13</sub> = 1995 UR<sub>31</sub> = 1998 HJ<sub>67</sub>  
 2000 RD<sub>95</sub> = 1999 JB<sub>2</sub>  
 2000 RE<sub>95</sub> = 1998 DH<sub>6</sub>  
 2000 RK<sub>95</sub> = 1997 ES<sub>23</sub>  
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 2000 RR<sub>96</sub> = 1987 SK<sub>21</sub> = 1999 NQ<sub>48</sub>  
 2000 RZ<sub>96</sub> = 1999 RE<sub>100</sub>  
 2000 RC<sub>97</sub> = 1996 FF<sub>5</sub>  
 2000 RD<sub>97</sub> = 1984 BF  
 2000 RQ<sub>97</sub> = 1989 CN<sub>2</sub> = 1994 FT  
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 2000 RW<sub>98</sub> = 1996 CP<sub>8</sub>  
 2000 RB<sub>99</sub> = 1995 PE  
 2000 RF<sub>99</sub> = 1999 NQ<sub>47</sub>  
 2000 RO<sub>99</sub> = 1999 ND<sub>3</sub>  
 2000 RQ<sub>99</sub> = 1995 QQ<sub>8</sub> = 1998 BW<sub>37</sub>  
 2000 RW<sub>99</sub> = 1999 JU<sub>55</sub>  
 2000 RD<sub>100</sub> = 1993 TN<sub>28</sub>  
 2000 RH<sub>100</sub> = 1998 FL<sub>127</sub>  
 2000 RL<sub>100</sub> = 1998 MU<sub>13</sub> = 1999 TS<sub>264</sub>  
 2000 RO<sub>100</sub> = 1991 PU<sub>18</sub>  
 2000 RS<sub>100</sub> = 1993 LD<sub>2</sub> = 1999 KH<sub>17</sub>  
 2000 RC<sub>101</sub> = 1999 LG<sub>16</sub>  
 2000 RJ<sub>101</sub> = 1998 DO<sub>15</sub>  
 2000 RL<sub>101</sub> = 1993 OP<sub>11</sub> = 1999 RL<sub>99</sub>  
 2000 RB<sub>102</sub> = 1999 NK<sub>29</sub>  
 2000 RH<sub>102</sub> = 1995 UQ<sub>47</sub>  
 2000 RO<sub>102</sub> = 1999 JK<sub>112</sub>  
 2000 RF<sub>103</sub> = 1999 RL<sub>53</sub>  
 2000 RH<sub>103</sub> = 1999 NM<sub>45</sub>  
 2000 RQ<sub>103</sub> = 1999 NC<sub>13</sub>  
 2000 RR<sub>103</sub> = 1998 FP<sub>104</sub>  
 2000 RV<sub>103</sub> = 1998 HJ<sub>13</sub>  
 2000 RC<sub>104</sub> = 1984 YM<sub>4</sub> = 1987 ST<sub>23</sub> = 1991 PF<sub>21</sub> = 1999 LK<sub>16</sub>  
 2000 RV<sub>104</sub> = 1998 FS<sub>104</sub>  
 2000 RW<sub>104</sub> = 1989 SO<sub>12</sub>  
 2000 RH<sub>105</sub> = 1987 PC = 1991 NP<sub>6</sub>  
 2000 RK<sub>105</sub> = 1994 ND<sub>4</sub>

2000 SB = 1988 VS<sub>10</sub> = 1996 TN<sub>20</sub> = 1998 FA<sub>19</sub> = 1999 JY<sub>118</sub>  
 2000 SQ = 1995 SW<sub>39</sub>  
 2000 SQ<sub>1</sub> = 1990 WT<sub>5</sub>  
 2000 ST<sub>1</sub> = 1993 RL<sub>19</sub>  
 2000 SU<sub>1</sub> = 1999 HW<sub>10</sub>  
 2000 SU<sub>2</sub> = 1989 TU  
 2000 SE<sub>3</sub> = 1991 GE<sub>5</sub> = 1999 DO<sub>1</sub>  
 2000 SH<sub>3</sub> = 1999 JG<sub>132</sub>  
 2000 SQ<sub>4</sub> = 1999 CJ<sub>128</sub>  
 2000 SR<sub>4</sub> = 1998 FO<sub>89</sub> = 1999 JF<sub>120</sub>  
 2000 SU<sub>4</sub> = 1999 EV<sub>14</sub>  
 2000 SG<sub>5</sub> = 1999 CB<sub>12</sub>  
 2000 SY<sub>5</sub> = 1998 FT<sub>80</sub>  
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 2000 SX<sub>6</sub> = 1998 HY<sub>142</sub>  
 2000 SD<sub>7</sub> = 1997 YW<sub>18</sub> = 1999 JY<sub>85</sub>  
 2000 SC<sub>8</sub> = 1991 SQ<sub>4</sub> = 1991 TZ<sub>1</sub> = 1997 HJ<sub>5</sub>  
 2000 SK<sub>8</sub> = 1998 HC<sub>136</sub>  
 2000 SO<sub>8</sub> = 1999 JQ<sub>68</sub>  
 2000 ST<sub>8</sub> = 1998 FF<sub>81</sub>  
 2000 SH<sub>10</sub> = 1996 TU<sub>55</sub>  
 2000 SZ<sub>10</sub> = 1990 TF<sub>1</sub>  
 2000 SR<sub>11</sub> = 1989 UT<sub>8</sub> = 1989 VZ<sub>5</sub>  
 2000 SN<sub>13</sub> = 1993 TX<sub>8</sub>  
 2000 SX<sub>14</sub> = 1989 YU<sub>3</sub>  
 2000 SA<sub>15</sub> = 1993 CL<sub>1</sub>  
 2000 SU<sub>15</sub> = 1998 FB<sub>99</sub>  
 2000 SR<sub>19</sub> = 1980 UH<sub>1</sub> = 1997 WH<sub>43</sub>  
 2000 SS<sub>19</sub> = 1995 SG<sub>45</sub>  
 2000 SA<sub>20</sub> = 1996 TV<sub>58</sub>  
 2000 SX<sub>20</sub> = 1996 VB<sub>35</sub>  
 2000 SZ<sub>20</sub> = 1999 JY<sub>17</sub>  
 2000 SP<sub>22</sub> = 1993 SL<sub>15</sub>  
 2000 SS<sub>22</sub> = 1994 PO<sub>20</sub>  
 2000 SY<sub>22</sub> = 1998 FD<sub>142</sub>  
 2000 SC<sub>23</sub> = 1999 NY<sub>57</sub>  
 2000 SE<sub>23</sub> = 1997 CP<sub>26</sub>  
 2000 SK<sub>23</sub> = 1998 HZ<sub>81</sub>  
 2000 SR<sub>24</sub> = 1998 FP<sub>101</sub>  
 2000 SE<sub>25</sub> = 1994 CZ<sub>8</sub> = 1998 FC<sub>13</sub>  
 2000 SJ<sub>26</sub> = 1999 JQ<sub>121</sub>  
 2000 SE<sub>27</sub> = 1995 VF<sub>19</sub>  
 2000 SB<sub>28</sub> = 1998 HL<sub>18</sub>  
 2000 SB<sub>29</sub> = 1986 LG = 1999 NP<sub>58</sub>  
 2000 SF<sub>30</sub> = 1996 RC<sub>26</sub>  
 2000 SH<sub>31</sub> = 1998 HC<sub>117</sub>  
 2000 SS<sub>31</sub> = 1995 UC<sub>37</sub>  
 2000 SU<sub>32</sub> = 1997 WD<sub>33</sub> = 1999 KF<sub>17</sub>  
 2000 SH<sub>33</sub> = 2000 RS<sub>86</sub> = 1998 FA<sub>133</sub>  
 2000 SP<sub>34</sub> = 1986 ER<sub>2</sub> = 1999 RK<sub>46</sub>  
 2000 SF<sub>36</sub> = 1994 NM<sub>5</sub>  
 2000 SD<sub>37</sub> = 1995 CR<sub>6</sub>

2000 SQ<sub>39</sub> = 1995 CK<sub>9</sub>  
 2000 SR<sub>39</sub> = 1996 XV<sub>24</sub> = 1998 HK<sub>128</sub>  
 2000 SG<sub>40</sub> = 1996 QW  
 2000 SK<sub>42</sub> = 1994 PB<sub>23</sub>  
 2000 SU<sub>42</sub> = 1998 HR<sub>105</sub>  
 2000 SE<sub>43</sub> = 1991 PU<sub>6</sub>  
 2000 SG<sub>43</sub> = 1999 GW<sub>58</sub>  
 2000 SH<sub>43</sub> = 1999 GS<sub>14</sub>  
 2000 SX<sub>43</sub> = 1999 CE<sub>135</sub>  
 2000 SY<sub>43</sub> = 1998 FE<sub>105</sub>  
 2000 SP<sub>44</sub> = 1999 EK<sub>9</sub>  
 2000 SR<sub>44</sub> = 1998 FE<sub>40</sub>  
 2000 SV<sub>44</sub> = 1991 EM<sub>5</sub> = 1999 LV<sub>16</sub>  
 2000 SW<sub>44</sub> = 1993 OH<sub>2</sub>  
 2000 SB<sub>46</sub> = 1999 NB<sub>14</sub>  
 2000 SD<sub>46</sub> = 1979 OM<sub>7</sub>  
 2000 SE<sub>46</sub> = 1995 QJ<sub>5</sub>  
 2000 SJ<sub>46</sub> = 1991 NC<sub>3</sub>  
 2000 SB<sub>47</sub> = 1996 OF<sub>2</sub> = 1996 ON<sub>2</sub>  
 2000 SD<sub>50</sub> = 1998 FF<sub>141</sub>  
 2000 SZ<sub>50</sub> = 1998 FC<sub>19</sub>  
 2000 SX<sub>53</sub> = 1996 TH<sub>44</sub>  
 2000 SO<sub>56</sub> = 1999 RH<sub>101</sub>  
 2000 SV<sub>57</sub> = 1998 BR<sub>29</sub>  
 2000 SY<sub>57</sub> = 1996 VH<sub>20</sub>  
 2000 SL<sub>58</sub> = 1999 JF<sub>119</sub>  
 2000 SM<sub>60</sub> = 1993 FB<sub>61</sub> = 1999 JL<sub>114</sub>  
 2000 SW<sub>60</sub> = 1996 GN<sub>1</sub>  
 2000 SZ<sub>60</sub> = 1994 RS<sub>14</sub>  
 2000 SR<sub>61</sub> = 1999 CG<sub>101</sub>  
 2000 ST<sub>61</sub> = 1996 VH<sub>32</sub>  
 2000 SX<sub>61</sub> = 1994 CK<sub>9</sub>  
 2000 SG<sub>63</sub> = 1996 RG<sub>25</sub> = 1998 FH<sub>46</sub>  
 2000 SM<sub>63</sub> = 1996 FC<sub>10</sub>  
 2000 SS<sub>64</sub> = 1969 EX = 1989 TU<sub>6</sub>  
 2000 SO<sub>66</sub> = 1997 RR<sub>7</sub>  
 2000 SF<sub>67</sub> = 1996 TM<sub>23</sub>  
 2000 SM<sub>67</sub> = 1999 JQ<sub>38</sub>  
 2000 SJ<sub>68</sub> = 1998 HD<sub>134</sub>  
 2000 SN<sub>68</sub> = 1993 VL<sub>8</sub>  
 2000 SW<sub>68</sub> = 1997 WX<sub>3</sub>  
 2000 SX<sub>68</sub> = 1999 NW<sub>12</sub>  
 2000 SZ<sub>68</sub> = 1999 FC<sub>1</sub> = 1999 GB<sub>49</sub>  
 2000 SE<sub>69</sub> = 1993 SM<sub>14</sub>  
 2000 SN<sub>70</sub> = 1978 WL<sub>6</sub> = 1999 CX<sub>57</sub>  
 2000 SC<sub>71</sub> = 1994 CH<sub>6</sub>  
 2000 SK<sub>71</sub> = 1994 GL<sub>6</sub>  
 2000 SL<sub>71</sub> = 1978 WB<sub>13</sub>  
 2000 SN<sub>74</sub> = 1991 AC<sub>2</sub> = 1999 LA<sub>10</sub>  
 2000 SP<sub>74</sub> = 1995 CX<sub>9</sub>  
 2000 SQ<sub>75</sub> = 1995 SC<sub>16</sub>  
 2000 SJ<sub>76</sub> = 1993 UV<sub>8</sub>

2000 SM<sub>80</sub> = 1998 DP<sub>26</sub>  
 2000 SB<sub>81</sub> = 1981 JK<sub>5</sub>  
 2000 ST<sub>82</sub> = 1998 EO<sub>15</sub>  
 2000 SX<sub>82</sub> = 1999 JN<sub>67</sub>  
 2000 SZ<sub>82</sub> = 1997 EP<sub>59</sub>  
 2000 SM<sub>83</sub> = 1998 HE<sub>117</sub>  
 2000 SU<sub>83</sub> = 1995 FW<sub>3</sub>  
 2000 SG<sub>84</sub> = 1998 EM<sub>2</sub>  
 2000 SN<sub>84</sub> = 1993 BR<sub>8</sub>  
 2000 SK<sub>85</sub> = 1998 FY<sub>94</sub>  
 2000 SN<sub>85</sub> = 1998 DW<sub>37</sub>  
 2000 SB<sub>86</sub> = 1978 WW<sub>5</sub> = 1999 JB<sub>54</sub>  
 2000 SL<sub>86</sub> = 1998 LM<sub>3</sub>  
 2000 SS<sub>87</sub> = 1999 JU<sub>69</sub>  
 2000 SN<sub>88</sub> = 1999 LN<sub>19</sub>  
 2000 SW<sub>88</sub> = 1998 FV<sub>142</sub>  
 2000 SA<sub>90</sub> = 1999 JM<sub>136</sub>  
 2000 ST<sub>90</sub> = 1992 JJ<sub>1</sub> = 1999 JG  
 2000 SC<sub>91</sub> = 1990 EC<sub>5</sub> = 1992 WC<sub>6</sub>  
 2000 SD<sub>91</sub> = 1999 NQ<sub>60</sub>  
 2000 SL<sub>92</sub> = 1989 AE<sub>6</sub> = 1998 FA<sub>97</sub>  
 2000 SP<sub>93</sub> = 1989 TG<sub>6</sub>  
 2000 SC<sub>95</sub> = 1995 WU<sub>10</sub>  
 2000 SK<sub>95</sub> = 1995 VB<sub>8</sub>  
 2000 SP<sub>98</sub> = 1994 LP<sub>8</sub>  
 2000 SR<sub>98</sub> = 1998 EJ<sub>5</sub>  
 2000 SS<sub>99</sub> = 1996 XS<sub>9</sub>  
 2000 SA<sub>101</sub> = 1991 RD<sub>29</sub>  
 2000 SB<sub>101</sub> = 1989 SG<sub>13</sub>  
 2000 SN<sub>102</sub> = 1999 JH<sub>33</sub>  
 2000 SU<sub>102</sub> = 1998 DB<sub>9</sub>  
 2000 SQ<sub>106</sub> = 1996 XD<sub>4</sub>  
 2000 SS<sub>106</sub> = 1995 YR<sub>13</sub>  
 2000 SV<sub>106</sub> = 1999 KG<sub>2</sub>  
 2000 SW<sub>106</sub> = 1998 FR<sub>141</sub>  
 2000 SM<sub>107</sub> = 1997 WL<sub>47</sub>  
 2000 SV<sub>107</sub> = 1996 TE<sub>4</sub>  
 2000 SN<sub>108</sub> = 1999 FR<sub>12</sub>  
 2000 SX<sub>108</sub> = 1993 TB<sub>18</sub> = 1999 LV<sub>18</sub>  
 2000 SC<sub>109</sub> = 1996 PC<sub>5</sub>  
 2000 SH<sub>110</sub> = 1999 LW<sub>21</sub>  
 2000 SX<sub>110</sub> = 1999 GU<sub>24</sub> = 1999 GH<sub>48</sub>  
 2000 SZ<sub>110</sub> = 1996 VM<sub>39</sub>  
 2000 SB<sub>111</sub> = 1996 GX<sub>18</sub>  
 2000 SD<sub>111</sub> = 1995 EP<sub>2</sub>  
 2000 SH<sub>111</sub> = 1989 EV<sub>9</sub> = 1992 YU<sub>4</sub> = 1998 HR<sub>55</sub>  
 2000 SB<sub>112</sub> = 1977 RT<sub>19</sub>  
 2000 SH<sub>112</sub> = 1998 FX<sub>36</sub>  
 2000 SN<sub>112</sub> = 1999 KC<sub>8</sub>  
 2000 SS<sub>112</sub> = 1989 TH<sub>15</sub> = 1997 EA<sub>35</sub> = 1998 HD<sub>39</sub>  
 2000 SU<sub>112</sub> = 1978 WS<sub>9</sub> = 1980 FT<sub>1</sub> = 1997 EW<sub>52</sub>  
 2000 SJ<sub>113</sub> = 1986 WH<sub>4</sub> = 1998 BK<sub>24</sub>

2000 SL<sub>113</sub> = 1990 WC<sub>7</sub> = 1993 RS<sub>16</sub>  
 2000 SM<sub>113</sub> = 1998 HV<sub>135</sub>  
 2000 SV<sub>113</sub> = 1998 HB<sub>54</sub>  
 2000 SJ<sub>114</sub> = 1995 SQ<sub>22</sub>  
 2000 SS<sub>114</sub> = 1991 XC<sub>6</sub> = 1993 FY<sub>53</sub>  
 2000 ST<sub>114</sub> = 1998 FJ<sub>132</sub>  
 2000 SE<sub>115</sub> = 1990 SS<sub>13</sub> = 1998 FL<sub>120</sub>  
 2000 SF<sub>115</sub> = 1998 FD<sub>80</sub>  
 2000 SK<sub>115</sub> = 1997 WD<sub>22</sub>  
 2000 SO<sub>115</sub> = 1989 TA<sub>17</sub> = 1991 FB<sub>3</sub>  
 2000 SU<sub>115</sub> = 1998 BU<sub>40</sub>  
 2000 SV<sub>115</sub> = 1996 VV<sub>14</sub>  
 2000 SN<sub>116</sub> = 1999 JE<sub>133</sub>  
 2000 SC<sub>117</sub> = 1991 GE<sub>12</sub> = 1999 LN<sub>14</sub>  
 2000 SK<sub>117</sub> = 1989 TL<sub>8</sub> = 1989 TT<sub>13</sub>  
 2000 SR<sub>117</sub> = 1982 XB<sub>1</sub> = 1995 KC<sub>4</sub>  
 2000 SC<sub>118</sub> = 1993 FW<sub>44</sub> = 1998 HL<sub>130</sub>  
 2000 SM<sub>119</sub> = 1999 BP<sub>33</sub>  
 2000 SX<sub>119</sub> = 1988 GZ<sub>2</sub> = 1999 LQ<sub>26</sub>  
 2000 SA<sub>120</sub> = 1998 HY<sub>74</sub>  
 2000 SZ<sub>122</sub> = 1998 HN<sub>144</sub> = 1999 NW<sub>23</sub>  
 2000 SE<sub>123</sub> = 1998 DX<sub>22</sub>  
 2000 SX<sub>123</sub> = 1998 HU<sub>131</sub>  
 2000 SG<sub>124</sub> = 1991 TK<sub>13</sub>  
 2000 ST<sub>124</sub> = 1977 RF<sub>13</sub> = 1996 TJ<sub>39</sub>  
 2000 ST<sub>126</sub> = 1998 HD<sub>133</sub>  
 2000 SU<sub>126</sub> = 1995 OQ<sub>8</sub>  
 2000 SO<sub>127</sub> = 1992 LF<sub>1</sub> = 1993 TD<sub>19</sub> = 1999 LF<sub>22</sub>  
 2000 SU<sub>127</sub> = 1996 TO<sub>40</sub>  
 2000 SL<sub>129</sub> = 1995 ND  
 2000 SL<sub>130</sub> = 1997 AV<sub>14</sub>  
 2000 SP<sub>130</sub> = 1999 LV  
 2000 SE<sub>132</sub> = 1999 NH<sub>24</sub>  
 2000 SP<sub>132</sub> = 1996 XK<sub>4</sub>  
 2000 SE<sub>134</sub> = 1998 FE<sub>107</sub>  
 2000 SY<sub>135</sub> = 1999 KV<sub>10</sub>  
 2000 SE<sub>137</sub> = 1999 JH<sub>112</sub>  
 2000 SF<sub>139</sub> = 1998 HU<sub>126</sub>  
 2000 SQ<sub>139</sub> = 1993 OQ<sub>9</sub>  
 2000 SR<sub>139</sub> = 1997 EO<sub>28</sub>  
 2000 SO<sub>140</sub> = 1992 RF<sub>4</sub>  
 2000 SB<sub>141</sub> = 1993 RG<sub>4</sub>  
 2000 SA<sub>142</sub> = 1998 HS<sub>143</sub>  
 2000 SJ<sub>142</sub> = 1996 VW<sub>30</sub>  
 2000 SB<sub>143</sub> = 1995 BT<sub>14</sub>  
 2000 SC<sub>143</sub> = 1993 SJ<sub>6</sub>  
 2000 SH<sub>143</sub> = 1998 HO<sub>87</sub>  
 2000 SW<sub>143</sub> = 1994 PK<sub>26</sub> = 1994 RQ<sub>28</sub>  
 2000 SZ<sub>144</sub> = 1999 HL<sub>5</sub>  
 2000 SK<sub>145</sub> = 1992 YK<sub>2</sub> = 1998 FO<sub>28</sub>  
 2000 SR<sub>145</sub> = 1989 SK<sub>12</sub> = 1994 PX<sub>5</sub>  
 2000 SG<sub>146</sub> = 1998 EA<sub>1</sub>

2000 SO<sub>146</sub> = 1993 RE<sub>20</sub> = 1999 JK<sub>22</sub>  
 2000 SQ<sub>146</sub> = 1997 WP<sub>39</sub> = 1999 FF<sub>45</sub>  
 2000 SW<sub>146</sub> = 1998 EK<sub>6</sub>  
 2000 SY<sub>146</sub> = 1978 WG<sub>11</sub>  
 2000 SF<sub>147</sub> = 1998 FG<sub>138</sub>  
 2000 SQ<sub>147</sub> = 1996 KH<sub>8</sub>  
 2000 SR<sub>147</sub> = 1993 TJ<sub>45</sub>  
 2000 SV<sub>147</sub> = 1993 RO<sub>15</sub>  
 2000 SY<sub>147</sub> = 1991 XR<sub>5</sub>  
 2000 SX<sub>148</sub> = 1999 GG<sub>50</sub>  
 2000 SZ<sub>148</sub> = 1996 SV  
 2000 SF<sub>149</sub> = 1998 FU<sub>19</sub>  
 2000 SG<sub>149</sub> = 1993 FF<sub>37</sub>  
 2000 SM<sub>149</sub> = 1990 TD<sub>4</sub>  
 2000 SP<sub>149</sub> = 1993 RR<sub>20</sub>  
 2000 SX<sub>149</sub> = 1998 FE<sub>20</sub>  
 2000 SZ<sub>149</sub> = 1992 DF<sub>2</sub> = 1998 KT<sub>62</sub> = 1999 NM<sub>38</sub>  
 2000 SH<sub>150</sub> = 1998 EE<sub>21</sub>  
 2000 SK<sub>150</sub> = 1998 FX<sub>23</sub>  
 2000 ST<sub>150</sub> = 1984 BN<sub>7</sub>  
 2000 SX<sub>150</sub> = 1998 FF<sub>136</sub>  
 2000 SY<sub>150</sub> = 1995 ON<sub>1</sub>  
 2000 SB<sub>151</sub> = 1996 QF<sub>3</sub> = 1999 GN<sub>49</sub>  
 2000 SE<sub>151</sub> = 1994 PE<sub>37</sub>  
 2000 SF<sub>151</sub> = 1998 FR<sub>33</sub>  
 2000 SK<sub>151</sub> = 1993 SH<sub>8</sub> = 1998 BH<sub>43</sub>  
 2000 SS<sub>151</sub> = 1998 FC<sub>139</sub>  
 2000 SU<sub>151</sub> = 1996 TP<sub>53</sub> = 1998 FQ<sub>28</sub>  
 2000 SY<sub>151</sub> = 1994 JV<sub>1</sub>  
 2000 SE<sub>152</sub> = 1999 FV<sub>17</sub>  
 2000 SQ<sub>152</sub> = 1998 HN<sub>88</sub>  
 2000 ST<sub>152</sub> = 1992 EC<sub>24</sub>  
 2000 SX<sub>152</sub> = 1996 VZ = 1998 FQ<sub>21</sub>  
 2000 ST<sub>155</sub> = 1990 ST<sub>13</sub>  
 2000 SX<sub>155</sub> = 1984 UN<sub>5</sub> = 1992 WA<sub>5</sub>  
 2000 SG<sub>156</sub> = 1999 FD<sub>1</sub>  
 2000 SK<sub>156</sub> = 1991 JL<sub>7</sub>  
 2000 SG<sub>157</sub> = 1993 TX<sub>17</sub> = 1999 JE<sub>45</sub>  
 2000 SJ<sub>158</sub> = 1998 HG<sub>75</sub>  
 2000 SO<sub>159</sub> = 6776 P-L = 1996 XD<sub>9</sub>  
 2000 SD<sub>160</sub> = 1999 CL<sub>6</sub>  
 2000 SM<sub>162</sub> = 1995 UW<sub>15</sub> = 1998 HV<sub>141</sub>  
 2000 SC<sub>165</sub> = 1986 CO<sub>1</sub>  
 2000 SV<sub>165</sub> = 1994 RR<sub>15</sub>  
 2000 SC<sub>166</sub> = 1996 XZ<sub>27</sub>  
 2000 SG<sub>166</sub> = 1995 QH<sub>4</sub>  
 2000 SP<sub>166</sub> = 1994 CR<sub>10</sub>  
 2000 SB<sub>169</sub> = 1996 TV<sub>56</sub> = 1999 JO<sub>25</sub>  
 2000 SX<sub>169</sub> = 1989 GE<sub>2</sub>  
 2000 SB<sub>172</sub> = 1991 RF<sub>19</sub> = 1999 NP<sub>51</sub>  
 2000 SX<sub>173</sub> = 1998 DG<sub>18</sub>  
 2000 SU<sub>174</sub> = 1998 FC<sub>119</sub>

2000 SJ<sub>175</sub> = 1995 SV<sub>5</sub>  
 2000 SD<sub>182</sub> = 1991 VV<sub>10</sub>  
 2000 SF<sub>183</sub> = 1995 UF<sub>14</sub>  
 2000 SM<sub>185</sub> = 1977 RC<sub>15</sub> = 1998 BY<sub>40</sub>  
 2000 SN<sub>185</sub> = 1999 BO<sub>33</sub>  
 2000 SE<sub>186</sub> = 1999 GA<sub>56</sub>  
 2000 SG<sub>186</sub> = 1995 UP<sub>13</sub> = 1998 BO<sub>17</sub>  
 2000 SM<sub>186</sub> = 1995 UZ<sub>34</sub>  
 2000 SR<sub>187</sub> = 1994 NH<sub>6</sub>  
 2000 SA<sub>188</sub> = 4344 T-1 = 1998 FX<sub>44</sub>  
 2000 SH<sub>188</sub> = 1997 GR<sub>37</sub>  
 2000 SW<sub>189</sub> = 1998 KX<sub>13</sub>  
 2000 SX<sub>190</sub> = 1977 RJ<sub>16</sub>  
 2000 ST<sub>202</sub> = 1998 FY<sub>40</sub>  
 2000 SZ<sub>203</sub> = 1994 PH<sub>12</sub>  
 2000 SD<sub>205</sub> = 1998 HF<sub>26</sub>  
 2000 SK<sub>205</sub> = 1999 RM<sub>225</sub>  
 2000 SR<sub>205</sub> = 1991 HW<sub>4</sub> = 1996 TE<sub>61</sub> = 1998 FV<sub>126</sub> = 1999 NS<sub>14</sub>  
 2000 SY<sub>205</sub> = 1991 FV<sub>1</sub> = 1997 GE<sub>43</sub>  
 2000 SO<sub>213</sub> = 1989 WB<sub>5</sub> = 1998 KF<sub>38</sub>  
 2000 SN<sub>216</sub> = 1999 JL<sub>135</sub>  
 2000 SP<sub>216</sub> = 1992 EP<sub>24</sub>  
 2000 SD<sub>218</sub> = 1993 FR<sub>6</sub> = 1998 HM<sub>50</sub>  
 2000 SK<sub>225</sub> = 1998 FP<sub>147</sub>  
 2000 SL<sub>225</sub> = 1998 HE<sub>116</sub>  
 2000 SM<sub>225</sub> = 1998 DN<sub>11</sub>  
 2000 SH<sub>234</sub> = 1998 HB<sub>139</sub>  
 2000 SX<sub>235</sub> = 1999 ET<sub>1</sub>  
 2000 SJ<sub>237</sub> = 1996 WP  
 2000 SW<sub>237</sub> = 1998 HO<sub>108</sub>  
 2000 SK<sub>240</sub> = 1998 DK<sub>31</sub>  
 2000 SU<sub>249</sub> = 1998 FO<sub>67</sub>  
 2000 ST<sub>250</sub> = 1997 YJ<sub>15</sub>  
 2000 SG<sub>251</sub> = 1991 SQ<sub>3</sub>  
 2000 SH<sub>254</sub> = 1998 HE<sub>134</sub>  
 2000 SS<sub>255</sub> = 1992 YU<sub>3</sub>  
 2000 SX<sub>255</sub> = 1999 GN<sub>26</sub>  
 2000 SZ<sub>257</sub> = 1997 BO<sub>4</sub>  
 2000 ST<sub>261</sub> = 1999 LH<sub>10</sub>  
 2000 SX<sub>261</sub> = 1998 HM<sub>73</sub>  
 2000 SS<sub>265</sub> = 1996 RS<sub>10</sub>  
 2000 SN<sub>267</sub> = 1998 FC<sub>7</sub>  
 2000 SB<sub>269</sub> = 1993 HZ<sub>3</sub>  
 2000 SP<sub>270</sub> = 1997 GM<sub>4</sub>  
 2000 SG<sub>273</sub> = 1996 XR<sub>12</sub>  
 2000 SJ<sub>276</sub> = 1981 JG<sub>5</sub> = 1999 NS<sub>43</sub>  
 2000 SG<sub>277</sub> = 1979 MB<sub>7</sub>  
 2000 SW<sub>288</sub> = 1999 KA<sub>6</sub>  
 2000 SU<sub>289</sub> = 1994 CU<sub>6</sub>  
 2000 SA<sub>290</sub> = 1997 WL<sub>39</sub> = 1999 JQ<sub>58</sub>  
 2000 SZ<sub>293</sub> = 1998 HM<sub>36</sub>  
 2000 SH<sub>295</sub> = 1978 UK<sub>3</sub> = 1982 SJ<sub>3</sub> = 1998 JW<sub>1</sub>

2000 SU<sub>295</sub> = 1977 HA<sub>1</sub> = 1987 UY<sub>9</sub> = 1991 RZ<sub>25</sub> = 1998 HU<sub>20</sub>  
 2000 SX<sub>301</sub> = 1999 JX<sub>21</sub>  
 2000 SH<sub>303</sub> = 1998 HH<sub>78</sub>  
 2000 SA<sub>305</sub> = 1993 OF<sub>7</sub>  
 2000 SX<sub>305</sub> = 1998 FT<sub>104</sub>  
 2000 SS<sub>306</sub> = 1996 SH  
 2000 ST<sub>306</sub> = 1998 FY<sub>103</sub>  
 2000 SR<sub>309</sub> = 1999 JD<sub>103</sub>  
 2000 SB<sub>310</sub> = 1999 OG<sub>5</sub> = 1999 RE<sub>222</sub>  
 2000 SY<sub>315</sub> = 1999 LU<sub>32</sub>  
 2000 SL<sub>317</sub> = 1994 NN<sub>11</sub>  
 2000 TB<sub>21</sub> = 1998 HV<sub>112</sub>  
 2000 TW<sub>28</sub> = 1998 BZ<sub>28</sub>  
 2101 P-L = 2000 SA<sub>148</sub>  
 2109 P-L = 2000 ST<sub>107</sub>  
 2123 P-L = 2000 SQ<sub>176</sub>  
 2134 P-L = 2000 SR<sub>144</sub>  
 2157 P-L = 1998 KV<sub>66</sub> = 2000 RT<sub>5</sub>  
 2169 P-L = 2000 SB<sub>178</sub>  
 2200 P-L = 2000 QF<sub>91</sub>  
 2201 P-L = 2000 QO<sub>140</sub>  
 2222 P-L = 2000 QT<sub>110</sub>  
 2569 P-L = 2000 RH<sub>95</sub>  
 2603 P-L = 2000 QT<sub>21</sub> = 2000 SG<sub>193</sub>  
 2707 P-L = 2000 QA<sub>32</sub>  
 2769 P-L = 2000 OA<sub>39</sub>  
 2856 P-L = 2000 SL<sub>187</sub>  
 3091 P-L = 2000 QP<sub>157</sub>  
 3512 P-L = 2000 OS<sub>10</sub>  
 4111 P-L = 2000 RJ<sub>93</sub>  
 4195 P-L = 1998 BH<sub>32</sub>  
 4246 P-L = 2000 SG<sub>112</sub>  
 4278 P-L = 2000 RU<sub>58</sub>  
 4311 P-L = 2000 QN<sub>92</sub>  
 4564 P-L = 1978 WL<sub>2</sub> = 2000 SK<sub>183</sub>  
 4663 P-L = 2000 SZ<sub>154</sub>  
 4712 P-L = 2000 SP<sub>104</sub>  
 4728 P-L = 2000 SU<sub>69</sub>  
 4754 P-L = 2000 OE<sub>54</sub>  
 4793 P-L = 1977 ET<sub>3</sub> = 1999 LU<sub>24</sub> = 2000 TF<sub>16</sub>  
 4843 P-L = 1999 XQ<sub>199</sub>  
 4875 P-L = 1964 WC<sub>1</sub> = 2000 SG<sub>114</sub>  
 4901 P-L = 2000 AV<sub>106</sub>  
 6095 P-L = 2000 QP<sub>92</sub>  
 6127 P-L = 2000 OP<sub>20</sub>  
 6257 P-L = 1993 TO<sub>8</sub>  
 6609 P-L = 2000 QL<sub>127</sub>  
 6686 P-L = 2000 QA<sub>140</sub>  
 6782 P-L = 2000 QB<sub>50</sub>  
 6860 P-L = 1999 PG<sub>5</sub>  
 7562 P-L = 2000 SA<sub>71</sub>  
 7566 P-L = 2000 QU<sub>98</sub>

9066 P-L = 2000 OF<sub>24</sub>  
 9579 P-L = 2000 QW<sub>98</sub>  
 1063 T-1 = 1997 RQ = 1998 UK<sub>10</sub> = 1999 YV<sub>25</sub>  
 1202 T-1 = 2000 OS<sub>2</sub>  
 1209 T-1 = 2000 QP<sub>1</sub>  
 3113 T-1 = 2000 SS<sub>111</sub>  
 3210 T-1 = 1989 YC<sub>2</sub> = 2000 SX<sub>109</sub>  
 3258 T-1 = 1999 FP<sub>24</sub> = 2000 OD<sub>11</sub>  
 4134 T-1 = 1998 HT<sub>52</sub>  
 1017 T-2 = 1998 FE<sub>147</sub> = 2000 QB<sub>139</sub>  
 1054 T-2 = 2000 NL<sub>9</sub>  
 1112 T-2 = 2000 SV<sub>149</sub>  
 1115 T-2 = 2000 SR<sub>111</sub>  
 1471 T-2 = 2000 SH<sub>80</sub>  
 2133 T-2 = 2000 SS<sub>149</sub>  
 2134 T-2 = 1998 MA<sub>37</sub>  
 2149 T-2 = 2000 RK<sub>15</sub>  
 2219 T-2 = 1996 SU<sub>8</sub> = 2000 RG<sub>65</sub>  
 2251 T-2 = 2000 QL<sub>51</sub>  
 2288 T-2 = 2000 QY<sub>55</sub>  
 3105 T-2 = 2000 QZ<sub>41</sub>  
 3127 T-2 = 2000 SD<sub>199</sub>  
 3204 T-2 = 2000 QW<sub>187</sub>  
 3250 T-2 = 2000 SF<sub>71</sub>  
 3363 T-2 = 1999 TH<sub>262</sub>  
 4113 T-2 = 2000 AM<sub>157</sub>  
 4169 T-2 = 2000 QN<sub>183</sub>  
 4256 T-2 = 2000 SK<sub>33</sub>  
 4286 T-2 = 2000 SA<sub>64</sub>  
 5072 T-2 = 2000 QO<sub>73</sub>  
 5215 T-2 = 2000 RP<sub>15</sub>  
 1087 T-3 = 2000 OC<sub>17</sub>  
 1104 T-3 = 2000 SR<sub>51</sub>  
 1150 T-3 = 2000 RR<sub>80</sub>  
 1199 T-3 = 2000 LD<sub>32</sub>  
 1304 T-3 = 2000 QP<sub>84</sub>  
 2005 T-3 = 2000 SD<sub>94</sub>  
 2144 T-3 = 2000 QU<sub>121</sub>  
 2147 T-3 = 2000 SP<sub>47</sub>  
 2300 T-3 = 1999 TO<sub>135</sub>  
 2307 T-3 = 2000 QF<sub>150</sub>  
 2375 T-3 = 2000 OM<sub>18</sub>  
 2405 T-3 = 2000 QF<sub>77</sub>  
 2665 T-3 = 2000 QX<sub>26</sub>  
 3033 T-3 = 2000 OV<sub>42</sub>  
 3079 T-3 = 2000 QA<sub>90</sub>  
 3235 T-3 = 2000 SL<sub>50</sub>  
 3323 T-3 = 2000 QA<sub>30</sub>  
 3367 T-3 = 2000 SH<sub>67</sub>  
 3420 T-3 = 1996 TV<sub>38</sub> = 2000 SY<sub>115</sub>  
 3470 T-3 = 2000 SQ<sub>179</sub>  
 3552 T-3 = 1994 TH<sub>8</sub>

3837 T-3 = 2000 QC<sub>187</sub>  
 3853 T-3 = 1983 VR<sub>6</sub> = 2000 SM<sub>84</sub>  
 3923 T-3 = 2000 SR<sub>65</sub>  
 3965 T-3 = 1999 NM<sub>34</sub>  
 4027 T-3 = 2000 PX  
 4053 T-3 = 2000 QZ<sub>141</sub>  
 4329 T-3 = 2000 QJ<sub>134</sub>

## NEW NAMES OF MINOR PLANETS

### (3579) Rockholt = 1977 YA

Discovered 1977 Dec. 18 by M. Lovas at Piskésető.

The lifelong affection of Ronald Rockholt Sr. (b. 1928) for the stars led him to pursuits in aviation, rocketry, telescope making and astronomy. Most importantly, he is recognized for inspiring two generations of rural California students to love science through his innovative, hands-on teaching. The name was suggested by K. Beatty.

### (4320) Jarosewich = 1981 EJ<sub>17</sub>

Discovered 1981 Mar. 1 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

Eugene Jarosewich (b. 1926), research chemist emeritus at the Smithsonian Institution, has analyzed meteorites for more than 30 years and compiled one of the largest and most important sets of bulk chemical analyses of meteorites. These data are invaluable for deciphering geochemical processing of meteorites.

### (4394) Fritzheide = 1981 EB<sub>19</sub>

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

German mineralogist Fritz von der Heide (1891–1973) studied meteorites at a time when little work was being done on these interesting extraterrestrial samples. His 1934 book *Kleine Meteoritenkunde* influenced a generation of meteorite researchers and has been reprinted several times and translated into English.

### (4395) Danbritt = 1981 EH<sub>41</sub>

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

As a research professor at the University of Tennessee, Daniel Britt (b. 1950) studies the relationships between minor planets and meteorites using reflectance spectroscopy. He has been instrumental in unraveling the role of shock processes in modifying the reflectance properties of asteroidal surfaces.

### (4473) Sears = 1981 DE<sub>2</sub>

Discovered 1981 Feb. 28 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

A professor at the University of Arkansas, Derek Sears (b. 1948) has championed thermoluminescence as a tool to unravel the geologic and thermal histories of meteorites. His stewardship of the journal *Meteoritics and Planetary Science* has placed it at the forefront in its field.

### (4517) Ralpharvey = 1975 SV

Discovered 1975 Sept. 30 by S. J. Bus at Palomar.

An assistant professor at Case Western University, Ralph Harvey (b. 1960) leads the Antarctic Search for Meteorites, a program that has provided invaluable clues to the physical and chemical history of the solar system. His research interests focus on igneous processes that formed the martian meteorites.

### (4550) Royclarke = 1977 HH<sub>1</sub>

Discovered 1977 Apr. 24 by S. J. Bus at Palomar.

Roy Clarke, Jr. (b. 1925) served as curator of the U.S. National Meteorite Collection at the Smithsonian Institution for nearly 30 years. Clarke's research interests have focused on the structures of iron meteorites and have included the classification and study of Antarctic iron meteorites.

### (4564) Clayton = 1981 ET<sub>16</sub>

Discovered 1981 Mar. 6 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

As a professor at the University of Chicago, Robert Clayton (b. 1930) has pioneered the use of oxygen isotope compositions in understanding nebular and asteroidal processes. His discovery of isotopic anomalies in some chondritic meteorites established that presolar materials survived solar system formation.

### (4565) Grossman = 1981 EZ<sub>17</sub>

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

Chairman of the Department of Geophysical Sciences at the University of Chicago, Lawrence Grossman (b. 1946) has spent his career studying calcium-aluminum inclusions (CAIs) in carbonaceous chondrites. He was among the first to propose that these minerals condensed from gases in the early solar system.

### (4595) Prinz = 1981 EZ<sub>2</sub>

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

Martin (Marty) Prinz (b. 1931) is a long-time curator of the meteorite collection at the American Museum of Natural History in New York. Prinz has worked on a wide range of meteorite types and associated geologic processes and is perhaps best known for his work on silicate inclusions in iron meteorites.

### (4597) Consolmagno = 1983 UA<sub>1</sub>

Discovered 1983 Oct. 30 by S. J. Bus at Palomar.

Through experimental petrology, Guy Consolmagno (b. 1952) studied the origins of eucritic meteorites. As the curator of the Vatican meteorite collection, Guy's more recent efforts have focused on determining the densities and porosities of meteorites and making comparisons with the densities of minor planets.

### (4716) Urey = 1989 UL<sub>5</sub>

Discovered 1989 Oct. 30 by S. J. Bus at Cerro Tololo.

Winner of the 1934 Nobel Prize in chemistry for his discovery of deuterium, Harold Urey (1893–1981) was also one of the founders of planetary science as we know it today. His classic book *The Planets* (1952) discussed planetary objects and meteorites in the context of chemical and physical relationships.

### (4731) Monicagradý = 1981 EE<sub>9</sub>

Discovered 1981 Mar. 1 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

Monica Grady (b. 1958), curator of the meteorite collection at the Natural History Museum in London, studies carbon isotopes in a wide range of meteorites with a focus on understanding the geologic processes leading to their formation. She is also actively involved in meteorite recovery efforts around the world.

### (4794) Bogard = 1988 SO<sub>2</sub>

Discovered 1988 Sept. 16 by S. J. Bus at Cerro Tololo.

Donald Bogard (b.1940) of NASA's Johnson Space Center has been at the forefront of understanding the chronology of formation and impact alterations of solar system bodies using argon isotope measurements. He played a key role in recognizing the martian origin of some meteorites using analyses of trapped gases.

**(4815) Anders = 1981 EA<sub>28</sub>**

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

Edward Anders (b.1926), professor emeritus at the University of Chicago, has made many seminal contributions to the field of meteoritics. His work provided early evidence that meteorites are derived from minor planets rather than a larger fragmented planet and that meteoritic organics are of abiotic origin.

**(4831) Baldwin = 1988 RX<sub>11</sub>**

Discovered 1988 Sept. 14 by S. J. Bus at Cerro Tololo.

Through his pioneering work on the impact origins of lunar craters, Ralph Baldwin (b.1912) recognized the importance of impacts in the moon's geologic history. Baldwin's contributions to lunar science were published in his books *The Face of the Moon* (1949) and *The Measure of the Moon* (1963).

**(4854) Edscott = 1981 ED<sub>27</sub>**

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

Edward Scott (b.1947), professor at the University of Hawaii, began his career by deciphering how minor planet cores fractionally crystallized to produce the observed range of iron meteorite compositions. His current work focuses on the chemical and physical processes that operated in the solar nebula.

**(4886) Kojima = 1981 EZ<sub>14</sub>**

Discovered 1981 Mar. 1 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

Hideyasu Kojima (b.1951) is the curator of the Japanese Antarctic meteorite collection at the National Institute of Polar Research in Tokyo. He has also conducted research on a broad range of meteorite types aimed at understanding processes ranging from hydrothermal alteration to melting.

**(4922) Leshin = 1981 EH<sub>4</sub>**

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

Laurie Leshin (b.1965), assistant professor at Arizona State University, has used isotopic analyses to investigate geologic processes recorded in martian meteorites. Her work on oxygen and hydrogen isotopes has been fundamental to understanding the interaction between the hydrosphere and crust of Mars.

**(4965) Takeda = 1981 EP<sub>28</sub>**

Discovered 1981 Mar. 6 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

Hiroshi Takeda (b.1934), professor at the Chiba Institute of Technology in Narashino, has conducted seminal research on both lunar meteorites and primitive achondrites. These studies have contributed to our understanding of the melting and differentiation of small bodies in the solar system.

**(4966) Edolsen = 1981 EO<sub>34</sub>**

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

Edward Olsen (b.1927) is a long-time curator of the meteorite collection at the Field Museum of Natural History in Chicago. His studies of stony-iron meteorites and phosphate minerals have focused on unraveling the processes that led to core formation in minor planets.

**(4989) Joegoldstein = 1981 DX<sub>1</sub>**

Discovered 1981 Feb. 28 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

As dean of the College of Engineering at the University of Massachusetts at Amherst, Joseph Goldstein (b.1939) leads a research group focused on metallographic techniques and experimentally determined phase relationships. This work is vital to understanding the formation and structure of iron meteorites.

**(4990) Trombka = 1981 ET<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 at NASA's Goddard Space Flight Center, Jacob (Jack) Trombka (b.1930) was instrumental in analyzing  $\gamma$ -ray and x-ray measurements of the moon obtained during the Apollo missions. He is the principal investigator for the  $\gamma$ -ray and x-ray instruments on the NEAR mission to (433) Eros.

**(4991) Hansuess = 1981 EU<sub>29</sub>**

Discovered 1981 Mar. 1 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

Hans Suess (1909–1993) was one of the pioneers of cosmochemistry. He proposed that the relative abundance of each element depends on its mass and that patterns in elemental abundances were caused by a combination of nuclear properties and the mechanisms by which heavy elements are created in stars.

**(5046) Carletonmoore = 1981 DQ**

Discovered 1981 Feb. 28 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

A professor of chemistry and geology at Arizona State University, Carleton Moore (b.1932) performed carbon, nitrogen, and sulphur analyses on Apollo lunar samples. Carleton is the founding director of the Center for Meteorite Studies at Arizona State University and was editor of the journal *Meteoritics* for 20 years.

**(5047) Zanda = 1981 EO<sub>42</sub>**

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

Brigitte Zanda (b.1958) is a meteorite curator at the Museum National d'Histoire Naturelle in Paris and an adjunct faculty member at Rutgers University. Her research on the formation of chondrules has placed important constraints on chemical and physical processes operating in the solar nebula.

**(5223) McSween = 1981 EX<sub>6</sub>**

Discovered 1981 Mar. 6 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

A professor at the University of Tennessee, Harry (Hap) McSween Jr. (b.1945) has specialized in studies of martian meteorites, and he has led the way in integrating petrologic data with results from missions to Mars. He also makes planetary science understandable to the public with his numerous books.

**(5281) Lindstrom = 1988 SO<sub>1</sub>**

Discovered 1988 Sept. 6 by S. J. Bus at Cerro Tololo Interamerican Observatory.

Marilyn Lindstrom (b. 1946) is curator of the U.S. Antarctic meteorite collection at NASA's Johnson Space Center. In addition to serving the scientific community in this important role, she has also been active in geochemical research, education and public outreach efforts related to meteorites.

**(6620) Peregrina = 1973 UC**

Discovered 1973 Oct. 25 by P. Wild at Zimmerwald.

Peregrina is a foreign lady, especially one on pilgrimage. The minor planets might be compared to an immense, multifarious crowd of perpetual pilgrims, and this one fancied to be an especially earnest, devout member.

**(7081) Ludibunda = 1987 QF<sub>7</sub>**

Discovered 1987 Aug. 30 by P. Wild at Zimmerwald.

From the Latin *ludibundus*, meaning merry or joyful, Ludibunda is a frolicsome, playful woman, on the same pilgrimage as (6620) Peregrina, but of strongly contrasting temper.

**(7813) Anderserikson = 1985 UF<sub>3</sub>**

Discovered 1985 Oct. 16 by C.-I. Lagerkvist at Kvistaberg.

Anders Erikson (b. 1965) studied minor-planet spin vectors in Uppsala and at the Institute of Planetary Exploration in Berlin. The discoverer has had a long and fruitful collaboration with him and is also grateful for his assistance during numerous trips to Berlin.

**(8050) Beishida = 1996 ST**

Discovered 1996 Sept. 18 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Beishida, the Beijing Normal University, is one of the earliest well-known Chinese universities. Founded in 1902, it is an important center for scientific research and the training of excellent teachers and other professionals.

**(8061) Gaudium = 1975 UF**

Discovered 1975 Oct. 27 by P. Wild at Zimmerwald.

Latin for joy, pleasure and delight, Gaudium is designed to compensate the gloom of (5708) Melancholia.

**(8150) Kaluga = 1985 QL<sub>4</sub>**

Discovered 1985 Aug. 24 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Kaluga, a town in the Russian Federation and the focus of the Kalugian region, is a prominent industrial and cultural center. Founded in 1371, the town is much recorded in the history of Russia. The Tsiolkovsky Museum of Cosmonautics and one of the oldest theaters in Russia are located there.

**(8251) Isogai = 1980 VA**

Discovered 1980 Nov. 8 by T. Furuta at Tokai.

Rensuke Isogai (b. 1941), a high-school classmate of the discoverer, is an electrical engineer and amateur astronomer. He influenced the discoverer in astronomy, who began to observe stars with a telescope borrowed from him.

**(8322) Kononovich = 1978 RL<sub>1</sub>**

Discovered 1978 Sept. 5 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Aleksandr Konstantinovich Kononovich (1850–1910) was a professor at Novorossisk University and head of the Odessa Astronomical Observatory for many years. A pioneer in astrophysics, he is known for his photometric observations of the planets, photographic observations of the Sun and research on solar prominences.

**(8331) Dawkins = 1982 KK<sub>1</sub>**

Discovered 1982 May 27 by C. S. Shoemaker and S. J. Bus at Palomar.

Richard Dawkins (b. 1941), chaired professor at Oxford University, is the author of the seminal work *The Selfish Gene* (1976) and other best-selling books on science and evolution. His novel concept of the ethology of genes revolutionized the study of evolution and animal behavior. He is the husband of actress Lalla Ward.

**(8339) Kosovichia = 1985 RM<sub>6</sub>**

Discovered 1985 Sept. 15 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Aleksandr Grigorievich Kosovichev (b. 1953), solar physicist and helioseismologist, has worked at the Crimean Astrophysical Observatory and at Stanford University. The naming also honors his wife, Tatiana Vladimirovna Kosovicheva, a doctor who worked in the Crimean Astrophysical Observatory's medical office.

**(8347) Lallaward = 1987 HK**

Discovered 1987 Apr. 21 by C. S. Shoemaker and E. M. Shoemaker at Palomar.

Lalla Ward (b. 1951) is a British stage, film and TV actress and artist. She played Ophelia in the BBC TV production of *Hamlet* (1980) and is best known for her work as Romana, a companion of "Dr. Who" in the British series of the same name. She is the wife of writer Richard Dawkins.

**(8446) Tazieff = 1973 SB<sub>6</sub>**

Discovered 1973 Sept. 28 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Garun Tazieff (Taziev; 1914–1998), Polish-born Belgian geologist, volcanologist and writer, was the author of books and films about volcanoes and earthquakes. An outstanding connoisseur of volcanoes, he was one of the best popularizers of earth science.

**(8531) Mineosaito = 1992 WX<sub>2</sub>**

Discovered 1992 Nov. 16 by K. Endate and K. Watanabe at Kitami.

Mineo Saito (1952–2000) was the founder and an active leader of the Ohkuma Astronomical Club in Kakuda City, Miyagi prefecture. He was devoted to the popularization of astronomical activities.

**(8546) Kenmotsu = 1994 AH<sub>3</sub>**

Discovered 1994 Jan. 13 by K. Endate and K. Watanabe at Kitami.

Kunio Kenmotsu (b. 1932) has been director of the Kurashiki Observatory since 1990. For many years he was an astronomer in the Hydrographic Department of the Maritime Safety Agency of Japan. He also served successively as director of its hydrographic stations in Shimosato, Kurashiki and Bisei from 1976 to 1989.

**(8548) Sumizihara = 1994 ER<sub>3</sub>**

Discovered 1994 Mar. 14 by K. Endate and K. Watanabe at Kitami.

Sumizi Hara (1878–1968) provided the means for establishing the Kurashiki Observatory in 1926 and for operating it thereafter. The observatory is open to the general public and was the first of its kind in Japan. Hara was awarded many prizes, including "Honorary Citizen of Kurashiki City".

**(8553) Bradsmith = 1995 HG**

Discovered 1995 Apr. 20 by K. Endate and K. Watanabe at Kitami.

Bradford A. Smith (b. 1931) is an American astronomer who served as the principal investigator of the Imaging Experiment Team of the Voyager missions to the outer planets and has also contributed to many other NASA missions. He has also served as president of IAU Commission 16.

**(8560) Tsubaki = 1995 SD<sub>5</sub>**

Discovered 1995 Sept. 20 by K. Endate and K. Watanabe at Kitami.

Takio Tsubaki (1935–1999) was a solar physicist concerned particularly with the observational study of the solar corona and prominences. He served as a dean at Shiga University, on the board of the Astronomical Society of Japan and on the Solar Physics Committee at the National Astronomical Observatory.

**(8577) Choseikomori = 1996 VX<sub>8</sub>**

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

Chosei Komori (b.1935) is a planetary geologist who works as a leader of the Planetary Geological Society of Japan. He is now studying the surface geology of the terrestrial planets and the evolution of the solar system. He is also known as a popularizer of planetary science.

**(8635) Yuriosipov = 1985 PG<sub>2</sub>**

Discovered 1985 Aug. 13 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Yurij Aleksandrovich Osipov (b.1965) is a physician at the Bakhchisaraj regional hospital in the Crimea.

**(8722) Schirra = 1996 QU<sub>1</sub>**

Discovered 1996 Aug. 19 by R. G. Davis at the Granville Observatory.

Walter M. Schirra, Jr. (b.1923), the only astronaut to command Mercury, Gemini and Apollo spacecraft, performed missions enabling the success of the manned lunar landings. His mastery of the celestial sphere and awareness of his orientation within it distinguish Schirra as a practical astronomer and master astronaut.

**(8781) Yurka = 1976 GA<sub>2</sub>**

Discovered 1976 Apr. 1 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Yuri Sergeevich Efimov (b.1935) is an astrophysicist who has worked at the Crimean Astrophysical Observatory since 1958. He is a prominent expert in stellar photometry and polarimetry and is well known for his research on peculiar stars and extragalactic objects.

**(8785) Boltwood = 1978 RR<sub>1</sub>**

Discovered 1978 Sept. 5 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Paul Boltwood (b.1943) is a Canadian specialist in computer systems and outstanding amateur astronomer. He monitored the peculiar object OJ 287 for some two years. He also obtained deep-sky CCD images with limiting magnitude 24.5 using a home-built 0.4-m reflector.

**(8839) Novichkova = 1989 UB<sub>8</sub>**

Discovered 1989 Oct. 24 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Vera Stepanovna Novichkova (b.1937), doctor and hematologist, is the founder and head of the blood-transfusion station at Bakhchisaraj regional hospital in the Crimea.

**(8898) Linnaea = 1995 SL<sub>5</sub>**

Discovered 1995 Sept. 29 by G. Emerson at Golden.

Linnaea Barton Keammerer (1980–1992) died in an accidental shooting. An avid student of nature, she was told while observing comet 1P/Halley in 1986 that she would almost certainly live to see it again. Linnaea enjoyed writing poetry: “One star silent in the sky, Twinkling, yet I don’t know why.”

**(8940) Yakushimaru = 1997 BA<sub>2</sub>**

Discovered 1997 Jan. 29 by T. Kobayashi at Oizumi.

Hiroko Yakushimaru (b.1964) is a Japanese actress and singer. Since her debut in 1978 on *Yasei no Shomei*, she has appeared in 23 movies and seven TV dramas and has released more than 20 records. The number 8940 can be read as “Ya-Ku-Shi-Maru” in Japanese. The name was suggested by A. Nakamura.

**(8952) ODAS = 1998 EG<sub>2</sub>**

Discovered 1998 Mar. 2 by the OCA-DLR Asteroid Survey at Caussols.

From Oct. 1996 to Mar. 1999 the OCA-DLR Asteroid Survey operated the first and only quasiautomatic European near-earth-asteroid search program. In the course of this survey five NEAs, ten Mars-crossers and a comet were discovered. ODAS also produced more than 44 000 astrometric positions of 2200 new minor planets.

**(8984) Derevyanko = 1977 QD<sub>3</sub>**

Discovered 1977 Aug. 22 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Cinema-artist Tatiana Timofeevna Derevyanko is director of the Dovzhenko Museum at the Dovzhenko Film Studio in Kiev.

**(9023) Mnethus = 1988 RG<sub>1</sub>**

Discovered 1988 Sept. 10 by C. S. Shoemaker and E. M. Shoemaker at Palomar.

Mnethus was a Trojan who went to what is present-day Italy to fight the Latins as an officer of Aeneas. He distinguished himself at the funeral games for Anchises by competing in both the sailing and the archery contests, winning second place in sailing.

**(9033) Kawane = 1990 AD**

Discovered 1990 Jan. 4 by M. Akiyama and T. Furuta at Susono.

Kawane is a small town about 230 km west of Tokyo, located on the west bank of the Ohi river and has some wonderful sights. Green tea, known as “Kawane-cha”, is grown there.

**(9277) Togashi = 1980 TT<sub>3</sub>**

Discovered 1980 Oct. 9 by C. S. Shoemaker and E. M. Shoemaker at Palomar.

Tom Togashi (1937–2000) was a pioneering filmmaker whose stunning television documentaries included a Galactic Odyssey series and specials on solar eclipses, the aurora borealis, and the search for life in the universe. His goal for the 21st century was to inspire children with his passion for the wonders of outer space.

**(9848) Yugra = 1990 QX<sub>17</sub>**

Discovered 1990 Aug. 26 by L. V. Zhuravleva at the Crimean Astrophysical Observatory.

Yugra is the historical name, used in Russia in medieval times, of the vast area to the east of the Northern Urals, extending to the river Taz. Inhabited then by the Hanty and Mansi tribes, it is now part of the territory of the Hanty-Mansi autonomous area within the Russian Federation.

**(10050) Rayman = 1987 MA<sub>1</sub>**

Discovered 1987 June 28 by E. F. Helin at Palomar.

Marc D. Rayman (b.1956) has been devoted to the exploration of space since childhood and is exceptionally effective at communicating this topic to the public. At the Jet Propulsion Laboratory he was instrumental in the success of Deep Space 1 as chief mission engineer.

**(10210) Nathues = 1997 QV<sub>3</sub>**

Discovered 1997 Aug. 30 by the OCA-DLR Asteroid Survey at Caussols.

German geophysicist Andreas Nathues (b. 1967) studied the physical properties of the Eunomia family of minor planets using innovative observing and data-analysis techniques at the German Aerospace Center (DLR), Berlin.

**(10405) Yoshiaki = 1997 WT<sub>23</sub>**

Discovered 1997 Nov. 19 by T. Okuni at Nanyo.

Yoshiaki Mogami (1546–1614) was a military commander during the Japanese feudal period. He was on the side of the Tokugawas, and in the decisive battle of 1600 he fought against Kanetugu Naoe, the lord of Yonesawa (a part of the present Yamagata prefecture), who stood by the Toyotomis.

**(10413) Pansecchi = 1997 YG<sub>20</sub>**

Discovered 1997 Dec. 29 at Osservatorio San Vittore.

Luigi Pansecchi (b. 1940) has made fine studies of cometary tails. As a member of the Gruppo Astrofili Giovanni e Angelo Bernasconi and of the Italian Astronomical Society, he collaborated with the Osservatorio San Vittore in Bologna and with the Osservatorio Astronomico di Brera in Milan.

**(10425) Landfermann = 1999 BE<sub>6</sub>**

Discovered 1999 Jan. 20 by ODAS at Caussols.

Dietrich Wilhelm Landfermann (1800–1882) emphasized classical languages as a base for humanism in science and society, notably at the Landfermann-Gymnasium in Duisburg, which he headed during 1835–1841. The name was suggested by M. Hoffmann on the 200th anniversary of Landfermann's birth.

**(10583) Kanetugu = 1995 WC<sub>4</sub>**

Discovered 1995 Nov. 21 by T. Okuni at Nanyo.

Kanetugu Naoe (1560–1619) was a military commander during the Japanese feudal period. He was on the side of the Toyotomis, and in the decisive battle of 1600 he fought against Yoshiaki Mogami, the lord of Yamagata (a part of present Yamagata Prefecture), who stood by the Tokugawas.

**(10591) Caverni = 1996 PD<sub>3</sub>**

Discovered 1996 Aug. 13 by M. Tombelli and G. Forti at Montelupo.

Raffaello Caverni (1837–1900), a priest born in Montelupo, was also an amateur scientist. He wrote many books, the most important of them being *Storia del Metodo Sperimentale in Italia*, for which he received the award of the Royal Institute of Venice on 1890 May 25.

**(10850) Denso = 1995 BU<sub>4</sub>**

Discovered 1995 Jan. 26 by A. Nakamura at Kuma Kogen.

Denso Corporation, for which the discoverer worked for eight years as an electrical engineer, is the largest manufacturer of automobile parts in Japan.

**(11120) Pancaldi = 1996 QD<sub>1</sub>**

Discovered 1996 Aug. 17 at Osservatorio San Vittore.

Italian amateur astronomer Enelio Pancaldi (b. 1947) was an observer of Jupiter, Saturn and Mars at the Osservatorio San Vittore from 1976 to 1980 during the patrol program organized by the Lowell Observatory for the study of planetary surfaces. A nuclear engineer by profession, he lives at Budrio, near Bologna.

**(11122) Eliscolombini = 1996 RQ<sub>2</sub>**

Discovered 1996 Sept. 13 at Osservatorio San Vittore.

Elis Colombini (b. 1957) is the editor of publications on the local history of his birthplace of Modena and the surrounding province. Elis is the brother of Ermete Colombini, a codiscoverer of this minor planet.

**(11128) Ostravia = 1996 VP**

Discovered 1996 Nov. 3 by J. Tichá and M. Tichý at Kleť.

Ostrava (Ostravia in Latin) has been considered the center of the mining and steel industries in northern Moravia since the nineteenth century. In recent years Ostrava has turned into a commercial, educational and cultural site. The city has also been home to an observatory and planetarium since 1980.

**(11150) Bragg = 1997 YG<sub>1</sub>**

Discovered 1997 Dec. 21 by F. B. Zoltowski at Woomera.

William Lawrence Bragg (1890–1971), born in Adelaide, shared the 1915 Nobel Prize in physics with his father, W. H. Bragg. W. L. Bragg's work in x-ray diffraction led to techniques used to reveal the structure of molecules such as DNA and proteins.

**(11195) Woomera = 1999 AY<sub>22</sub>**

Discovered 1999 Jan. 15 by F. B. Zoltowski at Woomera.

Woomera, Aboriginal for spear thrower, is a village in the Australian outback founded in 1947 as a rocket rangehead. Woomera and its range played a key role in Australia's space program, culminating in the orbital launch of WRESAT in 1967. It was home to the discoverer for twelve years.

**(11212) Tebbutt = 1999 HS**

Discovered 1999 Apr. 18 by F. B. Zoltowski at Woomera.

John Tebbutt (1834–1916) was an Australian astronomer whose observations included many comets and the 1874 transit of Venus. His name is particularly associated with the great comets of 1861 and 1881. He was the first president of the New South Wales branch of the British Astronomical Association.

**(11356) Chuckjones = 1997 YA**

Discovered 1997 Dec. 18 by F. B. Zoltowski at Woomera.

Charles M. Jones (b. 1912) is an animator and director known to many as the definitive Warner Brothers cartoon director. During his ongoing career, which spans over seven decades, he has created such memorable characters as Marvin the Martian, Pepé Le Pew and the Road Runner.

**(11360) Formigine = 1998 DL<sub>14</sub>**

Discovered 1998 Feb. 24 at Osservatorio San Vittore.

Formigine is a small Italian town located 10 km south of Modena. Interesting sights there include a medieval castle with boundary walls and a drawbridge. Formigine is the birthplace of the wife of Ermete Colombini, a codiscoverer of this minor planet, and since 1986 it has also been their new residence.

**(11622) Samuele = 1996 RD<sub>4</sub>**

Discovered 1996 Sept. 9 by A. Boattini and L. Tesi at San Marcello Pistoiese.

Samuele Marconi (b. 1975) is a very active amateur astronomer at the San Marcello Observatory who spends much of his time giving public lectures on astronomy.

**(12033) Anselmo = 1997 BD<sub>9</sub>**

Discovered 1997 Jan. 31 by M. Tombelli and U. Munari at Cima Ekar.

Anselmo Antonini (b. 1946) is an amateur astronomer in the Montelupo Group.

**(12044) Fabbri = 1997 FU**

Discovered 1997 Mar. 29 by M. Tombelli and G. Forti at Montelupo.

Luciano Fabbri (b. 1945) is an amateur astronomer in the Montelupo Group.

**(12242) Koon = 1988 QY**

Discovered 1988 Aug. 18 by C. S. Shoemaker and E. M. Shoemaker at Palomar.

Koon, a notable fighter, was the eldest son of Antenor. Grieved by the death of his brother Iphidamas at the hands of Agamemnon, he fought and wounded him but was in turn beheaded by Agamemnon.

**(12399) Bartolini = 1995 OD**

Discovered 1995 July 19 by A. Boattini and L. Tesi at San Marcello Pistoiese.

Corrado Bartolini (b. 1941), professor at the University of Bologna since 1970, has focused his interests on contact spectrophotometric binaries, RR Lyrae and magnetic stars and x-ray binaries. With colleagues, he was successful in 1997 in observing the first optical counterpart of a  $\gamma$ -ray burst.

**(12433) Barbieri = 1996 AF<sub>4</sub>**

Discovered 1996 Jan. 15 by M. Tombelli and U. Munari at Cima Ekar.

Giovanni Barbieri (b. 1941) is an amateur astronomer in the Montelupo Group.

**(1294) Doughamilton = 1998 DH<sub>11</sub>**

Discovered 1998 Feb. 25 by JPL/GEODSS NEAT at Haleakala.

Douglas P. Hamilton (b. 1/1/1966) is a dynamicist specializing in small particles in the solar system. His major contributions involve motions and resonances when several different forces are involved, work for which he received the American Astronomical Society's Urey prize in 1999. The name was suggested by M. A'Hearn.

**(12714) Alkimos = 1991 GX<sub>1</sub>**

Discovered 1991 Apr. 15 by C. S. Shoemaker and E. M. Shoemaker at Palomar.

Akimos was a son of Ares. Together with Automedon, he was in charge of Achilles' horses. After the death of Patroclus, they were the most honored of the companions of Achilles.

**(12926) Brianmason = 1999 SO<sub>9</sub>**

Discovered 1999 Sept. 27 by J. L. Schiff and C. J. Schiff at Takapuna.

Renowned New Zealand-born meteoriticist Brian Mason (b. 1917) worked at the American Museum of Natural History and the Smithsonian Institution. His research included the classification of Antarctic meteorites. The minerals brianite and stenhuggerite (Swedish for stone mason) are named for him.

**(12932) Conedera = 1999 TC<sub>12</sub>**

Discovered 1999 Oct. 10 by S. Sposetti at Gnosca.

Marina Conedera (b. 1962) is the wife of the discoverer.

**(13062) Podarkes = 1991 HN**

Discovered 1991 Apr. 19 by C. S. Shoemaker and E. M. Shoemaker at Palomar.

Podarkes, son of Ares and full brother of Protesilaos, led the Achaians and took 40 black ships to the Trojan war.

**(13147) Foglia = 1995 DZ<sub>11</sub>**

Discovered 1995 Feb. 24 by M. Tombelli at Cima Ekar.

In Milan, amateur astronomer Sergio Foglia (b. 1972) has observed minor planets, comets, variable stars and occultations by the moon and minor planets. Since 1996 he has been the Minor Planet Section recorder of the Unione Astrofili Italiani.

**(13740) Lastrucci = 1998 SL<sub>2</sub>**

Discovered 1998 Sept. 18 by M. Tombelli and E. Masotti at Montelupo.

Liliana Lastrucci (b. 1948) is wife of the second discoverer.

**(14097) Capdepera = 1997 PU<sub>4</sub>**

Discovered 1997 Aug. 11 by À. López and R. Pacheco at Mallorca.

Capdepera, a village in eastern Mallorca where the first discoverer lived for many years, is celebrating its 700th anniversary in 2000. The village contains a well-preserved castle from the 14th century and a beautiful beach.

**(14309) Defoy = A908 SA**

Discovered 1908 Sept. 22 by J. Palisa at Vienna.

Until 1580 the ancestors of the Defoy family were landowners at Foy, near Bastogne, now in Belgium. This minor planet specifically honors Ilse Defoy (1892–1947), wife of Christoph Schubart and mother of Heidelberg astronomer Joachim Schubart, who found the identifications involving this minor planet.

**(14367) Hippokrates = 1988 RY<sub>3</sub>**

Discovered 1988 Sept. 8 by F. Börngen at Tautenburg.

The Greek physician Hippokrates (460?–375 B.C.) is regarded as the founder of medicine as an empirical science. In antiquity and the Middle Ages, the Hippocratic oath bound the physicians to an unreserved preservation of human life, still today the basis of medical professional ethics.

**(14486) Tuscia = 1994 TE**

Discovered 1994 Oct. 4 by L. Tesi and G. Cattani at San Marcello Pistoiese.

Tuscia is the ancient name given to Tuscany, the central Italian region once inhabited by the Etruscans, and located between the Tyrrhenian Sea and the Arno and Tiber rivers.

**(14568) Zanotta = 1998 OK**

Discovered 1998 July 19 by A. Boattini and M. Tombelli at San Marcello Pistoiese.

After early activity on variable stars, Milanese amateur astronomer Mauro Vittorio Zanotta (b. 1963) developed a keen interest in hunting for comets. His efforts paid off when he codiscovered comet C/1991 Y1 (Zanotta-Brewington).

**(14632) Flensburg = 1998 VY<sub>33</sub>**

Discovered 1998 Nov. 11 by N. Ehring at Bornheim.

Situated at the end of the beautiful firth, Flensburg is the most northern city in Germany. It is a bilingual town at the Danish border and hometown of the discoverer, who lived there for more than 20 years.

**(14826) Nicollier = 1985 SC<sub>1</sub>**

Discovered 1985 Sept. 16 by P. Wild at Zimmerwald.

Born in Vevey, Switzerland, Claude Nicollier (b. 1944) studied astronomy in Geneva and became the first European mission specialist of NASA. Astronomers owe him special thanks for his decisive part in the success of both servicing missions on the Hubble Space Telescope.

**(14831) Gentileschi = 1987 BS<sub>1</sub>**

Discovered 1987 Jan. 22 by E. W. Elst at the European Southern Observatory.

Artemisia Gentileschi (1593–1652), the only daughter of the Italian painter Orazio Gentileschi, became famous herself through paintings such as “Self-Portrait as the Allegory of Painting” and frieze “Inclinazione”. Her paintings of powerful women struggling against male dominance were not appreciated by the male aristocracy.

**(14832) Alechinsky = 1987 QC<sub>3</sub>**

Discovered 1987 Aug. 27 by E. W. Elst at the European Southern Observatory.

Belgian painter Pierre Alechinsky (b.1927) founded the expressionist movement “CoBrA”, a name linking the cities of Copenhagen, Brussels and Amsterdam. One of the leading artists in mid-century Europe, he is well known for his treatment of colors (“Walking Blue”), graphic humor and versatility in media and techniques.

**(14873) Shoyo = 1990 UQ<sub>2</sub>**

Discovered 1990 Oct. 28 by K. Kawanisi and M. Sugano at Minami-oda.

Shoyo Senior High School in Takasago has departments in home economics, commercial studies and general education. Shoyo means the evergreen pine tree and the glorious sun. To be spirited, progressive, autonomous and cooperative is the motto of this comprehensive school, of which the second discoverer is a graduate.

**(14902) Miyairi = 1993 BE<sub>2</sub>**

Discovered 1993 Jan. 17 by Y. Kushida and O. Muramatsu at the Yatsugatake South Base Observatory.

Keinosuke Miyairi (1865–1946), of Kyushu Imperial University, a pioneer in epidemiology, discovered that the snail now called “Miyairi-gai” is an intermediate host for transmission of *shistosoma japonicum* infection. This enabled schistosomiasis to be controlled. The name was suggested by S. Murayama and O. Muramatsu.

**(14939) Norikura = 1995 DG<sub>1</sub>**

Discovered 1995 Feb. 21 by A. Nakamura at Kuma Kogen.

Mt. Norikura (3026 m high), part of the northern Japan Alps, is an extinct volcano, located at the boundary of Nagano and Gifu prefectures. Its ninth stage, “Tatamidaira”, Japan’s highest site reachable by car, is visited by many astrophotographers. The Norikura Solar Observatory is located at one of its peaks.

**(14965) Bonk = 1997 KC**

Discovered 1997 May 24 by N. Ehrling at Bornheim.

Werner Bonk (b.1923) is a German engineer and amateur astronomer who has measured several hundred positions of minor planets. He introduced the discoverer to astrometry and provided him with assistance and encouragement for many years.

**(14967) Madrid = 1997 PF<sub>4</sub>**

Discovered 1997 Aug. 6 by À. López and R. Pacheco at Mallorca.

Madrid, capital city of Spain, is the birthplace and hometown of the second discoverer.

**(14969) Willacather = 1997 QC<sub>1</sub>**

Discovered 1997 Aug. 28 by R. Linderholm at Lime Creek.

Born in Virginia, the novelist and Pulitzer Prize-winner Willa Cather (1873–1947) moved to Nebraska in 1883. Her early life on the prairie and sympathy for the immigrant pioneer influenced her mature years and shows in her best-known novels, *My Antonia* and *Death Comes for the Archbishop*.

**(14977) Bressler = 1997 SE<sub>4</sub>**

Discovered 1997 Sept. 26 by E. Meyer at the Davidschlag Observatory at Linz.

Austrian amateur astronomer Martin Bressler (b.1912) started his astrometric program on minor planets in 1982. Always eager to learn new techniques, he enthusiastically switched from photographic emulsions to a CCD in 1993.

**(15072) Landolt = 1999 BS<sub>12</sub>**

Discovered 1999 Jan. 25 by W. R. Cooney, Jr. and P. M. Motl at Baton Rouge.

Through four decades of meticulous observations, Arlo U. Landolt (b.1935) has established the widely used Landolt Photometric Standard Stars. Professor at Louisiana State University, he was secretary of the American Astronomical Society during 1980–1989 and since 1995, the year he received its Van Biesbroeck Award.

**(15115) Yvonne = 2000 DA<sub>7</sub>**

Discovered 2000 Feb. 29 by J. M. Roe at Oaxaca.

Yvonne Josephine (Rump) Roe (b.1935) is the wife of the discoverer.

**(15120) Mariafélix = 2000 ES**

Discovered 2000 Mar. 4 by J. J. Gómez at Marzuquera.

Maria Jesús Albors Félix (b.1965) is the wife of the discoverer. This naming is in acknowledgment of her support, patience and understanding in accommodating the discoverer’s work in observing minor planets.

**(15262) Abderhalden = 1990 TG<sub>4</sub>**

Discovered 1990 Oct. 12 by F. Börngen and L. D. Schmadel at Tautenburg.

Swiss physiologist Emil Abderhalden (1877–1950) lectured at the University of Halle during 1911–1945. He contributed more than 1000 articles to the physiologic chemistry of metabolism, created the basis of modern dietetics, discovered the defensive enzymes against exogenous proteins and promoted social welfare.

**(15264) Delbrück = 1990 TU<sub>11</sub>**

Discovered 1990 Oct. 11 by F. Börngen and L. D. Schmadel at Tautenburg.

German-born biophysicist Max Delbrück (1906–1981), who moved to the U.S. in 1937, was a cofounder of modern molecular biology and virus research. In 1969 he was a co-recipient of the Nobel Prize in medicine for the discovery of the genetic recombination of bacteriophages. The name was suggested by the first discoverer.

**(15282) Franzmarc = 1991 RX<sub>4</sub>**

Discovered 1991 Sept. 13 by F. Börngen and L. D. Schmadel at Tautenburg.

Expressionist painter and graphic artist Franz Marc (1880–1916) created an individual style, especially with animal representations. He invented geometrized and rhythmically arranged image composition. He co-founded the group “Der blaue Reiter” in Munich in 1911. The name was suggested by the first discoverer.

**(15342) Assisi = 1994 GD<sub>10</sub>**

Discovered 1994 Apr. 3 by F. Börngen at Tautenburg.

Assisi is the birthplace of St. Francis (1181?–1226; St. Francis, originally Giovanni Bernardone). He founded the first begging order. The Franciscans are bound to serve and preach worldwide, living in poverty and penance. They wandered barefoot, clothed in a brown cowled habit and white cord.

**(15346) Bonifatius = 1994 RT<sub>11</sub>**

Discovered 1994 Sept. 2 by F. Börngen at Tautenburg.

Anglo-Saxon Benedictine monk Bonifatius (674?–754; Boniface, originally Wynfrith) was sent as a missionary to the Teutons. He christianized Frisians, Thuringians and Hessians, established numerous bishoprics and became “Apostle of Germany”. Slain by the heathen Frisians, he was interred in Fulda and later sanctified.

**(15350) Naganuma = 1994 VB<sub>2</sub>**

Discovered 1994 Nov. 3 by Y. Kushida and O. Muramatsu at the Yatsugatake South Base Observatory.

Naganuma, Hokkaido, has for many years promoted the arts at the “Artists Atelier Village”, with more than 20 workshops. The Naganuma Library has sponsored an exhibition of cloisonne works by N. Iizawa to commemorate the 250th anniversary of the birth of Caroline Herschel. The name was suggested by S. Kimura.

**(15370) Kanchi = 1996 NW**

Discovered 1996 July 15 by A. Nakamura at Kuma Kogen.

Kanji Nagao, whose nickname is Kanchi, is the hero in *Tokyo Love Story*, originally a cartoon written by Fumi Saimon, and broadcast as a TV drama in 1991.

**(15381) Spadolini = 1997 RB<sub>1</sub>**

Discovered 1997 Sept. 1 by V. Goretti at Pianoro.

Mauro (b.1941) and Barbara (b.1944) Spadolini, long-standing friends of the discoverer, are dedicated secondary-school teachers who believe in cross-curricular work and in developing the human mind by arousing passion for knowledge and exploration.

**(15390) Znojil = 1997 TJ<sub>10</sub>**

Discovered 1997 Oct. 6 by P. Pravec at Ondřejov.

Vladimír Znojil (b.1941) developed methods for investigating meteor showers by using large binoculars at several observing stations. He led such studies from the 1960s. More recently he has organized visual observations of comets in the Czech Republic and leads the Czech Society for Interplanetary Matter.

**(15395) Růkl = 1997 UV**

Discovered 1997 Oct. 21 by P. Pravec at Ondřejov.

Czech astronomer Antonín Růkl (b.1932) was a master of mapping. His precise-retouch lunar maps eliminated the disadvantages of photographs, and he was the first to compile images of the moon from different viewing angles into composite maps. He wrote and illustrated a number of popular astronomy books.

**(15396) Howardmoore = 1997 UG<sub>2</sub>**

Discovered 1997 Oct. 24 by P. G. Comba at Prescott.

Howard Moore (b.1943) of Chino Valley, Arizona, is an amateur astronomer and accomplished optician who made the 0.25-m telescope with which this minor planet was discovered.

**(15397) Ksoari = 1997 UK<sub>7</sub>**

Discovered 1997 Oct. 27 by the Starkenburg Observatory at Heppenheim.

The KSO-ARI Minor Planet Surveys were conducted by F. Börngen (Karl-Schwarzschild-Observatorium, Tautenburg) and L. D. Schmadel (Astronomisches Rechen-Institut, Heidelberg) with the Tautenburg Schmidt Telescope between 1990 and 1993. The surveys resulted in 501 discoveries of minor planets.

**(15415) Rika = 1998 CA<sub>1</sub>**

Discovered 1998 Feb. 4 by A. Nakamura at Kuma Kogen.

Rika Akana, girlfriend of Kanchi, is the heroine in *Tokyo Love Story*. Some stories of the TV drama were filmed on location in Kuma Town, where this minor planet was discovered.

**(15425) Welzl = 1998 SV<sub>26</sub>**

Discovered 1998 Sept. 24 by P. Pravec at Ondřejov.

Jan Welzl (1868–1948), Czech arctic explorer, trader, hunter, inventor, craftsman and adventurer, lived in Novosibirskie Ostrova for three decades. He became internationally known through the books written about his life, such as *Thirty Years in Golden North*. He authored the manuscript *Trip around the World 1893–1898*.

**(15460) Manca = 1998 YD<sub>10</sub>**

Discovered 1998 Dec. 25 by A. Boattini and L. Tesi at San Marcello Pistoiese.

Francesco Manca (b.1966), an amateur astronomer at the Sormano Astronomical Observatory, has made several observations of potentially hazardous asteroids, computing for each of them future and past close encounters with our planet.

**(15710) Böcklin = 1989 AV<sub>6</sub>**

Discovered 1989 Jan. 11 by F. Börngen at Tautenburg.

Swiss painter Arnold Böcklin (1827–1901) created landscapes and figures in a richly colored monumental-pathetic style. Frequently, his subjects are from classical mythology and are animated by a grand imagination.

**(15724) Zille = 1990 TW<sub>3</sub>**

Discovered 1990 Oct. 12 by F. Börngen and L. D. Schmadel at Tautenburg.

Graphic artist and photographer Heinrich Zille (1858–1929) portrayed the milieu of ordinary Berliners in the streets, working-class quarters and fairgrounds. His popular pictures appeared in several magazines. His sociocritical illustrations united comedy and tragedy in a unique way. The name was suggested by the first discoverer.

**(15728) Karlmay = 1990 TG<sub>11</sub>**

Discovered 1990 Oct. 11 by F. Börngen and L. D. Schmadel at Tautenburg.

Karl May (1842–1912), Saxonian author of splendid fantasies, began with country stories out of his Erzgebirge home. His fascinating, exotic and colorful adventure novels were placed mostly in North America's Wild West and in the Far East. They became very popular and were translated into more than 25 languages.

**(15762) Rühmann = 1992 SR<sub>24</sub>**

Discovered 1992 Sept. 21 by F. Börngen at Tautenburg.

Heinz Rühmann (1902–1994), German actor, inspired comic, brilliant character performer, stage director and orator, performed in renowned theaters beginning in 1920. He played starring roles brilliantly in more than 100 feature films and in television films from 1968 until he was a very advanced age.

**(15808) Zelter = 1994 GF<sub>10</sub>**

Discovered 1994 Apr. 3 by F. Börngen at Tautenburg.

Composer Carl Friedrich Zelter (1758–1834) set Goethe's poems to music and wrote songs for male choirs. As director of the Berliner “Singakademie” beginning in 1800, he performed in particular the music of Bach. He founded in Berlin the first “Liedertafel”, the prototype for choral societies in cities and towns around the world.

**(15817) Lucianotesi = 1994 QC**

Discovered 1994 Aug. 28 by A. Boattini and M. Tombelli at San Marcello Pistoiese.

Luciano Tesi (b.1931) founded the Amateur Group of the Pistoiese Mountain in 1980. This later led to the construction of the Pian dei Termini Observatory. As director of the station, he has collaborated with the discoverers since 1994 in finding minor planets and following up near-earth objects.

**(15870) Obůrka = 1996 QD**

Discovered 1996 Aug. 16 by P. Pravec at Ondřejov.

Oto Obůrka (1909–1982), professor at Brno University of Technology, founded the Nicholas Copernicus Observatory there and led it for 20 years. He established a program, aimed at young amateurs, for monitoring short-period variable stars. He was an honorary president of the International Union of Amateur Astronomers.

**(15964) Billgray = 1998 DU**

Discovered 1998 Feb. 19 by J. M. Roe at Oaxaca.

Bill Gray (b. 1965) has made several contributions to astrometry, in particular with his Guide series of stargazing software, his Charon astrometry program and his reduction of the GSC 1.1 star catalog to the ACT frame (GSC-ACT).

**(15965) Robertcox = 1998 DU<sub>7</sub>**

Discovered 1998 Feb. 23 by J. M. Roe at Oaxaca.

Robert E. Cox (1917–1989) contributed to amateur telescope making through his long-time editing of “Gleanings for Amateur Telescope Makers” in the magazine *Sky and Telescope*, as well as by devoting much personal time to amateur groups.

**(15992) Cynthia = 1998 YL<sub>4</sub>**

Discovered 1998 Dec. 18 by G. Hug at Farpoint Observatory.

The name Cynthia can be translated to mean “of the moon”. While (15992) is certainly not from the moon, this minor planet was imaged many times with the moon above the horizon in order to achieve an accurate orbit. The name also happens to be that of the discoverer’s life partner.

**(16191) Rubyroe = 2000 AO<sub>205</sub>**

Discovered 2000 Jan. 10 by J. M. Roe at Oaxaca.

Ruby Bell (Neihart) Roe (1943–1996) was the mother of the discoverer’s three children.

**EPIHEMERIDES**

| C/1999 K2 (Ferris) |    |                 |                 |          | Elements MPC 35553 |            |        |       |       |
|--------------------|----|-----------------|-----------------|----------|--------------------|------------|--------|-------|-------|
| Date               | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$                | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
| 2000 10 13         |    | 19 06.78        | +37 19.3        | 6.477    | 6.611              | 93.4       | 8.7    | 18.3  |       |
| 2000 10 23         |    | 19 07.63        | +36 47.0        | 6.607    | 6.653              | 88.3       | 8.6    | 18.3  |       |
| 2000 11 02         |    | 19 09.66        | +36 19.9        | 6.737    | 6.695              | 83.3       | 8.5    | 18.4  |       |
| 2000 11 12         |    | 19 12.70        | +35 59.7        | 6.863    | 6.737              | 78.6       | 8.3    | 18.5  |       |
| 2000 11 22         |    | 19 16.63        | +35 47.5        | 6.984    | 6.780              | 74.1       | 8.1    | 18.5  |       |
| 2000 12 02         |    | 19 21.29        | +35 44.2        | 7.097    | 6.823              | 70.0       | 7.8    | 18.6  |       |
| 2000 12 12         |    | 19 26.55        | +35 50.5        | 7.202    | 6.866              | 66.3       | 7.5    | 18.7  |       |
| 2000 12 22         |    | 19 32.27        | +36 06.8        | 7.296    | 6.910              | 63.3       | 7.3    | 18.7  |       |
| 2001 01 01         |    | 19 38.32        | +36 33.2        | 7.380    | 6.954              | 60.8       | 7.1    | 18.8  |       |
| 2001 01 11         |    | 19 44.57        | +37 09.8        | 7.452    | 6.998              | 59.1       | 6.9    | 18.8  |       |
| 2001 01 21         |    | 19 50.89        | +37 56.5        | 7.513    | 7.043              | 58.1       | 6.8    | 18.9  |       |
| 2001 01 31         |    | 19 57.16        | +38 52.9        | 7.562    | 7.088              | 57.9       | 6.8    | 18.9  |       |
| 2001 02 10         |    | 20 03.25        | +39 58.6        | 7.601    | 7.133              | 58.4       | 6.8    | 18.9  |       |
| 2001 02 20         |    | 20 09.05        | +41 12.9        | 7.629    | 7.179              | 59.6       | 6.8    | 19.0  |       |
| 2001 03 02         |    | 20 14.43        | +42 35.3        | 7.647    | 7.224              | 61.3       | 6.9    | 19.0  |       |
| 2001 03 12         |    | 20 19.25        | +44 04.7        | 7.658    | 7.270              | 63.6       | 7.0    | 19.0  |       |
| 2001 03 22         |    | 20 23.38        | +45 40.2        | 7.661    | 7.317              | 66.2       | 7.2    | 19.1  |       |
| 2001 04 01         |    | 20 26.69        | +47 20.5        | 7.660    | 7.363              | 69.1       | 7.3    | 19.1  |       |
| 2001 04 11         |    | 20 29.01        | +49 04.2        | 7.654    | 7.410              | 72.2       | 7.4    | 19.1  |       |
| 2001 04 21         |    | 20 30.20        | +50 49.8        | 7.647    | 7.457              | 75.4       | 7.5    | 19.1  |       |
| 2001 05 01         |    | 20 30.08        | +52 35.4        | 7.638    | 7.504              | 78.6       | 7.6    | 19.2  |       |
| 2001 05 11         |    | 20 28.51        | +54 18.9        | 7.631    | 7.551              | 81.7       | 7.6    | 19.2  |       |
| 2001 05 21         |    | 20 25.36        | +55 58.3        | 7.626    | 7.598              | 84.7       | 7.6    | 19.2  |       |
| 2001 05 31         |    | 20 20.53        | +57 31.0        | 7.624    | 7.646              | 87.5       | 7.6    | 19.2  |       |
| 2001 06 10         |    | 20 13.99        | +58 54.7        | 7.627    | 7.694              | 90.0       | 7.6    | 19.3  |       |
| 2001 06 20         |    | 20 05.83        | +60 06.9        | 7.635    | 7.742              | 92.3       | 7.5    | 19.3  |       |
| 2001 06 30         |    | 19 56.25        | +61 05.6        | 7.650    | 7.790              | 94.2       | 7.5    | 19.3  |       |

|            |          |          |       |       |      |     |      |  |
|------------|----------|----------|-------|-------|------|-----|------|--|
| 2001 07 10 | 19 45.62 | +61 49.1 | 7.672 | 7.839 | 95.7 | 7.4 | 19.4 |  |
| 2001 07 20 | 19 34.45 | +62 16.5 | 7.700 | 7.887 | 96.9 | 7.3 | 19.4 |  |
| 2001 07 30 | 19 23.30 | +62 27.8 | 7.736 | 7.936 | 97.7 | 7.3 | 19.4 |  |
| 2001 08 09 | 19 12.77 | +62 23.8 | 7.779 | 7.985 | 98.1 | 7.2 | 19.5 |  |
| 2001 08 19 | 19 03.36 | +62 06.5 | 7.829 | 8.034 | 98.1 | 7.2 | 19.5 |  |
| 2001 08 29 | 18 55.47 | +61 38.0 | 7.885 | 8.083 | 97.7 | 7.1 | 19.6 |  |
| 2001 09 08 | 18 49.34 | +61 01.3 | 7.948 | 8.132 | 97.0 | 7.1 | 19.6 |  |
| 2001 09 18 | 18 45.04 | +60 19.0 | 8.015 | 8.181 | 96.0 | 7.0 | 19.6 |  |
| 2001 09 28 | 18 42.59 | +59 34.0 | 8.086 | 8.231 | 94.8 | 7.0 | 19.7 |  |
| 2001 10 08 | 18 41.86 | +58 48.9 | 8.162 | 8.281 | 93.4 | 6.9 | 19.7 |  |
| 2001 10 18 | 18 42.71 | +58 05.7 | 8.240 | 8.330 | 91.8 | 6.9 | 19.8 |  |
| 2001 10 28 | 18 44.99 | +57 26.6 | 8.319 | 8.380 | 90.1 | 6.8 | 19.8 |  |
| 2001 11 07 | 18 48.50 | +56 53.0 | 8.400 | 8.430 | 88.4 | 6.7 | 19.9 |  |
| 2001 11 17 | 18 53.07 | +56 26.3 | 8.481 | 8.480 | 86.6 | 6.7 | 19.9 |  |

**C/2000 OF<sub>8</sub> (Spacewatch)**

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 10 13 |    | 19 18.65        | −18 45.5        | 3.785    | 3.892 | 88.7       | 14.8   | 18.3  |       |
| 2000 10 23 |    | 19 14.28        | −19 41.6        | 3.897    | 3.810 | 77.6       | 14.8   | 18.3  |       |
| 2000 11 02 |    | 19 11.83        | −20 31.0        | 4.003    | 3.728 | 66.9       | 14.2   | 18.2  |       |
| 2000 11 12 |    | 19 11.10        | −21 14.9        | 4.096    | 3.647 | 56.6       | 13.1   | 18.2  |       |
| 2000 11 22 |    | 19 11.82        | −21 54.2        | 4.171    | 3.566 | 46.6       | 11.6   | 18.1  |       |
| 2000 12 02 |    | 19 13.79        | −22 30.0        | 4.223    | 3.485 | 36.9       | 9.8    | 18.1  |       |

## Elements MPC 41159

**P/2000 R2 (LINEAR)**

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 10 13 |    | 21 27.67        | −13 36.5        | 0.642    | 1.431 | 120.0      | 37.2   | 18.6  | 20.3  |
| 2000 10 23 |    | 21 54.81        | −12 16.6        | 0.712    | 1.461 | 116.7      | 37.5   | 18.9  | 20.6  |
| 2000 11 02 |    | 22 21.57        | −10 36.5        | 0.794    | 1.498 | 113.5      | 37.4   | 19.3  | 20.9  |
| 2000 11 12 |    | 22 47.53        | −08 41.4        | 0.889    | 1.541 | 110.1      | 37.1   | 19.6  | 21.2  |
| 2000 11 22 |    | 23 12.45        | −06 36.4        | 0.996    | 1.589 | 106.5      | 36.6   | 20.0  | 21.5  |
| 2000 12 02 |    | 23 36.36        | −04 25.8        | 1.114    | 1.642 | 102.7      | 35.9   | 20.4  | 21.8  |
| 2000 12 12 |    | 23 59.31        | −02 12.9        | 1.244    | 1.699 | 98.7       | 35.0   | 20.8  | 22.1  |
| 2000 12 22 |    | 00 21.41        | −00 00.5        | 1.383    | 1.759 | 94.5       | 33.9   | 21.2  | 22.3  |
| 2001 01 01 |    | 00 42.81        | +02 09.5        | 1.532    | 1.821 | 90.1       | 32.7   | 21.5  | 22.6  |
| 2001 01 11 |    | 01 03.62        | +04 15.6        | 1.688    | 1.885 | 85.5       | 31.3   | 21.9  | 22.9  |

## Elements MPC 41338

**P/2000 S4**

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 10 13 |    | 21 38.05        | −06 50.0        | 1.549    | 2.266 | 124.3      | 21.3   |       | 21.3  |
| 2000 10 23 |    | 21 47.03        | −09 04.2        | 1.647    | 2.266 | 115.9      | 23.3   |       | 21.5  |
| 2000 11 02 |    | 21 58.15        | −10 47.1        | 1.757    | 2.269 | 108.0      | 24.6   |       | 21.6  |
| 2000 11 12 |    | 22 11.08        | −11 59.5        | 1.877    | 2.277 | 100.5      | 25.3   |       | 21.8  |
| 2000 11 22 |    | 22 25.46        | −12 44.2        | 2.005    | 2.288 | 93.5       | 25.5   |       | 22.0  |
| 2000 12 02 |    | 22 41.00        | −13 04.0        | 2.138    | 2.303 | 86.8       | 25.3   |       | 22.1  |
| 2000 12 12 |    | 22 57.40        | −13 02.2        | 2.274    | 2.321 | 80.4       | 24.7   |       | 22.3  |
| 2000 12 22 |    | 23 14.43        | −12 42.4        | 2.411    | 2.344 | 74.2       | 23.8   |       | 22.4  |
| 2001 01 01 |    | 23 31.91        | −12 07.4        | 2.548    | 2.369 | 68.4       | 22.7   |       | 22.5  |

## Elements MPC 41338

**C/1997 J2 (Meunier-Dupouy)**

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 10 13 |    | 23 31.38        | −62 37.1        | 8.250    | 8.593 | 106.9      | 6.4    | 17.4  |       |
| 2000 10 23 |    | 23 25.32        | −62 29.2        | 8.417    | 8.660 | 100.9      | 6.5    | 17.5  |       |
| 2000 11 02 |    | 23 20.57        | −62 11.4        | 8.590    | 8.726 | 94.6       | 6.5    | 17.6  |       |

## Elements MPC 35204

## M.P.C. 41390

|            |          |          |        |        |       |     |      |
|------------|----------|----------|--------|--------|-------|-----|------|
| 2000 11 12 | 23 17.30 | -61 45.7 | 8.767  | 8.793  | 88.3  | 6.5 | 17.7 |
| 2000 11 22 | 23 15.55 | -61 14.1 | 8.942  | 8.859  | 82.0  | 6.3 | 17.7 |
| 2000 12 02 | 23 15.28 | -60 38.3 | 9.115  | 8.925  | 75.9  | 6.1 | 17.8 |
| 2000 12 12 | 23 16.39 | -60 00.2 | 9.280  | 8.991  | 70.0  | 5.9 | 17.9 |
| 2000 12 22 | 23 18.76 | -59 21.1 | 9.436  | 9.057  | 64.6  | 5.6 | 17.9 |
| 2001 01 01 | 23 22.24 | -58 42.4 | 9.580  | 9.123  | 59.6  | 5.3 | 18.0 |
| 2001 01 11 | 23 26.66 | -58 05.2 | 9.710  | 9.188  | 55.4  | 5.1 | 18.1 |
| 2001 01 21 | 23 31.89 | -57 30.4 | 9.825  | 9.254  | 52.1  | 4.8 | 18.1 |
| 2001 01 31 | 23 37.78 | -56 59.0 | 9.924  | 9.319  | 49.9  | 4.6 | 18.2 |
| 2001 02 10 | 23 44.20 | -56 31.6 | 10.005 | 9.385  | 48.8  | 4.5 | 18.2 |
| 2001 02 20 | 23 51.02 | -56 08.9 | 10.070 | 9.450  | 49.0  | 4.5 | 18.3 |
| 2001 03 02 | 23 58.16 | -55 51.5 | 10.117 | 9.515  | 50.4  | 4.6 | 18.3 |
| 2001 03 12 | 00 05.48 | -55 40.0 | 10.148 | 9.580  | 52.8  | 4.7 | 18.3 |
| 2001 03 22 | 00 12.92 | -55 34.7 | 10.164 | 9.645  | 56.2  | 4.9 | 18.4 |
| 2001 04 01 | 00 20.37 | -55 36.1 | 10.167 | 9.710  | 60.2  | 5.1 | 18.4 |
| 2001 04 11 | 00 27.74 | -55 44.5 | 10.158 | 9.774  | 64.9  | 5.3 | 18.4 |
| 2001 04 21 | 00 34.95 | -56 00.0 | 10.140 | 9.839  | 69.8  | 5.5 | 18.5 |
| 2001 05 01 | 00 41.92 | -56 22.7 | 10.114 | 9.903  | 75.1  | 5.6 | 18.5 |
| 2001 05 11 | 00 48.53 | -56 52.7 | 10.085 | 9.967  | 80.5  | 5.7 | 18.5 |
| 2001 05 21 | 00 54.72 | -57 29.6 | 10.053 | 10.032 | 85.9  | 5.8 | 18.5 |
| 2001 05 31 | 01 00.35 | -58 13.2 | 10.023 | 10.096 | 91.3  | 5.8 | 18.5 |
| 2001 06 10 | 01 05.33 | -59 02.8 | 9.996  | 10.160 | 96.4  | 5.7 | 18.6 |
| 2001 06 20 | 01 09.52 | -59 57.7 | 9.975  | 10.223 | 101.3 | 5.6 | 18.6 |
| 2001 06 30 | 01 12.80 | -60 56.9 | 9.963  | 10.287 | 105.8 | 5.5 | 18.6 |
| 2001 07 10 | 01 15.03 | -61 59.0 | 9.962  | 10.351 | 109.8 | 5.3 | 18.6 |
| 2001 07 20 | 01 16.08 | -63 02.7 | 9.974  | 10.414 | 113.0 | 5.2 | 18.7 |
| 2001 07 30 | 01 15.82 | -64 06.3 | 10.001 | 10.478 | 115.5 | 5.0 | 18.7 |
| 2001 08 09 | 01 14.17 | -65 07.8 | 10.043 | 10.541 | 116.9 | 4.9 | 18.7 |
| 2001 08 19 | 01 11.07 | -66 05.3 | 10.100 | 10.604 | 117.4 | 4.9 | 18.8 |
| 2001 08 29 | 01 06.55 | -66 57.0 | 10.174 | 10.667 | 116.8 | 4.8 | 18.8 |
| 2001 09 08 | 01 00.76 | -67 41.1 | 10.264 | 10.730 | 115.1 | 4.9 | 18.9 |
| 2001 09 18 | 00 53.91 | -68 16.0 | 10.368 | 10.793 | 112.5 | 4.9 | 18.9 |
| 2001 09 28 | 00 46.37 | -68 40.6 | 10.485 | 10.855 | 109.2 | 5.0 | 19.0 |
| 2001 10 08 | 00 38.58 | -68 54.5 | 10.613 | 10.918 | 105.2 | 5.1 | 19.0 |

## P/2000 S1 (Skiff)

| Date       | TT       | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | Elements <i>MPC</i> 41338 |        |             |
|------------|----------|-----------------|-----------------|----------|-------|---------------------------|--------|-------------|
|            |          |                 |                 |          |       | $\epsilon$                | $\phi$ | $m_1$ $m_2$ |
| 2000 10 13 | 00 15.79 | -12 35.1        | 1.688           | 2.627    | 155.0 | 9.2                       | 15.3   |             |
| 2000 10 23 | 00 09.48 | -11 10.1        | 1.768           | 2.652    | 146.1 | 12.1                      | 15.5   |             |
| 2000 11 02 | 00 05.31 | -09 34.0        | 1.871           | 2.680    | 136.7 | 14.7                      | 15.6   |             |
| 2000 11 12 | 00 03.55 | -07 49.9        | 1.993           | 2.710    | 127.4 | 16.9                      | 15.8   |             |
| 2000 11 22 | 00 04.15 | -06 00.6        | 2.131           | 2.742    | 118.4 | 18.5                      | 16.0   |             |
| 2000 12 02 | 00 06.95 | -04 07.9        | 2.283           | 2.776    | 109.8 | 19.5                      | 16.2   |             |
| 2000 12 12 | 00 11.70 | -02 13.2        | 2.445           | 2.812    | 101.5 | 20.1                      | 16.4   |             |
| 2000 12 22 | 00 18.12 | -00 17.6        | 2.613           | 2.849    | 93.6  | 20.2                      | 16.6   |             |
| 2001 01 01 | 00 25.96 | +01 38.2        | 2.786           | 2.888    | 86.0  | 19.9                      | 16.8   |             |
| 2001 01 11 | 00 34.98 | +03 33.7        | 2.960           | 2.929    | 78.6  | 19.2                      | 17.0   |             |
| 2001 01 21 | 00 44.98 | +05 28.5        | 3.133           | 2.971    | 71.5  | 18.3                      | 17.2   |             |
| 2001 01 31 | 00 55.80 | +07 22.1        | 3.303           | 3.014    | 64.5  | 17.2                      | 17.4   |             |
| 2001 02 10 | 01 07.28 | +09 14.1        | 3.468           | 3.058    | 57.7  | 15.8                      | 17.6   |             |
| 2001 02 20 | 01 19.30 | +11 04.2        | 3.627           | 3.103    | 51.1  | 14.4                      | 17.7   |             |
| 2001 03 02 | 01 31.78 | +12 51.9        | 3.777           | 3.149    | 44.6  | 12.8                      | 17.9   |             |

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|            |          |          |       |       |      |      |      |
|------------|----------|----------|-------|-------|------|------|------|
| 2001 03 12 | 01 44.62 | +14 36.9 | 3.917 | 3.196 | 38.2 | 11.1 | 18.0 |
| 2001 03 22 | 01 57.74 | +16 18.9 | 4.047 | 3.244 | 31.9 | 9.3  | 18.1 |

## C/2000 S3

| Date       | TT       | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ | Elements <i>MPC</i> 41338 |  |
|------------|----------|-----------------|-----------------|----------|-------|------------|--------|-------|-------|---------------------------|--|
| 2000 10 13 | 00 40.62 | -19 22.8        | 1.866           | 2.785    | 151.6 | 9.8        | 17.8   |       |       |                           |  |
| 2000 10 23 | 00 33.71 | -17 48.3        | 1.939           | 2.813    | 145.1 | 11.7       | 17.9   |       |       |                           |  |
| 2000 11 02 | 00 28.58 | -15 58.3        | 2.036           | 2.844    | 137.1 | 13.7       | 18.1   |       |       |                           |  |
| 2000 11 12 | 00 25.59 | -13 57.2        | 2.154           | 2.877    | 128.6 | 15.6       | 18.3   |       |       |                           |  |
| 2000 11 22 | 00 24.83 | -11 49.2        | 2.291           | 2.913    | 120.0 | 17.1       | 18.4   |       |       |                           |  |
| 2000 12 02 | 00 26.20 | -09 37.5        | 2.442           | 2.951    | 111.6 | 18.1       | 18.6   |       |       |                           |  |
| 2000 12 12 | 00 29.52 | -07 24.7        | 2.606           | 2.990    | 103.4 | 18.7       | 18.8   |       |       |                           |  |
| 2000 12 22 | 00 34.53 | -05 12.3        | 2.778           | 3.032    | 95.4  | 18.8       | 19.0   |       |       |                           |  |
| 2001 01 01 | 00 40.99 | -03 01.4        | 2.955           | 3.076    | 87.6  | 18.6       | 19.2   |       |       |                           |  |
| 2001 01 11 | 00 48.69 | -00 52.7        | 3.136           | 3.121    | 80.1  | 18.1       | 19.4   |       |       |                           |  |
| 2001 01 21 | 00 57.40 | +01 13.3        | 3.317           | 3.167    | 72.7  | 17.3       | 19.6   |       |       |                           |  |
| 2001 01 31 | 01 06.95 | +03 16.4        | 3.495           | 3.216    | 65.6  | 16.2       | 19.8   |       |       |                           |  |
| 2001 02 10 | 01 17.20 | +05 16.3        | 3.670           | 3.265    | 58.5  | 14.9       | 20.0   |       |       |                           |  |
| 2001 02 20 | 01 28.01 | +07 12.6        | 3.837           | 3.316    | 51.6  | 13.5       | 20.1   |       |       |                           |  |
| 2001 03 02 | 01 39.28 | +09 05.4        | 3.997           | 3.367    | 44.9  | 12.0       | 20.3   |       |       |                           |  |
| 2001 03 12 | 01 50.91 | +10 54.4        | 4.146           | 3.420    | 38.2  | 10.3       | 20.4   |       |       |                           |  |
| 2001 03 22 | 02 02.82 | +12 39.3        | 4.284           | 3.474    | 31.6  | 8.6        | 20.6   |       |       |                           |  |

## C/1995 O1 (Hale-Bopp)

| Date       | TT      | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$  | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ | Elements <i>MPC</i> 35204 |  |
|------------|---------|-----------------|-----------------|----------|------|------------|--------|-------|-------|---------------------------|--|
| 2000 10 13 | 06 53.8 | -76 53.0        | 12.172          | 12.100   | 83.5 | 4.7        | 14.3   |       |       |                           |  |
| 2000 10 23 | 06 49.8 | -77 44.7        | 12.264          | 12.166   | 82.0 | 4.6        | 14.3   |       |       |                           |  |
| 2000 11 02 | 06 42.7 | -78 32.6        | 12.355          | 12.232   | 80.6 | 4.6        | 14.3   |       |       |                           |  |
| 2000 11 12 | 06 32.2 | -79 14.9        | 12.443          | 12.297   | 79.3 | 4.5        | 14.4   |       |       |                           |  |
| 2000 11 22 | 06 18.2 | -79 49.5        | 12.528          | 12.363   | 78.1 | 4.5        | 14.4   |       |       |                           |  |
| 2000 12 02 | 06 01.2 | -80 14.2        | 12.610          | 12.428   | 77.1 | 4.4        | 14.4   |       |       |                           |  |
| 2000 12 12 | 05 42.2 | -80 27.6        | 12.688          | 12.493   | 76.4 | 4.4        | 14.5   |       |       |                           |  |
| 2000 12 22 | 05 22.6 | -80 28.9        | 12.761          | 12.558   | 75.9 | 4.4        | 14.5   |       |       |                           |  |
| 2001 01 01 | 05 04.0 | -80 18.5        | 12.828          | 12.623   | 75.8 | 4.3        | 14.6   |       |       |                           |  |
| 2001 01 11 | 04 47.8 | -79 57.6        | 12.891          | 12.687   | 75.9 | 4.3        | 14.6   |       |       |                           |  |
| 2001 01 21 | 04 34.8 | -79 28.5        | 12.948          | 12.752   | 76.4 | 4.3        | 14.6   |       |       |                           |  |
| 2001 01 31 | 04 25.3 | -78 53.2        | 13.000          | 12.816   | 77.1 | 4.3        | 14.6   |       |       |                           |  |
| 2001 02 10 | 04 19.1 | -78 14.0        | 13.047          | 12.880   | 78.1 | 4.3        | 14.7   |       |       |                           |  |
| 2001 02 20 | 04 16.0 | -77 33.0        | 13.090          | 12.944   | 79.4 | 4.3        | 14.7   |       |       |                           |  |
| 2001 03 02 | 04 15.5 | -76 51.8        | 13.128          | 13.008   | 80.9 | 4.3        | 14.7   |       |       |                           |  |
| 2001 03 12 | 04 17.2 | -76 11.7        | 13.164          | 13.072   | 82.5 | 4.3        | 14.8   |       |       |                           |  |
| 2001 03 22 | 04 20.7 | -75 33.9        | 13.198          | 13.135   | 84.2 | 4.3        | 14.8   |       |       |                           |  |
| 2001 04 01 | 04 25.7 | -74 59.3        | 13.230          | 13.199   | 86.0 | 4.3        | 14.8   |       |       |                           |  |
| 2001 04 11 | 04 31.9 | -74 28.7        | 13.262          | 13.262   | 87.9 | 4.3        | 14.8   |       |       |                           |  |
| 2001 04 21 | 04 39.0 | -74 02.5        | 13.294          | 13.325   | 89.6 | 4.3        | 14.9   |       |       |                           |  |
| 2001 05 01 | 04 47.0 | -73 41.3        | 13.327          | 13.388   | 91.3 | 4.3        | 14.9   |       |       |                           |  |
| 2001 05 11 | 04 55.6 | -73 25.3        | 13.363          | 13.451   | 92.8 | 4.3        | 14.9   |       |       |                           |  |
| 2001 05 21 | 05 04.6 | -73 14.7        | 13.402          | 13.514   | 94.2 | 4.3        | 14.9   |       |       |                           |  |
| 2001 05 31 | 05 13.9 | -73 09.7        | 13.445          | 13.576   | 95.3 | 4.3        | 15.0   |       |       |                           |  |
| 2001 06 10 | 05 23.4 | -73 10.4        | 13.492          | 13.639   | 96.2 | 4.2        | 15.0   |       |       |                           |  |
| 2001 06 20 | 05 33.0 | -73 16.6        | 13.544          | 13.701   | 96.8 | 4.2        | 15.0   |       |       |                           |  |
| 2001 06 30 | 05 42.5 | -73 28.2        | 13.601          | 13.763   | 97.1 | 4.2        | 15.1   |       |       |                           |  |
| 2001 07 10 | 05 51.8 | -73 45.2        | 13.664          | 13.825   | 97.0 | 4.2        | 15.1   |       |       |                           |  |

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M.P.C. 41391

|            |         |          |        |        |      |     |      |
|------------|---------|----------|--------|--------|------|-----|------|
| 2001 07 20 | 06 00.9 | -74 07.2 | 13.732 | 13.887 | 96.7 | 4.2 | 15.1 |
| 2001 07 30 | 06 09.5 | -74 33.9 | 13.805 | 13.948 | 96.0 | 4.2 | 15.1 |
| 2001 08 09 | 06 17.4 | -75 04.9 | 13.884 | 14.010 | 95.1 | 4.1 | 15.2 |
| 2001 08 19 | 06 24.6 | -75 39.9 | 13.967 | 14.072 | 93.8 | 4.1 | 15.2 |
| 2001 08 29 | 06 30.8 | -76 18.2 | 14.055 | 14.133 | 92.4 | 4.1 | 15.2 |
| 2001 09 08 | 06 35.8 | -76 59.1 | 14.146 | 14.194 | 90.7 | 4.1 | 15.3 |
| 2001 09 18 | 06 39.2 | -77 42.1 | 14.239 | 14.255 | 88.9 | 4.0 | 15.3 |
| 2001 09 28 | 06 40.7 | -78 26.1 | 14.334 | 14.316 | 87.0 | 4.0 | 15.3 |
| 2001 10 08 | 06 39.9 | -79 10.1 | 14.430 | 14.377 | 85.0 | 4.0 | 15.4 |
| 2001 10 18 | 06 36.4 | -79 53.0 | 14.525 | 14.438 | 83.0 | 3.9 | 15.4 |
| 2001 10 28 | 06 29.7 | -80 33.1 | 14.619 | 14.498 | 81.1 | 3.9 | 15.4 |
| 2001 11 07 | 06 19.5 | -81 08.9 | 14.711 | 14.559 | 79.2 | 3.8 | 15.5 |
| 2001 11 17 | 06 05.7 | -81 38.5 | 14.799 | 14.619 | 77.6 | 3.8 | 15.5 |
| 2001 11 27 | 05 48.6 | -82 00.1 | 14.883 | 14.679 | 76.2 | 3.7 | 15.5 |
| 2001 12 07 | 05 29.1 | -82 12.2 | 14.961 | 14.739 | 75.1 | 3.7 | 15.6 |
| 2001 12 17 | 05 08.8 | -82 14.0 | 15.034 | 14.799 | 74.4 | 3.7 | 15.6 |
| 2001 12 27 | 04 49.3 | -82 05.7 | 15.101 | 14.859 | 74.0 | 3.6 | 15.6 |
| 2002 01 06 | 04 32.2 | -81 48.4 | 15.161 | 14.919 | 73.9 | 3.6 | 15.6 |
| 2002 01 16 | 04 18.4 | -81 23.6 | 15.215 | 14.978 | 74.3 | 3.6 | 15.7 |
| 2002 01 26 | 04 08.2 | -80 53.5 | 15.262 | 15.038 | 75.1 | 3.6 | 15.7 |
| 2002 02 05 | 04 01.5 | -80 19.8 | 15.303 | 15.097 | 76.2 | 3.6 | 15.7 |
| 2002 02 15 | 03 58.0 | -79 44.3 | 15.338 | 15.156 | 77.6 | 3.6 | 15.7 |
| 2002 02 25 | 03 57.2 | -79 08.6 | 15.368 | 15.216 | 79.3 | 3.7 | 15.8 |
| 2002 03 07 | 03 58.7 | -78 33.7 | 15.395 | 15.275 | 81.2 | 3.7 | 15.8 |
| 2002 03 17 | 04 02.1 | -78 00.7 | 15.418 | 15.334 | 83.3 | 3.7 | 15.8 |
| 2002 03 27 | 04 07.0 | -77 30.4 | 15.439 | 15.392 | 85.5 | 3.7 | 15.8 |
| 2002 04 06 | 04 13.2 | -77 03.3 | 15.459 | 15.451 | 87.7 | 3.7 | 15.8 |
| 2002 04 16 | 04 20.4 | -76 40.0 | 15.480 | 15.510 | 89.9 | 3.7 | 15.9 |
| 2002 04 26 | 04 28.4 | -76 20.9 | 15.501 | 15.568 | 92.0 | 3.7 | 15.9 |

## 146P/Shoemaker-LINEAR

Elements MPC 41338

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 10 13 |    | 07 41.16        | +30 55.2        | 1.406    | 1.698 | 88.2       | 36.0   | 18.0  |       |
| 2000 10 23 |    | 07 56.68        | +33 05.9        | 1.376    | 1.768 | 95.1       | 34.1   | 18.2  |       |
| 2000 11 02 |    | 08 08.71        | +35 27.5        | 1.348    | 1.841 | 102.7      | 31.7   | 18.3  |       |
| 2000 11 12 |    | 08 16.66        | +38 01.7        | 1.323    | 1.916 | 111.1      | 28.8   | 18.4  |       |
| 2000 11 22 |    | 08 19.93        | +40 46.9        | 1.305    | 1.992 | 120.0      | 25.4   | 18.6  |       |
| 2000 12 02 |    | 08 17.93        | +43 36.7        | 1.299    | 2.069 | 129.3      | 21.6   | 18.7  |       |
| 2000 12 12 |    | 08 10.48        | +46 18.7        | 1.309    | 2.146 | 138.3      | 17.8   | 18.9  |       |
| 2000 12 22 |    | 07 58.09        | +48 37.4        | 1.339    | 2.223 | 146.0      | 14.3   | 19.1  |       |
| 2001 01 01 |    | 07 42.27        | +50 18.0        | 1.393    | 2.301 | 150.6      | 12.1   | 19.3  |       |
| 2001 01 11 |    | 07 25.55        | +51 12.6        | 1.471    | 2.378 | 150.6      | 11.7   | 19.6  |       |
| 2001 01 21 |    | 07 10.52        | +51 23.0        | 1.574    | 2.454 | 146.3      | 12.9   | 19.9  |       |
| 2001 01 31 |    | 06 59.12        | +50 58.2        | 1.700    | 2.531 | 139.4      | 14.7   | 20.2  |       |
| 2001 02 10 |    | 06 52.22        | +50 10.0        | 1.846    | 2.606 | 131.4      | 16.5   | 20.5  |       |
| 2001 02 20 |    | 06 49.73        | +49 08.5        | 2.008    | 2.681 | 123.2      | 18.0   | 20.8  |       |

## C/1998 T1 (LINEAR)

Elements MPC 40668

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 10 13 |    | 11 30.73        | +00 44.6        | 6.469    | 5.599 | 27.1       | 4.6    | 19.5  |       |
| 2000 10 23 |    | 11 33.59        | +00 28.7        | 6.460    | 5.687 | 36.2       | 5.9    | 19.6  |       |
| 2000 11 02 |    | 11 35.89        | +00 15.9        | 6.426    | 5.775 | 45.5       | 7.0    | 19.7  |       |
| 2000 11 12 |    | 11 37.51        | +00 07.1        | 6.371    | 5.862 | 55.1       | 8.0    | 19.7  |       |

|            |          |          |       |       |       |     |      |
|------------|----------|----------|-------|-------|-------|-----|------|
| 2000 11 22 | 11 38.33 | +00 03.0 | 6.298 | 5.949 | 65.0  | 8.7 | 19.7 |
| 2000 12 02 | 11 38.23 | +00 04.7 | 6.212 | 6.035 | 75.1  | 9.1 | 19.8 |
| 2000 12 12 | 11 37.13 | +00 12.7 | 6.117 | 6.121 | 85.6  | 9.2 | 19.8 |
| 2000 12 22 | 11 34.93 | +00 27.8 | 6.020 | 6.206 | 96.4  | 9.1 | 19.8 |
| 2001 01 01 | 11 31.59 | +00 50.4 | 5.926 | 6.291 | 107.5 | 8.6 | 19.9 |
| 2001 01 11 | 11 27.10 | +01 20.6 | 5.843 | 6.376 | 118.9 | 7.8 | 19.9 |
| 2001 01 21 | 11 21.54 | +01 58.0 | 5.777 | 6.460 | 130.6 | 6.6 | 19.9 |
| 2001 01 31 | 11 15.03 | +02 41.8 | 5.735 | 6.544 | 142.5 | 5.3 | 20.0 |
| 2001 02 10 | 11 07.78 | +03 30.7 | 5.723 | 6.628 | 154.6 | 3.7 | 20.0 |
| 2001 02 20 | 11 00.07 | +04 22.8 | 5.744 | 6.711 | 166.8 | 1.9 | 20.1 |
| 2001 03 02 | 10 52.21 | +05 16.0 | 5.803 | 6.793 | 178.0 | 0.3 | 20.1 |
| 2001 03 12 | 10 44.53 | +06 08.0 | 5.899 | 6.876 | 168.7 | 1.6 | 20.2 |
| 2001 03 22 | 10 37.34 | +06 56.9 | 6.031 | 6.958 | 156.8 | 3.2 | 20.3 |
| 2001 04 01 | 10 30.88 | +07 41.0 | 6.196 | 7.039 | 145.2 | 4.6 | 20.4 |
| 2001 04 11 | 10 25.34 | +08 19.4 | 6.390 | 7.121 | 133.9 | 5.8 | 20.6 |
| 2001 04 21 | 10 20.83 | +08 51.4 | 6.607 | 7.202 | 122.8 | 6.7 | 20.7 |
| 2001 05 01 | 10 17.38 | +09 16.9 | 6.842 | 7.282 | 112.2 | 7.4 | 20.8 |
| 2001 05 11 | 10 14.99 | +09 36.0 | 7.089 | 7.363 | 101.8 | 7.7 | 20.9 |

## C/1999 F1 (Catalina)

Elements MPC 39021

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 10 13 |    | 12 22.70        | -32 17.0        | 7.607    | 6.735 | 27.2       | 3.9    |       | 18.4  |
| 2000 10 23 |    | 12 26.66        | -33 29.0        | 7.550    | 6.700 | 29.3       | 4.2    |       | 18.4  |
| 2000 11 02 |    | 12 30.41        | -34 46.4        | 7.471    | 6.666 | 33.5       | 4.7    |       | 18.4  |
| 2000 11 12 |    | 12 33.82        | -36 09.1        | 7.372    | 6.632 | 39.0       | 5.4    |       | 18.4  |
| 2000 11 22 |    | 12 36.75        | -37 36.7        | 7.254    | 6.598 | 45.4       | 6.1    |       | 18.4  |
| 2000 12 02 |    | 12 39.02        | -39 08.6        | 7.120    | 6.565 | 52.4       | 6.8    |       | 18.4  |
| 2000 12 12 |    | 12 40.45        | -40 44.4        | 6.972    | 6.533 | 59.8       | 7.5    |       | 18.3  |
| 2000 12 22 |    | 12 40.84        | -42 23.2        | 6.814    | 6.501 | 67.5       | 8.0    |       | 18.3  |
| 2001 01 01 |    | 12 39.94        | -44 03.7        | 6.649    | 6.470 | 75.3       | 8.5    |       | 18.3  |
| 2001 01 11 |    | 12 37.53        | -45 44.5        | 6.482    | 6.439 | 83.2       | 8.7    |       | 18.2  |
| 2001 01 21 |    | 12 33.36        | -47 23.4        | 6.316    | 6.409 | 91.0       | 8.8    |       | 18.1  |
| 2001 01 31 |    | 12 27.22        | -48 57.8        | 6.157    | 6.379 | 98.6       | 8.8    |       | 18.1  |
| 2001 02 10 |    | 12 18.99        | -50 24.4        | 6.009    | 6.350 | 105.9      | 8.6    |       | 18.0  |
| 2001 02 20 |    | 12 08.65        | -51 39.5        | 5.875    | 6.322 | 112.6      | 8.3    |       | 17.9  |
| 2001 03 02 |    | 11 56.37        | -52 39.5        | 5.760    | 6.294 | 118.5      | 8.0    |       | 17.9  |
| 2001 03 12 |    | 11 42.59        | -53 21.1        | 5.667    | 6.267 | 123.2      | 7.6    |       | 17.8  |
| 2001 03 22 |    | 11 27.93        | -53 42.2        | 5.598    | 6.240 | 126.3      | 7.4    |       | 17.8  |
| 2001 04 01 |    | 11 13.18        | -53 42.3        | 5.554    | 6.214 | 127.6      | 7.3    |       | 17.7  |
| 2001 04 11 |    | 10 59.15        | -53 23.2        | 5.535    | 6.189 | 126.9      | 7.4    |       | 17.7  |
| 2001 04 21 |    | 10 46.50        | -52 48.1        | 5.541    | 6.164 | 124.4      | 7.7    |       | 17.7  |
| 2001 05 01 |    | 10 35.72        | -52 01.6        | 5.568    | 6.141 | 120.5      | 8.1    |       | 17.7  |
| 2001 05 11 |    | 10 27.03        | -51 08.6        | 5.613    | 6.117 | 115.6      | 8.6    |       | 17.8  |
| 2001 05 21 |    | 10 20.46        | -50 13.9        | 5.675    | 6.095 | 109.9      | 9.0    |       | 17.8  |
| 2001 05 31 |    | 10 15.92        | -49 21.7        | 5.748    | 6.073 | 104.0      | 9.3    |       | 17.8  |
| 2001 06 10 |    | 10 13.23        | -48 35.4        | 5.830    | 6.052 | 97.8       | 9.6    |       | 17.9  |
| 2001 06 20 |    | 10 12.14        | -47 57.5        | 5.915    | 6.032 | 91.7       | 9.7    |       | 17.9  |
| 2001 06 30 |    | 10 12.44        | -47 29.8        | 6.001    | 6.012 | 85.8       | 9.7    |       | 17.9  |
| 2001 07 10 |    | 10 13.91        | -47 13.4        | 6.085    | 5.993 | 80.1       | 9.6    |       | 17.9  |
| 2001 07 20 |    | 10 16.32        | -47 09.2        | 6.163    | 5.975 | 74.7       | 9.4    |       | 18.0  |
| 2001 07 30 |    | 10 19.51        | -47 17.4        | 6.233    | 5.958 | 69.7       | 9.2    |       | 18.0  |
| 2001 08 09 |    | 10 23.29        | -47 38.3        | 6.293    | 5.942 | 65.3       | 8.9    |       | 18.0  |
| 2001 08 19 |    | 10 27.50        | -48 11.6        | 6.342    | 5.926 | 61.5       | 8.6    |       | 18.0  |

## M.P.C. 41392

|            |          |          |       |       |      |     |      |
|------------|----------|----------|-------|-------|------|-----|------|
| 2001 08 29 | 10 31.99 | -48 57.3 | 6.378 | 5.911 | 58.4 | 8.4 | 18.0 |
| 2001 09 08 | 10 36.61 | -49 55.0 | 6.400 | 5.897 | 56.0 | 8.1 | 18.0 |
| 2001 09 18 | 10 41.20 | -51 04.6 | 6.409 | 5.884 | 54.6 | 8.0 | 17.9 |
| 2001 09 28 | 10 45.60 | -52 25.5 | 6.404 | 5.871 | 54.0 | 7.9 | 17.9 |
| 2001 10 08 | 10 49.62 | -53 57.2 | 6.385 | 5.860 | 54.4 | 8.0 | 17.9 |
| 2001 10 18 | 10 53.02 | -55 39.3 | 6.355 | 5.849 | 55.5 | 8.1 | 17.9 |
| 2001 10 28 | 10 55.53 | -57 30.9 | 6.313 | 5.839 | 57.5 | 8.2 | 17.9 |
| 2001 11 07 | 10 56.81 | -59 30.8 | 6.261 | 5.830 | 60.1 | 8.5 | 17.9 |
| 2001 11 17 | 10 56.38 | -61 37.9 | 6.202 | 5.822 | 63.1 | 8.7 | 17.9 |
| 2001 11 27 | 10 53.64 | -63 50.1 | 6.137 | 5.814 | 66.5 | 9.0 | 17.9 |
| 2001 12 07 | 10 47.78 | -66 04.5 | 6.069 | 5.808 | 70.1 | 9.2 | 17.9 |
| 2001 12 17 | 10 37.76 | -68 17.3 | 6.000 | 5.802 | 73.8 | 9.4 | 17.8 |
| 2001 12 27 | 10 22.3  | -70 22.9 | 5.932 | 5.798 | 77.4 | 9.5 | 17.8 |
| 2002 01 06 | 10 00.0  | -72 13.8 | 5.869 | 5.794 | 80.8 | 9.6 | 17.8 |
| 2002 01 16 | 09 30.1  | -73 40.2 | 5.812 | 5.791 | 83.9 | 9.7 | 17.8 |
| 2002 01 26 | 08 53.4  | -74 31.6 | 5.763 | 5.789 | 86.6 | 9.8 | 17.8 |
| 2002 02 05 | 08 13.4  | -74 40.4 | 5.724 | 5.788 | 88.8 | 9.8 | 17.7 |
| 2002 02 15 | 07 35.1  | -74 05.3 | 5.696 | 5.787 | 90.4 | 9.8 | 17.7 |
| 2002 02 25 | 07 02.7  | -72 52.8 | 5.678 | 5.788 | 91.4 | 9.8 | 17.7 |
| 2002 03 07 | 06 38.1  | -71 13.6 | 5.673 | 5.789 | 91.8 | 9.9 | 17.7 |
| 2002 03 17 | 06 20.67 | -69 18.5 | 5.677 | 5.792 | 91.6 | 9.9 | 17.7 |
| 2002 03 27 | 06 09.31 | -67 16.6 | 5.691 | 5.795 | 91.0 | 9.9 | 17.7 |
| 2002 04 06 | 06 02.58 | -65 14.8 | 5.714 | 5.799 | 89.9 | 9.9 | 17.7 |

## P/1999 V1 (Catalina)

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 10 13 |    | 12 28.80        | -16 19.4        | 4.826    | 3.864 | 13.9       | 3.6    | 19.3  |       |
| 2000 10 23 |    | 12 40.41        | -17 43.3        | 4.839    | 3.906 | 18.2       | 4.6    | 19.3  |       |
| 2000 11 02 |    | 12 51.74        | -19 06.5        | 4.836    | 3.949 | 23.8       | 5.8    | 19.4  |       |
| 2000 11 12 |    | 13 02.71        | -20 28.5        | 4.817    | 3.992 | 30.1       | 7.1    | 19.4  |       |
| 2000 11 22 |    | 13 13.24        | -21 48.9        | 4.782    | 4.034 | 36.8       | 8.4    | 19.5  |       |
| 2000 12 02 |    | 13 23.22        | -23 07.3        | 4.731    | 4.078 | 43.8       | 9.6    | 19.5  |       |
| 2000 12 12 |    | 13 32.53        | -24 23.2        | 4.666    | 4.121 | 51.2       | 10.7   | 19.5  |       |
| 2000 12 22 |    | 13 41.05        | -25 36.2        | 4.589    | 4.165 | 58.8       | 11.7   | 19.5  |       |
| 2001 01 01 |    | 13 48.62        | -26 45.7        | 4.501    | 4.208 | 66.6       | 12.4   | 19.5  |       |
| 2001 01 11 |    | 13 55.10        | -27 51.2        | 4.404    | 4.252 | 74.7       | 12.9   | 19.5  |       |
| 2001 01 21 |    | 14 00.33        | -28 52.1        | 4.301    | 4.296 | 83.1       | 13.1   | 19.5  |       |
| 2001 01 31 |    | 14 04.13        | -29 47.3        | 4.196    | 4.340 | 91.8       | 13.1   | 19.5  |       |
| 2001 02 10 |    | 14 06.38        | -30 36.0        | 4.092    | 4.385 | 100.8      | 12.8   | 19.5  |       |
| 2001 02 20 |    | 14 06.98        | -31 16.7        | 3.992    | 4.429 | 110.0      | 12.1   | 19.5  |       |
| 2001 03 02 |    | 14 05.89        | -31 48.1        | 3.902    | 4.473 | 119.4      | 11.1   | 19.5  |       |
| 2001 03 12 |    | 14 03.17        | -32 08.6        | 3.826    | 4.517 | 129.0      | 9.8    | 19.5  |       |
| 2001 03 22 |    | 13 59.02        | -32 16.9        | 3.768    | 4.562 | 138.5      | 8.3    | 19.5  |       |
| 2001 04 01 |    | 13 53.74        | -32 12.2        | 3.732    | 4.606 | 147.5      | 6.7    | 19.5  |       |
| 2001 04 11 |    | 13 47.77        | -31 54.7        | 3.721    | 4.651 | 155.4      | 5.2    | 19.5  |       |
| 2001 04 21 |    | 13 41.58        | -31 25.5        | 3.737    | 4.695 | 160.1      | 4.2    | 19.6  |       |
| 2001 05 01 |    | 13 35.68        | -30 46.9        | 3.782    | 4.739 | 159.5      | 4.3    | 19.6  |       |
| 2001 05 11 |    | 13 30.53        | -30 02.0        | 3.855    | 4.783 | 154.0      | 5.3    | 19.7  |       |
| 2001 05 21 |    | 13 26.44        | -29 14.4        | 3.955    | 4.828 | 146.0      | 6.7    | 19.8  |       |
| 2001 05 31 |    | 13 23.65        | -28 27.3        | 4.079    | 4.872 | 137.2      | 8.1    | 19.9  |       |
| 2001 06 10 |    | 13 22.26        | -27 43.8        | 4.223    | 4.916 | 128.1      | 9.3    | 20.0  |       |

Elements MPC 39022

## 2000 OCT. 13

## 99P/Kowal 1

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 10 23 |    | 02 41.46        | +16 50.7        | 6.360    | 7.332 | 166.7      | 1.8    | 21.5  | 22.6  |
| 2000 11 02 |    | 02 37.27        | +16 33.9        | 6.335    | 7.327 | 177.5      | 0.3    | 21.5  | 22.4  |
| 2000 11 12 |    | 02 33.04        | +16 16.4        | 6.342    | 7.321 | 171.1      | 1.2    | 21.5  | 22.5  |
| 2000 11 22 |    | 02 29.02        | +15 59.1        | 6.379    | 7.315 | 160.0      | 2.6    | 21.5  | 22.6  |

Elements MPC 34736

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 10 23 |    | 05 09.33        | +31 33.1        | 3.469    | 4.181 | 130.2      | 10.5   | 20.7  | 22.5  |
| 2000 11 02 |    | 05 03.56        | +31 40.8        | 3.401    | 4.220 | 141.1      | 8.5    | 20.7  | 22.4  |
| 2000 11 12 |    | 04 56.17        | +31 41.9        | 3.357    | 4.257 | 152.2      | 6.2    | 20.7  | 22.3  |
| 2000 11 22 |    | 04 47.63        | +31 35.3        | 3.340    | 4.294 | 162.9      | 3.9    | 20.7  | 22.1  |
| 2000 12 02 |    | 04 38.56        | +31 20.9        | 3.355    | 4.331 | 170.6      | 2.1    | 20.8  | 22.1  |
| 2000 12 12 |    | 04 29.68        | +30 59.4        | 3.402    | 4.366 | 166.7      | 3.0    | 20.8  | 22.2  |
| 2000 12 22 |    | 04 21.62        | +30 32.9        | 3.481    | 4.401 | 156.6      | 5.1    | 20.9  | 22.4  |
| 2001 01 01 |    | 04 14.92        | +30 03.9        | 3.589    | 4.435 | 145.6      | 7.2    | 21.0  | 22.5  |

## C/2000 G2 (LINEAR)

Elements MPC 40669

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 10 23 |    | 11 37.39        | +04 41.2        | 4.341    | 3.596 | 37.0       | 9.6    | 20.2  |       |
| 2000 11 02 |    | 11 37.86        | +04 27.9        | 4.260    | 3.653 | 46.7       | 11.4   | 20.3  |       |
| 2000 11 12 |    | 11 37.27        | +04 21.6        | 4.157    | 3.710 | 56.9       | 12.9   | 20.3  |       |
| 2000 11 22 |    | 11 35.37        | +04 23.6        | 4.035    | 3.768 | 67.4       | 14.0   | 20.3  |       |
| 2000 12 02 |    | 11 31.87        | +04 35.6        | 3.901    | 3.826 | 78.4       | 14.6   | 20.3  |       |
| 2000 12 12 |    | 11 26.46        | +04 59.0        | 3.760    | 3.885 | 89.9       | 14.7   | 20.3  |       |
| 2000 12 22 |    | 11 18.88        | +05 35.2        | 3.620    | 3.945 | 102.1      | 14.1   | 20.3  |       |
| 2001 01 01 |    | 11 08.90        | +06 24.8        | 3.491    | 4.005 | 114.9      | 12.9   | 20.2  |       |
| 2001 01 11 |    | 10 56.45        | +07 27.6        | 3.382    | 4.065 | 128.3      | 10.9   | 20.2  |       |
| 2001 01 21 |    | 10 41.69        | +08 41.6        | 3.303    | 4.126 | 142.3      | 8.4    | 20.2  |       |
| 2001 01 31 |    | 10 25.05        | +10 02.8        | 3.263    | 4.187 | 156.8      | 5.3    | 20.3  |       |
| 2001 02 10 |    | 10 07.33        | +11 26.0        | 3.270    | 4.249 | 171.5      | 2.0    | 20.4  |       |
| 2001 02 20 |    | 09 49.47        | +12 45.3        | 3.326    | 4.310 | 173.8      | 1.4    | 20.5  |       |
| 2001 03 02 |    | 09 32.50        | +13 55.9        | 3.430    | 4.372 | 159.5      | 4.6    | 20.6  |       |
| 2001 03 12 |    | 09 17.24        | +14 54.7        | 3.579    | 4.434 | 145.6      | 7.3    | 20.7  |       |
| 2001 03 22 |    | 09 04.23        | +15 40.9        | 3.763    | 4.497 | 132.5      | 9.4    | 20.9  |       |

## 28P/Neujmin 1

Elements MPC 34424

| Date       | TT | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$   | $\epsilon$ | $\phi$ | $m_1$ | $m_2$ |
|------------|----|-----------------|-----------------|----------|-------|------------|--------|-------|-------|
| 2000 11 12 |    | 13 01.52        | -13 00.0        | 7.403    | 6.577 | 31.2       | 4.5    |       | 20.8  |
| 2000 11 22 |    | 13 06.87        | -13 42.2        | 7.252    | 6.523 | 39.7       | 5.6    |       | 20.8  |
| 2000 12 02 |    | 13 11.87        | -14 23.4        | 7.082    | 6.469 | 48.4       | 6.5    |       | 20.8  |
| 2000 12 12 |    | 13 16.42        | -15 03.1        | 6.895    | 6.415 | 57.2       | 7.4    |       | 20.8  |
| 2000 12 22 |    | 13 20.40        | -15 40.8        | 6.694    | 6.360 | 66.2       | 8.1    |       | 20.7  |
| 2001 01 01 |    | 13 23.69        | -16 15.8        | 6.482    | 6.305 | 75.3       | 8.7    |       | 20.7  |
| 2001 01 11 |    | 13 26.17        | -16 47.4        | 6.263    | 6.250 | 84.7       | 9.0    |       | 20.6  |
| 2001 01 21 |    | 13 27.72        | -17 15.1        | 6.042    | 6.194 | 94.3       | 9.1    |       | 20.5  |
| 2001 01 31 |    | 13 28.25        | -17 38.1        | 5.823    | 6.138 | 104.1      | 9.0    |       | 20.4  |
| 2001 02 10 |    | 13 27.66        | -17 55.5        | 5.610    | 6.081 | 114.1      | 8.5    |       | 20.2  |
| 2001 02 20 |    | 13 25.92        | -18 06.6        | 5.410    | 6.024 | 124.4      | 7.8    |       | 20.1  |
| 2001 03 02 |    | 13 23.03        | -18 10.9        | 5.226    | 5.966 | 134.8      | 6.8    |       | 20.0  |
| 2001 03 12 |    | 13 19.08        | -18 07.8        | 5.064    | 5.908 | 145.3      | 5.5    |       | 19.8  |
| 2001 03 22 |    | 13 14.22        | -17 57.3        | 4.927    | 5.849 | 155.7      | 4.0    |       | 19.7  |
| 2001 04 01 |    | 13 08.69        | -17 39.7        | 4.818    | 5.790 | 165.2      | 2.5    |       | 19.5  |

|            |          |          |       |       |       |      |      |
|------------|----------|----------|-------|-------|-------|------|------|
| 2001 04 11 | 13 02.79 | -17 15.9 | 4.741 | 5.731 | 170.2 | 1.7  | 19.4 |
| 2001 04 21 | 12 56.86 | -16 47.5 | 4.694 | 5.671 | 165.0 | 2.6  | 19.4 |
| 2001 05 01 | 12 51.25 | -16 16.5 | 4.678 | 5.610 | 155.5 | 4.3  | 19.5 |
| 2001 05 11 | 12 46.27 | -15 45.0 | 4.690 | 5.549 | 145.2 | 6.0  | 19.5 |
| 2001 05 21 | 12 42.18 | -15 15.3 | 4.727 | 5.488 | 134.8 | 7.5  | 19.6 |
| 2001 05 31 | 12 39.17 | -14 49.4 | 4.785 | 5.426 | 124.7 | 8.8  | 19.7 |
| 2001 06 10 | 12 37.35 | -14 28.8 | 4.859 | 5.364 | 114.8 | 9.9  | 19.7 |
| 2001 06 20 | 12 36.76 | -14 14.7 | 4.944 | 5.301 | 105.1 | 10.7 | 19.8 |
| 2001 06 30 | 12 37.40 | -14 07.8 | 5.036 | 5.237 | 95.8  | 11.1 | 19.8 |
| 2001 07 10 | 12 39.21 | -14 08.3 | 5.129 | 5.174 | 86.8  | 11.3 | 19.8 |
| 2001 07 20 | 12 42.13 | -14 16.3 | 5.221 | 5.109 | 78.1  | 11.2 | 19.8 |
| 2001 07 30 | 12 46.08 | -14 31.5 | 5.307 | 5.044 | 69.6  | 10.9 | 19.8 |
| 2001 08 09 | 12 50.97 | -14 53.5 | 5.383 | 4.979 | 61.4  | 10.3 | 19.8 |
| 2001 08 19 | 12 56.71 | -15 21.8 | 5.448 | 4.913 | 53.4  | 9.5  | 19.8 |
| 2001 08 29 | 13 03.24 | -15 56.0 | 5.499 | 4.846 | 45.6  | 8.6  | 19.7 |
| 2001 09 08 | 13 10.45 | -16 35.4 | 5.533 | 4.779 | 38.0  | 7.5  | 19.7 |
| 2001 09 18 | 13 18.30 | -17 19.5 | 5.549 | 4.712 | 30.5  | 6.2  | 19.6 |

## OPPOSITION DATA

| Planet                 | Opposition   | $\alpha_{2000}$   | $\delta_{2000}$ | $V$   | $\dot{\alpha}$ | $\dot{\delta}$ | $\phi_{\text{MIN}}$ | Ref. |
|------------------------|--------------|-------------------|-----------------|-------|----------------|----------------|---------------------|------|
| 1998 FY <sub>15</sub>  | 2000 09 30.0 | 00 26.24 +06 08.1 | 17.9            | -0.84 | - 6.2          | 1.1/01.1       | 4906                |      |
| 2000 RS <sub>31</sub>  | 2000 09 30.0 | 00 26.28 +09 05.3 | 17.7            | -0.69 | - 7.3          | 1.9/02.3       | 4737                |      |
| 2000 OT <sub>47</sub>  | 2000 09 30.0 | 00 26.29 -02 15.4 | 16.8            | -0.82 | - 5.9          | 2.2/28.3       | 4971                |      |
| 2000 RB <sub>73</sub>  | 2000 09 30.0 | 00 26.31 +02 52.8 | 18.0            | -0.88 | - 8.4          | 0.0/30.0       | 4774                |      |
| 1998 FT <sub>4</sub>   | 2000 09 30.0 | 00 26.33 +06 26.7 | 19.3            | -0.87 | - 3.4          | 1.1/01.1       | 4374                |      |
| 1997 YN <sub>16</sub>  | 2000 09 30.0 | 00 26.34 -01 25.6 | 19.0            | -0.89 | - 6.3          | 1.4/28.6       | 4900                |      |
| 1999 JE                | 2000 09 30.0 | 00 26.42 +27 34.0 | 18.2            | -1.02 | -12.8          | 9.9/09.9       | 4932                |      |
| 2000 RU <sub>101</sub> | 2000 09 30.0 | 00 26.52 +23 39.9 | 17.8            | -0.86 | - 4.3          | 8.5/07.2       | 5061                |      |
| 1999 GV <sub>35</sub>  | 2000 09 30.1 | 00 26.68 +08 52.1 | 18.5            | -1.00 | - 7.6          | 2.4/02.1       | 4931                |      |
| (17810)                | 2000 09 30.1 | 00 26.72 +14 04.9 | 18.6            | -0.80 | - 8.1          | 3.5/04.2       | 4159                |      |
| 1995 CJ <sub>1</sub>   | 2000 09 30.1 | 00 26.74 +09 44.4 | 17.8            | -0.94 | - 6.4          | 2.3/02.4       | 4890                |      |
| (17536)                | 2000 09 30.1 | 00 26.75 +00 02.8 | 19.0            | -0.75 | - 5.3          | 0.9/29.2       | 4079                |      |
| 2000 RV <sub>1</sub>   | 2000 09 30.1 | 00 26.78 +05 05.1 | 18.2            | -0.93 | - 4.8          | 1.0/30.8       | 4710                |      |
| 2000 RQ <sub>32</sub>  | 2000 09 30.1 | 00 26.80 +13 11.6 | 18.7            | -0.93 | - 3.6          | 4.5/03.4       | 5043                |      |
| 1998 HA <sub>28</sub>  | 2000 09 30.1 | 00 26.83 +07 25.8 | 17.8            | -0.72 | - 5.9          | 1.6/01.7       | 4912                |      |
| 1996 HV <sub>9</sub>   | 2000 09 30.2 | 00 26.99 +13 01.8 | 17.8            | -0.47 | - 4.8          | 1.8/04.1       | 4892                |      |
| 1999 JU <sub>68</sub>  | 2000 09 30.2 | 00 27.02 -07 02.6 | 17.9            | -1.00 | - 4.3          | 4.3/27.2       | 4938                |      |
| (16573)                | 2000 09 30.2 | 00 27.03 -08 54.9 | 16.4            | -0.67 | - 8.6          | 4.0/25.7       | 2873                |      |
| 2000 QO <sub>102</sub> | 2000 09 30.2 | 00 27.08 -05 15.4 | 18.1            | -0.99 | - 5.4          | 3.5/27.7       | 4635                |      |
| 1999 FW <sub>27</sub>  | 2000 09 30.2 | 00 27.09 +02 20.7 | 17.9            | -0.99 | - 4.5          | 0.2/30.1       | 4929                |      |
| 2000 RA <sub>24</sub>  | 2000 09 30.2 | 00 27.11 +06 29.7 | 17.5            | -0.89 | - 8.1          | 1.6/01.5       | 4728                |      |
| 2000 RL <sub>34</sub>  | 2000 09 30.2 | 00 27.11 +13 11.3 | 17.8            | -0.82 | - 8.5          | 4.7/04.0       | 5044                |      |
| 2000 RP <sub>83</sub>  | 2000 09 30.2 | 00 27.16 +09 56.2 | 18.5            | -0.69 | - 6.0          | 1.9/02.7       | 4782                |      |
| (18248)                | 2000 09 30.2 | 00 27.18 -00 32.4 | 19.0            | -1.06 | - 3.7          | 1.4/29.3       | 4287                |      |
| 1997 YJ <sub>13</sub>  | 2000 09 30.2 | 00 27.18 +17 51.2 | 18.4            | -0.88 | - 5.8          | 5.4/05.4       | 4900                |      |
| 2000 QJ <sub>208</sub> | 2000 09 30.2 | 00 27.18 +03 08.0 | 17.6            | -0.87 | - 4.9          | 0.1/30.3       | 4697                |      |
| 2000 RA <sub>41</sub>  | 2000 09 30.2 | 00 27.20 +17 56.2 | 18.2            | -0.82 | - 2.4          | 4.2/05.1       | 4744                |      |
| (17984)                | 2000 09 30.2 | 00 27.25 +02 09.2 | 18.4            | -0.81 | - 6.3          | 0.3/30.0       | 4211                |      |
| 1989 SJ <sub>3</sub>   | 2000 09 30.2 | 00 27.30 -01 12.5 | 17.2            | -0.75 | - 5.0          | 1.5/28.9       | 4882                |      |
| 2000 QN <sub>122</sub> | 2000 09 30.2 | 00 27.33 +13 37.9 | 17.8            | -0.84 | - 3.2          | 3.3/03.7       | 5011                |      |
| 2000 RH                | 2000 09 30.2 | 00 27.44 +16 16.3 | 17.0            | -1.75 | + 9.5          | 7.2/02.1       | 4707                |      |

|                        |              |                   |      |       |       |          |       |  |
|------------------------|--------------|-------------------|------|-------|-------|----------|-------|--|
| 1996 PK <sub>8</sub>   | 2000 09 30.3 | 00 27.30 +04 42.1 | 18.8 | -0.93 | - 6.5 | 0.6/30.9 | 4892  |  |
| 1990 FQ                | 2000 09 30.3 | 00 27.35 -18 51.6 | 18.5 | -0.92 | - 4.4 | 6.7/23.0 | 4882  |  |
| (17833)                | 2000 09 30.3 | 00 27.43 -13 47.1 | 18.1 | -0.82 | - 5.0 | 5.4/24.6 | 4167  |  |
| 1992 EY <sub>8</sub>   | 2000 09 30.3 | 00 27.46 -07 13.8 | 19.1 | -0.73 | - 5.0 | 2.8/26.9 | 4885  |  |
| 2000 RU <sub>23</sub>  | 2000 09 30.3 | 00 27.51 +06 10.7 | 17.1 | -0.89 | - 5.5 | 1.6/01.4 | 4728  |  |
| 2000 RB <sub>41</sub>  | 2000 09 30.3 | 00 27.55 +16 20.1 | 19.4 | -0.83 | - 3.8 | 3.8/04.7 | 4744  |  |
| 2000 RT <sub>102</sub> | 2000 09 30.3 | 00 27.55 +20 34.1 | 17.4 | -0.91 | - 4.4 | 7.3/06.4 | 5061  |  |
| 2000 QF <sub>102</sub> | 2000 09 30.3 | 00 27.56 -07 54.5 | 18.0 | -1.01 | - 3.1 | 4.1/27.2 | 4635  |  |
| 1998 FT <sub>77</sub>  | 2000 09 30.3 | 00 27.58 -07 54.3 | 17.1 | -0.93 | - 2.3 | 4.0/27.1 | 4390  |  |
| 2000 RQ <sub>1</sub>   | 2000 09 30.3 | 00 27.61 +08 02.5 | 17.4 | -1.17 | + 0.2 | 2.1/01.6 | 4710  |  |
| 2000 RT <sub>56</sub>  | 2000 09 30.3 | 00 27.65 +13 20.6 | 18.6 | -0.91 | - 5.8 | 4.1/03.8 | 5049  |  |
| 2000 OB <sub>61</sub>  | 2000 09 30.3 | 00 27.69 +15 12.3 | 17.6 | -0.88 | - 6.5 | 5.5/04.6 | 4974  |  |
| 2000 QA <sub>130</sub> | 2000 09 30.4 | 00 27.70 -08 34.5 | 17.2 | -0.85 | -22.1 | 4.9/25.5 | 5013  |  |
| (17694)                | 2000 09 30.4 | 00 27.74 -02 31.3 | 17.2 | -0.81 | - 4.8 | 1.9/28.6 | 4125  |  |
| 1999 FS <sub>26</sub>  | 2000 09 30.4 | 00 27.77 -02 27.9 | 18.6 | -0.93 | - 3.9 | 1.9/28.8 | 4435  |  |
| 2000 RF <sub>65</sub>  | 2000 09 30.4 | 00 27.81 +09 24.2 | 18.8 | -1.40 | + 1.4 | 2.5/01.9 | 4762  |  |
| 1999 CP                | 2000 09 30.4 | 00 27.83 -24 20.0 | 18.6 | -0.89 | - 7.3 | 8.3/20.8 | 4427  |  |
| 1999 JU <sub>28</sub>  | 2000 09 30.4 | 00 27.85 +06 32.4 | 19.1 | -0.86 | - 5.0 | 1.2/01.6 | 4461  |  |
| (10780)                | 2000 09 30.4 | 00 27.87 -06 58.2 | 18.9 | -0.85 | - 5.6 | 3.1/27.2 | 34765 |  |
| 2000 RF <sub>73</sub>  | 2000 09 30.4 | 00 27.93 +03 40.0 | 17.8 | -0.93 | - 5.5 | 0.3/30.7 | 4774  |  |
| (18228)                | 2000 09 30.4 | 00 27.93 +02 37.7 | 18.6 | -0.52 | - 2.9 | 0.1/30.3 | 4281  |  |
| 2000 QA <sub>141</sub> | 2000 09 30.4 | 00 27.93 +04 20.5 | 17.0 | -1.11 | + 1.9 | 0.6/30.8 | 4659  |  |
| 2000 NB <sub>9</sub>   | 2000 09 30.4 | 00 27.94 +05 03.2 | 16.6 | -0.87 | - 4.0 | 1.0/01.1 | 4958  |  |
| 1999 GX <sub>35</sub>  | 2000 09 30.4 | 00 27.94 +07 04.5 | 18.8 | -0.94 | - 7.8 | 1.5/01.8 | 4445  |  |
| 2000 SA <sub>290</sub> | 2000 09 30.4 | 00 27.94 +07 48.5 | 18.3 | -0.93 | - 7.4 | 1.7/02.1 | 4854  |  |
| (11185)                | 2000 09 30.4 | 00 27.95 +01 05.5 | 17.4 | -0.74 | - 5.6 | 0.6/29.8 | 35259 |  |
| (11052)                | 2000 09 30.4 | 00 28.00 -16 38.5 | 17.1 | -0.78 | - 4.1 | 5.9/23.8 | 35225 |  |
| 2000 RE <sub>1</sub>   | 2000 09 30.4 | 00 28.06 +03 51.3 | 18.0 | -0.81 | - 5.0 | 0.3/30.8 | 4709  |  |
| 2000 RC <sub>41</sub>  | 2000 09 30.4 | 00 28.06 +14 49.8 | 17.3 | -0.79 | - 7.7 | 5.5/04.8 | 4745  |  |
| 2000 RC <sub>101</sub> | 2000 09 30.4 | 00 28.07 +24 53.2 | 17.7 | -0.88 | - 7.2 | 7.6/08.7 | 4797  |  |
| 2000 OA <sub>49</sub>  | 2000 09 30.5 | 00 28.03 +01 07.8 | 15.8 | -1.02 | - 2.0 | 0.9/30.0 | 4971  |  |
| 1998 BY                | 2000 09 30.5 | 00 28.07 +12 58.1 | 17.8 | -1.00 | - 3.0 | 3.7/03.5 | 4900  |  |
| (17127)                | 2000 09 30.5 | 00 28.11 +06 16.7 | 15.9 | -0.70 | -12.2 | 1.3/01.8 | 3034  |  |
| 1994 BN <sub>3</sub>   | 2000 09 30.5 | 00 28.11 +01 00.2 | 17.6 | -0.88 | - 7.3 | 0.8/29.8 | 4888  |  |
| 2000 PU <sub>12</sub>  | 2000 09 30.5 | 00 28.14 +25 07.4 | 16.1 | -0.93 | - 4.3 | 8.0/07.9 | 4593  |  |
| (17530)                | 2000 09 30.5 | 00 28.26 +00 36.3 | 16.4 | -0.99 | + 0.8 | 0.9/29.9 | 4077  |  |
| (17474)                | 2000 09 30.5 | 00 28.27 +01 39.1 | 16.7 | -0.97 | - 4.6 | 0.6/30.1 | 4061  |  |
| 2000 PJ <sub>26</sub>  | 2000 09 30.5 | 00 28.30 +25 15.9 | 17.1 | -0.84 | - 1.3 | 8.8/08.0 | 4978  |  |
| 2000 RA <sub>96</sub>  | 2000 09 30.5 | 00 28.34 +03 08.0 | 18.1 | -0.90 | - 7.1 | 0.0/30.6 | 4794  |  |
| 2000 RO <sub>1</sub>   | 2000 09 30.5 | 00 28.47 +06 51.2 | 18.5 | -1.08 | - 2.4 | 1.8/01.6 | 4710  |  |
| 2000 QV <sub>140</sub> | 2000 09 30.5 | 00 28.47 +02 20.0 | 17.5 | -1.05 | - 5.7 | 0.3/30.4 | 4659  |  |
| 2000 OP <sub>52</sub>  | 2000 09 30.6 | 00 28.40 +16 53.9 | 17.4 | -0.78 | - 7.0 | 5.1/05.6 | 4972  |  |
| (17310)                | 2000 09 30.6 | 00 28.45 +02 12.3 | 16.7 | -1.04 | - 1.5 | 0.4/30.4 | 3084  |  |
| 1999 FC <sub>30</sub>  | 2000 09 30.6 | 00 28.46 -02 10.9 | 19.3 | -0.91 | - 7.9 | 1.9/28.9 | 2645  |  |
| 2000 QT <sub>224</sub> | 2000 09 30.6 | 00 28.48 -13 45.0 | 17.6 | -0.95 | - 2.7 | 6.4/25.5 | 4704  |  |
| 2000 QJ <sub>102</sub> | 2000 09 30.6 | 00 28.55 -06 31.7 | 17.7 | -0.93 | - 3.3 | 4.7/27.8 | 5005  |  |
| 1997 AX <sub>1</sub>   | 2000 09 30.6 | 00 28.59 +27 58.1 | 16.4 | -0.98 | - 1.1 | 8.6/08.5 | 4342  |  |
| 2201 P-L               | 2000 09 30.6 | 00 28.63 +02 46.1 | 18.2 | -0.78 | - 3.5 | 0.1/30.6 | 4857  |  |
| (16425)                | 2000 09 30.6 | 00 28.66 +07 43.4 | 17.3 | -1.00 | - 5.0 | 1.9/02.1 | 2829  |  |
| 1998 BW                | 2000 09 30.6 | 00 28.70 +21 23.8 | 17.7 | -0.88 | - 3.2 | 5.0/06.7 | 4356  |  |
| 1999 JV <sub>49</sub>  | 2000 09 30.6 | 00 28.73 -01 44.4 | 18.8 | -0.90 | - 6.1 | 1.6/29.1 | 4936  |  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| (17717)                | 2000 09 30.6 | 00 28.83 -03 41.2 17.1 | -1.03 - 4.1 | 2.7/28.7  | 4132  |
| 1995 WQ <sub>2</sub>   | 2000 09 30.7 | 00 28.76 -23 16.8 18.3 | -0.84 - 1.8 | 7.8/21.9  | 4891  |
| 1998 HW <sub>116</sub> | 2000 09 30.7 | 00 28.80 -15 14.1 18.5 | -0.83 - 2.6 | 5.2/24.9  | 3893  |
| (11306)                | 2000 09 30.7 | 00 28.85 -05 48.8 17.8 | -0.75 - 5.0 | 2.7/27.7  | 35567 |
| 1999 JV <sub>51</sub>  | 2000 09 30.7 | 00 28.87 +18 19.1 18.1 | -0.81 - 8.6 | 5.0/06.4  | 4936  |
| 2000 QF <sub>146</sub> | 2000 09 30.7 | 00 28.91 -04 43.3 18.9 | -0.93 - 3.7 | 2.8/28.4  | 4665  |
| 2000 OJ <sub>49</sub>  | 2000 09 30.7 | 00 28.93 +05 10.4 16.9 | -1.13 + 1.8 | 0.9/01.2  | 4972  |
| 2000 RE <sub>73</sub>  | 2000 09 30.7 | 00 28.96 +03 55.4 17.7 | -0.86 - 5.9 | 0.4/01.0  | 4774  |
| 1999 JX <sub>118</sub> | 2000 09 30.7 | 00 28.97 +12 14.9 17.4 | -0.77 - 8.0 | 3.2/04.1  | 4941  |
| 2000 QU <sub>140</sub> | 2000 09 30.7 | 00 28.98 +03 55.4 17.5 | -0.92 - 1.7 | 0.2/31.0  | 4659  |
| (11050)                | 2000 09 30.7 | 00 28.98 +09 04.3 17.2 | -0.71 - 8.0 | 2.0/02.9  | 35224 |
| 2000 RG <sub>39</sub>  | 2000 09 30.7 | 00 29.03 +07 12.4 17.9 | -1.06 - 4.1 | 1.7/02.0  | 4743  |
| 2000 RB <sub>24</sub>  | 2000 09 30.7 | 00 29.15 +05 08.7 18.1 | -0.76 - 8.6 | 0.6/01.5  | 4728  |
| 1999 JD <sub>22</sub>  | 2000 09 30.7 | 00 29.18 +04 41.1 16.5 | -1.08 - 2.1 | 0.7/01.2  | 4934  |
| 1999 HP <sub>7</sub>   | 2000 09 30.7 | 00 29.18 +01 57.8 18.6 | -0.97 - 6.0 | 0.5/30.4  | 4932  |
| 2000 RA <sub>1</sub>   | 2000 09 30.8 | 00 29.18 +00 57.9 18.0 | -0.65 -10.9 | 0.6/30.0  | 4708  |
| 2000 QZ <sub>122</sub> | 2000 09 30.8 | 00 29.24 +14 43.7 18.2 | -0.83 - 3.6 | 3.7/04.6  | 5011  |
| 4221 T-1               | 2000 09 30.8 | 00 29.27 +00 46.1 19.1 | -0.71 - 5.7 | 0.7/30.0  | 5146  |
| (17945)                | 2000 09 30.8 | 00 29.29 +06 55.8 18.6 | -0.87 - 5.7 | 1.3/02.1  | 4199  |
| 1999 JB <sub>24</sub>  | 2000 09 30.8 | 00 29.33 +07 42.9 17.2 | -0.95 - 7.2 | 2.0/02.3  | 4934  |
| 2000 RG <sub>91</sub>  | 2000 09 30.8 | 00 29.37 +07 00.1 17.9 | -0.96 - 5.6 | 1.8/02.1  | 4788  |
| 2000 RE <sub>102</sub> | 2000 09 30.8 | 00 29.40 +22 23.8 18.1 | -0.95 - 1.6 | 9.2/06.8  | 5061  |
| 2000 RA <sub>73</sub>  | 2000 09 30.8 | 00 29.46 +04 50.0 17.3 | -0.97 - 5.8 | 0.7/01.4  | 4774  |
| (10751)                | 2000 09 30.8 | 00 29.51 +02 53.5 16.3 | -0.76 - 4.5 | 0.1/30.8  | 34757 |
| 1998 EC <sub>8</sub>   | 2000 09 30.8 | 00 29.53 -01 05.6 18.9 | -0.77 - 5.6 | 1.3/29.5  | 4904  |
| (18251)                | 2000 09 30.9 | 00 29.46 -03 48.2 18.4 | -1.06 - 3.7 | 2.7/28.9  | 4288  |
| 1996 NY                | 2000 09 30.9 | 00 29.47 -26 49.6 16.2 | -0.90 + 0.8 | 14.5/21.7 | 4892  |
| 2000 RX <sub>69</sub>  | 2000 09 30.9 | 00 29.52 -01 26.1 18.7 | -1.06 - 1.1 | 2.1/29.7  | 4768  |
| 2000 RN <sub>41</sub>  | 2000 09 30.9 | 00 29.54 +20 52.5 17.7 | -1.07 + 1.1 | 8.7/05.8  | 5046  |
| 4756 P-L               | 2000 09 30.9 | 00 29.57 +01 11.1 19.3 | -0.90 - 8.1 | 0.7/30.2  | 5145  |
| 1999 JY <sub>123</sub> | 2000 09 30.9 | 00 29.60 +00 16.6 18.8 | -0.82 - 6.2 | 0.9/30.0  | 4499  |
| 2000 PV <sub>12</sub>  | 2000 09 30.9 | 00 29.70 +27 49.3 16.6 | -0.99 - 0.8 | 10.1/08.5 | 4593  |
| (16659)                | 2000 09 30.9 | 00 29.78 +08 50.9 16.3 | -0.72 -22.8 | 2.3/03.4  | 2898  |
| (16401)                | 2000 09 30.9 | 00 29.79 +05 06.7 17.1 | -0.86 - 2.1 | 0.6/01.5  | 2822  |
| 2000 QL <sub>208</sub> | 2000 09 30.9 | 00 29.81 -01 36.6 19.1 | -0.84 - 2.4 | 1.6/29.5  | 4697  |
| 1995 SV <sub>16</sub>  | 2000 09 30.9 | 00 29.82 +03 05.6 18.7 | -0.79 - 5.2 | 0.0/30.9  | 4890  |
| (17487)                | 2000 09 30.9 | 00 29.85 -05 59.0 17.1 | -0.97 - 1.6 | 3.0/28.4  | 4065  |
| 2000 OQ <sub>48</sub>  | 2000 09 30.9 | 00 29.85 -07 53.1 17.8 | -0.84 - 4.9 | 5.4/27.4  | 4971  |
| 2000 QR <sub>140</sub> | 2000 10 01.0 | 00 29.83 +02 18.2 17.3 | -0.96 - 4.4 | 0.4/30.7  | 4658  |
| (11595)                | 2000 10 01.0 | 00 29.90 -05 30.8 17.4 | -0.99 - 5.3 | 3.3/28.3  | 35857 |
| (17424)                | 2000 10 01.0 | 00 29.97 -01 49.8 18.6 | -0.48 - 5.0 | 1.0/29.2  | 4047  |
| 1993 FM <sub>7</sub>   | 2000 10 01.0 | 00 30.12 -02 19.6 17.8 | -0.78 - 5.2 | 1.8/29.2  | 4886  |
| 2000 OY <sub>48</sub>  | 2000 10 01.0 | 00 30.18 +00 05.2 16.8 | -1.00 - 1.7 | 1.6/30.2  | 4971  |
| 1999 LM <sub>1</sub>   | 2000 10 01.0 | 00 30.20 +18 33.3 19.6 | -0.84 - 6.8 | 4.8/06.5  | 4504  |
| 2000 QN <sub>140</sub> | 2000 10 01.0 | 00 30.25 -01 36.5 17.1 | -0.71 -11.1 | 2.1/29.2  | 5015  |
| 2000 QH <sub>104</sub> | 2000 10 01.1 | 00 30.19 -11 13.0 17.1 | -1.09 + 4.4 | 6.9/28.1  | 5006  |
| 2000 RE <sub>41</sub>  | 2000 10 01.1 | 00 30.21 +15 09.1 18.3 | -0.76 - 6.0 | 3.5/05.3  | 4745  |
| 9086 P-L               | 2000 10 01.1 | 00 30.22 +09 46.6 16.6 | -0.33 -10.4 | 3.7/04.0  | 5146  |
| 1995 WJ <sub>7</sub>   | 2000 10 01.1 | 00 30.22 +23 51.8 15.9 | -0.72 - 6.5 | 7.6/09.0  | 4891  |
| 2000 SH <sub>33</sub>  | 2000 10 01.1 | 00 30.25 -02 49.3 18.1 | -0.83 - 5.3 | 2.3/29.1  | 4810  |
| 2000 RH <sub>73</sub>  | 2000 10 01.1 | 00 30.26 +02 28.8 17.0 | -0.82 - 6.4 | 0.3/30.9  | 4775  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| (17161)                | 2000 10 01.1 | 00 30.29 +03 08.6 16.6 | -0.67 - 6.6 | 0.0/01.1  | 3044  |
| 2000 ON <sub>47</sub>  | 2000 10 01.1 | 00 30.30 -06 01.3 16.8 | -0.66 -13.6 | 3.8/27.3  | 4971  |
| 1998 DS <sub>20</sub>  | 2000 10 01.1 | 00 30.33 -01 27.9 19.7 | -0.66 - 7.6 | 1.2/29.4  | 4904  |
| 1995 UG <sub>12</sub>  | 2000 10 01.1 | 00 30.35 +04 16.9 18.9 | -0.79 - 4.6 | 0.3/01.5  | 4329  |
| 1995 WW <sub>28</sub>  | 2000 10 01.1 | 00 30.38 -19 07.5 18.7 | -0.85 - 1.8 | 6.1/24.0  | 3875  |
| (18277)                | 2000 10 01.1 | 00 30.41 +01 45.1 18.2 | -0.78 - 6.4 | 0.5/30.6  | 4295  |
| 4256 T-2               | 2000 10 01.1 | 00 30.44 -03 15.4 19.1 | -0.86 - 1.8 | 2.2/29.2  | 4869  |
| 1993 FM <sub>37</sub>  | 2000 10 01.1 | 00 30.51 +01 01.7 19.1 | -0.75 - 5.4 | 0.7/30.4  | 4314  |
| 1998 FL <sub>104</sub> | 2000 10 01.1 | 00 30.53 +15 27.5 18.5 | -0.83 - 3.5 | 3.7/05.1  | 4910  |
| 1999 JV <sub>54</sub>  | 2000 10 01.1 | 00 30.55 +01 37.3 18.5 | -0.79 - 4.7 | 0.5/30.6  | 4474  |
| 1998 FE <sub>48</sub>  | 2000 10 01.1 | 00 30.57 +11 22.9 17.8 | -0.98 + 0.2 | 2.7/03.4  | 4907  |
| (11233)                | 2000 10 01.1 | 00 30.61 -23 30.9 16.1 | -0.82 - 4.0 | 10.7/21.8 | 35271 |
| 2000 RN <sub>91</sub>  | 2000 10 01.2 | 00 30.64 +06 09.8 18.2 | -0.94 - 7.4 | 1.1/02.2  | 4788  |
| 1994 PG <sub>39</sub>  | 2000 10 01.2 | 00 30.67 +03 50.5 18.5 | -0.74 - 4.9 | 0.1/01.4  | 4889  |
| 1996 FP <sub>1</sub>   | 2000 10 01.2 | 00 30.69 +03 52.6 18.9 | -0.60 - 3.3 | 0.1/01.4  | 4891  |
| 1999 GQ <sub>40</sub>  | 2000 10 01.2 | 00 30.70 -10 08.8 17.5 | -1.01 - 4.1 | 5.4/27.2  | 4932  |
| 1994 PL <sub>21</sub>  | 2000 10 01.2 | 00 30.71 +01 45.9 18.2 | -0.73 - 4.9 | 0.5/30.7  | 4889  |
| (18204)                | 2000 10 01.2 | 00 30.72 +12 53.2 18.5 | -0.84 - 6.2 | 3.5/04.5  | 4274  |
| 1997 UE <sub>24</sub>  | 2000 10 01.2 | 00 30.83 +07 59.3 18.5 | -0.98 - 4.4 | 2.4/02.7  | 4898  |
| 2000 OS <sub>50</sub>  | 2000 10 01.2 | 00 30.85 -03 47.2 17.0 | -0.93 - 5.6 | 2.9/29.0  | 4972  |
| 1999 GE <sub>17</sub>  | 2000 10 01.2 | 00 30.85 -00 16.2 16.1 | -0.99 - 1.4 | 1.5/30.3  | 4441  |
| (17936)                | 2000 10 01.2 | 00 30.88 +09 24.1 18.2 | -0.97 - 6.3 | 2.4/03.2  | 4197  |
| (17680)                | 2000 10 01.3 | 00 30.98 -00 11.7 18.5 | -0.72 - 4.8 | 1.0/30.1  | 4121  |
| 2000 RK <sub>91</sub>  | 2000 10 01.3 | 00 31.06 +10 02.8 18.9 | -1.04 - 4.0 | 2.6/03.3  | 4788  |
| 2000 OZ <sub>6</sub>   | 2000 10 01.3 | 00 31.08 +15 54.8 16.4 | -1.09 - 0.1 | 5.1/05.0  | 4963  |
| 1999 JT <sub>78</sub>  | 2000 10 01.3 | 00 31.09 -05 16.1 19.1 | -0.77 -10.3 | 2.9/28.1  | 4939  |
| (10850)                | 2000 10 01.3 | 00 31.15 -00 04.3 16.8 | -1.12 + 2.0 | 1.8/30.6  | 3859  |
| 2000 PF <sub>8</sub>   | 2000 10 01.3 | 00 31.16 +15 14.2 16.0 | -0.72 -12.3 | 4.6/06.1  | 4975  |
| 1996 TT <sub>1</sub>   | 2000 10 01.3 | 00 31.18 -00 20.9 18.7 | -0.92 - 4.1 | 1.3/30.2  | 4893  |
| (17890)                | 2000 10 01.3 | 00 31.19 -23 50.0 15.5 | -0.84 - 5.2 | 10.6/21.2 | 4183  |
| 1997 WG <sub>2</sub>   | 2000 10 01.3 | 00 31.24 +04 27.8 18.5 | -0.96 - 6.6 | 0.4/01.7  | 4352  |
| 2000 RG <sub>86</sub>  | 2000 10 01.3 | 00 31.24 +01 26.6 18.0 | -0.85 - 6.7 | 0.7/30.7  | 4784  |
| 2000 QM <sub>122</sub> | 2000 10 01.3 | 00 31.26 +16 15.8 17.0 | -0.86 - 0.4 | 6.7/05.3  | 5011  |
| 2000 QA <sub>123</sub> | 2000 10 01.3 | 00 31.28 +14 58.9 16.5 | -0.94 - 4.7 | 4.8/05.1  | 5011  |
| (17412)                | 2000 10 01.3 | 00 31.36 -06 26.0 17.6 | -0.95 - 5.0 | 3.6/28.4  | 4044  |
| 2000 PL <sub>6</sub>   | 2000 10 01.3 | 00 31.40 +51 44.3 16.0 | -1.63 +21.6 | 29.1/02.5 | 4975  |
| (17017)                | 2000 10 01.4 | 00 31.28 +02 00.4 16.5 | -0.91 - 7.1 | 0.7/31.0  | 3003  |
| 1999 RK <sub>225</sub> | 2000 10 01.4 | 00 31.40 -05 50.8 18.4 | -0.47 - 3.9 | 1.7/28.1  | 4947  |
| 1989 SY <sub>3</sub>   | 2000 10 01.4 | 00 31.40 -03 31.7 17.5 | -0.90 - 5.6 | 3.1/29.2  | 4882  |
| 1998 BD <sub>1</sub>   | 2000 10 01.4 | 00 31.40 +20 00.2 17.9 | -0.93 - 3.4 | 5.1/06.7  | 4901  |
| 1999 JC <sub>95</sub>  | 2000 10 01.4 | 00 31.44 +03 40.1 18.0 | -0.75 - 9.6 | 0.1/01.5  | 4940  |
| 1999 JT <sub>69</sub>  | 2000 10 01.4 | 00 31.44 -06 19.9 18.4 | -0.85 - 6.0 | 3.3/28.2  | 4938  |
| 2000 RX <sub>1</sub>   | 2000 10 01.4 | 00 31.58 +04 26.1 17.3 | -0.99 - 3.1 | 0.4/01.8  | 5035  |
| 1999 JG <sub>68</sub>  | 2000 10 01.4 | 00 31.59 -07 54.7 16.4 | -0.75 - 6.0 | 5.1/27.6  | 4938  |
| 2000 QJ <sub>141</sub> | 2000 10 01.4 | 00 31.63 -01 39.1 17.3 | -0.92 - 4.6 | 2.1/29.9  | 5015  |
| 2000 RL <sub>28</sub>  | 2000 10 01.4 | 00 31.67 +09 00.6 17.8 | -1.04 - 5.0 | 2.4/03.2  | 5042  |
| 1998 FN <sub>30</sub>  | 2000 10 01.5 | 00 31.64 +10 21.0 18.7 | -0.86 - 2.4 | 2.1/03.6  | 4906  |
| 1999 HA <sub>8</sub>   | 2000 10 01.5 | 00 31.64 +03 03.3 18.1 | -0.94 - 5.9 | 0.1/01.4  | 4932  |
| 1994 PP <sub>20</sub>  | 2000 10 01.5 | 00 31.65 -00 41.1 17.6 | -0.71 - 5.4 | 1.4/30.1  | 4889  |
| 2000 QQ <sub>140</sub> | 2000 10 01.5 | 00 31.68 +01 03.2 17.7 | -0.84 - 6.5 | 1.1/30.7  | 4658  |
| 1999 JS <sub>83</sub>  | 2000 10 01.5 | 00 31.71 -05 04.8 18.6 | -0.79 - 9.1 | 2.8/28.5  | 4940  |

|                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|----------|-------|
| (17152)                | 2000 10 01.5 | 00 31.74 +16 53.3 15.5 | -0.88 - 7.3 | 4.8/06.3 | 3041  |
| (16577)                | 2000 10 01.5 | 00 31.76 +00 53.3 17.4 | -0.93 - 7.5 | 1.1/30.7 | 2874  |
| 2000 RK <sub>28</sub>  | 2000 10 01.5 | 00 31.78 +08 57.8 17.8 | -1.00 - 5.0 | 2.4/03.3 | 4732  |
| 2000 OV <sub>48</sub>  | 2000 10 01.5 | 00 31.80 -00 44.7 17.3 | -0.85 - 2.2 | 1.9/30.3 | 4971  |
| 1994 ES <sub>6</sub>   | 2000 10 01.5 | 00 31.96 -07 07.3 18.0 | -0.46 - 3.3 | 1.8/27.8 | 4321  |
| 2000 OZ <sub>8</sub>   | 2000 10 01.5 | 00 31.96 -08 34.7 16.8 | -0.60 -12.4 | 4.3/26.6 | 4964  |
| 1997 WQ <sub>49</sub>  | 2000 10 01.5 | 00 32.00 +10 51.2 21.7 | -0.77 - 5.1 | 1.8/04.1 | 3882  |
| 1998 FP <sub>90</sub>  | 2000 10 01.5 | 00 32.02 +07 25.4 16.2 | -1.18 + 2.0 | 1.5/02.5 | 4910  |
| 2000 RO <sub>34</sub>  | 2000 10 01.5 | 00 32.05 +12 04.7 18.1 | -0.79 - 9.3 | 3.4/05.0 | 4740  |
| 1999 JA <sub>43</sub>  | 2000 10 01.6 | 00 32.01 -11 32.6 18.3 | -0.92 - 1.0 | 6.0/27.3 | 4467  |
| 1997 WP <sub>7</sub>   | 2000 10 01.6 | 00 32.02 +04 24.9 16.5 | -0.90 - 5.3 | 0.5/01.9 | 4898  |
| (17345)                | 2000 10 01.6 | 00 32.12 +07 36.6 17.3 | -1.03 - 5.5 | 1.7/02.9 | 3094  |
| 1989 UQ <sub>5</sub>   | 2000 10 01.6 | 00 32.15 +01 31.8 18.6 | -0.48 - 3.6 | 0.4/30.9 | 4306  |
| (17763)                | 2000 10 01.6 | 00 32.21 -05 21.4 18.2 | -0.81 - 6.7 | 3.0/28.6 | 4145  |
| 1999 JV <sub>62</sub>  | 2000 10 01.6 | 00 32.27 +18 59.0 18.6 | -0.72 - 8.7 | 4.7/07.7 | 4937  |
| 1997 WU <sub>36</sub>  | 2000 10 01.6 | 00 32.31 -12 48.9 16.5 | -0.96 - 2.6 | 8.1/26.9 | 4353  |
| (17834)                | 2000 10 01.6 | 00 32.32 +06 52.7 16.7 | -0.71 - 7.7 | 1.0/02.9 | 4167  |
| 1998 DL <sub>6</sub>   | 2000 10 01.6 | 00 32.40 -03 56.9 18.5 | -0.87 - 4.7 | 2.7/29.3 | 4903  |
| (11237)                | 2000 10 01.6 | 00 32.41 +02 26.5 16.7 | -0.83 - 7.0 | 0.4/01.3 | 4878  |
| 2000 SF <sub>36</sub>  | 2000 10 01.6 | 00 32.43 -01 59.3 18.9 | -0.77 - 5.1 | 1.7/29.9 | 4810  |
| 1991 GY <sub>8</sub>   | 2000 10 01.7 | 00 32.37 -01 25.9 18.7 | -1.03 - 2.0 | 1.6/30.3 | 4884  |
| 1999 JM <sub>30</sub>  | 2000 10 01.7 | 00 32.37 +09 44.1 18.6 | -0.98 - 5.5 | 2.2/03.7 | 4935  |
| 2000 RK <sub>73</sub>  | 2000 10 01.7 | 00 32.45 +02 47.8 18.3 | -1.03 - 2.1 | 0.3/01.5 | 4775  |
| 1995 OF <sub>3</sub>   | 2000 10 01.7 | 00 32.51 -03 08.5 18.3 | -0.77 - 7.9 | 2.1/29.4 | 4890  |
| 3127 T-2               | 2000 10 01.7 | 00 32.53 +01 38.4 18.4 | -0.87 - 4.2 | 0.7/01.2 | 4868  |
| 2000 QW <sub>122</sub> | 2000 10 01.7 | 00 32.71 +08 27.2 18.8 | -0.69 - 6.9 | 1.4/03.5 | 5011  |
| 2000 RF <sub>1</sub>   | 2000 10 01.7 | 00 32.77 +00 30.7 15.8 | -0.77 -11.1 | 1.5/30.7 | 4709  |
| 1996 SX <sub>6</sub>   | 2000 10 01.7 | 00 32.80 +13 15.6 18.9 | -0.82 - 6.6 | 3.6/05.1 | 4336  |
| 2000 SX <sub>173</sub> | 2000 10 01.8 | 00 32.77 +23 23.2 18.9 | -0.92 - 5.7 | 7.0/08.9 | 4846  |
| 4801 P-L               | 2000 10 01.8 | 00 32.77 +00 05.9 19.2 | -0.74 - 4.6 | 1.0/30.7 | 5145  |
| (17935)                | 2000 10 01.8 | 00 32.79 +03 56.3 17.1 | -0.76 - 9.1 | 0.2/02.0 | 4196  |
| 2000 RM <sub>32</sub>  | 2000 10 01.8 | 00 32.79 +09 01.4 19.1 | -0.73 - 6.1 | 1.6/03.7 | 4738  |
| 2000 RK <sub>1</sub>   | 2000 10 01.8 | 00 32.91 +03 33.9 17.2 | -0.83 - 9.9 | 0.0/01.8 | 4709  |
| 4111 T-1               | 2000 10 01.8 | 00 32.93 -00 55.3 19.1 | -0.77 - 3.9 | 1.3/30.4 | 38192 |
| 2000 QY <sub>122</sub> | 2000 10 01.8 | 00 32.97 +09 27.2 17.7 | -0.69 - 9.6 | 1.7/04.1 | 4645  |
| (10846)                | 2000 10 01.8 | 00 32.97 +11 42.3 17.3 | -0.95 - 7.2 | 2.9/04.6 | 34782 |
| 1998 BT <sub>2</sub>   | 2000 10 01.8 | 00 33.05 -06 08.9 18.1 | -0.94 - 5.7 | 3.9/28.7 | 4901  |
| 2000 QN <sub>141</sub> | 2000 10 01.8 | 00 33.06 -00 50.0 18.2 | -0.95 - 0.1 | 2.3/30.7 | 4660  |
| 2000 SQ                | 2000 10 01.8 | 00 33.16 +04 42.6 19.7 | -0.86 - 3.5 | 0.4/02.2 | 4801  |
| (16478)                | 2000 10 01.9 | 00 33.11 +03 02.1 16.9 | -1.01 - 3.7 | 0.3/01.8 | 2846  |
| (16459)                | 2000 10 01.9 | 00 33.14 -00 09.1 16.5 | -0.75 - 6.9 | 1.8/30.6 | 2840  |
| 1999 HP                | 2000 10 01.9 | 00 33.14 +05 03.7 19.6 | -0.87 - 6.1 | 0.5/02.4 | 4932  |
| (17425)                | 2000 10 01.9 | 00 33.17 +21 32.2 17.7 | -0.95 - 3.6 | 6.1/07.6 | 4047  |
| 1999 JE <sub>67</sub>  | 2000 10 01.9 | 00 33.22 -02 52.1 19.3 | -0.87 - 5.8 | 2.1/29.8 | 4938  |
| 1998 FD <sub>35</sub>  | 2000 10 01.9 | 00 33.29 +03 07.5 18.4 | -0.73 - 5.2 | 0.1/01.8 | 4907  |
| 2000 RQ <sub>41</sub>  | 2000 10 01.9 | 00 33.40 +17 19.3 19.5 | -0.92 - 3.0 | 4.2/06.2 | 4745  |
| 2000 SO <sub>66</sub>  | 2000 10 01.9 | 00 33.51 +04 17.4 19.0 | -0.96 - 8.5 | 0.3/02.2 | 4817  |
| 1998 HH <sub>130</sub> | 2000 10 02.0 | 00 33.49 +03 03.2 19.1 | -0.70 - 8.0 | 0.2/01.8 | 4410  |
| 2000 QZ <sub>102</sub> | 2000 10 02.0 | 00 33.55 -07 49.6 17.9 | -0.88 - 3.5 | 4.1/28.5 | 4636  |
| 1998 BC                | 2000 10 02.0 | 00 33.60 +13 14.8 18.5 | -0.99 - 3.4 | 3.5/05.0 | 4900  |
| 2000 QN <sub>102</sub> | 2000 10 02.0 | 00 33.63 -04 59.3 17.8 | -0.80 - 5.5 | 4.1/29.2 | 5005  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1998 BU                | 2000 10 02.0 | 00 33.74 +05 05.6 19.5 | -0.89 - 4.4 | 0.4/02.5  | 4900  |
| 1998 BD <sub>19</sub>  | 2000 10 02.0 | 00 33.75 +03 12.0 19.5 | -1.07 - 3.8 | 0.2/01.9  | 4359  |
| 2000 RT <sub>85</sub>  | 2000 10 02.0 | 00 33.77 +01 07.2 18.5 | -0.75 - 5.2 | 0.8/01.2  | 4783  |
| 3923 T-3               | 2000 10 02.0 | 00 33.79 +00 21.0 19.6 | -0.86 - 3.7 | 1.1/01.1  | 4874  |
| 2000 QE <sub>102</sub> | 2000 10 02.0 | 00 33.81 -12 03.1 16.6 | -0.67 - 9.6 | 6.8/25.9  | 5005  |
| (16867)                | 2000 10 02.0 | 00 33.82 +08 15.9 17.1 | -1.02 - 3.2 | 1.9/03.4  | 2958  |
| 1994 PF <sub>1</sub>   | 2000 10 02.0 | 00 33.86 -40 58.0 18.4 | -1.05 - 5.5 | 19.0/15.0 | 34291 |
| 2000 OX <sub>47</sub>  | 2000 10 02.1 | 00 33.82 +07 24.9 16.6 | -0.90 - 3.3 | 1.8/03.3  | 4971  |
| 2000 RV <sub>90</sub>  | 2000 10 02.1 | 00 33.93 +13 23.1 18.2 | -0.87 - 8.3 | 4.5/05.6  | 5057  |
| (18281)                | 2000 10 02.1 | 00 33.93 -00 09.6 19.1 | -0.48 - 4.4 | 0.7/30.7  | 4296  |
| (16643)                | 2000 10 02.1 | 00 33.94 +05 55.1 17.2 | -1.08 - 2.8 | 0.9/02.8  | 2894  |
| (16385)                | 2000 10 02.1 | 00 33.95 +13 35.5 16.1 | -0.68 - 9.9 | 4.4/06.0  | 2818  |
| 1998 HA <sub>130</sub> | 2000 10 02.1 | 00 33.96 +04 41.3 19.2 | -0.74 - 8.0 | 0.3/02.5  | 4410  |
| 2000 QB <sub>141</sub> | 2000 10 02.1 | 00 34.02 -00 51.9 17.8 | -0.75 - 6.8 | 1.3/30.6  | 4659  |
| 1999 FG <sub>35</sub>  | 2000 10 02.1 | 00 34.03 +01 12.8 18.4 | -0.86 - 6.9 | 0.9/01.3  | 4929  |
| 2000 QM <sub>143</sub> | 2000 10 02.1 | 00 34.17 +01 05.5 18.3 | -0.81 - 6.5 | 1.0/01.3  | 4663  |
| 2000 QG <sub>126</sub> | 2000 10 02.1 | 00 34.24 -00 52.2 16.9 | -0.93 - 2.8 | 2.4/30.9  | 4651  |
| 1999 JT <sub>38</sub>  | 2000 10 02.2 | 00 34.18 +03 01.3 18.0 | -0.95 - 5.0 | 0.2/02.0  | 4935  |
| 1999 JK <sub>48</sub>  | 2000 10 02.2 | 00 34.22 +09 39.5 19.0 | -0.91 - 5.0 | 2.1/04.1  | 4469  |
| 1998 FV <sub>43</sub>  | 2000 10 02.2 | 00 34.22 +06 35.9 18.7 | -0.86 - 2.5 | 0.9/03.1  | 4907  |
| 2000 RY <sub>32</sub>  | 2000 10 02.2 | 00 34.24 +09 23.1 18.0 | -0.78 - 6.6 | 2.3/04.2  | 4738  |
| 1998 FV <sub>52</sub>  | 2000 10 02.2 | 00 34.26 +02 16.7 19.7 | -0.74 - 5.1 | 0.4/01.7  | 3889  |
| 1999 GP <sub>17</sub>  | 2000 10 02.2 | 00 34.27 -05 32.7 18.1 | -1.06 - 2.8 | 3.5/29.7  | 4930  |
| 1999 JC <sub>79</sub>  | 2000 10 02.2 | 00 34.28 -20 21.3 15.7 | -0.73 - 8.9 | 9.6/22.7  | 4939  |
| (11275)                | 2000 10 02.2 | 00 34.44 -25 44.3 17.7 | -0.51 - 3.6 | 5.5/20.8  | 35560 |
| 1999 JE <sub>124</sub> | 2000 10 02.2 | 00 34.49 -26 04.2 16.3 | -0.95 - 3.1 | 10.9/21.7 | 4942  |
| 2000 QX <sub>141</sub> | 2000 10 02.2 | 00 34.55 +01 24.6 16.7 | -1.02 - 0.8 | 1.0/01.7  | 5015  |
| 1988 RE <sub>12</sub>  | 2000 10 02.2 | 00 34.56 -01 18.0 20.4 | -0.48 - 5.3 | 1.0/30.4  | 15560 |
| 1999 JT <sub>28</sub>  | 2000 10 02.3 | 00 34.57 +04 20.6 19.4 | -0.99 - 5.1 | 0.2/02.5  | 4461  |
| (16917)                | 2000 10 02.3 | 00 34.61 +03 21.9 16.7 | -0.78 - 5.8 | 0.1/02.2  | 2972  |
| 1998 FG <sub>10</sub>  | 2000 10 02.3 | 00 34.62 +07 36.2 18.5 | -0.82 - 5.0 | 1.3/03.6  | 4905  |
| 1990 WN <sub>5</sub>   | 2000 10 02.3 | 00 34.65 -10 28.2 16.5 | -0.82 - 2.7 | 4.2/27.9  | 4883  |
| 2000 RR <sub>32</sub>  | 2000 10 02.3 | 00 34.71 +13 16.9 17.2 | -0.83 - 8.4 | 4.2/05.7  | 5043  |
| (16689)                | 2000 10 02.3 | 00 34.71 -09 42.2 16.9 | -0.70 - 7.0 | 4.1/27.4  | 2906  |
| 2000 SM <sub>185</sub> | 2000 10 02.3 | 00 34.73 +05 37.4 19.4 | -0.95 - 5.2 | 0.7/02.9  | 4847  |
| 2000 SN <sub>102</sub> | 2000 10 02.3 | 00 34.85 +06 54.4 17.9 | -0.96 - 7.6 | 1.3/03.4  | 4824  |
| 4052 P-L               | 2000 10 02.3 | 00 34.87 +09 05.3 17.1 | -0.73 - 7.8 | 1.8/04.3  | 5144  |
| 1997 YW <sub>4</sub>   | 2000 10 02.3 | 00 34.95 +10 36.6 18.5 | -0.90 - 8.0 | 2.5/04.7  | 4899  |
| 1999 FD <sub>59</sub>  | 2000 10 02.4 | 00 35.05 -00 14.4 17.6 | -1.00 - 4.2 | 1.6/01.3  | 4929  |
| 1997 HT <sub>5</sub>   | 2000 10 02.4 | 00 35.13 +00 33.5 18.5 | -0.68 - 8.5 | 0.9/01.3  | 4897  |
| 1991 FK                | 2000 10 02.4 | 00 35.22 +13 13.7 16.4 | -1.61 + 4.0 | 4.5/04.2  | 4883  |
| 1981 EB <sub>14</sub>  | 2000 10 02.4 | 00 35.25 +12 03.4 17.9 | -0.75 - 5.7 | 2.7/05.3  | 4880  |
| (16443)                | 2000 10 02.4 | 00 35.28 +08 18.3 16.8 | -1.06 - 3.9 | 2.0/03.8  | 2835  |
| 2000 QL <sub>102</sub> | 2000 10 02.4 | 00 35.30 -10 19.2 17.8 | -0.74 - 8.8 | 4.7/27.2  | 4635  |
| 1999 FD <sub>27</sub>  | 2000 10 02.4 | 00 35.30 -04 43.7 19.3 | -0.80 - 9.1 | 2.9/29.5  | 4435  |
| 1999 JK <sub>32</sub>  | 2000 10 02.4 | 00 35.32 +01 44.3 18.9 | -0.91 - 7.2 | 0.8/01.8  | 4935  |
| 2000 RS <sub>27</sub>  | 2000 10 02.4 | 00 35.33 +02 34.9 18.2 | -0.79 -13.7 | 0.5/02.0  | 4731  |
| 1998 DE <sub>35</sub>  | 2000 10 02.5 | 00 35.31 -01 10.8 18.1 | -0.83 - 6.1 | 1.7/30.9  | 4904  |
| (10268)                | 2000 10 02.5 | 00 35.31 +04 28.5 16.7 | -0.99 - 6.4 | 0.3/02.7  | 3858  |
| (10784)                | 2000 10 02.5 | 00 35.33 -17 00.5 17.4 | -0.80 - 7.5 | 6.8/24.9  | 34766 |
| 2000 RM <sub>1</sub>   | 2000 10 02.5 | 00 35.37 +06 40.2 17.2 | -0.91 - 4.2 | 1.4/03.4  | 4710  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| (17081)                | 2000 10 02.5 | 00 35.44 -04 51.3 15.2 | -0.68 - 9.6 | 4.2/29.2  | 3021  |
| 2000 QY <sub>140</sub> | 2000 10 02.5 | 00 35.44 -02 10.8 17.0 | -0.76 - 9.4 | 2.7/30.4  | 5015  |
| 1998 BV <sub>18</sub>  | 2000 10 02.5 | 00 35.48 -00 53.0 20.3 | -0.73 - 4.3 | 1.1/01.0  | 38046 |
| 1998 HW <sub>135</sub> | 2000 10 02.5 | 00 35.50 -02 38.5 17.2 | -0.85 - 2.4 | 2.0/30.6  | 4914  |
| 1994 PC <sub>12</sub>  | 2000 10 02.5 | 00 35.54 +19 52.5 18.6 | -0.84 - 2.9 | 4.4/07.8  | 4889  |
| 2000 OB <sub>49</sub>  | 2000 10 02.5 | 00 35.55 -02 18.5 16.1 | -0.91 - 4.1 | 2.9/30.7  | 4971  |
| (10858)                | 2000 10 02.6 | 00 35.62 -00 33.7 18.1 | -0.89 - 6.5 | 1.5/01.2  | 34785 |
| 1998 HX <sub>53</sub>  | 2000 10 02.6 | 00 35.71 +02 56.6 18.8 | -0.70 - 7.8 | 0.3/02.3  | 4405  |
| 1999 GL <sub>47</sub>  | 2000 10 02.6 | 00 35.72 -08 05.7 17.2 | -0.99 - 4.6 | 5.0/29.0  | 4932  |
| (17475)                | 2000 10 02.6 | 00 35.75 +04 22.6 18.6 | -0.89 - 7.3 | 0.2/02.8  | 4061  |
| 1999 JO <sub>54</sub>  | 2000 10 02.6 | 00 35.81 +21 05.3 16.5 | -0.86 - 7.0 | 5.6/08.9  | 4937  |
| 1996 TP <sub>13</sub>  | 2000 10 02.6 | 00 35.83 +06 17.1 17.6 | -0.75 - 8.7 | 1.1/03.5  | 4894  |
| 2000 RR <sub>34</sub>  | 2000 10 02.6 | 00 35.99 +11 51.5 18.7 | -0.96 - 5.3 | 2.9/05.2  | 4741  |
| 2000 QR <sub>141</sub> | 2000 10 02.6 | 00 36.02 -02 25.6 19.0 | -0.84 - 4.0 | 1.9/30.7  | 4660  |
| (17926)                | 2000 10 02.7 | 00 36.09 +02 48.7 17.4 | -1.06 - 4.4 | 0.4/02.4  | 4194  |
| 1993 FJ <sub>48</sub>  | 2000 10 02.7 | 00 36.12 +04 00.2 18.8 | -0.77 - 5.4 | 0.0/02.8  | 4886  |
| 2599 P-L               | 2000 10 02.7 | 00 36.15 +04 43.4 18.2 | -0.82 - 8.8 | 0.3/03.0  | 5144  |
| 2000 RH <sub>41</sub>  | 2000 10 02.7 | 00 36.22 +13 11.9 16.7 | -0.67 - 8.9 | 2.9/06.3  | 4745  |
| 1998 FE <sub>57</sub>  | 2000 10 02.7 | 00 36.25 +03 04.2 18.1 | -0.78 - 5.7 | 0.3/02.5  | 4384  |
| 2000 QN <sub>104</sub> | 2000 10 02.7 | 00 36.30 -02 42.3 15.6 | -1.17 + 5.9 | 3.5/01.5  | 5006  |
| (11622)                | 2000 10 02.7 | 00 36.31 -12 48.4 16.8 | -1.00 - 0.1 | 6.4/28.3  | 35864 |
| (17577)                | 2000 10 02.7 | 00 36.39 -02 44.0 18.6 | -0.70 - 5.8 | 1.8/30.5  | 4090  |
| 1998 FL <sub>54</sub>  | 2000 10 02.7 | 00 36.43 +05 35.9 18.0 | -0.83 - 5.1 | 0.6/03.3  | 4383  |
| 2000 QH <sub>103</sub> | 2000 10 02.8 | 00 36.40 -03 50.4 19.1 | -1.07 - 0.6 | 2.8/30.8  | 4636  |
| 2000 RZ <sub>1</sub>   | 2000 10 02.8 | 00 36.41 +04 21.9 17.2 | -0.97 - 3.9 | 0.2/02.9  | 4711  |
| 2000 OM <sub>49</sub>  | 2000 10 02.8 | 00 36.42 +01 17.6 16.5 | -1.16 + 2.3 | 1.1/02.2  | 4972  |
| 1999 JA <sub>16</sub>  | 2000 10 02.8 | 00 36.52 -02 56.4 18.2 | -0.92 - 4.1 | 2.4/30.8  | 4933  |
| 1998 BJ <sub>15</sub>  | 2000 10 02.8 | 00 36.53 +30 08.3 18.3 | -0.96 - 4.1 | 11.5/12.1 | 4358  |
| 1992 DO <sub>7</sub>   | 2000 10 02.8 | 00 36.56 -01 20.1 19.2 | -0.72 - 4.6 | 1.4/01.1  | 32304 |
| (16813)                | 2000 10 02.8 | 00 36.64 +05 42.6 17.2 | -0.98 - 7.6 | 0.6/03.4  | 2941  |
| (17532)                | 2000 10 02.8 | 00 36.66 -00 57.4 18.3 | -0.70 - 7.9 | 1.6/01.1  | 4078  |
| 1999 FF <sub>19</sub>  | 2000 10 02.8 | 00 36.68 +07 15.1 19.0 | -0.98 - 7.2 | 1.2/03.9  | 4928  |
| 1981 DK <sub>2</sub>   | 2000 10 02.8 | 00 36.76 +12 37.5 20.2 | -0.87 - 4.5 | 2.4/05.7  | 31579 |
| 1471 T-2               | 2000 10 02.8 | 00 36.76 +04 16.4 18.9 | -0.90 - 3.9 | 0.1/03.0  | 4866  |
| 2000 QR <sub>146</sub> | 2000 10 02.8 | 00 36.78 -04 13.7 17.9 | -1.02 - 4.7 | 3.1/30.5  | 4665  |
| 2000 RX <sub>68</sub>  | 2000 10 02.9 | 00 36.78 +06 15.2 18.0 | -0.87 - 4.8 | 1.1/03.6  | 4767  |
| 1998 FS <sub>53</sub>  | 2000 10 02.9 | 00 36.81 +11 20.4 19.6 | -0.83 - 2.6 | 1.9/05.2  | 4907  |
| 2000 OW <sub>47</sub>  | 2000 10 02.9 | 00 36.82 +05 15.9 16.9 | -0.95 - 3.2 | 0.7/03.3  | 4971  |
| 2000 RL <sub>42</sub>  | 2000 10 02.9 | 00 36.83 +21 28.6 18.2 | -1.20 - 0.5 | 7.4/07.9  | 4746  |
| 1998 EL <sub>12</sub>  | 2000 10 02.9 | 00 36.85 -08 57.3 17.7 | -0.72 - 6.4 | 3.8/28.4  | 4905  |
| 2202 T-1               | 2000 10 02.9 | 00 36.85 +00 38.5 19.9 | -0.72 - 5.2 | 0.8/01.8  | 5146  |
| 1999 JT <sub>81</sub>  | 2000 10 02.9 | 00 36.87 -19 29.4 17.7 | -0.89 - 3.2 | 8.4/25.6  | 4488  |
| 2000 RW <sub>4</sub>   | 2000 10 02.9 | 00 36.91 +05 52.3 18.2 | -1.13 + 0.5 | 0.6/03.4  | 5036  |
| 2000 SX <sub>190</sub> | 2000 10 02.9 | 00 37.04 +09 10.9 19.2 | -0.86 - 4.4 | 1.9/04.6  | 4848  |
| 2000 NM <sub>5</sub>   | 2000 10 02.9 | 00 37.07 -14 47.0 16.1 | -0.54 - 9.9 | 9.5/25.0  | 4957  |
| 1998 FR <sub>25</sub>  | 2000 10 02.9 | 00 37.09 +07 59.1 19.1 | -0.85 - 5.1 | 1.3/04.3  | 4378  |
| 1999 GE <sub>20</sub>  | 2000 10 02.9 | 00 37.16 -09 47.0 18.3 | -0.93 - 3.3 | 4.9/28.9  | 4931  |
| (16830)                | 2000 10 03.0 | 00 37.08 +07 19.4 16.4 | -0.94 - 6.6 | 1.6/04.1  | 2946  |
| 2000 QJ <sub>146</sub> | 2000 10 03.0 | 00 37.12 -07 30.3 18.3 | -0.71 - 9.8 | 4.7/28.6  | 5016  |
| 2000 SH <sub>234</sub> | 2000 10 03.0 | 00 37.16 -11 18.0 17.1 | -0.77 - 4.1 | 5.2/27.9  | 4850  |
| 2000 QU <sub>148</sub> | 2000 10 03.0 | 00 37.25 +04 39.3 18.7 | -0.93 - 6.8 | 0.2/03.2  | 4667  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1998 CZ <sub>4</sub>   | 2000 10 03.0 | 00 37.25 +05 50.8 19.5 | -0.83 - 5.5 | 0.6/03.6  | 4363  |
| 2000 RS <sub>100</sub> | 2000 10 03.0 | 00 37.35 +27 30.3 18.3 | -0.78 - 4.7 | 6.1/11.7  | 4797  |
| 2000 RH <sub>83</sub>  | 2000 10 03.0 | 00 37.36 +07 31.8 17.3 | -0.90 - 5.4 | 1.5/04.2  | 4782  |
| 1999 JL <sub>76</sub>  | 2000 10 03.0 | 00 37.36 -05 25.4 17.4 | -0.84 - 4.7 | 3.5/30.0  | 4939  |
| 1999 GB <sub>7</sub>   | 2000 10 03.0 | 00 37.38 +14 05.1 18.5 | -0.84 -13.3 | 3.2/07.0  | 4440  |
| (17454)                | 2000 10 03.1 | 00 37.50 -03 30.8 18.5 | -1.07 - 3.2 | 3.0/31.0  | 4055  |
| 2000 QW <sub>142</sub> | 2000 10 03.1 | 00 37.50 +00 18.4 17.8 | -1.05 - 0.7 | 1.8/02.1  | 4662  |
| 2000 QJ <sub>126</sub> | 2000 10 03.1 | 00 37.64 -02 14.6 18.0 | -0.90 - 5.8 | 2.8/01.1  | 5012  |
| 1999 KJ <sub>11</sub>  | 2000 10 03.1 | 00 37.66 -10 15.1 16.8 | -0.95 - 5.4 | 5.6/28.5  | 4942  |
| (17813)                | 2000 10 03.1 | 00 37.67 +11 39.5 17.9 | -0.72 - 7.1 | 2.2/05.9  | 4160  |
| 2000 SD <sub>37</sub>  | 2000 10 03.1 | 00 37.76 -02 41.7 18.7 | -0.91 - 8.5 | 2.8/30.9  | 4810  |
| 1990 SH <sub>8</sub>   | 2000 10 03.1 | 00 37.77 -05 13.5 17.5 | -0.93 - 8.1 | 3.8/30.0  | 4883  |
| 2000 RC <sub>2</sub>   | 2000 10 03.1 | 00 37.88 +03 05.3 17.6 | -0.83 - 6.8 | 0.3/02.9  | 4711  |
| 2000 PB <sub>25</sub>  | 2000 10 03.2 | 00 37.80 +07 45.5 18.2 | -1.09 - 3.6 | 1.6/04.2  | 4978  |
| 1999 LC <sub>9</sub>   | 2000 10 03.2 | 00 37.85 +06 06.1 18.5 | -0.77 - 8.0 | 0.7/03.9  | 4505  |
| 2000 RA <sub>2</sub>   | 2000 10 03.2 | 00 37.85 +04 12.0 17.3 | -0.99 - 2.3 | 0.0/03.2  | 4711  |
| 1999 JC <sub>78</sub>  | 2000 10 03.2 | 00 37.88 +10 07.7 17.8 | -0.80 - 9.5 | 1.9/05.4  | 4939  |
| 1998 FB <sub>77</sub>  | 2000 10 03.2 | 00 38.06 -03 25.6 20.2 | -0.75 - 3.9 | 2.0/30.8  | 4390  |
| 1996 QR <sub>1</sub>   | 2000 10 03.2 | 00 38.07 +15 12.1 17.6 | -0.89 - 5.5 | 4.9/07.0  | 4335  |
| (11225)                | 2000 10 03.2 | 00 38.15 +01 54.2 16.8 | -0.83 - 8.3 | 0.9/02.5  | 2611  |
| 1998 FQ <sub>120</sub> | 2000 10 03.2 | 00 38.21 +06 32.0 18.9 | -1.04 - 0.7 | 0.9/03.9  | 4911  |
| 1998 BP <sub>10</sub>  | 2000 10 03.3 | 00 38.28 -08 50.2 18.0 | -0.88 - 7.3 | 5.6/28.8  | 4901  |
| 1999 BO <sub>6</sub>   | 2000 10 03.3 | 00 38.30 +05 16.0 19.2 | -1.04 - 4.7 | 0.5/03.7  | 4426  |
| 2000 RO <sub>70</sub>  | 2000 10 03.3 | 00 38.33 +01 24.9 18.9 | -0.92 - 4.3 | 1.1/02.5  | 4770  |
| 1998 DF <sub>3</sub>   | 2000 10 03.3 | 00 38.34 -24 51.1 17.4 | -0.87 - 3.9 | 10.7/23.3 | 4903  |
| (16644)                | 2000 10 03.3 | 00 38.43 +00 23.7 15.6 | -0.79 -10.3 | 1.7/02.0  | 2894  |
| 1998 DG <sub>35</sub>  | 2000 10 03.3 | 00 38.44 +04 35.3 16.6 | -0.90 - 1.9 | 0.2/03.5  | 4904  |
| 1991 BP <sub>2</sub>   | 2000 10 03.3 | 00 38.50 +41 03.5 16.9 | -1.27 - 0.8 | 12.5/15.0 | 4883  |
| 3260 T-2               | 2000 10 03.3 | 00 38.52 -03 26.1 18.2 | -0.83 - 5.2 | 2.6/30.9  | 5147  |
| 1999 HC <sub>10</sub>  | 2000 10 03.3 | 00 38.53 +01 16.6 18.2 | -0.95 - 3.7 | 1.1/02.5  | 4448  |
| 2000 RF <sub>33</sub>  | 2000 10 03.3 | 00 38.55 +09 24.5 17.5 | -0.94 - 6.9 | 2.1/05.1  | 4739  |
| 1997 JM <sub>11</sub>  | 2000 10 03.3 | 00 38.56 +00 19.4 19.3 | -0.59 - 3.7 | 0.8/02.1  | 4897  |
| 2000 SU <sub>102</sub> | 2000 10 03.3 | 00 38.57 +06 21.5 19.7 | -0.88 - 3.7 | 0.7/04.1  | 4824  |
| (11115)                | 2000 10 03.4 | 00 38.53 -01 00.8 17.9 | -0.82 - 3.2 | 1.7/01.8  | 35241 |
| 1998 BB <sub>8</sub>   | 2000 10 03.4 | 00 38.55 -15 30.7 18.1 | -0.79 - 8.2 | 6.5/26.1  | 4901  |
| (16658)                | 2000 10 03.4 | 00 38.57 -07 07.0 17.3 | -0.98 - 3.0 | 5.1/30.2  | 2898  |
| 2000 QU <sub>141</sub> | 2000 10 03.4 | 00 38.58 -00 37.0 18.1 | -0.74 - 4.8 | 1.7/01.8  | 5015  |
| (17397)                | 2000 10 03.4 | 00 38.62 +05 31.1 18.7 | -0.61 - 4.2 | 0.3/03.9  | 4039  |
| 2000 QS <sub>208</sub> | 2000 10 03.4 | 00 38.67 +00 08.6 18.1 | -0.71 - 6.7 | 1.4/02.0  | 4697  |
| 1995 UZ <sub>3</sub>   | 2000 10 03.4 | 00 38.70 -12 49.4 16.8 | -0.98 + 0.8 | 5.3/28.9  | 4891  |
| 2000 QP <sub>208</sub> | 2000 10 03.4 | 00 38.73 -01 47.1 16.8 | -0.89 - 4.4 | 2.7/01.6  | 5029  |
| (10706)                | 2000 10 03.4 | 00 38.78 -03 06.3 15.7 | -0.80 - 5.1 | 3.5/01.1  | 34746 |
| (16862)                | 2000 10 03.4 | 00 38.79 -08 35.1 18.1 | -0.88 - 7.0 | 4.6/29.1  | 2956  |
| 1997 YD <sub>3</sub>   | 2000 10 03.4 | 00 38.85 -04 53.3 17.7 | -0.87 - 6.5 | 2.9/30.5  | 4899  |
| 2000 QB <sub>228</sub> | 2000 10 03.4 | 00 38.88 +02 20.2 17.0 | -0.81 - 4.2 | 0.7/02.9  | 4706  |
| 2000 SM <sub>67</sub>  | 2000 10 03.4 | 00 38.88 +02 47.0 18.0 | -0.86 - 6.7 | 0.5/03.0  | 4817  |
| 2000 QK <sub>105</sub> | 2000 10 03.4 | 00 38.91 +01 10.1 17.6 | -1.70 + 8.8 | 1.6/03.1  | 4637  |
| 1999 JZ <sub>125</sub> | 2000 10 03.4 | 00 38.92 +03 20.5 19.0 | -0.87 - 3.4 | 0.3/03.2  | 4499  |
| 1998 FN <sub>12</sub>  | 2000 10 03.4 | 00 38.94 +04 25.0 18.8 | -0.82 - 4.5 | 0.1/03.6  | 4905  |
| (10947)                | 2000 10 03.5 | 00 38.93 +10 55.7 18.3 | -0.99 - 5.1 | 2.3/05.6  | 34809 |
| 2000 RB <sub>102</sub> | 2000 10 03.5 | 00 39.01 +22 03.7 17.8 | -0.78 - 3.8 | 5.1/09.6  | 4798  |

|                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|----------|-------|
| 2000 OU <sub>47</sub>  | 2000 10 03.5 | 00 39.03 -05 53.9 16.3 | -0.80 - 8.4 | 4.9/30.0 | 4971  |
| (10594)                | 2000 10 03.5 | 00 39.09 -03 34.9 15.2 | -1.08 + 1.4 | 3.3/01.7 | 34461 |
| 2000 SU <sub>249</sub> | 2000 10 03.5 | 00 39.16 -02 31.4 19.0 | -0.84 - 5.1 | 2.3/01.4 | 4851  |
| 1995 FD <sub>9</sub>   | 2000 10 03.6 | 00 39.28 -01 56.9 21.1 | -0.94 - 4.7 | 2.1/01.7 | 3134  |
| 2000 QD <sub>142</sub> | 2000 10 03.6 | 00 39.34 +02 00.7 17.8 | -0.72 - 5.3 | 0.8/02.9 | 4660  |
| 2000 RS <sub>35</sub>  | 2000 10 03.6 | 00 39.35 +09 10.2 18.0 | -1.07 - 5.1 | 2.2/05.1 | 4742  |
| 1999 LZ <sub>31</sub>  | 2000 10 03.6 | 00 39.39 +17 51.0 18.2 | -0.81 - 4.1 | 4.0/08.1 | 4943  |
| 1999 BT <sub>6</sub>   | 2000 10 03.6 | 00 39.46 -04 09.2 17.4 | -0.99 - 4.7 | 3.5/01.1 | 4925  |
| 1999 JU <sub>73</sub>  | 2000 10 03.6 | 00 39.50 +07 55.9 17.6 | -0.71 -10.9 | 1.4/05.1 | 4938  |
| 2000 RH <sub>102</sub> | 2000 10 03.6 | 00 39.54 +20 38.9 17.5 | -0.81 - 4.3 | 5.7/09.3 | 4798  |
| (17449)                | 2000 10 03.6 | 00 39.56 +12 38.2 17.9 | -0.80 - 6.7 | 2.5/06.6 | 4054  |
| 1998 EZ <sub>9</sub>   | 2000 10 03.6 | 00 39.57 +03 26.6 20.2 | -0.79 - 2.8 | 0.2/03.4 | 4371  |
| 1977 FB                | 2000 10 03.6 | 00 39.58 +01 26.8 19.0 | -0.76 - 5.6 | 0.9/02.7 | 4298  |
| 2000 RR <sub>103</sub> | 2000 10 03.6 | 00 39.60 +21 16.0 17.4 | -0.99 - 2.6 | 6.1/08.8 | 4799  |
| 2000 QT <sub>208</sub> | 2000 10 03.6 | 00 39.61 +02 38.0 18.6 | -0.91 - 4.1 | 0.6/03.2 | 4697  |
| 2000 QY <sub>141</sub> | 2000 10 03.6 | 00 39.62 -00 44.5 17.2 | -0.87 - 5.5 | 2.3/02.1 | 4660  |
| 2000 SN <sub>185</sub> | 2000 10 03.6 | 00 39.63 +05 38.6 19.4 | -1.03 - 4.5 | 0.5/04.1 | 4847  |
| 2000 QK <sub>126</sub> | 2000 10 03.6 | 00 39.69 -03 01.9 17.5 | -0.90 - 6.2 | 3.3/01.3 | 5012  |
| 1981 DL <sub>1</sub>   | 2000 10 03.6 | 00 39.71 +23 14.7 18.0 | -0.91 - 1.3 | 6.4/09.6 | 4879  |
| 1999 JL <sub>19</sub>  | 2000 10 03.7 | 00 39.64 +03 43.6 18.7 | -0.92 - 4.1 | 0.2/03.5 | 4455  |
| 2000 OT <sub>48</sub>  | 2000 10 03.7 | 00 39.69 -11 06.4 17.1 | -0.66 -11.5 | 6.3/27.5 | 4971  |
| 2000 RT <sub>32</sub>  | 2000 10 03.7 | 00 39.70 +11 01.1 17.0 | -0.69 - 7.1 | 2.3/06.1 | 5043  |
| (18021)                | 2000 10 03.7 | 00 39.71 -02 48.8 17.8 | -0.80 - 5.5 | 2.6/01.4 | 4222  |
| 2000 SF <sub>67</sub>  | 2000 10 03.7 | 00 39.71 +04 55.7 19.1 | -0.93 - 3.3 | 0.3/03.9 | 4817  |
| (17607)                | 2000 10 03.7 | 00 39.73 +05 31.7 18.1 | -0.79 - 4.9 | 0.4/04.1 | 4099  |
| (18201)                | 2000 10 03.7 | 00 39.74 -01 11.6 17.8 | -0.87 - 5.8 | 2.2/02.0 | 4274  |
| 1981 ER <sub>2</sub>   | 2000 10 03.7 | 00 39.86 +04 33.2 19.0 | -0.67 - 8.3 | 0.1/03.9 | 26915 |
| 1998 EN <sub>11</sub>  | 2000 10 03.7 | 00 39.95 -14 07.6 19.0 | -0.67 - 8.6 | 4.7/26.8 | 4905  |
| 2000 SS <sub>99</sub>  | 2000 10 03.7 | 00 40.05 +09 47.9 18.5 | -0.92 - 2.2 | 2.5/05.4 | 4824  |
| 2000 OC <sub>48</sub>  | 2000 10 03.8 | 00 40.00 +10 43.2 17.4 | -1.05 - 3.0 | 2.4/05.6 | 4971  |
| 1998 AH <sub>6</sub>   | 2000 10 03.8 | 00 40.05 +04 37.7 17.8 | -0.80 - 4.7 | 0.1/03.9 | 4900  |
| 1999 JY <sub>77</sub>  | 2000 10 03.8 | 00 40.06 -05 24.2 18.4 | -0.88 - 7.0 | 3.4/30.6 | 4939  |
| (17109)                | 2000 10 03.8 | 00 40.12 +17 29.9 15.4 | -0.80 - 6.5 | 5.1/08.5 | 3029  |
| 1998 FU <sub>64</sub>  | 2000 10 03.8 | 00 40.16 +03 05.9 18.3 | -0.70 - 7.0 | 0.3/03.4 | 4908  |
| (10853)                | 2000 10 03.8 | 00 40.23 -05 33.5 17.7 | -0.91 - 7.4 | 3.7/30.6 | 3859  |
| (16386)                | 2000 10 03.8 | 00 40.28 +14 01.3 16.7 | -0.57 -14.0 | 4.2/08.0 | 2818  |
| 1999 FP <sub>32</sub>  | 2000 10 03.8 | 00 40.28 +05 03.2 18.3 | -0.95 - 5.5 | 0.3/04.1 | 4929  |
| 1999 JM <sub>76</sub>  | 2000 10 03.8 | 00 40.30 +04 21.8 16.6 | -0.88 - 9.1 | 0.0/03.9 | 4939  |
| 2000 SR <sub>19</sub>  | 2000 10 03.8 | 00 40.35 +19 03.7 15.8 | -0.90 - 9.2 | 6.6/09.3 | 4806  |
| 2000 QU <sub>30</sub>  | 2000 10 03.8 | 00 40.41 -07 23.1 18.1 | -0.84 - 8.3 | 5.0/29.7 | 4987  |
| 2000 QS <sub>102</sub> | 2000 10 03.9 | 00 40.45 -07 42.4 17.3 | -0.65 - 9.4 | 4.0/29.3 | 5006  |
| 2000 RH <sub>33</sub>  | 2000 10 03.9 | 00 40.54 +11 23.8 17.9 | -0.87 - 2.5 | 2.1/06.1 | 4739  |
| 2000 RN <sub>28</sub>  | 2000 10 03.9 | 00 40.55 +07 00.3 18.8 | -0.80 - 7.0 | 0.9/04.9 | 4732  |
| (17709)                | 2000 10 03.9 | 00 40.75 +10 40.5 18.2 | -0.98 - 5.9 | 2.4/06.0 | 4129  |
| 1991 GE <sub>3</sub>   | 2000 10 04.0 | 00 40.75 +01 30.3 19.1 | -0.88 - 6.4 | 0.9/03.1 | 4883  |
| 1993 OE <sub>2</sub>   | 2000 10 04.0 | 00 40.75 +00 09.9 17.3 | -0.83 - 8.1 | 2.0/02.6 | 4315  |
| 2000 SP <sub>34</sub>  | 2000 10 04.0 | 00 40.78 +23 22.3 17.8 | -0.87 - 2.1 | 5.3/10.1 | 4810  |
| 1981 DY <sub>1</sub>   | 2000 10 04.0 | 00 40.85 +19 19.5 19.5 | -0.83 - 2.8 | 4.0/08.9 | 26914 |
| (16578)                | 2000 10 04.0 | 00 40.94 +28 37.7 16.8 | -1.42 + 1.9 | 9.0/09.9 | 2874  |
| 2000 RV <sub>41</sub>  | 2000 10 04.0 | 00 40.94 +14 44.1 18.4 | -0.90 - 7.6 | 4.2/07.6 | 4745  |
| 2000 RO <sub>28</sub>  | 2000 10 04.0 | 00 40.96 +04 20.6 17.1 | -0.76 -10.0 | 0.0/04.0 | 4732  |

|                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|----------|-------|
| 2000 QR <sub>142</sub> | 2000 10 04.0 | 00 40.97 -00 29.9 16.8 | -0.96 - 5.7 | 2.0/02.5 | 5015  |
| 1996 OB <sub>1</sub>   | 2000 10 04.0 | 00 40.98 +00 35.1 19.6 | -0.92 - 6.8 | 1.6/02.8 | 4892  |
| 1999 RU <sub>134</sub> | 2000 10 04.0 | 00 41.01 -04 22.9 18.3 | -0.46 - 4.7 | 1.6/30.8 | 4518  |
| 2000 RE <sub>42</sub>  | 2000 10 04.0 | 00 41.03 +18 27.8 18.3 | -1.01 - 2.0 | 5.4/08.1 | 4746  |
| 1999 JM <sub>95</sub>  | 2000 10 04.0 | 00 41.14 -07 52.0 17.7 | -0.82 - 6.7 | 4.8/29.9 | 4940  |
| 2000 OL <sub>49</sub>  | 2000 10 04.0 | 00 41.15 -01 56.0 17.0 | -1.03 - 1.4 | 2.9/02.4 | 4972  |
| 2000 RN <sub>70</sub>  | 2000 10 04.1 | 00 41.10 +00 13.4 18.9 | -0.86 - 4.0 | 1.5/02.8 | 4769  |
| 2000 OJ <sub>61</sub>  | 2000 10 04.1 | 00 41.19 -01 25.4 17.6 | -1.04 - 1.4 | 2.7/02.6 | 4974  |
| 1997 YT <sub>11</sub>  | 2000 10 04.1 | 00 41.22 -17 54.9 17.3 | -0.83 - 6.2 | 7.3/26.1 | 4900  |
| 1999 JX <sub>98</sub>  | 2000 10 04.1 | 00 41.25 -00 48.5 19.1 | -0.77 - 9.4 | 1.8/02.3 | 4941  |
| (17119)                | 2000 10 04.1 | 00 41.28 -01 01.5 17.7 | -0.80 - 7.4 | 1.9/02.3 | 3032  |
| 1981 EP <sub>45</sub>  | 2000 10 04.1 | 00 41.29 +14 27.9 19.2 | -0.84 - 2.3 | 2.8/07.2 | 35678 |
| 2000 RH <sub>28</sub>  | 2000 10 04.1 | 00 41.30 +08 06.0 19.3 | -0.47 - 5.7 | 0.7/05.5 | 4732  |
| 1998 HD <sub>98</sub>  | 2000 10 04.1 | 00 41.31 +02 25.0 16.5 | -0.89 - 1.6 | 0.7/03.6 | 4913  |
| (17949)                | 2000 10 04.1 | 00 41.37 +04 33.4 16.2 | -1.05 - 0.3 | 0.0/04.2 | 4201  |
| (10931)                | 2000 10 04.1 | 00 41.37 -06 28.0 17.1 | -0.84 - 4.8 | 3.7/30.7 | 34805 |
| (17739)                | 2000 10 04.1 | 00 41.47 +18 22.7 16.4 | -0.88 - 5.8 | 6.1/09.0 | 4138  |
| 2000 RM <sub>70</sub>  | 2000 10 04.1 | 00 41.48 +00 13.4 18.5 | -0.80 - 4.3 | 1.5/02.8 | 4769  |
| (17527)                | 2000 10 04.1 | 00 41.50 -02 14.9 16.5 | -0.97 + 0.1 | 2.3/02.5 | 4076  |
| 1999 KH <sub>7</sub>   | 2000 10 04.2 | 00 41.45 -09 47.6 17.6 | -0.90 - 5.3 | 6.2/29.5 | 4942  |
| 2000 QV <sub>142</sub> | 2000 10 04.2 | 00 41.46 +01 26.7 17.3 | -1.06 - 1.1 | 1.4/03.4 | 4661  |
| 2000 RR <sub>91</sub>  | 2000 10 04.2 | 00 41.54 +08 48.7 18.3 | -0.71 - 9.9 | 1.7/05.9 | 4788  |
| 2000 RD <sub>42</sub>  | 2000 10 04.2 | 00 41.58 +15 26.5 17.7 | -0.89 - 7.1 | 4.4/08.0 | 4746  |
| 1998 KA                | 2000 10 04.2 | 00 41.63 +08 32.7 19.1 | -0.71 - 5.1 | 1.1/05.6 | 4914  |
| 1999 JY <sub>78</sub>  | 2000 10 04.2 | 00 41.70 -09 31.8 18.1 | -0.97 - 3.7 | 5.3/30.0 | 35464 |
| 2000 RS <sub>34</sub>  | 2000 10 04.2 | 00 41.74 +11 54.0 18.4 | -0.89 - 5.5 | 2.9/06.7 | 4741  |
| (17419)                | 2000 10 04.2 | 00 41.83 -09 29.1 17.0 | -0.56 - 1.6 | 2.7/29.7 | 4046  |
| 2219 T-2               | 2000 10 04.2 | 00 41.86 +07 53.0 18.3 | -0.94 - 5.3 | 1.4/05.4 | 4867  |
| 2000 QP <sub>142</sub> | 2000 10 04.3 | 00 41.80 +01 56.0 17.7 | -0.90 - 3.5 | 1.1/03.5 | 4661  |
| 2000 RX <sub>2</sub>   | 2000 10 04.3 | 00 41.84 +11 04.4 16.7 | -1.19 + 3.8 | 2.4/05.7 | 5035  |
| 1999 FN <sub>9</sub>   | 2000 10 04.3 | 00 41.92 -02 23.0 18.4 | -1.00 - 5.2 | 2.7/02.2 | 4928  |
| 2000 RC <sub>86</sub>  | 2000 10 04.3 | 00 41.98 -01 01.9 18.9 | -0.86 - 4.0 | 2.6/02.6 | 4784  |
| 3367 T-3               | 2000 10 04.3 | 00 41.99 +04 47.7 18.8 | -0.84 - 4.6 | 0.1/04.4 | 4873  |
| (17308)                | 2000 10 04.3 | 00 42.09 +12 53.6 16.7 | -1.01 + 0.7 | 2.7/06.5 | 3084  |
| 3148 T-1               | 2000 10 04.3 | 00 42.10 +09 03.3 18.8 | -1.08 + 0.2 | 1.4/05.5 | 5146  |
| 1999 JL <sub>54</sub>  | 2000 10 04.3 | 00 42.14 +01 14.3 18.2 | -1.01 - 5.2 | 1.2/03.4 | 4473  |
| 2000 QS <sub>143</sub> | 2000 10 04.3 | 00 42.26 +01 57.8 18.0 | -1.04 - 3.4 | 1.0/03.7 | 4663  |
| 2000 OS <sub>47</sub>  | 2000 10 04.4 | 00 42.21 -06 21.4 16.3 | -0.69 -11.8 | 5.2/30.1 | 4971  |
| 1999 JD <sub>63</sub>  | 2000 10 04.4 | 00 42.39 +11 49.5 17.9 | -0.91 - 7.9 | 2.7/06.9 | 4478  |
| (10801)                | 2000 10 04.4 | 00 42.40 +00 53.5 16.5 | -0.77 - 7.9 | 1.6/03.2 | 34770 |
| 2000 SS <sub>19</sub>  | 2000 10 04.4 | 00 42.43 +22 07.4 18.9 | -0.85 - 5.9 | 5.7/10.5 | 4806  |
| (17952)                | 2000 10 04.4 | 00 42.48 +14 51.3 18.3 | -0.96 - 6.6 | 3.8/07.9 | 4201  |
| 2000 QX <sub>142</sub> | 2000 10 04.4 | 00 42.49 -03 01.9 18.3 | -0.81 - 5.1 | 2.5/02.0 | 4662  |
| 1992 RP <sub>3</sub>   | 2000 10 04.4 | 00 42.52 -05 18.7 17.3 | -0.82 -10.6 | 3.5/30.8 | 4885  |
| (10311)                | 2000 10 04.4 | 00 42.54 +01 34.2 17.6 | -0.81 - 4.4 | 1.0/03.5 | 34139 |
| 1992 EL <sub>5</sub>   | 2000 10 04.4 | 00 42.56 -03 05.7 19.7 | -0.79 - 4.3 | 2.4/02.0 | 4311  |
| 2000 QH <sub>93</sub>  | 2000 10 04.4 | 00 42.57 +06 17.2 17.1 | -1.48 + 6.7 | 0.7/04.8 | 5003  |
| 2000 QJ <sub>142</sub> | 2000 10 04.4 | 00 42.57 +01 29.4 17.2 | -0.87 - 7.1 | 1.3/03.5 | 4660  |
| 1981 EP <sub>32</sub>  | 2000 10 04.4 | 00 42.62 +13 36.1 18.4 | -1.14 - 2.7 | 3.6/07.0 | 4880  |
| 6127 P-L               | 2000 10 04.5 | 00 42.55 +09 56.0 17.4 | -1.07 + 0.8 | 2.5/05.8 | 4862  |
| 1999 JW <sub>85</sub>  | 2000 10 04.5 | 00 42.55 +00 06.9 18.7 | -0.77 -10.0 | 1.6/02.9 | 4940  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| (17812)                | 2000 10 04.5 | 00 42.65 +11 48.4 16.2 | -0.68 - 9.3 | 2.2/07.3  | 4160  |
| 2000 RG <sub>2</sub>   | 2000 10 04.5 | 00 42.70 +06 22.9 19.1 | -0.86 - 6.7 | 0.7/05.1  | 4711  |
| 1996 GD <sub>20</sub>  | 2000 10 04.5 | 00 42.75 +04 18.6 18.0 | -0.95 - 8.8 | 0.1/04.5  | 4892  |
| 1999 JG <sub>56</sub>  | 2000 10 04.5 | 00 42.77 -10 13.3 17.3 | -0.86 - 3.3 | 5.5/30.0  | 4937  |
| 2000 QC <sub>103</sub> | 2000 10 04.5 | 00 42.80 -10 01.7 17.5 | -0.74 - 5.3 | 4.2/29.5  | 4636  |
| (10970)                | 2000 10 04.5 | 00 42.82 +04 52.7 16.6 | -0.86 - 4.5 | 0.1/04.7  | 34815 |
| 2000 RC <sub>104</sub> | 2000 10 04.5 | 00 42.89 +22 58.2 16.8 | -0.92 - 5.3 | 6.0/10.9  | 4799  |
| 1999 JW <sub>75</sub>  | 2000 10 04.5 | 00 42.94 +11 32.5 15.9 | -0.80 - 9.4 | 3.1/07.1  | 4938  |
| 2000 QC <sub>142</sub> | 2000 10 04.5 | 00 42.95 -01 27.9 17.7 | -0.71 - 7.6 | 1.9/02.4  | 5015  |
| 1991 AT <sub>2</sub>   | 2000 10 04.6 | 00 42.93 -00 06.3 17.8 | -0.72 - 5.3 | 1.3/03.0  | 4309  |
| 2000 QL <sub>103</sub> | 2000 10 04.6 | 00 43.02 -09 58.3 16.9 | -0.87 - 3.6 | 4.5/30.1  | 4636  |
| (11241)                | 2000 10 04.6 | 00 43.03 -00 55.6 17.6 | -0.79 - 4.9 | 1.8/02.8  | 35273 |
| 1999 JE <sub>22</sub>  | 2000 10 04.6 | 00 43.04 +09 28.7 18.7 | -1.00 - 4.8 | 1.7/06.1  | 4934  |
| 2000 RM <sub>33</sub>  | 2000 10 04.6 | 00 43.05 +16 12.6 17.4 | -1.12 - 0.1 | 4.2/07.7  | 5044  |
| 1997 YF <sub>3</sub>   | 2000 10 04.6 | 00 43.12 +06 09.1 17.7 | -0.90 - 6.2 | 0.5/05.1  | 4899  |
| 2264 T-2               | 2000 10 04.6 | 00 43.21 +06 29.4 18.5 | -0.85 - 2.3 | 0.6/05.2  | 5147  |
| 1999 KO <sub>13</sub>  | 2000 10 04.6 | 00 43.25 +22 42.9 17.4 | -0.86 - 6.4 | 6.4/11.1  | 4942  |
| 1996 TN <sub>11</sub>  | 2000 10 04.6 | 00 43.26 +00 12.9 17.3 | -0.85 - 5.7 | 1.7/03.3  | 4893  |
| 2000 SN <sub>68</sub>  | 2000 10 04.6 | 00 43.31 +04 24.8 18.0 | -1.04 - 1.9 | 0.1/04.6  | 4817  |
| 2000 SW <sub>68</sub>  | 2000 10 04.7 | 00 43.29 +04 57.5 18.6 | -1.02 - 6.1 | 11.1/25.0 | 4817  |
| 1999 CC <sub>32</sub>  | 2000 10 04.7 | 00 43.30 +01 00.4 17.7 | -1.12 - 2.9 | 1.4/03.7  | 4926  |
| 2000 RC <sub>33</sub>  | 2000 10 04.7 | 00 43.33 +08 49.1 17.7 | -0.74 -12.0 | 1.5/06.3  | 4739  |
| (16528)                | 2000 10 04.7 | 00 43.37 -09 58.4 15.4 | -0.99 - 1.7 | 6.0/30.7  | 2860  |
| 1993 TG <sub>14</sub>  | 2000 10 04.7 | 00 43.37 +02 45.3 17.6 | -0.86 - 9.1 | 0.8/04.1  | 4317  |
| 1999 JE <sub>40</sub>  | 2000 10 04.7 | 00 43.46 +09 22.3 19.6 | -0.86 - 7.2 | 1.5/06.3  | 3368  |
| 3122 T-2               | 2000 10 04.7 | 00 43.56 +03 34.9 18.7 | -0.96 - 4.0 | 0.4/04.4  | 5147  |
| 2000 RK <sub>95</sub>  | 2000 10 04.7 | 00 43.58 +01 12.0 19.3 | -0.70 - 6.3 | 1.1/03.6  | 4794  |
| 1999 KQ <sub>13</sub>  | 2000 10 04.7 | 00 43.63 +14 11.7 17.9 | -0.93 - 6.9 | 3.4/07.9  | 4942  |
| 1981 EQ <sub>6</sub>   | 2000 10 04.8 | 00 43.64 +19 22.6 20.3 | -0.97 - 2.8 | 4.6/09.3  | 26915 |
| 1998 FH <sub>66</sub>  | 2000 10 04.8 | 00 43.64 +05 00.1 18.2 | -0.73 - 4.6 | 7.0/25.0  | 4388  |
| 1999 JP <sub>129</sub> | 2000 10 04.8 | 00 43.67 +03 11.2 19.2 | -0.78 - 8.8 | 0.5/04.3  | 4500  |
| 2000 QT <sub>142</sub> | 2000 10 04.8 | 00 43.79 +01 19.6 18.0 | -0.88 - 3.4 | 1.2/03.8  | 4661  |
| (17157)                | 2000 10 04.8 | 00 43.90 -09 22.1 16.2 | -0.76 - 9.9 | 5.0/29.6  | 3043  |
| 2000 RE <sub>94</sub>  | 2000 10 04.8 | 00 43.95 +09 53.3 18.6 | -0.89 - 5.2 | 1.8/06.5  | 4791  |
| 1996 RT <sub>5</sub>   | 2000 10 04.8 | 00 44.01 +01 03.8 18.0 | -1.03 - 1.1 | 1.2/03.9  | 4893  |
| 4053 T-3               | 2000 10 04.8 | 00 44.01 -01 30.2 17.9 | -0.70 - 6.2 | 1.9/02.7  | 4874  |
| 2000 RP <sub>2</sub>   | 2000 10 04.8 | 00 44.03 +04 44.1 17.6 | -0.89 - 4.9 | 10.2/15.0 | 4712  |
| 2000 OF <sub>49</sub>  | 2000 10 04.8 | 00 44.05 -01 35.7 16.2 | -1.03 0.0   | 3.3/03.3  | 4972  |
| 2000 SK <sub>240</sub> | 2000 10 04.8 | 00 44.08 +38 52.7 18.7 | -1.72 + 9.1 | 15.3/12.0 | 4851  |
| 2000 SX <sub>14</sub>  | 2000 10 04.9 | 00 43.99 -18 32.8 16.6 | -0.81 - 6.6 | 9.1/26.6  | 4805  |
| 2000 QY <sub>142</sub> | 2000 10 04.9 | 00 44.00 -04 10.1 17.5 | -0.80 - 5.4 | 2.9/02.0  | 4662  |
| 2000 QU <sub>142</sub> | 2000 10 04.9 | 00 44.02 -00 57.5 18.6 | -0.84 - 5.8 | 2.1/03.0  | 4661  |
| 1999 JB <sub>107</sub> | 2000 10 04.9 | 00 44.05 +09 21.8 18.2 | -0.80 - 9.1 | 1.7/06.6  | 4941  |
| 2000 ST <sub>202</sub> | 2000 10 04.9 | 00 44.15 +03 48.6 18.1 | -0.85 - 4.7 | 0.3/04.6  | 4848  |
| 1981 EV <sub>33</sub>  | 2000 10 04.9 | 00 44.21 -01 39.8 18.2 | -0.73 -13.6 | 2.1/02.4  | 4880  |
| 2000 OH <sub>49</sub>  | 2000 10 04.9 | 00 44.21 -02 35.5 17.0 | -0.88 - 4.9 | 3.4/02.7  | 4972  |
| 1999 GH <sub>1</sub>   | 2000 10 04.9 | 00 44.22 -05 45.8 18.4 | -1.02 - 4.4 | 4.0/01.8  | 4930  |
| 2000 RY <sub>91</sub>  | 2000 10 04.9 | 00 44.38 +07 46.7 18.7 | -0.83 - 8.9 | 1.2/06.0  | 4789  |
| 1981 EK <sub>38</sub>  | 2000 10 04.9 | 00 44.38 +10 42.1 20.0 | -0.98 - 5.6 | 2.2/06.8  | 3102  |
| 2000 RT <sub>91</sub>  | 2000 10 04.9 | 00 44.39 +06 29.3 17.3 | -0.71 -11.1 | 0.9/05.6  | 5057  |
| 2000 RM <sub>75</sub>  | 2000 10 04.9 | 00 44.43 +16 04.9 17.9 | -0.98 - 4.9 | 4.7/08.6  | 4777  |

|                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|----------|-------|
| 2000 RO <sub>59</sub>  | 2000 10 04.9 | 00 44.43 +09 50.4 18.8 | -0.89 - 8.2 | 2.3/06.7 | 4758  |
| 1999 JS <sub>79</sub>  | 2000 10 05.0 | 00 44.41 +05 13.4 18.7 | -0.81 - 7.9 | 0.2/05.2 | 4939  |
| (11440)                | 2000 10 05.0 | 00 44.42 +04 32.9 16.8 | -0.65 - 6.6 | 0.1/04.9 | 35817 |
| 1999 JW <sub>47</sub>  | 2000 10 05.0 | 00 44.44 +03 33.5 18.0 | -0.91 - 4.2 | 0.4/04.7 | 4468  |
| 2000 RP <sub>1</sub>   | 2000 10 05.0 | 00 44.48 -03 16.4 16.4 | -0.52 -16.6 | 3.8/01.5 | 5035  |
| 2000 SZ <sub>68</sub>  | 2000 10 05.0 | 00 44.67 +04 33.0 19.0 | -0.98 - 4.2 | 0.1/05.0 | 4818  |
| (14670)                | 2000 10 05.0 | 00 44.70 +02 11.2 17.6 | -0.84 - 7.0 | 0.9/04.2 | 39896 |
| 2000 RU <sub>4</sub>   | 2000 10 05.0 | 00 44.78 +05 06.3 19.0 | -0.77 - 5.5 | 0.1/05.2 | 4715  |
| 1999 JN <sub>37</sub>  | 2000 10 05.1 | 00 44.75 +12 39.5 16.5 | -0.82 - 8.3 | 3.4/07.9 | 4935  |
| 1999 JL <sub>31</sub>  | 2000 10 05.1 | 00 44.76 -01 43.7 18.5 | -1.05 - 3.4 | 2.6/03.3 | 4935  |
| 1989 TG <sub>16</sub>  | 2000 10 05.1 | 00 44.80 +04 55.0 17.4 | -0.83 - 6.1 | 0.0/05.2 | 4882  |
| (17659)                | 2000 10 05.1 | 00 44.87 +11 27.3 17.4 | -0.80 - 7.4 | 2.7/07.4 | 4115  |
| 1999 JO <sub>102</sub> | 2000 10 05.1 | 00 44.95 -01 31.9 18.3 | -0.87 - 5.8 | 2.4/03.1 | 4941  |
| (10901)                | 2000 10 05.1 | 00 44.99 +02 16.9 16.8 | -0.90 - 7.9 | 1.2/04.3 | 34797 |
| (11143)                | 2000 10 05.1 | 00 44.99 +05 31.4 17.2 | -0.77 - 4.7 | 0.2/05.4 | 35248 |
| 1981 EV <sub>16</sub>  | 2000 10 05.1 | 00 45.04 +15 15.6 18.4 | -1.02 - 4.7 | 4.3/08.4 | 4880  |
| 2000 ST <sub>250</sub> | 2000 10 05.1 | 00 45.06 -02 51.2 19.1 | -0.93 - 5.8 | 3.3/02.7 | 4851  |
| 2000 OU <sub>50</sub>  | 2000 10 05.1 | 00 45.06 -06 06.1 16.8 | -0.93 - 8.1 | 4.7/01.4 | 4972  |
| 2000 SG <sub>166</sub> | 2000 10 05.1 | 00 45.07 +17 36.4 19.5 | -1.04 + 0.8 | 5.1/08.6 | 4845  |
| 1999 JF <sub>31</sub>  | 2000 10 05.1 | 00 45.09 -00 02.0 19.1 | -1.02 - 4.1 | 1.8/03.8 | 4935  |
| (10105)                | 2000 10 05.1 | 00 45.10 +03 51.7 18.1 | -0.72 - 4.7 | 0.3/04.9 | 33883 |
| (17753)                | 2000 10 05.1 | 00 45.10 +01 30.3 18.3 | -0.85 - 6.7 | 1.1/04.1 | 4141  |
| (17548)                | 2000 10 05.1 | 00 45.12 +05 29.9 18.0 | -1.03 - 3.8 | 0.3/05.4 | 4082  |
| 2000 RH <sub>56</sub>  | 2000 10 05.1 | 00 45.15 +18 33.5 18.0 | -0.83 - 3.9 | 4.1/01.9 | 4757  |
| 2000 SF <sub>166</sub> | 2000 10 05.2 | 00 45.08 +15 51.5 16.8 | -0.78 -10.9 | 5.3/10.0 | 5116  |
| 2000 SB <sub>29</sub>  | 2000 10 05.2 | 00 45.09 +18 43.8 17.7 | -0.83 - 7.5 | 4.3/10.1 | 4809  |
| 1993 QT <sub>4</sub>   | 2000 10 05.2 | 00 45.24 +11 27.9 17.4 | -1.07 0.0   | 3.3/06.9 | 4887  |
| (16645)                | 2000 10 05.2 | 00 45.29 +02 54.3 15.9 | -0.77 - 8.5 | 0.9/04.6 | 2894  |
| 1997 CW <sub>5</sub>   | 2000 10 05.2 | 00 45.29 +14 29.9 17.9 | -0.90 - 2.0 | 3.2/08.1 | 4896  |
| 2000 SC <sub>6</sub>   | 2000 10 05.2 | 00 45.33 -18 29.0 17.1 | -0.53 - 2.3 | 4.4/27.0 | 4803  |
| 1998 FM <sub>41</sub>  | 2000 10 05.2 | 00 45.35 +06 05.4 18.5 | -0.88 - 5.7 | 0.5/05.7 | 4381  |
| (12126)                | 2000 10 05.2 | 00 45.37 +05 52.9 16.5 | -0.52 - 3.0 | 0.2/05.6 | 36308 |
| 2000 RR <sub>42</sub>  | 2000 10 05.2 | 00 45.39 +18 05.1 17.7 | -0.91 - 1.3 | 4.4/09.2 | 4746  |
| (10716)                | 2000 10 05.2 | 00 45.45 -08 39.2 16.1 | -0.94 - 1.5 | 5.3/01.4 | 3858  |
| 1999 GM <sub>1</sub>   | 2000 10 05.2 | 00 45.46 -05 43.6 17.5 | -1.01 - 5.2 | 4.2/02.1 | 4930  |
| 1998 FP <sub>98</sub>  | 2000 10 05.2 | 00 45.49 +13 43.0 19.8 | -0.80 - 5.6 | 2.4/08.2 | 31814 |
| 1998 FX <sub>61</sub>  | 2000 10 05.2 | 00 45.51 +08 37.8 19.5 | -0.86 - 4.8 | 1.2/06.5 | 4908  |
| (17168)                | 2000 10 05.3 | 00 45.46 +18 27.8 17.5 | -0.84 - 6.5 | 4.2/09.9 | 3046  |
| 2000 SX <sub>68</sub>  | 2000 10 05.3 | 00 45.57 +04 56.8 18.1 | -0.80 - 4.9 | 0.0/05.3 | 4818  |
| 2000 QF <sub>123</sub> | 2000 10 05.3 | 00 45.62 +15 39.2 18.6 | -1.05 - 2.8 | 4.6/08.5 | 4645  |
| 1996 HV <sub>22</sub>  | 2000 10 05.3 | 00 45.62 -03 38.6 17.2 | -1.01 - 3.4 | 3.9/02.9 | 4333  |
| 2000 RG <sub>56</sub>  | 2000 10 05.3 | 00 45.77 +17 40.6 18.0 | -0.89 - 5.4 | 4.3/09.6 | 4756  |
| 2000 SE <sub>186</sub> | 2000 10 05.3 | 00 45.80 +05 03.1 19.3 | -0.95 - 7.8 | 0.1/05.4 | 4847  |
| 2000 SX <sub>305</sub> | 2000 10 05.3 | 00 45.81 +20 57.1 18.5 | -0.83 - 4.2 | 4.9/10.8 | 4855  |
| 1997 VL <sub>5</sub>   | 2000 10 05.3 | 00 45.82 -05 13.5 17.2 | -1.07 - 2.2 | 4.2/02.7 | 4898  |
| 2000 OY <sub>47</sub>  | 2000 10 05.3 | 00 45.86 -03 29.3 17.0 | -0.81 - 6.1 | 4.0/02.6 | 4971  |
| 1999 JH <sub>83</sub>  | 2000 10 05.3 | 00 45.88 -05 34.3 17.5 | -0.80 - 8.4 | 3.4/01.7 | 4940  |
| 1998 KX <sub>52</sub>  | 2000 10 05.4 | 00 45.82 -00 39.3 18.2 | -0.66 - 7.1 | 1.4/03.4 | 4413  |
| (17731)                | 2000 10 05.4 | 00 45.85 +13 55.9 15.9 | -0.96 - 9.0 | 3.9/08.5 | 4135  |
| (11227)                | 2000 10 05.4 | 00 45.89 +11 40.6 16.8 | -0.99 - 5.6 | 2.7/07.5 | 35270 |
| (17469)                | 2000 10 05.4 | 00 45.91 +08 18.5 16.6 | -0.89 - 8.1 | 1.2/06.6 | 4060  |

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|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1999 JU <sub>53</sub>  | 2000 10 05.4 | 00 45.95 -17 47.1 18.3 | -0.99 - 1.4 | 7.7/28.9  | 4473  |
| (17693)                | 2000 10 05.4 | 00 45.95 +18 56.0 16.9 | -0.88 - 2.7 | 4.6/09.7  | 4124  |
| 2000 RQ <sub>91</sub>  | 2000 10 05.4 | 00 46.04 +14 08.1 18.3 | -0.57 - 1.5 | 1.7/08.5  | 4788  |
| 1998 FN <sub>74</sub>  | 2000 10 05.4 | 00 46.10 +06 23.9 17.5 | -0.88 - 3.9 | 0.6/05.9  | 4909  |
| 1999 JS <sub>78</sub>  | 2000 10 05.4 | 00 46.11 +04 13.6 18.7 | -0.91 - 7.3 | 0.3/05.2  | 4485  |
| 1998 FM <sub>25</sub>  | 2000 10 05.4 | 00 46.12 +19 52.4 19.1 | -0.86 - 2.2 | 3.8/10.2  | 4378  |
| 2000 SX <sub>235</sub> | 2000 10 05.4 | 00 46.13 +02 04.3 19.1 | -0.89 - 8.7 | 1.2/04.5  | 4851  |
| 1999 JH <sub>73</sub>  | 2000 10 05.4 | 00 46.19 -06 56.4 18.3 | -0.93 - 5.3 | 4.5/01.8  | 4484  |
| 2000 RB <sub>92</sub>  | 2000 10 05.4 | 00 46.20 +13 47.6 18.7 | -0.79 - 4.6 | 2.7/08.4  | 4789  |
| 2000 ST <sub>8</sub>   | 2000 10 05.4 | 00 46.21 +09 38.6 18.0 | -0.87 - 2.0 | 1.3/06.9  | 4804  |
| (17677)                | 2000 10 05.4 | 00 46.21 +02 24.0 18.0 | -0.78 - 3.9 | 0.7/04.7  | 4120  |
| 1999 JC <sub>6</sub>   | 2000 10 05.4 | 00 46.27 +05 38.9 18.2 | -1.09 - 2.4 | 0.3/05.7  | 4451  |
| 1999 JM <sub>38</sub>  | 2000 10 05.5 | 00 46.24 +18 44.1 18.1 | -0.85 - 9.6 | 4.6/10.6  | 4935  |
| 2000 OZ <sub>48</sub>  | 2000 10 05.5 | 00 46.27 -05 42.3 16.6 | -0.70 - 6.9 | 5.0/01.7  | 4971  |
| 1999 JH <sub>56</sub>  | 2000 10 05.5 | 00 46.35 +00 43.2 18.9 | -0.94 - 8.1 | 1.6/04.1  | 4937  |
| 1998 FT <sub>29</sub>  | 2000 10 05.5 | 00 46.39 +04 43.7 19.6 | -0.81 - 8.0 | 0.1/05.5  | 4378  |
| 2000 PW <sub>20</sub>  | 2000 10 05.5 | 00 46.50 +00 34.3 17.3 | -0.92 - 6.8 | 1.9/04.2  | 4977  |
| 2000 SE <sub>69</sub>  | 2000 10 05.5 | 00 46.57 +05 08.2 17.3 | -0.99 - 2.2 | 0.1/05.6  | 4818  |
| 2000 RL <sub>75</sub>  | 2000 10 05.5 | 00 46.57 +17 51.1 17.2 | -0.80 - 3.7 | 4.0/09.8  | 4777  |
| (10531)                | 2000 10 05.5 | 00 46.63 -06 13.8 16.1 | -1.62 + 5.8 | 5.4/03.8  | 3858  |
| 1999 BB <sub>1</sub>   | 2000 10 05.5 | 00 46.67 -44 09.2 17.9 | -1.54 + 6.6 | 23.4/20.0 | 35642 |
| 2000 RL <sub>2</sub>   | 2000 10 05.6 | 00 46.60 +06 17.7 17.5 | -0.79 - 3.5 | 0.4/06.0  | 4711  |
| 1998 FO <sub>8</sub>   | 2000 10 05.6 | 00 46.65 +03 58.3 17.2 | -0.83 - 1.9 | 0.3/05.3  | 4905  |
| (16870)                | 2000 10 05.6 | 00 46.66 +01 59.2 15.9 | -0.97 - 3.2 | 1.4/04.8  | 2959  |
| 1997 WW <sub>36</sub>  | 2000 10 05.6 | 00 46.69 -02 40.4 18.9 | -0.97 - 6.1 | 3.1/03.2  | 4898  |
| (16529)                | 2000 10 05.6 | 00 46.69 +04 30.4 15.0 | -0.70 -25.2 | 0.2/05.4  | 2860  |
| (17673)                | 2000 10 05.6 | 00 46.69 -04 30.1 18.0 | -0.74 - 4.9 | 2.9/02.5  | 4119  |
| 1998 HE <sub>2</sub>   | 2000 10 05.6 | 00 46.71 -08 30.6 18.4 | -0.81 - 2.8 | 4.0/01.4  | 4911  |
| 2000 RT <sub>44</sub>  | 2000 10 05.6 | 00 46.74 +16 52.0 16.8 | -1.07 - 2.1 | 4.5/09.0  | 4748  |
| (18199)                | 2000 10 05.6 | 00 46.79 +01 31.2 18.0 | -0.81 - 4.3 | 1.1/04.6  | 4273  |
| 1995 GS <sub>7</sub>   | 2000 10 05.6 | 00 46.79 -06 53.7 18.3 | -0.90 - 7.5 | 4.8/01.6  | 4890  |
| (18145)                | 2000 10 05.6 | 00 46.83 -08 01.4 17.5 | -0.83 - 3.2 | 6.6/01.6  | 4258  |
| 2000 RY <sub>2</sub>   | 2000 10 05.6 | 00 46.91 +05 10.8 17.1 | -0.95 - 8.0 | 0.1/05.7  | 4712  |
| 1981 DJ <sub>1</sub>   | 2000 10 05.6 | 00 46.96 +15 15.3 19.2 | -0.97 - 6.2 | 3.7/09.0  | 26914 |
| 1996 YD <sub>3</sub>   | 2000 10 05.6 | 00 46.96 +10 58.1 17.8 | -0.85 - 2.7 | 1.8/07.5  | 4895  |
| 2000 RC <sub>38</sub>  | 2000 10 05.6 | 00 46.97 +02 05.3 17.2 | -0.80 - 6.8 | 1.4/04.7  | 5045  |
| 1995 SC <sub>28</sub>  | 2000 10 05.7 | 00 46.91 +15 29.5 17.3 | -0.78 - 8.0 | 3.6/09.5  | 4890  |
| 1999 JP <sub>15</sub>  | 2000 10 05.7 | 00 46.96 -05 38.6 18.4 | -0.75 - 8.8 | 3.7/01.9  | 4933  |
| 1998 EE                | 2000 10 05.7 | 00 46.98 -07 02.0 17.3 | -0.84 - 2.3 | 3.8/02.1  | 4904  |
| 1998 FK <sub>64</sub>  | 2000 10 05.7 | 00 46.98 -00 07.8 17.2 | -0.70 -10.0 | 2.0/03.8  | 4908  |
| 2000 RG <sub>38</sub>  | 2000 10 05.7 | 00 47.07 +02 54.5 18.6 | -0.88 - 4.2 | 0.9/05.1  | 5045  |
| (17588)                | 2000 10 05.7 | 00 47.07 +01 30.5 19.1 | -0.94 - 6.0 | 1.2/04.6  | 4094  |
| 2000 SC <sub>166</sub> | 2000 10 05.7 | 00 47.15 +15 49.6 18.2 | -0.80 - 7.0 | 4.5/09.6  | 4845  |
| 1999 JQ <sub>49</sub>  | 2000 10 05.7 | 00 47.23 +03 41.0 19.4 | -0.92 - 6.2 | 0.5/05.3  | 4936  |
| 1999 JY <sub>93</sub>  | 2000 10 05.7 | 00 47.25 -07 57.8 17.4 | -0.88 - 7.5 | 5.5/01.3  | 4940  |
| 2000 QG <sub>230</sub> | 2000 10 05.7 | 00 47.30 -03 51.1 18.4 | -0.95 - 1.1 | 3.5/03.4  | 4706  |
| 1999 FM <sub>3</sub>   | 2000 10 05.7 | 00 47.36 +02 40.7 19.5 | -1.20 + 0.1 | 0.8/05.2  | 4432  |
| (10974)                | 2000 10 05.8 | 00 47.39 +04 50.6 18.0 | -0.93 - 5.1 | 0.1/05.8  | 34816 |
| 1995 WW <sub>7</sub>   | 2000 10 05.8 | 00 47.55 +25 31.8 16.8 | -0.72 - 6.6 | 7.8/13.6  | 4330  |
| 2000 RP <sub>70</sub>  | 2000 10 05.8 | 00 47.61 -00 47.5 16.6 | -0.89 - 5.8 | 2.4/04.0  | 5052  |
| (16806)                | 2000 10 05.8 | 00 47.71 +00 32.7 15.1 | -1.04 - 0.7 | 2.4/04.7  | 2939  |

|                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|----------|-------|
| 1981 EA <sub>35</sub>  | 2000 10 05.8 | 00 47.72 +16 04.1 15.5 | -1.05 + 2.8 | 4.5/08.5 | 4880  |
| 1999 GK <sub>31</sub>  | 2000 10 05.9 | 00 47.64 +08 27.9 17.7 | -0.78 -11.3 | 1.2/07.2 | 4931  |
| (11119)                | 2000 10 05.9 | 00 47.68 +06 51.4 16.2 | -0.84 - 7.9 | 0.7/06.5 | 35242 |
| (17898)                | 2000 10 05.9 | 00 47.81 +10 21.1 16.7 | -1.00 - 7.2 | 2.3/07.6 | 4186  |
| (17398)                | 2000 10 05.9 | 00 47.86 +03 40.2 17.7 | -0.73 -11.5 | 0.5/05.4 | 4040  |
| (10979)                | 2000 10 05.9 | 00 47.88 -02 46.8 18.3 | -0.87 - 6.7 | 2.9/03.4 | 3859  |
| 1999 JP <sub>85</sub>  | 2000 10 06.0 | 00 48.04 -00 26.6 17.6 | -0.80 - 8.8 | 1.9/04.0 | 4940  |
| 1998 HL <sub>129</sub> | 2000 10 06.0 | 00 48.06 +12 08.9 16.4 | -1.02 - 0.7 | 3.2/07.9 | 4914  |
| 1994 GO <sub>5</sub>   | 2000 10 06.0 | 00 48.07 +05 07.6 19.0 | -0.80 - 6.1 | 0.0/06.0 | 4888  |
| (15505)                | 2000 10 06.0 | 00 48.12 +07 30.2 17.5 | -0.63 - 2.8 | 0.5/06.8 | 910   |
| 2000 QH <sub>123</sub> | 2000 10 06.0 | 00 48.15 +14 25.8 15.7 | -0.90 - 1.9 | 4.0/08.8 | 5011  |
| 1996 VY <sub>1</sub>   | 2000 10 06.0 | 00 48.21 +22 30.3 18.8 | -0.89 - 5.4 | 5.5/11.8 | 4894  |
| 1992 EO <sub>9</sub>   | 2000 10 06.0 | 00 48.27 +05 46.7 17.6 | -0.76 - 4.4 | 0.2/06.3 | 4885  |
| (17746)                | 2000 10 06.0 | 00 48.35 +19 39.3 16.9 | -1.03 - 3.7 | 5.9/10.0 | 4139  |
| 1999 JL <sub>123</sub> | 2000 10 06.0 | 00 48.36 +17 12.7 17.5 | -0.81 - 9.4 | 4.2/10.5 | 4942  |
| 1999 ED <sub>7</sub>   | 2000 10 06.0 | 00 48.52 +09 36.0 17.5 | -1.79 + 7.7 | 2.3/06.7 | 4927  |
| 1994 PZ <sub>13</sub>  | 2000 10 06.1 | 00 48.41 +23 05.3 18.7 | -0.88 - 2.1 | 5.0/11.7 | 4323  |
| 1999 JW <sub>82</sub>  | 2000 10 06.1 | 00 48.48 -17 17.2 17.0 | -0.81 - 5.3 | 8.1/28.5 | 35465 |
| 1999 CJ <sub>118</sub> | 2000 10 06.1 | 00 48.48 +10 47.3 18.6 | -1.04 - 6.5 | 2.2/07.9 | 4430  |
| 1999 JP <sub>25</sub>  | 2000 10 06.1 | 00 48.49 +01 53.8 17.1 | -0.97 - 3.7 | 1.2/05.2 | 4934  |
| (11246)                | 2000 10 06.1 | 00 48.54 -00 36.5 16.5 | -0.79 - 6.8 | 2.7/04.2 | 35274 |
| 1999 JH <sub>76</sub>  | 2000 10 06.1 | 00 48.58 +16 15.9 17.4 | -0.78 - 9.4 | 4.0/10.3 | 4939  |
| (17676)                | 2000 10 06.1 | 00 48.60 +16 47.3 17.8 | -0.82 - 3.7 | 3.5/09.9 | 4119  |
| (17759)                | 2000 10 06.1 | 00 48.61 +04 14.5 17.9 | -0.79 - 8.5 | 0.3/05.8 | 4143  |
| 1999 JL <sub>56</sub>  | 2000 10 06.1 | 00 48.68 +02 01.4 18.5 | -0.80 - 6.4 | 1.1/05.1 | 4937  |
| (16473)                | 2000 10 06.1 | 00 48.69 +00 40.4 16.8 | -0.78 - 5.4 | 1.5/04.7 | 2844  |
| 1998 DK <sub>20</sub>  | 2000 10 06.1 | 00 48.73 +04 06.6 18.5 | -0.97 - 4.9 | 0.4/05.8 | 4366  |
| 1998 FD <sub>27</sub>  | 2000 10 06.1 | 00 48.74 -00 43.1 17.7 | -0.75 -11.2 | 2.1/04.0 | 4906  |
| 1998 EK <sub>14</sub>  | 2000 10 06.1 | 00 48.76 -07 01.9 18.6 | -0.71 - 6.1 | 3.4/02.0 | 4373  |
| 1999 JT <sub>24</sub>  | 2000 10 06.1 | 00 48.80 -03 54.5 18.2 | -1.03 0.0   | 3.3/03.9 | 4934  |
| 1999 JD <sub>99</sub>  | 2000 10 06.2 | 00 48.74 +01 50.6 18.0 | -0.83 -11.4 | 1.2/05.0 | 4941  |
| (17467)                | 2000 10 06.2 | 00 48.85 +07 50.4 17.4 | -0.70 - 8.4 | 0.8/07.2 | 4059  |
| 1988 RX <sub>10</sub>  | 2000 10 06.2 | 00 48.88 +04 28.6 17.9 | -0.76 - 3.8 | 0.3/06.0 | 4882  |
| 1999 GT <sub>18</sub>  | 2000 10 06.2 | 00 48.91 +02 23.2 18.5 | -0.95 - 5.6 | 1.0/05.4 | 4930  |
| 2000 QF <sub>93</sub>  | 2000 10 06.2 | 00 48.95 -06 06.1 16.8 | -0.68 - 9.4 | 3.3/01.9 | 5003  |
| 1998 FZ <sub>67</sub>  | 2000 10 06.2 | 00 49.05 +03 38.3 18.3 | -0.78 - 5.6 | 0.5/05.7 | 4908  |
| 1993 GF <sub>1</sub>   | 2000 10 06.3 | 00 49.18 -03 32.6 17.2 | -0.86 - 1.8 | 2.7/03.8 | 4886  |
| 2000 SG <sub>157</sub> | 2000 10 06.3 | 00 49.20 +03 49.7 19.2 | -0.95 - 6.0 | 0.6/05.9 | 4844  |
| (10475)                | 2000 10 06.3 | 00 49.27 +16 39.6 18.1 | -1.00 - 5.4 | 4.3/10.0 | 34430 |
| 2000 OD <sub>48</sub>  | 2000 10 06.3 | 00 49.30 +05 17.3 16.1 | -0.84 - 1.6 | 0.0/06.3 | 4971  |
| 5491 T-2               | 2000 10 06.3 | 00 49.37 +19 37.2 18.0 | -0.86 - 2.5 | 4.2/10.8 | 5147  |
| 2000 RK <sub>86</sub>  | 2000 10 06.3 | 00 49.44 +03 32.8 19.3 | -0.80 - 6.2 | 0.6/05.8 | 4784  |
| 2000 SS <sub>255</sub> | 2000 10 06.3 | 00 49.45 +06 00.2 19.6 | -0.85 - 5.6 | 0.3/06.6 | 4852  |
| 2000 RF <sub>94</sub>  | 2000 10 06.3 | 00 49.45 +10 41.7 18.4 | -0.83 - 4.9 | 1.8/08.1 | 4791  |
| 2000 SH <sub>254</sub> | 2000 10 06.3 | 00 49.48 -03 01.7 18.9 | -0.89 - 6.0 | 2.9/03.7 | 4852  |
| 1999 FG <sub>28</sub>  | 2000 10 06.3 | 00 49.53 +13 52.0 18.1 | -0.98 - 7.1 | 3.1/09.2 | 4435  |
| 2000 RP <sub>95</sub>  | 2000 10 06.4 | 00 49.48 -01 56.6 16.9 | -0.82 - 5.6 | 3.3/04.0 | 5059  |
| 1998 HN <sub>37</sub>  | 2000 10 06.4 | 00 49.51 +05 24.6 17.4 | -1.02 - 1.1 | 0.0/06.4 | 4912  |
| 2000 QW <sub>230</sub> | 2000 10 06.4 | 00 49.57 +00 41.3 18.9 | -0.76 - 7.0 | 2.1/04.8 | 4707  |
| 2000 SF <sub>183</sub> | 2000 10 06.4 | 00 49.59 +04 28.3 19.3 | -0.80 - 4.4 | 0.3/06.2 | 4847  |
| (17920)                | 2000 10 06.4 | 00 49.72 +03 41.1 18.3 | -0.88 - 8.4 | 0.6/05.9 | 4192  |

|                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|----------|-------|
| 2000 RL <sub>33</sub>  | 2000 10 06.4 | 00 49.74 +13 08.8 17.0 | -0.91 - 6.2 | 3.2/09.0 | 4739  |
| 2000 RB <sub>3</sub>   | 2000 10 06.4 | 00 49.75 +09 14.7 17.7 | -1.05 + 0.2 | 1.5/07.5 | 4713  |
| 1981 ES <sub>18</sub>  | 2000 10 06.4 | 00 49.76 +06 09.0 19.6 | -0.94 - 6.6 | 0.3/06.7 | 4880  |
| (16694)                | 2000 10 06.4 | 00 49.77 +19 57.8 14.9 | -0.97 - 6.2 | 7.0/11.5 | 2908  |
| 2000 RS <sub>44</sub>  | 2000 10 06.4 | 00 49.84 +16 21.1 17.5 | -0.98 - 2.9 | 4.3/10.0 | 4748  |
| 2000 QL <sub>123</sub> | 2000 10 06.5 | 00 49.94 +18 40.6 16.7 | -1.12 + 2.5 | 5.7/09.7 | 5011  |
| 1997 WX <sub>49</sub>  | 2000 10 06.5 | 00 50.00 -01 54.2 17.1 | -1.03 - 3.8 | 3.0/04.5 | 4899  |
| 1991 VJ <sub>6</sub>   | 2000 10 06.5 | 00 50.01 +05 35.1 16.6 | -0.70 -10.1 | 0.1/06.6 | 4884  |
| 2000 RY <sub>42</sub>  | 2000 10 06.5 | 00 50.03 +20 54.3 18.5 | -0.86 - 3.6 | 4.9/11.6 | 4747  |
| 2000 QX <sub>143</sub> | 2000 10 06.5 | 00 50.10 +05 29.7 17.6 | -1.75 + 6.9 | 0.1/06.6 | 4663  |
| (11231)                | 2000 10 06.5 | 00 50.18 -03 50.1 15.8 | -0.91 - 7.2 | 4.0/03.5 | 35271 |
| 2000 RX <sub>42</sub>  | 2000 10 06.6 | 00 50.27 +18 31.3 16.8 | -0.82 - 7.7 | 4.0/11.3 | 4747  |
| 1996 ST <sub>4</sub>   | 2000 10 06.6 | 00 50.35 +04 24.1 19.2 | -0.93 - 4.1 | 0.4/06.3 | 4336  |
| (17098)                | 2000 10 06.6 | 00 50.39 +10 46.8 17.6 | -0.94 - 4.2 | 2.0/08.3 | 3026  |
| 1999 JQ <sub>37</sub>  | 2000 10 06.6 | 00 50.41 +03 00.8 19.1 | -0.97 - 4.5 | 0.8/05.9 | 4465  |
| 1981 ED <sub>36</sub>  | 2000 10 06.6 | 00 50.46 +14 20.7 17.5 | -1.04 - 3.6 | 3.8/09.3 | 4880  |
| (17013)                | 2000 10 06.6 | 00 50.46 +16 20.5 16.2 | -1.12 - 3.5 | 4.5/10.0 | 3002  |
| (17716)                | 2000 10 06.6 | 00 50.51 +11 25.9 17.4 | -0.99 - 5.2 | 2.7/08.5 | 4131  |
| 2000 RQ <sub>83</sub>  | 2000 10 06.6 | 00 50.56 +13 19.3 18.4 | -0.49 - 3.4 | 1.4/09.5 | 4782  |
| 2000 RR <sub>33</sub>  | 2000 10 06.6 | 00 50.60 +10 26.7 17.3 | -0.89 - 3.9 | 1.8/08.2 | 4739  |
| (10562)                | 2000 10 06.6 | 00 50.70 +11 23.8 14.4 | -1.61 + 9.8 | 3.0/07.5 | 34452 |
| 2000 RU <sub>70</sub>  | 2000 10 06.7 | 00 50.56 -01 49.5 17.9 | -0.80 - 7.4 | 3.0/04.2 | 5052  |
| 2000 SG <sub>63</sub>  | 2000 10 06.7 | 00 50.63 -00 28.8 18.2 | -0.83 - 9.0 | 2.5/04.6 | 4816  |
| (11314)                | 2000 10 06.7 | 00 50.63 -11 07.3 16.1 | -0.74 - 6.8 | 5.5/30.7 | 4878  |
| 2000 SY <sub>135</sub> | 2000 10 06.7 | 00 50.76 +22 27.9 18.3 | -0.74 - 9.2 | 5.5/13.4 | 4835  |
| 2000 OK <sub>49</sub>  | 2000 10 06.7 | 00 50.76 -06 24.5 16.6 | -0.89 - 5.5 | 5.4/03.0 | 4972  |
| 2000 RQ <sub>94</sub>  | 2000 10 06.7 | 00 50.88 +03 28.2 18.7 | -0.98 - 7.8 | 0.9/06.1 | 4792  |
| 2000 SV <sub>165</sub> | 2000 10 06.7 | 00 50.88 +18 28.5 18.6 | -0.86 - 2.4 | 4.1/10.8 | 4845  |
| 1995 WR <sub>7</sub>   | 2000 10 06.7 | 00 50.93 +17 49.0 16.8 | -0.75 - 5.5 | 3.9/11.1 | 4891  |
| (17678)                | 2000 10 06.8 | 00 50.96 -00 06.8 17.5 | -0.75 - 4.8 | 1.7/05.0 | 4120  |
| (17664)                | 2000 10 06.8 | 00 50.97 +21 11.1 15.5 | -0.64 -11.5 | 7.0/13.3 | 4116  |
| 1997 AA <sub>6</sub>   | 2000 10 06.8 | 00 51.02 +26 27.1 18.2 | -0.82 - 6.8 | 8.6/14.6 | 4343  |
| 1999 JS <sub>60</sub>  | 2000 10 06.8 | 00 51.07 +02 57.9 18.7 | -0.91 - 6.6 | 0.9/06.0 | 4477  |
| 1999 KJ                | 2000 10 06.8 | 00 51.12 +02 18.1 18.5 | -0.90 - 5.8 | 1.4/05.8 | 4942  |
| 2569 P-L               | 2000 10 06.8 | 00 51.20 +05 16.3 17.1 | -1.11 + 2.9 | 0.1/06.8 | 4858  |
| 1981 ET <sub>43</sub>  | 2000 10 06.8 | 00 51.21 +03 35.9 19.8 | -0.67 -10.5 | 0.5/06.1 | 4881  |
| 1998 JS <sub>3</sub>   | 2000 10 06.8 | 00 51.23 -00 41.2 19.2 | -0.71 - 5.5 | 1.7/04.8 | 4411  |
| 1999 GT <sub>20</sub>  | 2000 10 06.8 | 00 51.24 +00 33.9 18.7 | -0.93 - 6.1 | 1.7/05.3 | 4442  |
| 2000 QC <sub>105</sub> | 2000 10 06.8 | 00 51.31 -11 23.4 18.9 | -0.72 - 5.9 | 5.4/30.9 | 4637  |
| (16951)                | 2000 10 06.9 | 00 51.39 -10 58.1 17.2 | -0.81 - 2.9 | 5.0/01.8 | 2983  |
| 2000 OB <sub>48</sub>  | 2000 10 06.9 | 00 51.42 +07 09.6 16.0 | -0.85 - 7.8 | 0.8/07.5 | 4586  |
| 2000 RW <sub>70</sub>  | 2000 10 06.9 | 00 51.49 +00 14.7 18.2 | -1.04 - 2.5 | 2.3/05.5 | 4770  |
| 1999 JO <sub>55</sub>  | 2000 10 06.9 | 00 51.49 +05 42.7 18.2 | -0.72 - 8.2 | 0.1/07.0 | 4474  |
| 2000 RO <sub>42</sub>  | 2000 10 06.9 | 00 51.50 +18 19.0 18.4 | -0.78 - 5.9 | 3.8/11.4 | 4746  |
| 2000 OT <sub>50</sub>  | 2000 10 06.9 | 00 51.51 -04 19.5 16.4 | -0.79 - 1.4 | 5.0/04.0 | 4972  |
| 2000 SB                | 2000 10 06.9 | 00 51.53 +09 51.8 16.5 | -0.77 - 8.1 | 1.9/08.5 | 4800  |
| 1998 FW <sub>96</sub>  | 2000 10 06.9 | 00 51.62 +07 43.3 19.5 | -0.81 - 8.0 | 0.6/07.7 | 4392  |
| 2000 PY <sub>25</sub>  | 2000 10 07.0 | 00 51.65 +24 16.9 17.6 | -0.84 - 5.6 | 6.3/13.5 | 4595  |
| 1999 JS <sub>31</sub>  | 2000 10 07.0 | 00 51.67 +04 43.5 19.7 | -0.92 - 6.3 | 0.3/06.7 | 4462  |
| (18147)                | 2000 10 07.0 | 00 51.82 -05 08.5 17.0 | -0.69 -12.3 | 4.3/02.9 | 4258  |
| 2000 SS <sub>1</sub>   | 2000 10 07.0 | 00 51.85 +07 11.9 16.3 | -0.67 - 8.6 | 0.8/07.7 | 5062  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 2000 RO <sub>94</sub>  | 2000 10 07.0 | 00 51.93 +07 04.3 18.2 | -0.89 - 6.6 | 0.6/07.6  | 4792  |
| 2000 SM <sub>63</sub>  | 2000 10 07.0 | 00 51.98 -00 24.3 18.7 | -0.91 - 8.3 | 2.8/05.1  | 4816  |
| (16589)                | 2000 10 07.0 | 00 52.10 +15 23.6 15.7 | -1.80 +10.4 | 5.4/08.2  | 2878  |
| 2000 OO <sub>49</sub>  | 2000 10 07.1 | 00 52.02 -03 42.3 17.2 | -1.02 - 2.4 | 4.5/04.6  | 4972  |
| 1999 BU <sub>2</sub>   | 2000 10 07.1 | 00 52.04 -38 49.8 18.3 | -1.09 - 5.9 | 18.7/20.0 | 34042 |
| 2000 OY <sub>52</sub>  | 2000 10 07.1 | 00 52.16 +00 25.3 17.8 | -0.82 - 5.8 | 2.1/05.4  | 4590  |
| 2000 RE <sub>95</sub>  | 2000 10 07.1 | 00 52.16 +01 49.7 18.2 | -0.95 - 5.0 | 1.4/06.0  | 4793  |
| 1999 NN <sub>5</sub>   | 2000 10 07.1 | 00 52.20 +33 42.2 16.2 | -0.79 - 5.7 | 7.8/18.0  | 4943  |
| 4286 T-2               | 2000 10 07.1 | 00 52.24 -00 08.9 18.8 | -0.82 - 2.5 | 1.7/05.4  | 4869  |
| 2000 RE <sub>60</sub>  | 2000 10 07.1 | 00 52.27 +04 33.7 17.0 | -0.85 - 7.0 | 0.5/06.8  | 5049  |
| 1998 FD <sub>36</sub>  | 2000 10 07.1 | 00 52.29 +04 45.1 19.4 | -0.90 - 3.1 | 0.3/06.9  | 4907  |
| 1998 HW <sub>78</sub>  | 2000 10 07.1 | 00 52.35 +15 00.6 17.9 | -0.74 - 7.2 | 3.1/10.5  | 4913  |
| 1999 JB <sub>63</sub>  | 2000 10 07.1 | 00 52.37 -13 56.6 18.3 | -0.99 - 2.7 | 6.5/01.4  | 3912  |
| 2000 QQ <sub>143</sub> | 2000 10 07.1 | 00 52.42 -04 32.4 18.3 | -0.79 - 7.8 | 5.1/03.7  | 4663  |
| 2000 PE <sub>25</sub>  | 2000 10 07.2 | 00 52.38 -00 08.4 17.1 | -0.92 - 2.9 | 2.5/05.5  | 4978  |
| 1998 HO <sub>68</sub>  | 2000 10 07.2 | 00 52.38 +10 41.6 17.4 | -0.78 - 4.6 | 1.7/08.9  | 4913  |
| 1998 DZ                | 2000 10 07.2 | 00 52.39 +08 47.1 18.2 | -0.91 - 4.7 | 1.1/08.2  | 4902  |
| 1999 LS <sub>24</sub>  | 2000 10 07.2 | 00 52.45 +10 17.8 17.2 | -0.93 - 6.5 | 1.7/08.7  | 4943  |
| 1999 LJ <sub>4</sub>   | 2000 10 07.2 | 00 52.56 -32 13.7 20.0 | -0.89 - 4.8 | 10.1/23.6 | 35737 |
| 1999 JY <sub>25</sub>  | 2000 10 07.2 | 00 52.56 +03 21.7 17.6 | -0.92 - 4.7 | 0.8/06.6  | 4934  |
| (17407)                | 2000 10 07.2 | 00 52.62 -01 20.0 15.3 | -0.98 + 2.0 | 3.4/05.6  | 4043  |
| 1997 AC <sub>8</sub>   | 2000 10 07.2 | 00 52.80 +19 27.7 18.2 | -0.83 - 4.2 | 4.6/11.8  | 4896  |
| 2000 RD <sub>92</sub>  | 2000 10 07.2 | 00 52.81 +09 43.6 17.9 | -1.02 - 5.7 | 1.6/08.5  | 4789  |
| 2000 SG <sub>251</sub> | 2000 10 07.2 | 00 52.82 -01 14.8 19.7 | -0.93 - 1.8 | 2.7/05.4  | 4852  |
| 1999 JG <sub>57</sub>  | 2000 10 07.3 | 00 52.77 -00 07.7 17.8 | -0.83 - 6.3 | 2.1/05.4  | 4937  |
| 1999 JU <sub>30</sub>  | 2000 10 07.3 | 00 52.83 +10 16.7 19.9 | -0.90 - 5.3 | 1.5/08.8  | 3910  |
| 2000 RZ <sub>4</sub>   | 2000 10 07.3 | 00 52.84 +06 09.4 18.1 | -0.98 - 2.2 | 0.2/07.5  | 5036  |
| 2000 RF <sub>69</sub>  | 2000 10 07.3 | 00 52.89 +05 20.8 17.4 | -0.75 - 8.6 | 0.1/07.2  | 4767  |
| 1999 EN <sub>3</sub>   | 2000 10 07.3 | 00 52.99 +04 58.3 19.3 | -1.06 - 6.0 | 0.3/07.1  | 4431  |
| 1979 MK <sub>4</sub>   | 2000 10 07.3 | 00 52.99 -01 13.4 18.7 | -0.93 - 6.8 | 2.9/05.2  | 4299  |
| 1993 FQ <sub>50</sub>  | 2000 10 07.3 | 00 53.02 +09 16.8 16.5 | -1.05 - 5.3 | 1.7/08.4  | 4886  |
| (17377)                | 2000 10 07.3 | 00 53.05 +15 10.7 17.1 | -0.81 - 9.6 | 3.7/10.8  | 4034  |
| 1999 JK <sub>49</sub>  | 2000 10 07.3 | 00 53.08 +13 09.0 17.8 | -0.81 - 8.7 | 2.8/10.0  | 4936  |
| 2000 RU <sub>92</sub>  | 2000 10 07.3 | 00 53.08 +10 23.3 18.2 | -0.81 - 6.6 | 1.6/09.0  | 4790  |
| 1999 JX <sub>53</sub>  | 2000 10 07.3 | 00 53.12 -05 02.6 17.2 | -0.93 - 4.1 | 4.7/04.1  | 4937  |
| 2000 RU <sub>2</sub>   | 2000 10 07.3 | 00 53.16 +02 36.4 17.7 | -0.70 - 8.2 | 1.0/06.3  | 4712  |
| 7562 P-L               | 2000 10 07.4 | 00 53.14 +02 50.2 17.6 | -0.97 + 0.1 | 1.1/06.7  | 4863  |
| 2000 RS <sub>33</sub>  | 2000 10 07.4 | 00 53.15 +07 21.2 17.2 | -0.87 - 8.8 | 0.6/08.0  | 4740  |
| 1998 AC <sub>3</sub>   | 2000 10 07.4 | 00 53.15 -10 30.3 17.6 | -0.91 - 4.5 | 7.2/02.2  | 4900  |
| 2000 RG <sub>58</sub>  | 2000 10 07.4 | 00 53.15 +12 07.9 19.2 | -0.95 - 1.6 | 2.1/09.2  | 4758  |
| 1998 OM <sub>12</sub>  | 2000 10 07.4 | 00 53.34 +03 19.1 18.3 | -0.51 - 2.3 | 0.4/06.7  | 4915  |
| 1998 HR <sub>137</sub> | 2000 10 07.4 | 00 53.35 +00 48.4 19.1 | -0.77 - 5.0 | 1.5/05.9  | 4411  |
| 1999 FK <sub>19</sub>  | 2000 10 07.4 | 00 53.39 +00 50.6 17.9 | -1.03 - 5.9 | 2.0/06.0  | 4928  |
| 1997 AN <sub>3</sub>   | 2000 10 07.4 | 00 53.40 +06 59.0 18.9 | -0.80 - 4.7 | 0.4/07.9  | 4896  |
| 2000 RX <sub>33</sub>  | 2000 10 07.4 | 00 53.49 +11 40.0 17.6 | -1.05 - 1.3 | 2.1/09.1  | 5044  |
| 2000 SG <sub>186</sub> | 2000 10 07.4 | 00 53.49 +05 39.2 19.4 | -0.81 - 4.5 | 0.0/07.5  | 4847  |
| 2000 RG <sub>95</sub>  | 2000 10 07.5 | 00 53.54 +01 53.2 17.4 | -0.90 - 3.1 | 1.6/06.4  | 5058  |
| 2000 SP <sub>166</sub> | 2000 10 07.5 | 00 53.62 +18 07.2 17.2 | -1.08 - 0.6 | 5.5/10.8  | 4845  |
| 4066 P-L               | 2000 10 07.5 | 00 53.67 +08 28.0 17.3 | -1.02 - 2.1 | 1.4/08.3  | 5144  |
| 1998 FV <sub>64</sub>  | 2000 10 07.5 | 00 53.69 +06 05.6 18.2 | -0.78 - 5.3 | 0.1/07.7  | 4908  |
| 2000 QB <sub>105</sub> | 2000 10 07.5 | 00 53.78 -06 39.8 17.5 | -0.95 - 2.3 | 5.7/04.0  | 4637  |

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M.P.C. 41401

|                        |              |                   |                  |           |       |
|------------------------|--------------|-------------------|------------------|-----------|-------|
| 3250 T-2               | 2000 10 07.5 | 00 53.80 +04 07.9 | 19.0 -0.93 - 2.6 | 0.6/07.1  | 4868  |
| 1996 PY <sub>4</sub>   | 2000 10 07.6 | 00 53.86 -18 38.3 | 19.1 -0.88 - 9.0 | 7.6/28.8  | 4892  |
| 2000 RV <sub>33</sub>  | 2000 10 07.6 | 00 53.90 +13 43.7 | 17.8 -0.92 - 2.2 | 2.7/10.0  | 4740  |
| 4712 P-L               | 2000 10 07.6 | 00 54.01 +05 22.6 | 19.3 -0.93 - 6.6 | 0.1/07.5  | 4860  |
| 2000 SK <sub>71</sub>  | 2000 10 07.6 | 00 54.01 +05 01.2 | 18.7 -1.11 + 1.6 | 0.3/07.5  | 4819  |
| 1997 YJ                | 2000 10 07.6 | 00 54.05 +08 56.0 | 18.2 -0.94 - 5.8 | 1.0/08.6  | 4899  |
| 1997 WD <sub>7</sub>   | 2000 10 07.6 | 00 54.09 +16 40.3 | 17.8 -1.00 - 5.0 | 4.3/11.0  | 4898  |
| 1998 FO <sub>74</sub>  | 2000 10 07.6 | 00 54.12 -02 42.6 | 18.8 -0.77 - 7.1 | 2.6/04.7  | 4909  |
| 1996 RN <sub>25</sub>  | 2000 10 07.6 | 00 54.20 +01 01.8 | 18.5 -0.82 - 8.4 | 1.9/06.0  | 4893  |
| 2000 SA <sub>20</sub>  | 2000 10 07.7 | 00 54.21 +14 43.4 | 17.5 -0.86 - 6.8 | 3.7/10.7  | 4806  |
| 1997 WO <sub>25</sub>  | 2000 10 07.7 | 00 54.25 +08 17.6 | 19.0 -0.96 - 8.3 | 1.0/08.5  | 4353  |
| (18015)                | 2000 10 07.7 | 00 54.26 +05 01.8 | 17.5 -0.88 - 8.5 | 0.3/07.4  | 4220  |
| (10577)                | 2000 10 07.7 | 00 54.28 +01 40.1 | 18.3 -0.93 - 4.3 | 1.4/06.5  | 34456 |
| 1981 EX <sub>9</sub>   | 2000 10 07.7 | 00 54.29 +17 46.4 | 17.7 -0.83 - 3.2 | 3.8/11.5  | 4880  |
| (16952)                | 2000 10 07.7 | 00 54.29 +00 24.0 | 17.8 -0.74 - 5.3 | 1.6/05.9  | 2983  |
| 2000 RC <sub>3</sub>   | 2000 10 07.7 | 00 54.36 +05 35.9 | 18.5 -0.87 - 4.4 | 0.1/07.7  | 4713  |
| (16779)                | 2000 10 07.7 | 00 54.38 +22 50.7 | 16.0 -0.81 - 9.1 | 6.4/14.3  | 2931  |
| 4728 P-L               | 2000 10 07.7 | 00 54.47 +04 32.5 | 19.1 -0.68 - 7.2 | 0.5/07.3  | 4861  |
| 2000 OX <sub>20</sub>  | 2000 10 07.7 | 00 54.51 +15 29.5 | 18.0 -1.22 + 2.2 | 3.6/09.9  | 4965  |
| 1997 WF <sub>43</sub>  | 2000 10 07.8 | 00 54.62 -06 17.8 | 17.3 -1.00 - 4.0 | 4.8/04.3  | 4898  |
| 2000 SW <sub>143</sub> | 2000 10 07.8 | 00 54.63 +04 51.8 | 18.7 -0.76 - 4.2 | 0.4/07.5  | 4837  |
| 1999 JQ <sub>69</sub>  | 2000 10 07.8 | 00 54.66 -01 50.5 | 18.3 -0.99 - 5.0 | 3.3/05.5  | 4481  |
| 2000 SV <sub>106</sub> | 2000 10 07.8 | 00 54.81 +07 48.2 | 18.3 -0.86 - 8.4 | 0.9/08.5  | 4825  |
| 2000 RF <sub>3</sub>   | 2000 10 07.8 | 00 54.87 +05 21.0 | 16.5 -1.02 - 1.6 | 0.2/07.7  | 5035  |
| 1994 AO <sub>1</sub>   | 2000 10 07.9 | 00 55.23 +26 27.6 | 16.5 -1.00 - 4.6 | 7.6/14.6  | 4319  |
| 2000 SS <sub>22</sub>  | 2000 10 07.9 | 00 55.28 +03 11.8 | 18.8 -0.74 - 4.8 | 0.8/07.1  | 4807  |
| 2000 QW <sub>104</sub> | 2000 10 07.9 | 00 55.31 -04 33.9 | 18.4 -0.85 - 3.5 | 4.1/04.8  | 4636  |
| 1999 JN <sub>72</sub>  | 2000 10 07.9 | 00 55.32 +07 09.8 | 17.0 -0.69 -12.3 | 0.5/08.5  | 4938  |
| (17026)                | 2000 10 07.9 | 00 55.36 -02 41.7 | 17.3 -0.79 - 9.1 | 3.0/05.0  | 3006  |
| 1999 KD <sub>9</sub>   | 2000 10 08.0 | 00 55.32 +14 58.0 | 18.6 -0.92 - 7.8 | 3.4/11.1  | 4502  |
| 2000 SS <sub>106</sub> | 2000 10 08.0 | 00 55.42 +07 37.0 | 18.1 -0.74 - 6.4 | 0.6/08.6  | 4825  |
| 2000 QF <sub>105</sub> | 2000 10 08.0 | 00 55.43 -08 09.9 | 16.3 -0.79 - 3.2 | 4.2/03.6  | 4637  |
| (17755)                | 2000 10 08.0 | 00 55.48 +02 31.7 | 18.1 -0.76 - 4.5 | 1.0/06.9  | 4142  |
| 1998 KT <sub>26</sub>  | 2000 10 08.0 | 00 55.54 -24 25.6 | 18.1 -0.74 - 4.4 | 8.3/26.7  | 4914  |
| 2000 OP <sub>49</sub>  | 2000 10 08.0 | 00 55.65 -03 16.8 | 16.4 -0.96 - 3.5 | 4.3/05.4  | 4972  |
| 4328 T-2               | 2000 10 08.0 | 00 55.71 +01 29.3 | 18.4 -1.02 - 4.9 | 1.7/06.8  | 5147  |
| 1999 CP <sub>15</sub>  | 2000 10 08.0 | 00 55.77 +27 07.4 | 16.0 -1.80 + 5.0 | 10.1/12.1 | 4925  |
| 1999 JY <sub>6</sub>   | 2000 10 08.1 | 00 55.72 -01 53.0 | 19.1 -0.87 - 6.9 | 2.8/05.5  | 4451  |
| 2000 OQ <sub>2</sub>   | 2000 10 08.1 | 00 55.74 +11 23.2 | 15.7 -0.94 - 7.2 | 2.6/10.0  | 4962  |
| 2000 RG <sub>71</sub>  | 2000 10 08.1 | 00 55.75 -00 41.8 | 17.8 -1.10 - 2.7 | 2.9/06.3  | 4771  |
| 1999 NC <sub>32</sub>  | 2000 10 08.1 | 00 55.75 +21 23.3 | 17.2 -0.83 - 3.9 | 4.6/13.1  | 4508  |
| 1999 NP <sub>17</sub>  | 2000 10 08.1 | 00 55.79 +18 01.9 | 19.0 -0.91 - 4.5 | 3.7/11.9  | 4508  |
| 2000 ST <sub>1</sub>   | 2000 10 08.1 | 00 55.80 +06 40.8 | 16.6 -0.83 - 9.4 | 0.3/08.4  | 4801  |
| (10455)                | 2000 10 08.1 | 00 55.80 -05 07.0 | 16.2 -0.83 - 6.9 | 5.1/04.5  | 3858  |
| (16666)                | 2000 10 08.1 | 00 55.80 +36 32.4 | 15.5 -0.88 -12.1 | 12.6/21.0 | 2900  |
| 2033 P-L               | 2000 10 08.1 | 00 55.84 +08 25.9 | 17.2 -0.62 - 4.5 | 0.6/09.0  | 5144  |
| (17079)                | 2000 10 08.1 | 00 55.90 +07 16.5 | 17.0 -1.02 - 2.9 | 0.5/08.5  | 3020  |
| 1998 FP <sub>118</sub> | 2000 10 08.1 | 00 55.94 +11 52.8 | 18.4 -0.83 - 4.5 | 1.9/10.0  | 4911  |
| 1999 JB <sub>71</sub>  | 2000 10 08.1 | 00 56.01 -15 57.6 | 17.6 -1.01 - 0.9 | 7.6/02.2  | 36543 |
| 2000 OO <sub>52</sub>  | 2000 10 08.1 | 00 56.04 +00 28.9 | 17.4 -0.81 - 9.9 | 2.4/06.2  | 4972  |
| 1999 EQ <sub>3</sub>   | 2000 10 08.2 | 00 56.09 -00 14.7 | 17.6 -0.96 - 4.9 | 2.7/06.4  | 4927  |

|                        |              |                   |                  |           |       |
|------------------------|--------------|-------------------|------------------|-----------|-------|
| 1996 NQ <sub>2</sub>   | 2000 10 08.2 | 00 56.11 +06 01.8 | 18.4 -0.92 - 6.7 | 0.0/08.2  | 4334  |
| 2000 OQ <sub>52</sub>  | 2000 10 08.2 | 00 56.11 +07 11.8 | 16.9 -0.89 - 4.9 | 0.6/08.6  | 4589  |
| 1998 FX <sub>53</sub>  | 2000 10 08.2 | 00 56.24 +10 07.2 | 20.4 -0.90 - 6.0 | 1.3/09.6  | 3211  |
| 2000 SF <sub>139</sub> | 2000 10 08.2 | 00 56.24 +12 26.7 | 16.6 -0.82 - 6.8 | 2.4/10.4  | 4835  |
| 2234 T-2               | 2000 10 08.2 | 00 56.30 +07 35.3 | 19.1 -0.85 - 2.1 | 0.4/08.7  | 5146  |
| 2000 RV <sub>70</sub>  | 2000 10 08.2 | 00 56.44 +02 24.9 | 18.0 -0.81 - 4.3 | 1.2/07.2  | 4770  |
| 1998 HF <sub>29</sub>  | 2000 10 08.2 | 00 56.46 +11 03.7 | 18.0 -0.87 - 6.0 | 1.8/09.9  | 4401  |
| 2000 OG <sub>49</sub>  | 2000 10 08.2 | 00 56.46 +02 42.9 | 16.2 -0.92 - 2.8 | 1.8/07.3  | 4586  |
| 1999 GJ <sub>20</sub>  | 2000 10 08.3 | 00 56.49 +00 02.1 | 18.0 -0.89 - 6.3 | 2.0/06.4  | 4931  |
| (16495)                | 2000 10 08.3 | 00 56.62 -02 56.9 | 18.3 -1.01 - 4.8 | 3.9/05.7  | 2850  |
| 1999 JK <sub>100</sub> | 2000 10 08.3 | 00 56.70 -05 55.4 | 18.7 -0.76 - 9.2 | 4.0/04.0  | 4941  |
| 1108 T-1               | 2000 10 08.3 | 00 56.73 +11 13.6 | 18.2 -1.07 - 3.5 | 2.1/09.8  | 5146  |
| 4273 P-L               | 2000 10 08.3 | 00 56.77 +07 01.1 | 19.5 -0.95 - 6.2 | 0.3/08.7  | 37249 |
| 2134 T-3               | 2000 10 08.3 | 00 56.77 +13 48.6 | 16.8 -0.94 - 2.7 | 2.9/10.6  | 5147  |
| (17172)                | 2000 10 08.3 | 00 56.78 -25 12.3 | 17.4 -0.50 - 4.0 | 5.6/26.2  | 3047  |
| (17843)                | 2000 10 08.4 | 00 56.80 +01 45.2 | 18.7 -0.72 - 4.4 | 1.1/07.0  | 4170  |
| 1999 JS <sub>74</sub>  | 2000 10 08.4 | 00 56.81 -05 47.9 | 18.0 -0.81 - 7.2 | 3.7/04.4  | 4938  |
| 1994 PM <sub>13</sub>  | 2000 10 08.4 | 00 56.81 -03 34.0 | 18.6 -0.68 - 7.6 | 3.0/04.9  | 4889  |
| 2000 OU <sub>20</sub>  | 2000 10 08.4 | 00 56.81 +10 47.9 | 16.3 -1.03 - 1.6 | 1.6/10.0  | 4965  |
| 2000 NO <sub>5</sub>   | 2000 10 08.4 | 00 56.87 -00 59.6 | 16.0 -0.72 - 8.0 | 3.5/05.9  | 4957  |
| 2000 SH <sub>3</sub>   | 2000 10 08.4 | 00 56.94 -15 52.0 | 14.5 -1.73 +15.5 | 11.7/06.7 | 4802  |
| 1998 HL <sub>137</sub> | 2000 10 08.4 | 00 56.98 -06 20.9 | 19.5 -0.81 - 2.1 | 3.3/04.8  | 4410  |
| 2151 T-2               | 2000 10 08.4 | 00 57.00 +09 24.0 | 15.4 -0.77 - 1.6 | 1.5/09.4  | 5146  |
| 2000 RA <sub>58</sub>  | 2000 10 08.4 | 00 57.10 +09 49.9 | 18.7 -0.71 - 6.0 | 1.0/09.7  | 4757  |
| 1999 FY <sub>7</sub>   | 2000 10 08.4 | 00 57.17 -11 00.0 | 17.6 -0.73 -25.5 | 7.6/30.7  | 4928  |
| 2000 PF <sub>25</sub>  | 2000 10 08.4 | 00 57.20 -04 08.5 | 18.2 -0.85 - 5.5 | 4.2/05.3  | 4978  |
| 2000 QE <sub>127</sub> | 2000 10 08.4 | 00 57.22 +14 27.9 | 17.7 -1.06 + 2.0 | 3.2/10.4  | 5012  |
| (17525)                | 2000 10 08.5 | 00 57.15 +03 39.1 | 17.2 -0.82 - 4.2 | 0.8/07.7  | 4076  |
| (17089)                | 2000 10 08.5 | 00 57.19 +15 46.4 | 18.2 -0.91 - 6.7 | 3.5/11.7  | 3023  |
| 1998 FD <sub>49</sub>  | 2000 10 08.5 | 00 57.19 +14 36.9 | 17.9 -1.11 + 0.1 | 3.4/10.6  | 4907  |
| 1999 JY <sub>67</sub>  | 2000 10 08.5 | 00 57.28 +07 03.9 | 17.9 -0.79 -10.8 | 0.3/08.9  | 4938  |
| 2000 SD <sub>46</sub>  | 2000 10 08.5 | 00 57.44 +33 33.9 | 17.2 -0.96 - 2.4 | 12.0/18.2 | 4813  |
| 2000 SL <sub>71</sub>  | 2000 10 08.5 | 00 57.51 +02 58.3 | 18.3 -0.82 - 5.8 | 1.1/07.6  | 4819  |
| 2000 SW <sub>106</sub> | 2000 10 08.5 | 00 57.56 +07 33.2 | 18.4 -0.74 - 5.8 | 0.4/09.1  | 4825  |
| 1977 DH <sub>4</sub>   | 2000 10 08.6 | 00 57.50 +16 51.3 | 16.8 -1.09 + 0.1 | 4.5/11.3  | 4879  |
| 1999 JO <sub>66</sub>  | 2000 10 08.6 | 00 57.55 +04 30.8 | 18.9 -0.96 - 7.4 | 0.6/08.1  | 4938  |
| 2000 OC <sub>9</sub>   | 2000 10 08.6 | 00 57.61 +15 43.2 | 17.0 -1.01 + 2.2 | 5.3/11.0  | 4964  |
| 1996 QV                | 2000 10 08.6 | 00 57.67 +09 45.8 | 19.1 -0.90 - 4.9 | 1.7/10.0  | 4334  |
| 2000 QM <sub>123</sub> | 2000 10 08.6 | 00 57.72 +07 32.5 | 16.3 -0.76 -13.4 | 0.5/09.2  | 4646  |
| (17595)                | 2000 10 08.6 | 00 57.73 +09 58.6 | 17.8 -0.96 - 7.1 | 1.5/09.9  | 4095  |
| 1998 FB <sub>71</sub>  | 2000 10 08.6 | 00 57.73 +05 34.8 | 16.5 -0.76 -10.8 | 0.2/08.4  | 4909  |
| 2000 SE <sub>137</sub> | 2000 10 08.6 | 00 57.77 +20 42.7 | 16.9 -0.72 -11.1 | 6.0/14.4  | 4835  |
| 2000 RK <sub>3</sub>   | 2000 10 08.6 | 00 57.80 +08 26.0 | 17.6 -0.80 - 4.6 | 0.8/09.4  | 5035  |
| 2000 SC <sub>71</sub>  | 2000 10 08.6 | 00 57.82 +01 12.2 | 18.2 -0.85 - 6.2 | 2.0/07.1  | 4818  |
| 2000 SS <sub>64</sub>  | 2000 10 08.6 | 00 57.84 -00 52.4 | 18.3 -0.90 - 6.6 | 2.3/06.4  | 4816  |
| (16619)                | 2000 10 08.6 | 00 57.89 +07 20.4 | 17.3 -0.81 - 5.4 | 0.4/09.1  | 2886  |
| 2000 RE <sub>43</sub>  | 2000 10 08.7 | 00 57.87 +16 23.3 | 18.0 -0.96 - 7.2 | 3.9/12.1  | 5046  |
| (16888)                | 2000 10 08.7 | 00 57.88 -15 37.7 | 16.8 -1.02 + 0.8 | 9.1/03.1  | 2964  |
| 2000 OS <sub>20</sub>  | 2000 10 08.7 | 00 57.90 +17 28.9 | 17.3 -1.08 + 2.8 | 4.5/11.3  | 4965  |
| 1974 CB                | 2000 10 08.7 | 00 57.95 +13 31.0 | 18.0 -1.05 - 4.4 | 2.9/10.8  | 4298  |
| (16626)                | 2000 10 08.7 | 00 58.07 +00 54.3 | 17.5 -0.79 - 4.9 | 1.7/07.0  | 2889  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1999 GD <sub>17</sub>  | 2000 10 08.7 | 00 58.12 -08 08.6 18.5 | -1.03 - 1.9 | 5.2/04.9  | 4930  |
| 1996 CD <sub>1</sub>   | 2000 10 08.7 | 00 58.12 -15 20.5 17.8 | -1.67 +10.3 | 11.3/06.2 | 4332  |
| 1999 JZ <sub>93</sub>  | 2000 10 08.7 | 00 58.20 -03 54.7 19.2 | -0.92 - 6.8 | 3.7/05.5  | 4491  |
| 2000 SM <sub>107</sub> | 2000 10 08.7 | 00 58.26 +08 51.3 15.5 | -0.98 - 5.4 | 1.3/10.0  | 4825  |
| (16430)                | 2000 10 08.7 | 00 58.33 +13 33.6 16.2 | -1.16 + 2.6 | 3.4/10.4  | 2831  |
| (17655)                | 2000 10 08.8 | 00 58.23 +09 56.5 16.8 | -0.83 - 6.1 | 1.4/10.0  | 4113  |
| 1998 HB <sub>113</sub> | 2000 10 08.8 | 00 58.27 -10 13.9 18.1 | -0.77 - 2.8 | 4.3/03.7  | 32329 |
| (17140)                | 2000 10 08.8 | 00 58.31 -10 08.4 17.5 | -1.00 - 3.9 | 7.6/03.9  | 3038  |
| 2000 RC <sub>43</sub>  | 2000 10 08.8 | 00 58.44 +19 56.1 16.3 | -0.89 - 1.8 | 4.8/12.9  | 4747  |
| 1981 EX <sub>7</sub>   | 2000 10 08.8 | 00 58.46 +05 16.7 17.0 | -0.72 -11.8 | 0.4/08.5  | 4880  |
| (17121)                | 2000 10 08.8 | 00 58.57 -05 24.0 17.1 | -0.85 - 4.9 | 4.5/05.2  | 3032  |
| (18209)                | 2000 10 08.8 | 00 58.61 +11 35.8 18.7 | -1.00 - 4.5 | 2.0/10.5  | 4276  |
| 1999 JB <sub>42</sub>  | 2000 10 08.8 | 00 58.65 +04 36.4 19.2 | -0.92 - 6.1 | 0.6/08.4  | 34998 |
| 1993 UN <sub>6</sub>   | 2000 10 08.8 | 00 58.66 -07 18.0 18.7 | -0.93 - 4.6 | 6.1/04.6  | 4888  |
| 1999 FY <sub>30</sub>  | 2000 10 08.8 | 00 58.67 +03 44.2 18.2 | -1.03 - 3.9 | 0.9/08.2  | 4929  |
| (17549)                | 2000 10 08.9 | 00 58.61 -01 28.7 16.8 | -1.04 - 2.5 | 3.4/06.8  | 4082  |
| (16437)                | 2000 10 08.9 | 00 58.62 +00 36.5 15.5 | -1.15 + 3.7 | 2.6/07.7  | 2833  |
| 2000 SM <sub>80</sub>  | 2000 10 08.9 | 00 58.66 -00 00.4 18.9 | -0.82 - 6.3 | 2.7/06.9  | 4819  |
| 1996 QX                | 2000 10 08.9 | 00 58.67 -01 16.2 19.1 | -0.92 - 6.9 | 2.8/06.5  | 4893  |
| 1999 JH <sub>2</sub>   | 2000 10 08.9 | 00 58.70 -02 35.7 18.0 | -0.88 - 8.0 | 4.1/06.0  | 4933  |
| 1998 CW <sub>3</sub>   | 2000 10 08.9 | 00 58.87 -01 57.1 18.1 | -0.85 - 6.0 | 2.6/06.3  | 4902  |
| 2000 SB <sub>46</sub>  | 2000 10 08.9 | 00 58.91 +31 38.3 18.1 | -0.81 - 3.7 | 7.4/18.1  | 4813  |
| 2000 QX <sub>116</sub> | 2000 10 08.9 | 00 58.94 -06 22.4 17.4 | -0.86 - 1.6 | 4.3/05.3  | 4641  |
| 1981 EC <sub>24</sub>  | 2000 10 08.9 | 00 58.96 +06 14.1 20.4 | -0.59 - 4.0 | 0.0/09.0  | 31224 |
| 2000 RX <sub>94</sub>  | 2000 10 09.0 | 00 59.20 +00 50.1 17.4 | -0.78 - 4.5 | 1.9/07.3  | 4793  |
| 1998 FT <sub>118</sub> | 2000 10 09.0 | 00 59.22 +11 29.4 19.3 | -0.99 - 3.5 | 1.8/10.5  | 4911  |
| 1998 DA <sub>6</sub>   | 2000 10 09.0 | 00 59.26 +08 35.8 17.5 | -0.94 - 5.9 | 0.9/09.8  | 4903  |
| 2000 SU <sub>83</sub>  | 2000 10 09.0 | 00 59.26 +05 15.5 17.6 | -0.94 - 2.8 | 0.5/08.8  | 4820  |
| 1997 YZ <sub>13</sub>  | 2000 10 09.0 | 00 59.30 -06 58.4 17.7 | -0.82 - 5.8 | 6.2/04.6  | 4900  |
| 1998 FA <sub>28</sub>  | 2000 10 09.0 | 00 59.37 +11 21.5 18.0 | -0.85 - 4.7 | 1.7/10.7  | 4906  |
| 2000 RL <sub>68</sub>  | 2000 10 09.0 | 00 59.39 +01 59.3 17.7 | -0.82 - 4.4 | 1.4/07.7  | 4765  |
| 1991 RF <sub>5</sub>   | 2000 10 09.0 | 00 59.40 +12 02.0 18.2 | -0.99 - 2.3 | 2.1/10.7  | 4310  |
| 2000 PN <sub>24</sub>  | 2000 10 09.1 | 00 59.33 -06 44.8 15.8 | -1.07 + 1.0 | 5.5/05.8  | 4595  |
| 1999 HQ <sub>9</sub>   | 2000 10 09.1 | 00 59.38 +10 23.6 17.8 | -0.93 - 8.2 | 1.5/10.5  | 4448  |
| 2000 RG <sub>5</sub>   | 2000 10 09.1 | 00 59.40 +08 12.8 17.4 | -0.71 -11.2 | 0.7/10.0  | 4716  |
| 1989 JB                | 2000 10 09.1 | 00 59.52 -36 05.5 19.2 | -1.20 + 0.7 | 14.2/27.0 | 35059 |
| (10702)                | 2000 10 09.1 | 00 59.55 +10 42.7 16.1 | -0.92 - 4.4 | 2.0/10.5  | 4878  |
| 2000 SM <sub>83</sub>  | 2000 10 09.1 | 00 59.75 +01 41.3 18.4 | -0.72 - 7.9 | 1.5/07.5  | 4820  |
| (17509)                | 2000 10 09.1 | 00 59.77 -06 43.6 18.2 | -0.94 - 5.8 | 4.2/05.1  | 4071  |
| 1993 TG <sub>39</sub>  | 2000 10 09.2 | 00 59.73 -01 19.8 18.0 | -0.90 - 6.5 | 3.4/06.7  | 4887  |
| 2000 RM <sub>68</sub>  | 2000 10 09.2 | 00 59.73 +03 27.3 16.9 | -0.98 - 1.1 | 1.3/08.4  | 4765  |
| (18216)                | 2000 10 09.2 | 00 59.77 +06 10.6 18.4 | -0.92 - 4.8 | 0.1/09.2  | 4278  |
| (10507)                | 2000 10 09.2 | 00 59.79 +03 40.6 16.6 | -1.05 - 2.9 | 1.1/08.5  | 34438 |
| 1999 FF <sub>18</sub>  | 2000 10 09.2 | 00 59.80 -01 13.9 17.9 | -0.78 - 9.5 | 2.6/06.5  | 4928  |
| 1999 LX <sub>9</sub>   | 2000 10 09.2 | 00 59.90 -06 26.1 18.3 | -0.79 - 6.4 | 4.5/04.9  | 4943  |
| 2000 SL <sub>161</sub> | 2000 10 09.2 | 00 59.90 +24 12.4 18.5 | -1.09 -12.6 | 7.6/16.0  | 5115  |
| 6114 P-L               | 2000 10 09.2 | 00 59.92 +16 57.5 18.5 | -0.96 - 2.5 | 3.2/12.3  | 5145  |
| 1992 EK <sub>7</sub>   | 2000 10 09.2 | 00 59.97 +01 37.8 19.2 | -0.77 - 3.4 | 1.3/07.8  | 4884  |
| 1996 TR <sub>25</sub>  | 2000 10 09.2 | 00 59.99 +00 18.9 18.1 | -0.94 - 2.7 | 2.1/07.5  | 4894  |
| 1995 UB <sub>47</sub>  | 2000 10 09.2 | 01 00.06 +10 42.9 16.7 | -0.72 - 8.1 | 1.4/10.8  | 4891  |
| 1993 YN <sub>2</sub>   | 2000 10 09.2 | 01 00.13 +11 03.6 18.1 | -0.94 - 6.5 | 1.9/10.8  | 4888  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1999 JQ <sub>17</sub>  | 2000 10 09.2 | 01 00.14 -04 28.3 18.5 | -0.85 - 5.8 | 3.7/05.8  | 4933  |
| 1992 QA                | 2000 10 09.3 | 01 00.14 -32 33.4 18.2 | -1.71 + 6.8 | 17.3/02.1 | 33745 |
| 1994 PO <sub>1</sub>   | 2000 10 09.3 | 01 00.15 -31 48.6 18.2 | -1.04 + 3.2 | 12.1/29.6 | 35426 |
| (16580)                | 2000 10 09.3 | 01 00.17 +00 27.0 16.8 | -1.04 - 3.1 | 2.3/07.7  | 2875  |
| (18022)                | 2000 10 09.3 | 01 00.18 +07 54.8 17.6 | -0.85 - 4.2 | 0.5/10.0  | 4222  |
| (10909)                | 2000 10 09.3 | 01 00.38 -11 56.2 17.3 | -1.03 - 2.7 | 6.4/04.1  | 3859  |
| 1998 DD <sub>6</sub>   | 2000 10 09.3 | 01 00.44 +02 23.8 17.4 | -0.83 - 7.0 | 1.8/08.0  | 4903  |
| 2000 RG <sub>92</sub>  | 2000 10 09.3 | 01 00.51 +11 22.9 18.3 | -0.97 - 8.8 | 1.9/11.0  | 4789  |
| 2856 P-L               | 2000 10 09.4 | 01 00.44 +04 50.5 18.6 | -0.77 - 3.4 | 0.4/08.9  | 4859  |
| 1162 T-1               | 2000 10 09.4 | 01 00.54 +15 33.3 19.0 | -0.84 - 2.8 | 2.5/12.2  | 5146  |
| 1992 ER <sub>13</sub>  | 2000 10 09.4 | 01 00.59 +06 14.4 20.3 | -0.71 - 5.5 | 0.1/09.4  | 36067 |
| 2000 SG <sub>273</sub> | 2000 10 09.4 | 01 00.63 +24 23.9 19.3 | -0.88 - 6.6 | 6.6/15.8  | 4853  |
| 2000 SO <sub>140</sub> | 2000 10 09.4 | 01 00.68 +10 15.9 17.4 | -0.85 - 4.9 | 1.7/10.6  | 4835  |
| 2000 RH <sub>94</sub>  | 2000 10 09.4 | 01 00.70 +09 31.3 17.9 | -1.15 - 1.9 | 1.3/10.2  | 4792  |
| 1999 GM <sub>20</sub>  | 2000 10 09.4 | 01 00.71 +00 48.4 18.1 | -0.93 - 5.4 | 2.0/07.7  | 4441  |
| 2000 RB <sub>43</sub>  | 2000 10 09.4 | 01 00.74 +18 32.9 16.3 | -0.79 - 5.5 | 4.0/13.5  | 4747  |
| 1999 NS <sub>36</sub>  | 2000 10 09.4 | 01 00.78 +27 55.5 17.1 | -0.92 - 1.4 | 6.6/16.0  | 4944  |
| (10994)                | 2000 10 09.4 | 01 00.78 +03 58.6 17.1 | -0.78 - 5.5 | 0.8/08.7  | 35210 |
| 1998 DK <sub>23</sub>  | 2000 10 09.4 | 01 00.78 +18 37.3 18.0 | -0.88 - 4.0 | 3.4/13.3  | 4904  |
| 2000 RJ <sub>65</sub>  | 2000 10 09.4 | 01 00.84 +06 41.4 17.4 | -0.78 - 3.9 | 0.1/09.6  | 4762  |
| 1999 JM <sub>9</sub>   | 2000 10 09.4 | 01 00.85 +07 46.0 18.7 | -0.94 - 9.3 | 0.5/10.0  | 4453  |
| 1997 AO <sub>2</sub>   | 2000 10 09.4 | 01 00.87 -12 23.6 17.8 | -0.80 - 3.6 | 5.8/03.4  | 4896  |
| 1995 VB <sub>13</sub>  | 2000 10 09.5 | 01 00.80 -05 39.4 18.8 | -0.86 - 1.9 | 4.4/06.0  | 4330  |
| (17729)                | 2000 10 09.5 | 01 00.81 +12 44.3 18.4 | -0.95 - 5.5 | 2.4/11.4  | 4135  |
| (17975)                | 2000 10 09.5 | 01 00.85 +07 56.7 16.0 | -0.72 - 9.8 | 0.6/10.0  | 4209  |
| (10823)                | 2000 10 09.5 | 01 00.86 -00 26.4 16.4 | -0.87 - 7.9 | 3.1/07.2  | 34776 |
| 1999 JV <sub>68</sub>  | 2000 10 09.5 | 01 00.97 +02 03.4 18.3 | -0.91 - 6.1 | 1.5/08.1  | 4938  |
| 1999 RU <sub>12</sub>  | 2000 10 09.5 | 01 01.07 +19 51.7 18.7 | -0.55 - 2.7 | 2.4/14.2  | 4945  |
| 2000 RZ <sub>94</sub>  | 2000 10 09.5 | 01 01.19 +00 24.6 18.3 | -0.88 - 6.3 | 3.0/07.6  | 4793  |
| 1998 FS <sub>14</sub>  | 2000 10 09.5 | 01 01.24 +13 57.6 19.0 | -0.87 - 2.6 | 2.3/11.8  | 4376  |
| 1999 JN                | 2000 10 09.5 | 01 01.24 +01 45.8 18.7 | -0.96 - 6.0 | 1.7/08.1  | 4449  |
| 1999 LK <sub>11</sub>  | 2000 10 09.6 | 01 01.25 +10 32.7 15.9 | -0.66 -13.5 | 1.6/11.2  | 4943  |
| 1991 PH <sub>9</sub>   | 2000 10 09.6 | 01 01.26 +29 50.2 16.6 | -1.06 + 1.8 | 11.0/16.4 | 4309  |
| 2000 SV <sub>107</sub> | 2000 10 09.6 | 01 01.27 +05 56.4 19.2 | -0.73 -12.7 | 0.2/09.4  | 4825  |
| 2000 RB <sub>95</sub>  | 2000 10 09.6 | 01 01.30 +02 22.8 17.9 | -0.88 - 2.0 | 1.4/08.5  | 4793  |
| (17750)                | 2000 10 09.6 | 01 01.37 +21 36.5 19.0 | -1.00 - 3.1 | 4.7/14.2  | 4141  |
| (18168)                | 2000 10 09.6 | 01 01.39 +19 33.3 17.8 | -0.83 -10.1 | 4.5/14.4  | 4264  |
| 2000 RO <sub>75</sub>  | 2000 10 09.6 | 01 01.47 +22 58.5 16.9 | -1.16 - 1.8 | 7.2/14.4  | 4777  |
| 2000 PT <sub>7</sub>   | 2000 10 09.6 | 01 01.53 -11 44.6 17.1 | -0.75 - 5.4 | 6.0/03.4  | 3725  |
| 1998 BD <sub>44</sub>  | 2000 10 09.6 | 01 01.54 +06 05.1 18.1 | -1.03 - 3.1 | 0.2/09.5  | 4362  |
| (16780)                | 2000 10 09.7 | 01 01.57 +01 31.6 17.6 | -0.81 - 4.3 | 1.7/08.1  | 2931  |
| 1998 FJ <sub>24</sub>  | 2000 10 09.7 | 01 01.59 +24 34.2 16.5 | -1.14 + 1.1 | 7.4/14.4  | 4377  |
| (16873)                | 2000 10 09.7 | 01 01.68 +11 55.4 16.4 | -1.03 - 3.2 | 2.3/11.2  | 2959  |
| (11022)                | 2000 10 09.7 | 01 01.72 +09 10.6 17.4 | -1.04 - 1.3 | 0.9/10.4  | 3859  |
| 2000 OW <sub>49</sub>  | 2000 10 09.7 | 01 01.73 +02 56.8 16.1 | -1.03 - 0.4 | 1.7/08.8  | 4586  |
| 1999 CH <sub>50</sub>  | 2000 10 09.7 | 01 01.74 +09 06.2 17.2 | -1.09 - 4.3 | 1.0/10.5  | 4926  |
| (18054)                | 2000 10 09.7 | 01 01.74 -17 15.3 17.9 | -0.49 - 3.2 | 4.1/01.1  | 4231  |
| 1993 FW <sub>35</sub>  | 2000 10 09.7 | 01 01.76 +01 53.9 19.3 | -0.72 - 7.6 | 1.4/08.1  | 4886  |
| 2000 RA <sub>3</sub>   | 2000 10 09.7 | 01 01.77 +03 10.1 17.5 | -0.66 -11.0 | 1.0/08.4  | 4713  |
| 1991 PZ <sub>5</sub>   | 2000 10 09.7 | 01 01.78 +16 05.7 18.1 | -0.94 - 3.8 | 3.1/12.6  | 4884  |
| (17832)                | 2000 10 09.7 | 01 01.80 +03 46.9 18.0 | -0.81 - 4.2 | 0.9/08.9  | 4166  |

|                        |              |                        |       |       |           |       |
|------------------------|--------------|------------------------|-------|-------|-----------|-------|
| 1994 RL <sub>2</sub>   | 2000 10 09.7 | 01 01.85 +18 42.3 17.4 | -0.88 | - 2.6 | 3.9/13.5  | 4889  |
| (17799)                | 2000 10 09.7 | 01 01.90 +03 01.7 17.3 | -0.90 | - 3.1 | 1.3/08.7  | 4156  |
| 1996 VQ <sub>5</sub>   | 2000 10 09.7 | 01 01.95 +20 11.2 17.5 | -0.79 | - 7.5 | 5.9/14.6  | 4339  |
| 2000 SW <sub>88</sub>  | 2000 10 09.7 | 01 01.97 +02 52.4 18.3 | -0.80 | - 5.5 | 1.3/08.6  | 4822  |
| (17130)                | 2000 10 09.8 | 01 01.93 -05 18.9 16.1 | -0.97 | - 4.9 | 5.4/06.1  | 3035  |
| 1997 XH <sub>11</sub>  | 2000 10 09.8 | 01 02.02 -08 50.5 17.7 | -0.92 | - 2.9 | 5.1/05.2  | 4899  |
| (11212)                | 2000 10 09.8 | 01 02.06 +01 38.6 17.9 | -0.98 | - 5.4 | 1.8/08.3  | 35266 |
| 2000 PV <sub>26</sub>  | 2000 10 09.8 | 01 02.07 +27 38.5 16.7 | -0.99 | - 5.2 | 8.0/17.1  | 4978  |
| (11041)                | 2000 10 09.8 | 01 02.16 -00 13.7 17.5 | -0.82 | - 9.0 | 2.9/07.5  | 35222 |
| 1999 JX <sub>64</sub>  | 2000 10 09.8 | 01 02.18 +05 38.0 19.1 | -0.92 | - 8.6 | 0.4/09.5  | 4479  |
| 1994 PE <sub>32</sub>  | 2000 10 09.8 | 01 02.18 +13 22.2 18.5 | -0.77 | - 4.6 | 2.3/12.0  | 4323  |
| 1999 JB <sub>38</sub>  | 2000 10 09.8 | 01 02.30 +09 08.5 17.1 | -1.04 | - 3.7 | 1.0/10.6  | 4935  |
| 1998 HZ <sub>60</sub>  | 2000 10 09.8 | 01 02.31 +04 23.0 17.3 | -1.02 | - 0.8 | 0.8/09.3  | 4405  |
| 1992 YJ                | 2000 10 09.9 | 01 02.51 +53 17.8 15.5 | -0.52 | - 7.3 | 21.0/30.0 | 4886  |
| 1999 JJ <sub>28</sub>  | 2000 10 09.9 | 01 02.52 +04 17.7 19.8 | -0.90 | - 4.6 | 0.7/09.2  | 4460  |
| 1998 BU <sub>23</sub>  | 2000 10 09.9 | 01 02.59 +04 32.3 19.3 | -0.88 | - 5.7 | 0.7/09.3  | 4359  |
| 1999 JS <sub>57</sub>  | 2000 10 09.9 | 01 02.59 +14 36.9 16.5 | -0.93 | - 8.4 | 3.3/12.6  | 4937  |
| (10797)                | 2000 10 09.9 | 01 02.61 +06 53.3 18.0 | -0.95 | - 7.1 | 9.4/30.0  | 4878  |
| 1994 AW <sub>14</sub>  | 2000 10 09.9 | 01 02.64 +09 41.4 20.0 | -0.91 | - 5.2 | 1.1/10.9  | 38447 |
| 1998 ER <sub>8</sub>   | 2000 10 09.9 | 01 02.64 +10 12.6 18.8 | -0.84 | - 5.7 | 1.2/11.1  | 4904  |
| 1998 JU <sub>1</sub>   | 2000 10 09.9 | 01 02.65 +14 26.7 16.8 | -0.96 | -16.7 | 3.1/12.9  | 4914  |
| 4150 P-L               | 2000 10 10.0 | 01 02.68 +03 29.2 17.0 | -0.67 | -12.1 | 1.3/08.8  | 5145  |
| 1998 FN <sub>15</sub>  | 2000 10 10.0 | 01 02.71 +14 30.5 20.8 | -0.78 | - 8.0 | 2.2/12.7  | 4906  |
| 1997 AA <sub>9</sub>   | 2000 10 10.0 | 01 02.72 +17 12.7 18.3 | -0.83 | - 4.1 | 3.6/13.4  | 4344  |
| 1995 SH <sub>2</sub>   | 2000 10 10.0 | 01 02.73 +07 19.8 19.0 | -0.79 | - 5.5 | 0.2/10.2  | 4327  |
| 2000 RT <sub>69</sub>  | 2000 10 10.0 | 01 02.73 +02 32.6 17.8 | -0.71 | - 7.1 | 1.2/08.6  | 4768  |
| 2000 QN <sub>123</sub> | 2000 10 10.0 | 01 02.82 +14 40.9 16.2 | -0.94 | - 3.3 | 3.7/12.4  | 4646  |
| 1998 AC <sub>4</sub>   | 2000 10 10.0 | 01 02.83 -00 40.0 17.1 | -0.90 | - 4.7 | 3.2/07.8  | 4900  |
| 2000 RL <sub>71</sub>  | 2000 10 10.0 | 01 02.87 +03 03.6 18.1 | -0.91 | - 4.5 | 1.3/09.0  | 4771  |
| 1998 FH <sub>53</sub>  | 2000 10 10.0 | 01 03.08 +06 50.8 19.1 | -0.81 | - 6.5 | 0.0/10.1  | 4383  |
| 4278 P-L               | 2000 10 10.1 | 01 03.00 +10 02.8 19.0 | -0.73 | - 5.8 | 1.1/11.2  | 4860  |
| 1999 JN <sub>30</sub>  | 2000 10 10.1 | 01 03.11 +17 16.7 17.2 | -0.92 | - 5.6 | 4.4/13.5  | 4935  |
| 2000 SQ <sub>106</sub> | 2000 10 10.1 | 01 03.19 +04 16.1 18.3 | -0.78 | - 9.2 | 1.0/09.3  | 4825  |
| 1994 PG <sub>27</sub>  | 2000 10 10.1 | 01 03.20 +04 47.4 18.4 | -0.75 | - 4.8 | 0.5/09.5  | 4889  |
| 1999 KS <sub>6</sub>   | 2000 10 10.1 | 01 03.25 +13 56.1 18.1 | -0.71 | - 9.6 | 2.2/12.8  | 4942  |
| 1996 PN                | 2000 10 10.1 | 01 03.27 +27 17.7 19.4 | -1.36 | - 0.4 | 7.5/15.7  | 4892  |
| 2000 SZ <sub>203</sub> | 2000 10 10.1 | 01 03.33 +04 03.4 18.4 | -0.71 | - 6.4 | 0.8/09.3  | 4849  |
| 2000 RD <sub>35</sub>  | 2000 10 10.1 | 01 03.35 +12 47.0 18.0 | -1.04 | - 4.4 | 2.3/11.9  | 4741  |
| 2000 RT <sub>3</sub>   | 2000 10 10.2 | 01 03.38 +05 01.1 16.8 | -0.99 | - 1.8 | 0.6/09.7  | 4714  |
| 1998 HT <sub>97</sub>  | 2000 10 10.2 | 01 03.38 +06 14.7 18.5 | -0.82 | - 3.0 | 0.1/10.0  | 4913  |
| 1997 UV <sub>6</sub>   | 2000 10 10.2 | 01 03.38 +06 31.5 19.2 | -1.03 | - 6.6 | 0.1/10.1  | 4897  |
| 2000 RL <sub>65</sub>  | 2000 10 10.2 | 01 03.54 +05 38.7 17.1 | -1.11 | - 0.7 | 0.5/10.0  | 5050  |
| 1981 EC <sub>3</sub>   | 2000 10 10.2 | 01 03.55 +15 01.1 19.2 | -0.95 | - 9.3 | 3.1/13.1  | 4299  |
| 2282 T-3               | 2000 10 10.2 | 01 03.57 +08 59.7 18.6 | -0.87 | - 8.9 | 0.8/11.0  | 5147  |
| 1998 HF <sub>34</sub>  | 2000 10 10.2 | 01 03.65 +04 25.2 17.9 | -0.87 | - 2.2 | 0.7/09.6  | 4912  |
| 1999 GD <sub>4</sub>   | 2000 10 10.2 | 01 03.74 +18 45.7 17.8 | -0.87 | -10.3 | 4.2/14.6  | 4930  |
| (17973)                | 2000 10 10.2 | 01 03.77 +15 23.7 16.7 | -0.81 | - 8.0 | 2.7/13.3  | 4208  |
| 1999 KX                | 2000 10 10.3 | 01 03.75 -04 41.5 18.5 | -0.94 | - 3.3 | 3.8/07.0  | 4942  |
| (17375)                | 2000 10 10.3 | 01 03.84 +11 36.7 18.2 | -0.71 | - 7.4 | 1.4/12.0  | 4034  |
| (17589)                | 2000 10 10.3 | 01 03.86 -06 14.2 17.6 | -0.94 | - 5.8 | 5.1/06.3  | 4094  |
| 2000 RT <sub>94</sub>  | 2000 10 10.3 | 01 03.88 +06 01.3 17.2 | -0.95 | - 2.7 | 0.3/10.1  | 4792  |

|                        |              |                        |       |       |          |       |
|------------------------|--------------|------------------------|-------|-------|----------|-------|
| 2109 P-L               | 2000 10 10.3 | 01 03.88 +08 12.7 17.5 | -0.84 | - 7.8 | 0.6/10.8 | 4856  |
| (17718)                | 2000 10 10.3 | 01 03.94 +09 16.2 17.9 | -0.95 | - 5.2 | 0.9/11.1 | 4132  |
| 1994 PN <sub>17</sub>  | 2000 10 10.3 | 01 03.95 +11 45.6 18.5 | -0.79 | - 3.7 | 1.6/11.9 | 4889  |
| 2000 OC <sub>49</sub>  | 2000 10 10.3 | 01 04.03 -06 17.4 15.7 | -0.71 | - 5.4 | 6.8/05.9 | 4971  |
| 1999 NM <sub>24</sub>  | 2000 10 10.3 | 01 04.03 +18 03.0 17.9 | -0.85 | - 3.5 | 3.6/13.8 | 4944  |
| 1998 FS <sub>99</sub>  | 2000 10 10.3 | 01 04.17 +21 06.6 17.6 | -1.08 | - 1.0 | 5.1/14.2 | 4910  |
| (11655)                | 2000 10 10.4 | 01 04.15 +06 43.0 18.3 | -0.74 | - 4.5 | 0.0/10.4 | 35872 |
| 1995 TT                | 2000 10 10.4 | 01 04.18 +02 46.4 16.1 | -0.91 | - 1.1 | 1.4/09.3 | 4891  |
| 1998 FO <sub>56</sub>  | 2000 10 10.4 | 01 04.20 +07 48.6 19.1 | -0.82 | - 2.6 | 0.3/10.7 | 4384  |
| (16793)                | 2000 10 10.4 | 01 04.23 -11 28.7 16.6 | -0.77 | - 4.4 | 5.9/04.3 | 2935  |
| 2000 RG <sub>94</sub>  | 2000 10 10.4 | 01 04.26 +11 27.3 18.1 | -0.87 | - 5.1 | 2.2/11.9 | 4792  |
| (11091)                | 2000 10 10.4 | 01 04.26 +05 04.2 16.4 | -0.85 | - 5.8 | 0.8/09.9 | 3859  |
| 1999 JM <sub>68</sub>  | 2000 10 10.4 | 01 04.30 -03 24.0 18.4 | -1.04 | - 3.5 | 4.0/07.6 | 4938  |
| 1999 JB <sub>120</sub> | 2000 10 10.4 | 01 04.33 +06 09.9 19.5 | -0.87 | - 6.4 | 0.2/10.2 | 4497  |
| 2000 OZ <sub>47</sub>  | 2000 10 10.4 | 01 04.40 -02 35.6 16.0 | -0.65 | -11.4 | 4.1/06.8 | 4971  |
| (18146)                | 2000 10 10.4 | 01 04.43 -09 43.5 17.6 | -0.77 | - 9.7 | 6.1/04.3 | 4258  |
| 1999 JX <sub>24</sub>  | 2000 10 10.4 | 01 04.48 +09 49.5 18.5 | -0.95 | - 3.4 | 1.0/11.3 | 4460  |
| 1999 FF <sub>7</sub>   | 2000 10 10.4 | 01 04.48 +09 46.6 18.3 | -1.09 | - 4.8 | 1.2/11.3 | 4928  |
| (16854)                | 2000 10 10.5 | 01 04.48 -07 51.6 17.9 | -0.92 | - 3.6 | 5.5/06.2 | 2954  |
| 1996 SB <sub>7</sub>   | 2000 10 10.5 | 01 04.56 +05 46.9 17.3 | -0.58 | -17.5 | 0.5/10.1 | 4893  |
| 2000 RW <sub>3</sub>   | 2000 10 10.5 | 01 04.56 +09 44.9 16.7 | -0.88 | - 2.1 | 0.9/11.3 | 4715  |
| 2000 RW <sub>92</sub>  | 2000 10 10.5 | 01 04.74 +05 09.5 18.1 | -0.77 | - 4.2 | 0.6/10.0 | 4790  |
| 2000 RF <sub>92</sub>  | 2000 10 10.5 | 01 04.80 +13 33.7 18.0 | -0.74 | - 3.7 | 1.9/12.7 | 4789  |
| 2000 RN <sub>71</sub>  | 2000 10 10.5 | 01 04.82 +00 19.7 18.0 | -0.89 | - 8.4 | 2.6/08.4 | 4772  |
| 1998 FX <sub>62</sub>  | 2000 10 10.5 | 01 04.84 +11 25.8 17.9 | -1.05 | - 0.9 | 1.6/11.7 | 4387  |
| 1998 FV <sub>42</sub>  | 2000 10 10.5 | 01 04.85 +08 23.8 18.1 | -0.81 | - 5.3 | 0.5/11.1 | 4907  |
| 2000 SB <sub>141</sub> | 2000 10 10.5 | 01 04.89 +15 13.5 17.5 | -1.06 | - 2.6 | 3.9/12.9 | 4836  |
| 1999 JW <sub>112</sub> | 2000 10 10.6 | 01 04.85 +05 51.6 18.8 | -1.00 | - 4.8 | 0.4/10.3 | 4496  |
| 2000 OQ <sub>50</sub>  | 2000 10 10.6 | 01 04.86 +04 12.1 17.8 | -1.02 | - 3.1 | 1.3/09.9 | 4972  |
| 1999 JR <sub>60</sub>  | 2000 10 10.6 | 01 04.90 +07 42.8 18.9 | -0.85 | - 6.6 | 0.2/10.9 | 4477  |
| 2000 RQ <sub>96</sub>  | 2000 10 10.6 | 01 04.90 +17 23.9 17.9 | -1.01 | - 4.9 | 4.2/13.8 | 5059  |
| 1999 JK <sub>15</sub>  | 2000 10 10.6 | 01 04.93 -03 05.6 18.8 | -0.80 | - 7.1 | 2.9/07.3 | 35452 |
| 2000 RY <sub>33</sub>  | 2000 10 10.6 | 01 05.05 +13 44.3 17.0 | -0.97 | - 4.0 | 2.4/12.7 | 5044  |
| 2000 RH <sub>5</sub>   | 2000 10 10.6 | 01 05.08 +08 09.3 17.0 | -0.93 | - 6.8 | 0.5/11.0 | 4716  |
| 2000 RN <sub>123</sub> | 2000 10 10.6 | 01 05.11 +04 28.6 18.1 | -0.77 | -13.0 | 0.8/09.7 | 4646  |
| (18023)                | 2000 10 10.6 | 01 05.13 -01 16.7 16.3 | -0.67 | -12.3 | 3.3/07.5 | 4223  |
| 1998 EH <sub>8</sub>   | 2000 10 10.6 | 01 05.17 +08 15.5 18.4 | -0.96 | - 5.0 | 0.5/11.1 | 4370  |
| 1998 GK <sub>11</sub>  | 2000 10 10.7 | 01 05.22 +00 59.9 18.7 | -0.84 | -10.7 | 2.1/08.6 | 4398  |
| 1999 GH <sub>33</sub>  | 2000 10 10.7 | 01 05.25 +09 04.9 16.7 | -0.75 | -12.7 | 0.8/11.5 | 4931  |
| 2000 RG <sub>3</sub>   | 2000 10 10.7 | 01 05.27 +02 11.7 17.2 | -0.78 | -10.0 | 2.1/09.0 | 4713  |
| (17965)                | 2000 10 10.7 | 01 05.27 +12 17.7 18.2 | -0.91 | - 5.0 | 2.0/12.4 | 4206  |
| 1999 JF <sub>53</sub>  | 2000 10 10.7 | 01 05.32 -06 09.9 18.3 | -0.95 | - 4.8 | 4.9/06.8 | 4472  |
| 1998 HP <sub>18</sub>  | 2000 10 10.7 | 01 05.36 +09 51.0 18.2 | -0.86 | - 2.4 | 0.9/11.6 | 4400  |
| 3853 T-3               | 2000 10 10.7 | 01 05.42 +03 21.0 17.7 | -0.80 | - 2.7 | 1.3/09.7 | 4874  |
| (10700)                | 2000 10 10.7 | 01 05.45 +10 28.8 16.4 | -0.93 | - 2.4 | 1.5/11.8 | 34744 |
| 1999 GR <sub>4</sub>   | 2000 10 10.7 | 01 05.56 -03 33.3 18.3 | -0.99 | - 3.5 | 4.0/07.8 | 4439  |
| 1995 TP <sub>2</sub>   | 2000 10 10.7 | 01 05.57 +01 00.9 17.8 | -0.96 | - 1.2 | 2.0/09.2 | 4328  |
| (17354)                | 2000 10 10.7 | 01 05.59 +04 44.1 18.0 | -0.85 | - 5.7 | 0.7/10.1 | 4028  |
| 2000 PZ <sub>24</sub>  | 2000 10 10.7 | 01 05.63 -06 38.0 17.4 | -0.70 | - 5.9 | 4.3/06.1 | 4978  |
| 2000 RN <sub>68</sub>  | 2000 10 10.8 | 01 05.58 -01 08.0 18.2 | -0.71 | - 5.6 | 2.7/08.1 | 4765  |
| 2000 SP <sub>22</sub>  | 2000 10 10.8 | 01 05.65 -09 04.3 17.6 | -1.00 | - 3.6 | 7.0/06.3 | 4807  |

|                        |              |                        |             |           |       |                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|------------------------|--------------|------------------------|-------------|-----------|-------|
| 6301 P-L               | 2000 10 10.8 | 01 05.66 +08 37.8 18.8 | -0.99 - 4.7 | 0.7/11.3  | 5145  | 2000 OB <sub>50</sub>  | 2000 10 11.3 | 01 07.79 -01 32.5 16.6 | -1.06 - 2.2 | 4.0/09.1  | 4587  |
| 2000 SN <sub>108</sub> | 2000 10 10.8 | 01 05.78 +05 37.1 18.5 | -0.84 -10.6 | 0.6/10.4  | 4826  | (18260)                | 2000 10 11.4 | 01 07.81 +26 13.7 17.9 | -1.19 + 0.1 | 7.9/16.1  | 4291  |
| 1999 JR <sub>64</sub>  | 2000 10 10.8 | 01 05.82 -18 49.7 17.4 | -1.00 - 1.9 | 9.8/03.1  | 4478  | 1991 LM                | 2000 10 11.4 | 01 07.83 -21 56.0 16.8 | -0.91 - 2.7 | 10.5/02.1 | 4884  |
| 2000 RD <sub>95</sub>  | 2000 10 10.9 | 01 06.04 -01 19.0 18.7 | -0.90 - 7.8 | 3.2/08.2  | 4793  | (17990)                | 2000 10 11.4 | 01 07.85 -03 59.8 17.4 | -0.88 - 3.3 | 3.5/08.1  | 4213  |
| 1998 BB <sub>1</sub>   | 2000 10 10.9 | 01 06.08 +27 38.3 17.7 | -1.07 - 2.1 | 7.6/17.2  | 4900  | 1999 JG <sub>65</sub>  | 2000 10 11.4 | 01 07.85 +01 08.2 18.0 | -0.93 - 3.5 | 2.3/09.7  | 4938  |
| 2000 RY <sub>69</sub>  | 2000 10 10.9 | 01 06.21 +04 49.5 17.7 | -0.92 - 4.6 | 0.9/10.3  | 4768  | 2000 SQ <sub>39</sub>  | 2000 10 11.4 | 01 07.85 -03 51.9 18.1 | -0.90 - 4.6 | 5.3/08.1  | 4811  |
| (16525)                | 2000 10 10.9 | 01 06.22 +07 46.6 16.7 | -0.96 - 5.0 | 0.2/11.2  | 2859  | (17794)                | 2000 10 11.4 | 01 07.87 +02 57.0 17.7 | -0.80 - 5.4 | 1.5/10.1  | 4154  |
| 1990 TC <sub>1</sub>   | 2000 10 10.9 | 01 06.35 +08 45.2 15.9 | -0.75 - 9.2 | 0.8/11.6  | 4883  | 1996 PW <sub>2</sub>   | 2000 10 11.4 | 01 07.89 +03 19.8 18.9 | -0.95 - 5.0 | 1.6/10.3  | 4334  |
| 1999 JS <sub>111</sub> | 2000 10 10.9 | 01 06.39 +02 05.5 17.5 | -0.85 - 8.1 | 2.1/09.3  | 4495  | (12169)                | 2000 10 11.4 | 01 07.92 +14 31.3 17.8 | -1.05 - 4.8 | 3.0/13.6  | 36320 |
| (17383)                | 2000 10 11.0 | 01 06.48 +17 39.9 17.4 | -0.97 - 5.8 | 4.5/14.4  | 4036  | 1999 LC <sub>14</sub>  | 2000 10 11.4 | 01 07.94 +22 57.0 17.6 | -0.87 - 8.5 | 5.1/17.0  | 4943  |
| 1999 JN <sub>74</sub>  | 2000 10 11.0 | 01 06.49 -05 19.6 18.0 | -0.98 - 5.5 | 5.0/07.2  | 4938  | 1999 JO <sub>45</sub>  | 2000 10 11.4 | 01 08.00 -01 53.4 18.9 | -0.94 - 3.5 | 3.4/08.8  | 4468  |
| (15245)                | 2000 10 11.0 | 01 06.54 +05 06.2 16.6 | -0.78 - 4.1 | 0.7/10.4  | 836   | 1981 ED <sub>7</sub>   | 2000 10 11.4 | 01 08.02 +13 54.8 19.6 | -0.70 - 7.7 | 1.9/13.8  | 26916 |
| 2000 RN <sub>3</sub>   | 2000 10 11.0 | 01 06.55 +05 27.2 17.4 | -0.70 - 7.9 | 0.5/10.5  | 4714  | 2000 SG <sub>84</sub>  | 2000 10 11.4 | 01 08.02 +04 19.2 19.1 | -0.79 - 5.4 | 1.0/10.5  | 4821  |
| 2000 RB <sub>71</sub>  | 2000 10 11.0 | 01 06.57 -06 52.2 17.9 | -0.70 - 9.7 | 6.5/05.9  | 4771  | 2000 RV <sub>3</sub>   | 2000 10 11.4 | 01 08.05 +11 50.2 16.5 | -1.01 - 0.2 | 2.5/12.6  | 5035  |
| 2000 SR <sub>39</sub>  | 2000 10 11.1 | 01 06.72 -01 02.8 18.7 | -0.96 - 1.7 | 2.6/08.9  | 4811  | 1994 PO <sub>21</sub>  | 2000 10 11.4 | 01 08.16 +03 32.9 17.6 | -0.75 - 4.6 | 1.2/10.3  | 4323  |
| 1999 JR <sub>103</sub> | 2000 10 11.1 | 01 06.73 +03 29.1 18.6 | -0.84 - 9.4 | 1.4/09.9  | 4494  | (16359)                | 2000 10 11.4 | 01 08.19 +00 44.9 17.7 | -0.95 - 4.9 | 2.6/09.6  | 2811  |
| 3286 T-3               | 2000 10 11.1 | 01 06.77 +01 54.7 18.8 | -0.93 - 1.8 | 1.7/09.7  | 5147  | 1998 FK <sub>105</sub> | 2000 10 11.5 | 01 08.16 +13 00.3 18.2 | -0.71 - 6.3 | 1.5/13.5  | 4910  |
| (18202)                | 2000 10 11.1 | 01 06.77 +06 12.3 17.6 | -0.77 - 4.1 | 0.3/10.8  | 4274  | 2000 RK <sub>65</sub>  | 2000 10 11.5 | 01 08.24 +00 25.5 18.8 | -0.83 - 7.5 | 2.3/09.2  | 4762  |
| 2000 RC <sub>70</sub>  | 2000 10 11.1 | 01 06.94 +09 29.6 18.0 | -0.90 - 1.8 | 0.8/11.8  | 4769  | 1998 HL <sub>124</sub> | 2000 10 11.5 | 01 08.28 -06 51.3 16.7 | -0.91 - 5.3 | 5.6/06.9  | 4410  |
| 1990 SL <sub>11</sub>  | 2000 10 11.1 | 01 06.95 +14 44.7 15.3 | -0.99 - 3.4 | 3.8/13.4  | 4883  | (17166)                | 2000 10 11.5 | 01 08.37 +04 22.7 18.0 | -0.80 - 3.3 | 0.9/10.7  | 3045  |
| 2000 SX <sub>108</sub> | 2000 10 11.1 | 01 06.95 +05 04.2 17.9 | -0.94 - 6.7 | 0.8/10.5  | 4826  | 1999 JO <sub>41</sub>  | 2000 10 11.5 | 01 08.42 -01 44.8 18.7 | -0.98 - 5.0 | 3.4/08.9  | 4466  |
| 1999 JK <sub>41</sub>  | 2000 10 11.1 | 01 06.96 -01 05.2 17.6 | -0.88 - 5.8 | 3.3/08.6  | 4466  | 1999 JX <sub>59</sub>  | 2000 10 11.5 | 01 08.42 +04 17.9 19.1 | -0.84 - 6.5 | 1.0/10.6  | 4476  |
| (11295)                | 2000 10 11.1 | 01 06.97 +05 41.1 17.0 | -0.77 - 4.2 | 0.4/10.7  | 35564 | 1999 JW <sub>22</sub>  | 2000 10 11.6 | 01 08.58 +05 17.2 19.2 | -1.00 - 4.5 | 0.7/11.0  | 4457  |
| (16852)                | 2000 10 11.1 | 01 06.99 +08 44.7 15.4 | -0.77 - 9.1 | 0.8/11.7  | 2953  | (11211)                | 2000 10 11.6 | 01 08.59 +15 01.6 15.7 | -0.92 - 8.7 | 3.4/14.3  | 35266 |
| 2000 RL <sub>43</sub>  | 2000 10 11.1 | 01 07.05 +28 05.6 17.1 | -1.00 + 2.8 | 10.7/16.9 | 4747  | 2000 SX <sub>255</sub> | 2000 10 11.6 | 01 08.63 +02 48.3 18.6 | -1.01 - 4.4 | 1.8/10.3  | 4852  |
| (10982)                | 2000 10 11.2 | 01 07.06 +08 13.8 16.7 | -0.67 -10.3 | 0.4/11.6  | 3859  | 1981 EB <sub>4</sub>   | 2000 10 11.6 | 01 08.71 +19 45.0 20.5 | -0.79 - 3.9 | 3.3/15.6  | 30779 |
| 1999 LP                | 2000 10 11.2 | 01 07.13 -29 04.5 18.9 | -0.98 - 4.3 | 11.1/29.1 | 36088 | 2000 PW <sub>26</sub>  | 2000 10 11.6 | 01 08.72 +24 09.4 17.0 | -0.81 - 5.3 | 5.2/17.4  | 4596  |
| 2000 RN <sub>73</sub>  | 2000 10 11.2 | 01 07.15 +01 40.9 18.3 | -0.70 - 6.1 | 1.6/09.4  | 4775  | (16831)                | 2000 10 11.6 | 01 08.74 +13 03.1 16.3 | -0.97 - 8.1 | 2.2/13.5  | 2946  |
| (17639)                | 2000 10 11.2 | 01 07.15 +01 44.6 18.8 | -0.95 - 5.6 | 1.9/09.6  | 4109  | 2000 RP <sub>68</sub>  | 2000 10 11.6 | 01 08.83 +01 32.1 17.8 | -1.09 - 0.9 | 2.2/10.2  | 4766  |
| 1999 JV <sub>2</sub>   | 2000 10 11.2 | 01 07.17 -02 41.7 18.4 | -0.81 - 8.6 | 3.2/07.9  | 4933  | (10849)                | 2000 10 11.6 | 01 08.85 +12 53.2 16.8 | -0.99 - 6.8 | 2.1/13.4  | 34783 |
| 1994 PS <sub>6</sub>   | 2000 10 11.2 | 01 07.18 +03 43.2 18.8 | -0.71 - 6.5 | 1.2/10.1  | 4322  | 2000 SR <sub>309</sub> | 2000 10 11.6 | 01 08.91 -02 30.9 18.9 | -0.84 - 6.1 | 3.5/08.5  | 4855  |
| 2000 RX <sub>66</sub>  | 2000 10 11.2 | 01 07.21 +12 14.4 17.1 | -1.04 - 0.6 | 1.9/12.5  | 5051  | 1999 MG                | 2000 10 11.6 | 01 08.91 -15 32.7 19.1 | -0.90 - 3.0 | 7.5/04.5  | 4943  |
| 2000 RP <sub>3</sub>   | 2000 10 11.2 | 01 07.23 +05 27.5 17.3 | -0.82 - 4.1 | 0.6/10.7  | 4714  | (11108)                | 2000 10 11.6 | 01 08.94 +17 24.1 16.9 | -0.75 - 7.3 | 3.3/15.2  | 35239 |
| 1993 TC <sub>38</sub>  | 2000 10 11.2 | 01 07.25 -00 48.8 17.4 | -1.00 - 4.1 | 3.3/09.0  | 4887  | 2000 OE <sub>50</sub>  | 2000 10 11.6 | 01 08.95 +10 00.4 15.9 | -1.10 + 1.4 | 1.2/12.3  | 4972  |
| 2000 RU <sub>43</sub>  | 2000 10 11.2 | 01 07.29 +21 45.0 17.8 | -1.12 - 3.1 | 5.7/15.4  | 4748  | 2000 RJ <sub>5</sub>   | 2000 10 11.7 | 01 08.91 +15 01.7 17.9 | -1.12 - 0.9 | 3.6/13.7  | 4716  |
| 1981 EL <sub>30</sub>  | 2000 10 11.2 | 01 07.29 +21 57.7 20.8 | -0.79 - 3.8 | 3.8/16.1  | 30779 | 1999 CZ <sub>15</sub>  | 2000 10 11.7 | 01 08.93 -27 46.7 18.7 | -1.01 - 3.3 | 11.3/30.6 | 35082 |
| 2000 RS <sub>69</sub>  | 2000 10 11.2 | 01 07.30 +03 35.8 17.9 | -0.70 - 7.6 | 1.1/10.0  | 4768  | 6833 P-L               | 2000 10 11.7 | 01 08.97 +08 38.3 18.7 | -0.80 - 4.4 | 0.4/12.1  | 32343 |
| 3210 T-1               | 2000 10 11.2 | 01 07.30 +09 02.1 18.7 | -0.95 - 5.0 | 0.7/11.8  | 4865  | (11176)                | 2000 10 11.7 | 01 08.97 +06 03.0 18.5 | -0.77 - 4.7 | 0.4/11.3  | 35257 |
| 1989 SH <sub>4</sub>   | 2000 10 11.2 | 01 07.34 +02 19.4 16.9 | -0.99 - 3.2 | 2.1/09.9  | 4882  | 5721 T-3               | 2000 10 11.7 | 01 08.99 -04 47.9 18.8 | -0.81 - 4.9 | 3.7/07.9  | 31777 |
| 1997 XR                | 2000 10 11.2 | 01 07.37 +21 36.7 16.4 | -0.93 - 6.2 | 6.8/16.1  | 4899  | 1998 FG <sub>64</sub>  | 2000 10 11.7 | 01 09.03 +02 34.3 19.6 | -0.71 - 6.6 | 1.3/10.1  | 4908  |
| (18135)                | 2000 10 11.2 | 01 07.43 +03 32.6 16.7 | -0.67 - 8.6 | 1.2/10.0  | 4255  | 1993 AG                | 2000 10 11.7 | 01 09.03 +04 49.5 17.4 | -0.90 - 6.9 | 0.9/10.9  | 4313  |
| 2000 RB <sub>86</sub>  | 2000 10 11.2 | 01 07.45 +12 41.3 17.9 | -1.05 - 1.6 | 1.9/12.8  | 4784  | (10519)                | 2000 10 11.7 | 01 09.08 +14 16.7 17.2 | -1.06 - 5.7 | 2.9/13.8  | 34441 |
| 1991 VZ <sub>7</sub>   | 2000 10 11.2 | 01 07.48 -02 23.0 19.0 | -0.85 - 3.5 | 2.9/08.4  | 972   | 2000 RR <sub>43</sub>  | 2000 10 11.7 | 01 09.15 +23 51.7 17.0 | -0.96 - 4.6 | 6.2/16.9  | 4748  |
| 2000 OG <sub>48</sub>  | 2000 10 11.2 | 01 07.48 -00 32.0 16.2 | -0.82 -11.9 | 3.1/08.5  | 4586  | 1998 FY <sub>61</sub>  | 2000 10 11.7 | 01 09.16 +11 39.1 18.3 | -0.83 - 6.1 | 1.5/13.2  | 4908  |
| 2000 SN <sub>84</sub>  | 2000 10 11.3 | 01 07.49 +02 27.1 17.8 | -0.82 - 4.8 | 1.9/09.8  | 4821  | 1981 EQ <sub>13</sub>  | 2000 10 11.7 | 01 09.19 +21 11.4 20.1 | -0.97 - 3.0 | 4.0/15.8  | 32298 |
| 2000 OF <sub>50</sub>  | 2000 10 11.3 | 01 07.50 +09 16.5 16.6 | -1.26 + 3.1 | 1.0/11.7  | 4972  | 2000 OH <sub>50</sub>  | 2000 10 11.7 | 01 09.21 +00 34.2 16.7 | -1.00 - 2.0 | 2.2/09.9  | 4972  |
| (17939)                | 2000 10 11.3 | 01 07.50 +23 31.0 15.4 | -1.15 - 3.6 | 6.8/16.2  | 4198  | (17837)                | 2000 10 11.7 | 01 09.21 +05 46.2 18.7 | -0.72 - 4.1 | 0.4/11.3  | 4168  |
| 1999 JL <sub>53</sub>  | 2000 10 11.3 | 01 07.51 -01 53.7 19.1 | -0.83 - 6.0 | 3.2/08.4  | 4472  | 2000 RY <sub>104</sub> | 2000 10 11.7 | 01 09.24 +29 57.7 17.1 | -0.98 - 2.1 | 9.8/18.8  | 5062  |
| 2000 RF <sub>60</sub>  | 2000 10 11.3 | 01 07.68 +02 42.8 17.4 | -0.73 -10.5 | 2.2/09.7  | 4759  | 1998 FO <sub>106</sub> | 2000 10 11.7 | 01 09.27 +16 10.2 18.2 | -0.87 - 2.7 | 2.7/14.4  | 4910  |
| 1997 AX <sub>2</sub>   | 2000 10 11.3 | 01 07.68 -09 30.6 18.1 | -0.87 - 3.7 | 6.3/06.0  | 4896  | 1998 FD <sub>14</sub>  | 2000 10 11.7 | 01 09.31 +05 22.3 18.5 | -0.88 - 4.2 | 0.7/11.2  | 4375  |
| 2000 SJ <sub>68</sub>  | 2000 10 11.3 | 01 07.76 +00 58.6 17.6 | -1.07 + 0.6 | 2.4/09.9  | 4817  | 2000 PZ <sub>25</sub>  | 2000 10 11.7 | 01 09.32 +21 18.4 17.4 | -0.72 -11.1 | 5.5/17.2  | 4978  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1999 LE <sub>22</sub>  | 2000 10 11.8 | 01 09.41 +03 25.1 18.0 | -0.88 - 6.5 | 1.4/10.6  | 4943  |
| 1991 RS <sub>11</sub>  | 2000 10 11.8 | 01 09.60 -14 19.9 17.7 | -0.64 - 5.4 | 10.3/04.1 | 3112  |
| 1999 JP <sub>30</sub>  | 2000 10 11.8 | 01 09.66 +16 54.0 17.5 | -0.96 - 5.9 | 3.5/15.0  | 4935  |
| 1996 PK <sub>1</sub>   | 2000 10 11.9 | 01 09.77 +01 50.2 18.0 | -0.80 - 6.3 | 2.6/10.1  | 4892  |
| (17368)                | 2000 10 11.9 | 01 09.78 +17 49.1 18.2 | -1.05 - 4.9 | 3.8/15.0  | 4032  |
| 1998 HQ <sub>46</sub>  | 2000 10 11.9 | 01 09.79 +05 19.0 18.1 | -0.72 - 7.2 | 0.6/11.2  | 4404  |
| 2000 SC <sub>109</sub> | 2000 10 11.9 | 01 09.84 +04 51.2 18.9 | -0.84 - 6.7 | 1.1/11.1  | 4826  |
| 1998 FW <sub>64</sub>  | 2000 10 11.9 | 01 09.92 +11 17.5 17.8 | -0.93 - 0.5 | 1.2/13.0  | 4908  |
| 1981 EZ <sub>44</sub>  | 2000 10 11.9 | 01 09.94 +09 20.9 18.0 | -0.86 - 9.7 | 0.8/12.6  | 4301  |
| (17491)                | 2000 10 11.9 | 01 09.94 -05 05.9 16.8 | -0.92 - 0.4 | 5.2/08.7  | 4066  |
| 1999 JW <sub>53</sub>  | 2000 10 11.9 | 01 09.98 -04 12.2 18.7 | -0.95 - 3.2 | 4.2/08.7  | 4473  |
| (17772)                | 2000 10 11.9 | 01 09.98 +02 43.0 17.2 | -0.82 - 4.4 | 1.6/10.5  | 4147  |
| (17575)                | 2000 10 11.9 | 01 10.06 +06 58.5 18.6 | -0.73 - 5.5 | 0.1/11.8  | 4090  |
| 2000 OT <sub>49</sub>  | 2000 10 12.0 | 01 10.02 +03 14.7 15.3 | -0.94 + 0.5 | 2.1/10.9  | 4972  |
| (10583)                | 2000 10 12.0 | 01 10.10 -11 58.8 15.5 | -0.90 + 0.7 | 7.1/07.0  | 34458 |
| 1998 FG <sub>60</sub>  | 2000 10 12.0 | 01 10.10 +08 04.3 19.4 | -0.86 - 2.5 | 0.2/12.2  | 4385  |
| 1999 FH <sub>6</sub>   | 2000 10 12.0 | 01 10.12 +09 14.5 17.2 | -1.00 - 5.9 | 0.8/12.6  | 4928  |
| (18210)                | 2000 10 12.0 | 01 10.15 +10 18.7 18.2 | -0.80 - 3.3 | 0.9/12.9  | 4276  |
| (17381)                | 2000 10 12.0 | 01 10.16 +15 02.8 18.5 | -0.88 - 5.5 | 2.6/14.5  | 4035  |
| (17162)                | 2000 10 12.0 | 01 10.18 +01 01.8 16.9 | -0.87 - 7.6 | 2.3/09.9  | 3044  |
| 1999 JO <sub>67</sub>  | 2000 10 12.0 | 01 10.22 +03 27.3 19.1 | -0.87 - 4.7 | 1.3/10.8  | 4938  |
| 1998 DJ <sub>6</sub>   | 2000 10 12.0 | 01 10.23 +01 38.2 16.6 | -0.85 - 4.0 | 2.3/10.3  | 34902 |
| 2000 RV <sub>104</sub> | 2000 10 12.0 | 01 10.36 +20 35.1 18.1 | -0.85 - 7.8 | 4.6/16.6  | 4800  |
| 2000 RT <sub>43</sub>  | 2000 10 12.0 | 01 10.39 +26 12.3 17.8 | -1.03 - 1.1 | 8.0/17.4  | 5046  |
| 1996 YF <sub>3</sub>   | 2000 10 12.1 | 01 10.45 +33 16.3 17.0 | -0.95 - 4.8 | 10.2/21.4 | 4895  |
| 1999 NY <sub>36</sub>  | 2000 10 12.1 | 01 10.45 -03 34.3 19.1 | -0.82 - 4.2 | 3.0/08.7  | 4944  |
| 1999 JG <sub>124</sub> | 2000 10 12.1 | 01 10.46 -20 08.9 18.8 | -0.91 - 7.8 | 8.3/02.4  | 4942  |
| (17889)                | 2000 10 12.1 | 01 10.57 +02 40.6 17.6 | -0.90 - 6.8 | 1.7/10.6  | 4183  |
| 1999 JV <sub>53</sub>  | 2000 10 12.2 | 01 10.79 -04 18.5 18.9 | -0.97 - 3.3 | 3.9/08.9  | 4937  |
| 2000 RY <sub>85</sub>  | 2000 10 12.2 | 01 10.80 +07 47.2 18.6 | -0.97 - 2.6 | 0.1/12.3  | 4783  |
| 1990 VX <sub>6</sub>   | 2000 10 12.2 | 01 10.82 -11 42.8 17.7 | -0.79 - 3.4 | 6.6/06.1  | 4883  |
| 2000 QM <sub>150</sub> | 2000 10 12.2 | 01 10.96 +23 37.9 17.5 | -1.16 + 1.9 | 7.2/16.2  | 5018  |
| 2000 SM <sub>186</sub> | 2000 10 12.2 | 01 10.98 -04 27.3 18.5 | -0.89 - 1.2 | 4.0/09.0  | 4848  |
| 1991 RA <sub>18</sub>  | 2000 10 12.2 | 01 11.00 +09 08.9 17.3 | -0.81 - 6.6 | 0.6/12.8  | 4884  |
| 1995 SU <sub>37</sub>  | 2000 10 12.2 | 01 11.03 +17 55.7 18.7 | -0.96 - 2.0 | 3.2/15.2  | 4890  |
| 2134 P-L               | 2000 10 12.2 | 01 11.03 +11 36.0 17.9 | -0.89 - 3.9 | 1.6/13.5  | 4857  |
| 2000 QJ <sub>150</sub> | 2000 10 12.2 | 01 11.04 +17 33.6 17.4 | -0.91 - 3.0 | 3.8/15.2  | 5018  |
| 1990 WM <sub>1</sub>   | 2000 10 12.2 | 01 11.05 -02 24.0 17.6 | -0.75 - 6.0 | 3.4/08.9  | 4883  |
| 2000 RJ <sub>94</sub>  | 2000 10 12.2 | 01 11.07 +05 42.9 17.8 | -0.86 - 7.1 | 0.7/11.7  | 5058  |
| 2000 RW <sub>104</sub> | 2000 10 12.2 | 01 11.11 +26 02.4 18.1 | -0.88 - 2.9 | 6.2/18.1  | 4800  |
| 1998 FO <sub>71</sub>  | 2000 10 12.2 | 01 11.12 +04 55.6 17.5 | -0.77 -10.0 | 0.9/11.3  | 4909  |
| 1999 JQ <sub>29</sub>  | 2000 10 12.2 | 01 11.12 +07 04.9 18.6 | -1.04 - 4.0 | 0.2/12.2  | 4461  |
| 1993 TU <sub>20</sub>  | 2000 10 12.2 | 01 11.13 +04 54.2 18.0 | -1.07 - 3.0 | 0.9/11.6  | 4887  |
| 4844 P-L               | 2000 10 12.2 | 01 11.15 +03 08.0 18.9 | -0.97 - 6.9 | 1.7/10.9  | 5145  |
| 2000 ON <sub>49</sub>  | 2000 10 12.2 | 01 11.17 -05 44.1 16.6 | -0.82 - 2.7 | 6.6/08.3  | 4972  |
| 1999 GN                | 2000 10 12.3 | 01 11.13 +07 09.9 16.6 | -0.88 - 9.9 | 0.2/12.2  | 4929  |
| 1999 FH <sub>29</sub>  | 2000 10 12.3 | 01 11.14 -00 39.0 18.4 | -0.91 - 7.8 | 3.2/09.7  | 4929  |
| 1999 NH <sub>18</sub>  | 2000 10 12.3 | 01 11.15 +20 55.0 18.0 | -0.87 - 3.3 | 4.1/16.5  | 4944  |
| 2000 RM <sub>60</sub>  | 2000 10 12.3 | 01 11.16 +21 23.7 16.0 | -0.82 - 6.1 | 5.5/17.1  | 4759  |
| (16844)                | 2000 10 12.3 | 01 11.21 -00 05.8 17.6 | -0.80 - 5.7 | 2.5/09.9  | 2951  |
| (11074)                | 2000 10 12.3 | 01 11.24 -01 02.5 16.0 | -0.77 - 6.7 | 3.9/09.5  | 2611  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 2000 SB <sub>81</sub>  | 2000 10 12.3 | 01 11.29 +01 47.8 18.7 | -0.61 - 3.0 | 1.2/10.5  | 4820  |
| 1999 JR <sub>70</sub>  | 2000 10 12.3 | 01 11.38 -00 41.1 18.6 | -0.87 - 5.4 | 3.1/09.8  | 4481  |
| 2000 ST <sub>126</sub> | 2000 10 12.3 | 01 11.39 +06 20.8 18.7 | -0.83 - 4.3 | 0.4/12.0  | 4833  |
| 1994 RC <sub>17</sub>  | 2000 10 12.3 | 01 11.45 +20 25.1 18.6 | -0.88 - 2.0 | 4.2/16.2  | 4324  |
| 1995 ES                | 2000 10 12.4 | 01 11.51 +12 18.1 17.5 | -1.11 - 2.5 | 2.0/13.6  | 4890  |
| (10744)                | 2000 10 12.4 | 01 11.51 -22 58.8 16.0 | -0.93 + 0.5 | 13.1/03.3 | 3858  |
| (10898)                | 2000 10 12.4 | 01 11.62 +01 39.0 17.4 | -0.99 - 4.8 | 2.3/10.7  | 34796 |
| 1998 FO <sub>54</sub>  | 2000 10 12.4 | 01 11.79 +09 46.7 16.8 | -0.98 - 4.8 | 1.0/13.1  | 4907  |
| 2000 RS <sub>85</sub>  | 2000 10 12.4 | 01 11.80 -03 43.8 18.1 | -0.72 - 5.2 | 3.5/08.8  | 4783  |
| 2000 RV <sub>103</sub> | 2000 10 12.4 | 01 11.82 +18 26.1 17.8 | -0.85 - 5.7 | 3.6/16.0  | 4799  |
| 1998 BB <sub>4</sub>   | 2000 10 12.4 | 01 11.85 -01 06.5 17.9 | -0.93 - 7.1 | 3.3/09.7  | 4357  |
| (11024)                | 2000 10 12.4 | 01 11.88 +00 24.2 17.4 | -0.84 - 4.8 | 2.4/10.3  | 35218 |
| 1999 JU <sub>74</sub>  | 2000 10 12.5 | 01 11.89 -12 07.4 18.7 | -0.83 - 5.8 | 6.6/06.1  | 3913  |
| 2000 RK <sub>71</sub>  | 2000 10 12.5 | 01 11.91 -00 29.9 18.0 | -0.62 - 3.8 | 2.0/09.9  | 4771  |
| (16536)                | 2000 10 12.5 | 01 11.93 +01 00.2 17.9 | -0.82 - 7.2 | 2.4/10.3  | 2862  |
| (17361)                | 2000 10 12.5 | 01 12.02 +14 23.9 17.9 | -0.72 - 9.5 | 2.2/15.0  | 4030  |
| 2000 RH <sub>3</sub>   | 2000 10 12.5 | 01 12.13 +00 56.3 17.2 | -0.69 -11.6 | 2.6/10.0  | 5035  |
| 1995 OZ <sub>3</sub>   | 2000 10 12.5 | 01 12.23 +17 10.4 18.7 | -0.91 - 3.5 | 3.6/15.4  | 4327  |
| 1999 JJ <sub>30</sub>  | 2000 10 12.5 | 01 12.26 +15 45.8 18.7 | -0.93 - 9.0 | 2.9/15.3  | 4461  |
| (17489)                | 2000 10 12.5 | 01 12.28 +09 45.8 17.6 | -0.79 - 9.0 | 0.7/13.3  | 4065  |
| (16700)                | 2000 10 12.5 | 01 12.29 +04 40.5 16.6 | -1.02 - 4.0 | 1.3/11.8  | 2909  |
| 1999 FF <sub>8</sub>   | 2000 10 12.5 | 01 12.37 +20 33.7 18.2 | -1.74 + 5.8 | 6.3/14.6  | 4928  |
| 1999 GG <sub>3</sub>   | 2000 10 12.6 | 01 12.25 +06 17.5 19.2 | -0.95 - 7.0 | 0.5/12.2  | 4438  |
| 2000 SH <sub>43</sub>  | 2000 10 12.6 | 01 12.30 +08 16.9 17.2 | -0.84 - 9.7 | 0.3/12.8  | 4812  |
| 2000 RN <sub>76</sub>  | 2000 10 12.6 | 01 12.49 +09 50.5 16.6 | -1.00 - 3.0 | 0.8/13.3  | 4778  |
| 2000 PL <sub>2</sub>   | 2000 10 12.6 | 01 12.50 -04 30.5 17.7 | -0.72 - 6.9 | 3.9/08.4  | 4591  |
| 1998 FW <sub>121</sub> | 2000 10 12.6 | 01 12.54 +04 25.5 18.0 | -0.80 - 4.0 | 1.1/11.7  | 4911  |
| 1998 GB <sub>10</sub>  | 2000 10 12.6 | 01 12.55 -11 40.1 18.0 | -0.96 + 0.7 | 5.7/07.7  | 4398  |
| 2000 SU <sub>126</sub> | 2000 10 12.6 | 01 12.58 +06 20.3 18.9 | -0.80 - 7.3 | 0.5/12.2  | 4833  |
| 1998 FR <sub>59</sub>  | 2000 10 12.6 | 01 12.60 +03 11.4 18.3 | -0.88 - 3.6 | 1.5/11.4  | 4385  |
| 1999 CW <sub>101</sub> | 2000 10 12.7 | 01 12.63 -03 01.3 16.9 | -1.02 - 3.8 | 4.8/09.8  | 4926  |
| 1999 JG <sub>11</sub>  | 2000 10 12.7 | 01 12.69 +13 36.9 18.1 | -0.79 - 9.0 | 2.0/15.0  | 4454  |
| 1999 NP <sub>37</sub>  | 2000 10 12.7 | 01 12.72 +22 46.0 17.8 | -0.84 - 3.9 | 4.4/17.5  | 4944  |
| 1999 JO <sub>49</sub>  | 2000 10 12.7 | 01 12.73 +00 34.6 18.4 | -0.96 - 4.4 | 2.4/10.7  | 4469  |
| 2000 SQ <sub>139</sub> | 2000 10 12.7 | 01 12.74 +21 20.4 17.8 | -1.01 - 5.8 | 6.2/17.1  | 4835  |
| 1998 FK <sub>50</sub>  | 2000 10 12.7 | 01 12.79 +10 49.1 16.9 | -0.90 - 2.0 | 1.0/13.6  | 4907  |
| 1992 WS <sub>4</sub>   | 2000 10 12.7 | 01 12.81 +05 06.6 16.8 | -1.01 - 0.7 | 1.1/12.1  | 4313  |
| 1999 JC <sub>61</sub>  | 2000 10 12.7 | 01 12.82 -04 38.3 17.9 | -0.94 - 5.6 | 4.6/08.9  | 4477  |
| 1999 JV <sub>82</sub>  | 2000 10 12.7 | 01 12.83 -09 10.8 16.7 | -0.77 - 8.0 | 6.2/06.9  | 4939  |
| 1996 XN <sub>3</sub>   | 2000 10 12.7 | 01 12.85 +20 03.9 19.5 | -0.88 - 4.9 | 3.6/16.7  | 4340  |
| 1998 HB <sub>143</sub> | 2000 10 12.7 | 01 12.89 +01 07.6 18.1 | -0.86 - 1.0 | 1.9/11.0  | 32084 |
| 1997 YT <sub>13</sub>  | 2000 10 12.7 | 01 12.90 +20 53.3 17.6 | -1.00 - 4.2 | 5.4/16.8  | 4900  |
| 1999 LA <sub>22</sub>  | 2000 10 12.7 | 01 12.99 -01 27.2 18.3 | -0.93 - 6.9 | 3.7/09.9  | 4943  |
| 1997 AF <sub>8</sub>   | 2000 10 12.7 | 01 12.99 +11 47.0 21.1 | -0.75 - 4.6 | 1.0/14.1  | 30786 |
| 1999 JR <sub>9</sub>   | 2000 10 12.7 | 01 13.00 -01 04.3 19.1 | -0.97 - 3.2 | 3.1/10.3  | 4453  |
| 2000 RX <sub>46</sub>  | 2000 10 12.7 | 01 13.03 +15 16.2 18.4 | -0.83 - 6.0 | 2.4/15.3  | 4750  |
| 1997 YD <sub>5</sub>   | 2000 10 12.7 | 01 13.03 +13 33.5 17.3 | -0.97 - 7.3 | 2.5/14.6  | 4354  |
| (17646)                | 2000 10 12.8 | 01 13.13 +21 22.2 17.5 | -1.15 - 2.1 | 5.1/16.6  | 4111  |
| 1998 KL <sub>4</sub>   | 2000 10 12.8 | 01 13.15 +22 12.4 18.4 | -0.72 - 8.3 | 3.8/18.1  | 4412  |
| 1999 GF <sub>30</sub>  | 2000 10 12.8 | 01 13.22 +06 34.6 18.9 | -0.98 - 7.3 | 0.5/12.5  | 4931  |
| (16581)                | 2000 10 12.8 | 01 13.27 +09 31.2 17.5 | -1.00 - 5.3 | 0.6/13.4  | 2875  |

|                        |              |                        |             |          |       |                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|----------|-------|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1999 GY <sub>31</sub>  | 2000 10 12.8 | 01 13.32 +01 22.7 19.8 | -0.99 - 5.9 | 2.4/11.0 | 4931  | 1992 GQ                | 2000 10 13.3 | 01 14.92 -05 57.4 17.6 | -0.74 - 3.9 | 3.6/08.9  | 4885  |
| 1998 HP <sub>145</sub> | 2000 10 12.8 | 01 13.33 +13 45.2 19.2 | -0.70 - 6.0 | 1.5/14.9 | 4411  | 2000 SZ <sub>144</sub> | 2000 10 13.3 | 01 15.04 +09 37.4 18.8 | -0.86 - 8.8 | 0.7/13.9  | 4837  |
| 1998 KW <sub>44</sub>  | 2000 10 12.8 | 01 13.35 +15 31.0 17.9 | -0.70 - 6.7 | 2.0/15.6 | 4914  | (17999)                | 2000 10 13.3 | 01 15.11 +01 58.3 18.1 | -0.81 - 9.6 | 2.0/11.3  | 4216  |
| 2000 SA <sub>305</sub> | 2000 10 12.8 | 01 13.37 +18 45.8 17.6 | -0.92 - 4.9 | 5.6/16.4 | 4855  | 4094 T-2               | 2000 10 13.3 | 01 15.24 +05 04.8 18.5 | -0.76 - 4.9 | 1.0/12.5  | 5147  |
| 2000 OC <sub>52</sub>  | 2000 10 12.9 | 01 13.41 -01 23.9 16.3 | -0.70 - 8.1 | 4.3/09.7 | 4972  | (10973)                | 2000 10 13.4 | 01 15.23 +11 30.8 16.9 | -1.05 - 4.8 | 1.4/14.4  | 34816 |
| 3163 T-3               | 2000 10 12.9 | 01 13.44 +02 40.5 18.3 | -0.86 - 0.9 | 1.4/11.5 | 5147  | (11004)                | 2000 10 13.4 | 01 15.25 +22 33.8 16.3 | -0.97 - 0.2 | 4.8/17.4  | 35212 |
| (17929)                | 2000 10 12.9 | 01 13.44 -11 21.3 16.5 | -1.10 + 2.2 | 8.0/08.7 | 4195  | 1998 FU <sub>27</sub>  | 2000 10 13.4 | 01 15.28 +07 49.8 17.0 | -0.83 - 6.9 | 0.0/13.4  | 4906  |
| 2000 OE <sub>48</sub>  | 2000 10 12.9 | 01 13.47 -00 33.0 16.3 | -0.84 - 5.8 | 4.3/10.3 | 4971  | 1998 FT <sub>26</sub>  | 2000 10 13.4 | 01 15.32 +16 54.0 19.6 | -0.98 - 1.8 | 2.8/15.9  | 4906  |
| 1998 FN <sub>60</sub>  | 2000 10 12.9 | 01 13.47 +08 09.4 17.6 | -0.88 - 1.9 | 0.1/13.0 | 4386  | 1998 HT <sub>120</sub> | 2000 10 13.4 | 01 15.35 -05 49.0 18.4 | -0.73 - 6.5 | 4.2/08.7  | 4409  |
| 1998 HX <sub>5</sub>   | 2000 10 12.9 | 01 13.54 +01 00.2 18.7 | -0.75 - 5.1 | 2.1/10.8 | 4399  | 1996 XJ <sub>5</sub>   | 2000 10 13.4 | 01 15.38 +26 31.0 17.3 | -0.86 - 5.4 | 5.3/19.8  | 4341  |
| 2000 RZ <sub>3</sub>   | 2000 10 12.9 | 01 13.54 +06 00.0 18.4 | -0.78 - 7.7 | 0.6/12.3 | 4715  | 2000 PM <sub>7</sub>   | 2000 10 13.4 | 01 15.40 -10 32.5 17.4 | -0.92 + 1.4 | 9.9/09.1  | 4975  |
| 1999 JU <sub>4</sub>   | 2000 10 12.9 | 01 13.58 +18 22.4 19.1 | -0.83 - 9.7 | 3.4/16.8 | 4933  | (10781)                | 2000 10 13.4 | 01 15.46 +05 24.2 16.7 | -0.80 - 7.6 | 1.0/12.6  | 34765 |
| 1998 FH <sub>107</sub> | 2000 10 12.9 | 01 13.61 +16 53.0 17.6 | -0.77 - 6.9 | 2.9/16.1 | 4910  | 1998 FQ <sub>78</sub>  | 2000 10 13.4 | 01 15.51 +04 42.1 18.6 | -1.41 + 2.9 | 1.4/12.8  | 4390  |
| 3113 T-1               | 2000 10 12.9 | 01 13.64 +07 42.0 18.3 | -1.00 - 5.4 | 0.0/12.9 | 4864  | 1999 JB <sub>51</sub>  | 2000 10 13.4 | 01 15.61 +13 03.6 16.9 | -0.77 -10.8 | 1.9/15.3  | 4471  |
| 2000 QK <sub>150</sub> | 2000 10 12.9 | 01 13.70 +20 04.0 15.9 | -0.81 - 5.4 | 5.9/17.1 | 5018  | 2000 SV <sub>44</sub>  | 2000 10 13.5 | 01 15.72 +15 18.3 17.1 | -1.01 - 4.1 | 2.6/15.7  | 4813  |
| 2000 SO <sub>159</sub> | 2000 10 12.9 | 01 13.72 +06 07.2 19.3 | -0.87 - 4.8 | 0.6/12.5 | 4844  | 1994 PN <sub>13</sub>  | 2000 10 13.5 | 01 15.78 +09 32.0 17.0 | -0.77 - 4.3 | 0.6/14.0  | 4889  |
| 2000 SE <sub>43</sub>  | 2000 10 12.9 | 01 13.73 +14 07.0 17.7 | -0.92 - 4.3 | 2.1/14.9 | 4811  | (10499)                | 2000 10 13.5 | 01 15.82 +13 43.1 15.5 | -1.07 - 0.4 | 2.9/15.0  | 34436 |
| 1994 PE                | 2000 10 12.9 | 01 13.74 +23 56.9 18.5 | -0.83 - 4.1 | 4.9/18.3 | 4889  | 1996 CP                | 2000 10 13.5 | 01 15.90 -07 06.7 17.4 | -0.86 - 1.3 | 5.0/09.3  | 4891  |
| 2000 OR <sub>49</sub>  | 2000 10 12.9 | 01 13.76 -07 26.3 16.9 | -0.80 - 8.1 | 7.1/07.7 | 4972  | 1996 WB                | 2000 10 13.5 | 01 16.01 -10 30.3 16.1 | -1.02 + 1.3 | 7.8/08.9  | 4895  |
| 2000 SX <sub>110</sub> | 2000 10 13.0 | 01 13.76 +06 33.4 18.0 | -1.00 - 4.7 | 0.5/12.7 | 4826  | 1999 JS <sub>23</sub>  | 2000 10 13.6 | 01 15.92 +12 35.5 16.7 | -0.80 - 9.4 | 1.8/15.2  | 4459  |
| (17996)                | 2000 10 13.0 | 01 13.83 +11 48.0 16.1 | -0.94 - 7.8 | 1.6/14.3 | 4215  | 2000 PC <sub>5</sub>   | 2000 10 13.6 | 01 15.93 -13 08.5 17.1 | -0.88 - 2.6 | 10.8/07.5 | 4975  |
| (11302)                | 2000 10 13.0 | 01 13.83 +04 48.9 17.2 | -0.83 - 4.8 | 1.0/12.1 | 3859  | 2000 RC <sub>45</sub>  | 2000 10 13.6 | 01 15.93 +17 06.3 17.5 | -0.97 - 3.3 | 3.2/16.2  | 4748  |
| 2000 OW <sub>8</sub>   | 2000 10 13.0 | 01 13.84 -00 38.2 16.2 | -0.75 - 6.5 | 4.4/10.2 | 4964  | 1996 VU <sub>15</sub>  | 2000 10 13.6 | 01 15.99 -06 05.9 19.4 | -0.98 - 0.9 | 4.7/10.0  | 4895  |
| 1998 HO <sub>23</sub>  | 2000 10 13.0 | 01 13.90 -00 39.1 19.0 | -0.73 - 5.6 | 2.2/10.3 | 4912  | 2000 SH <sub>111</sub> | 2000 10 13.6 | 01 16.04 +05 01.5 18.2 | -0.85 - 5.9 | 1.0/12.7  | 4827  |
| 2000 OV <sub>49</sub>  | 2000 10 13.0 | 01 13.98 -09 44.8 17.3 | -0.77 - 5.6 | 7.2/07.2 | 4972  | 1981 EJ <sub>6</sub>   | 2000 10 13.6 | 01 16.08 +11 16.8 17.7 | -0.70 -10.9 | 1.1/14.8  | 4300  |
| 1115 T-2               | 2000 10 13.0 | 01 14.07 +06 39.0 18.3 | -0.95 - 8.7 | 0.5/12.7 | 4866  | (17726)                | 2000 10 13.6 | 01 16.12 +08 55.2 15.6 | -0.86 - 7.3 | 0.4/13.9  | 4134  |
| 2027 T-3               | 2000 10 13.0 | 01 14.09 +13 34.9 18.5 | -1.08 - 4.6 | 2.2/14.7 | 5147  | 2000 RS <sub>36</sub>  | 2000 10 13.6 | 01 16.16 -12 35.7 18.9 | -0.65 -27.8 | 9.4/03.9  | 4742  |
| (10580)                | 2000 10 13.0 | 01 14.16 +15 38.2 17.0 | -0.98 - 3.4 | 2.7/15.4 | 34457 | (11607)                | 2000 10 13.6 | 01 16.21 +20 39.4 18.2 | -0.72 - 6.2 | 3.1/18.0  | 35860 |
| (16410)                | 2000 10 13.1 | 01 14.08 +07 40.3 17.4 | -0.88 - 4.0 | 0.1/13.1 | 2825  | 6609 P-L               | 2000 10 13.6 | 01 16.24 +12 39.7 17.1 | -1.11 + 2.5 | 2.0/14.7  | 4862  |
| (17560)                | 2000 10 13.1 | 01 14.24 -00 33.8 17.6 | -0.89 - 5.7 | 4.0/10.5 | 4085  | 1999 GC <sub>9</sub>   | 2000 10 13.6 | 01 16.24 +05 48.5 18.2 | -0.90 - 8.3 | 0.9/12.9  | 4930  |
| 1998 HZ <sub>127</sub> | 2000 10 13.1 | 01 14.26 +07 52.8 19.7 | -0.73 - 4.7 | 0.0/13.1 | 4914  | 2000 SB <sub>111</sub> | 2000 10 13.6 | 01 16.30 +05 55.3 17.5 | -0.98 - 6.0 | 1.0/13.0  | 4827  |
| 1994 AO <sub>3</sub>   | 2000 10 13.1 | 01 14.31 +01 00.2 16.2 | -0.94 - 5.0 | 2.9/11.1 | 4888  | 1999 JR <sub>53</sub>  | 2000 10 13.6 | 01 16.34 -01 49.3 19.2 | -0.95 - 3.9 | 3.6/10.8  | 4472  |
| 1998 FC <sub>69</sub>  | 2000 10 13.1 | 01 14.37 +10 07.8 17.3 | -0.92 - 4.1 | 0.9/13.8 | 4909  | (17132)                | 2000 10 13.6 | 01 16.34 -08 47.6 17.1 | -0.79 - 5.5 | 6.2/08.2  | 3036  |
| 2000 SH <sub>110</sub> | 2000 10 13.1 | 01 14.38 +08 45.9 18.4 | -0.91 - 6.2 | 0.3/13.4 | 4826  | 1999 FL <sub>31</sub>  | 2000 10 13.6 | 01 16.36 +04 37.3 17.5 | -0.98 - 4.8 | 1.2/12.7  | 4929  |
| (11077)                | 2000 10 13.1 | 01 14.38 +10 10.7 15.7 | -0.90 - 4.7 | 1.0/13.9 | 35231 | 2000 RH <sub>70</sub>  | 2000 10 13.6 | 01 16.38 +04 10.0 17.4 | -0.92 - 8.3 | 1.5/12.4  | 4769  |
| 1988 DL                | 2000 10 13.1 | 01 14.44 +19 01.2 17.8 | -0.82 - 6.7 | 3.9/16.9 | 4304  | 1999 KL <sub>13</sub>  | 2000 10 13.7 | 01 16.34 +12 40.1 18.6 | -0.85 - 6.4 | 1.6/15.2  | 4942  |
| 1998 BA <sub>26</sub>  | 2000 10 13.1 | 01 14.46 +18 48.4 18.9 | -0.96 - 2.6 | 3.2/16.3 | 4360  | 1999 JU <sub>49</sub>  | 2000 10 13.7 | 01 16.41 +00 25.1 18.2 | -0.98 - 5.0 | 3.1/11.5  | 4470  |
| 1999 JM <sub>1</sub>   | 2000 10 13.1 | 01 14.46 +04 39.1 19.4 | -0.98 - 4.9 | 1.1/12.2 | 2647  | (11401)                | 2000 10 13.7 | 01 16.41 +12 36.1 16.0 | -1.10 - 3.2 | 2.1/15.0  | 35591 |
| 2000 PD <sub>8</sub>   | 2000 10 13.1 | 01 14.48 +09 09.9 16.8 | -0.89 + 0.6 | 0.7/13.5 | 4975  | 1993 TT <sub>37</sub>  | 2000 10 13.7 | 01 16.46 -01 24.3 17.3 | -1.05 - 1.5 | 4.2/11.3  | 4887  |
| 1994 PG <sub>5</sub>   | 2000 10 13.2 | 01 14.59 +18 32.3 18.7 | -0.83 - 3.5 | 3.2/16.5 | 4889  | 1996 NX <sub>3</sub>   | 2000 10 13.7 | 01 16.50 +16 20.8 17.8 | -1.02 - 5.0 | 3.2/16.2  | 4892  |
| (17979)                | 2000 10 13.2 | 01 14.66 -08 47.5 17.0 | -0.87 - 2.7 | 5.9/08.4 | 4210  | 2000 SR <sub>139</sub> | 2000 10 13.7 | 01 16.56 +21 52.2 18.1 | -0.81 - 4.8 | 4.4/18.3  | 4835  |
| 2000 PU <sub>7</sub>   | 2000 10 13.2 | 01 14.68 -10 12.0 15.9 | -1.04 + 2.0 | 7.7/08.9 | 4975  | (11120)                | 2000 10 13.7 | 01 16.59 +11 27.6 17.8 | -0.96 - 6.9 | 1.2/14.8  | 3859  |
| (17665)                | 2000 10 13.2 | 01 14.70 -07 57.5 15.6 | -0.96 + 0.8 | 7.0/09.2 | 4116  | 2000 SK <sub>145</sub> | 2000 10 13.7 | 01 16.60 +10 37.2 16.6 | -0.89 - 4.3 | 1.0/14.5  | 4837  |
| 1995 FS <sub>15</sub>  | 2000 10 13.2 | 01 14.76 +06 38.7 18.5 | -0.89 - 8.3 | 0.5/12.9 | 39960 | 2000 SC <sub>4</sub>   | 2000 10 13.8 | 01 16.76 -05 04.9 16.9 | -0.81 - 5.4 | 6.7/09.6  | 5063  |
| 2000 SN <sub>70</sub>  | 2000 10 13.2 | 01 14.80 -00 23.7 18.2 | -1.04 - 5.0 | 3.6/10.9 | 4818  | 2000 RR <sub>96</sub>  | 2000 10 13.8 | 01 16.95 +14 23.9 17.4 | -0.67 - 6.3 | 1.8/16.0  | 4794  |
| 1981 ER <sub>8</sub>   | 2000 10 13.2 | 01 14.83 +14 56.1 19.2 | -0.93 - 4.4 | 2.5/15.4 | 4880  | 1999 JB <sub>90</sub>  | 2000 10 13.8 | 01 16.97 -02 34.8 17.3 | -0.87 - 7.2 | 4.8/10.4  | 4940  |
| 2000 TB <sub>21</sub>  | 2000 10 13.2 | 01 14.85 -08 56.9 19.2 | -0.75 - 4.4 | 4.9/07.8 | 4856  | 1998 FC                | 2000 10 13.8 | 01 16.97 +07 31.9 18.7 | -0.92 - 2.6 | 0.2/13.7  | 4905  |
| 2000 RC <sub>5</sub>   | 2000 10 13.2 | 01 14.86 +11 55.2 17.8 | -1.03 - 0.7 | 2.0/14.3 | 4715  | (10464)                | 2000 10 13.8 | 01 17.06 +06 09.2 17.0 | -1.04 - 4.0 | 0.8/13.3  | 3858  |
| (18254)                | 2000 10 13.3 | 01 14.82 +01 19.2 18.4 | -0.77 - 8.7 | 2.1/11.0 | 4289  | 2000 SG <sub>40</sub>  | 2000 10 13.9 | 01 17.17 -00 35.7 18.8 | -0.82 - 8.2 | 3.7/11.0  | 4811  |
| 2000 QO <sub>105</sub> | 2000 10 13.3 | 01 14.90 -06 52.7 17.5 | -0.70 - 3.3 | 7.4/08.6 | 5006  | 1999 GQ <sub>35</sub>  | 2000 10 13.9 | 01 17.21 +14 16.4 17.1 | -0.92 - 8.4 | 2.5/16.0  | 4931  |
| 2000 SZ <sub>110</sub> | 2000 10 13.3 | 01 14.92 +07 27.1 17.7 | -1.03 + 0.2 | 0.2/13.2 | 4827  | 1999 JO <sub>21</sub>  | 2000 10 13.9 | 01 17.22 +09 56.0 19.1 | -0.95 - 5.3 | 0.6/14.5  | 4456  |

|                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|----------|-------|
| (18012)                | 2000 10 13.9 | 01 17.22 +13 20.4 17.4 | -0.95 - 7.4 | 1.8/15.6 | 4220  |
| (16902)                | 2000 10 13.9 | 01 17.25 -02 49.3 17.2 | -0.81 - 8.5 | 3.9/10.2 | 2968  |
| (17686)                | 2000 10 13.9 | 01 17.28 -11 16.1 16.6 | -0.76 - 4.6 | 6.7/07.5 | 4123  |
| 4147 P-L               | 2000 10 14.0 | 01 17.43 +07 59.7 17.9 | -0.87 - 8.1 | 0.1/13.9 | 2581  |
| 1996 VG <sub>1</sub>   | 2000 10 14.0 | 01 17.44 +05 34.0 19.2 | -0.95 - 3.1 | 1.1/13.3 | 4338  |
| 2000 SA <sub>142</sub> | 2000 10 14.0 | 01 17.59 +12 00.9 18.2 | -0.71 - 7.1 | 1.1/15.4 | 4836  |
| 2000 RA <sub>86</sub>  | 2000 10 14.0 | 01 17.60 +08 34.0 18.2 | -0.85 - 2.0 | 0.1/14.1 | 4784  |
| 1999 GV                | 2000 10 14.0 | 01 17.60 -01 49.2 17.6 | -1.08 - 2.9 | 4.2/11.4 | 4929  |
| 2000 RZ <sub>43</sub>  | 2000 10 14.0 | 01 17.63 +25 44.9 18.0 | -1.09 + 2.1 | 8.1/18.3 | 5046  |
| 1996 VK <sub>4</sub>   | 2000 10 14.0 | 01 17.69 +11 35.8 19.1 | -0.85 - 5.9 | 1.1/15.0 | 4894  |
| 1999 NL <sub>19</sub>  | 2000 10 14.0 | 01 17.84 -09 39.6 19.2 | -0.76 - 4.7 | 5.2/08.3 | 4508  |
| (17730)                | 2000 10 14.1 | 01 17.80 +26 43.9 17.1 | -1.03 - 4.3 | 6.2/19.8 | 4135  |
| 1998 FF <sub>79</sub>  | 2000 10 14.1 | 01 18.14 +00 36.8 18.7 | -0.87 - 5.5 | 2.5/11.8 | 4391  |
| 2000 ST <sub>155</sub> | 2000 10 14.1 | 01 18.15 +11 47.4 17.8 | -1.01 - 2.5 | 1.8/15.1 | 4843  |
| 4257 P-L               | 2000 10 14.1 | 01 18.15 +17 00.7 18.4 | -1.02 - 2.7 | 4.0/16.6 | 5145  |
| 2000 SH <sub>112</sub> | 2000 10 14.1 | 01 18.20 +07 55.8 17.3 | -0.83 - 7.6 | 0.1/14.1 | 4828  |
| 1999 JU <sub>100</sub> | 2000 10 14.1 | 01 18.22 +06 09.6 18.6 | -0.78 -10.1 | 0.7/13.5 | 4494  |
| (18219)                | 2000 10 14.2 | 01 18.15 +21 11.3 16.4 | -0.90 - 1.3 | 3.6/17.9 | 4278  |
| 2000 SD <sub>111</sub> | 2000 10 14.2 | 01 18.17 +05 26.2 17.8 | -0.92 - 6.8 | 1.2/13.3 | 4827  |
| 2000 SN <sub>112</sub> | 2000 10 14.2 | 01 18.36 +09 59.8 18.3 | -1.02 - 2.0 | 0.6/15.0 | 4828  |
| 4246 P-L               | 2000 10 14.2 | 01 18.53 +08 46.0 18.4 | -0.73 - 5.6 | 0.1/14.4 | 4859  |
| 2000 RO <sub>65</sub>  | 2000 10 14.2 | 01 18.55 +06 29.2 16.7 | -0.97 - 1.7 | 0.6/13.8 | 5050  |
| 2000 RU <sub>3</sub>   | 2000 10 14.2 | 01 18.56 -03 55.3 17.9 | -0.75 -13.2 | 5.3/09.7 | 4714  |
| 2000 OS <sub>22</sub>  | 2000 10 14.2 | 01 18.60 +14 24.4 15.8 | -1.25 +10.1 | 3.4/15.1 | 4965  |
| (10872)                | 2000 10 14.3 | 01 18.52 +08 56.8 18.3 | -0.88 - 6.5 | 0.2/14.5 | 34789 |
| (18238)                | 2000 10 14.3 | 01 18.53 +12 24.6 18.6 | -0.86 - 2.5 | 1.3/15.5 | 4284  |
| 2000 OV <sub>20</sub>  | 2000 10 14.3 | 01 18.63 +18 45.2 17.0 | -1.13 + 3.4 | 5.0/16.5 | 4965  |
| 1998 FY <sub>118</sub> | 2000 10 14.3 | 01 18.65 +11 43.4 17.9 | -0.91 - 2.6 | 1.1/15.3 | 4395  |
| (10312)                | 2000 10 14.3 | 01 18.77 +05 15.5 17.2 | -1.01 - 6.1 | 1.3/13.5 | 3858  |
| 2000 PU <sub>26</sub>  | 2000 10 14.3 | 01 18.87 +21 08.0 17.1 | -0.79 - 6.4 | 4.2/18.7 | 4596  |
| (16413)                | 2000 10 14.4 | 01 18.96 +23 42.4 16.7 | -0.80 - 6.0 | 4.4/19.6 | 2826  |
| 2000 QS <sub>123</sub> | 2000 10 14.4 | 01 18.97 +16 23.6 16.3 | -0.89 - 0.5 | 4.1/16.6 | 5011  |
| (16924)                | 2000 10 14.4 | 01 19.05 +14 15.6 15.5 | -0.92 - 1.6 | 2.0/16.1 | 2974  |
| (17465)                | 2000 10 14.4 | 01 19.10 +06 30.7 17.4 | -0.79 - 5.1 | 0.6/13.9 | 4058  |
| (17836)                | 2000 10 14.4 | 01 19.12 +09 26.7 17.8 | -1.01 - 1.2 | 0.4/14.7 | 4167  |
| 1998 HH <sub>138</sub> | 2000 10 14.4 | 01 19.16 -04 38.8 18.3 | -0.83 - 2.4 | 3.9/10.7 | 4914  |
| 2000 QR <sub>131</sub> | 2000 10 14.4 | 01 19.18 -03 38.6 17.7 | -0.79 - 5.6 | 6.1/10.7 | 5013  |
| 1999 JK <sub>35</sub>  | 2000 10 14.4 | 01 19.20 +07 10.9 17.7 | -0.94 - 6.1 | 0.5/14.1 | 4464  |
| 1998 FA <sub>10</sub>  | 2000 10 14.4 | 01 19.25 +21 54.8 18.2 | -1.09 - 0.3 | 4.8/17.9 | 4374  |
| (17371)                | 2000 10 14.4 | 01 19.27 +27 54.4 18.6 | -0.91 - 2.1 | 5.6/20.4 | 4033  |
| (17728)                | 2000 10 14.4 | 01 19.30 +00 50.3 17.5 | -0.92 - 4.9 | 3.2/12.3 | 4135  |
| 1999 GW                | 2000 10 14.4 | 01 19.31 +02 27.9 18.1 | -0.99 - 6.6 | 2.3/12.7 | 4930  |
| 1996 VF <sub>8</sub>   | 2000 10 14.5 | 01 19.38 +02 13.1 16.4 | -1.11 + 1.3 | 2.6/13.1 | 4894  |
| 1989 GU <sub>6</sub>   | 2000 10 14.5 | 01 19.38 -09 28.7 20.8 | -0.86 - 3.1 | 4.6/09.1 | 31950 |
| 1997 AN <sub>14</sub>  | 2000 10 14.5 | 01 19.48 +17 10.0 17.8 | -0.78 - 5.8 | 2.7/17.4 | 4896  |
| 2000 QU <sub>123</sub> | 2000 10 14.5 | 01 19.51 +05 50.0 17.8 | -0.77 -13.8 | 0.9/13.6 | 4647  |
| 1998 HF <sub>87</sub>  | 2000 10 14.5 | 01 19.60 +13 58.3 18.3 | -0.75 - 6.0 | 1.7/16.4 | 4913  |
| (16521)                | 2000 10 14.5 | 01 19.64 -08 14.5 17.9 | -0.80 - 3.3 | 5.5/09.5 | 2858  |
| 1999 FG <sub>25</sub>  | 2000 10 14.5 | 01 19.65 -02 03.1 17.5 | -0.98 - 5.0 | 4.2/11.6 | 4435  |
| 2000 SJ <sub>142</sub> | 2000 10 14.5 | 01 19.66 +12 28.2 17.7 | -0.76 -10.2 | 1.7/16.0 | 4836  |
| 1999 JN <sub>64</sub>  | 2000 10 14.6 | 01 19.73 +15 20.8 18.6 | -1.00 - 5.1 | 2.5/16.7 | 4938  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1981 EM <sub>11</sub>  | 2000 10 14.6 | 01 19.90 +19 39.6 18.4 | -1.03 - 4.9 | 4.5/18.0  | 4300  |
| 1996 QM <sub>1</sub>   | 2000 10 14.6 | 01 20.01 +06 58.1 17.5 | -0.86 - 9.8 | 0.6/14.2  | 4893  |
| 4537 P-L               | 2000 10 14.6 | 01 20.01 +13 44.8 18.1 | -1.10 - 1.0 | 2.6/16.0  | 5145  |
| 1997 AY <sub>6</sub>   | 2000 10 14.6 | 01 20.08 +20 52.1 18.1 | -0.89 - 3.8 | 4.9/18.4  | 4343  |
| (17941)                | 2000 10 14.6 | 01 20.13 -25 41.0 16.7 | -1.35 + 5.4 | 16.3/06.5 | 4198  |
| 2000 RU <sub>71</sub>  | 2000 10 14.7 | 01 20.02 -00 11.7 16.7 | -0.80 - 6.6 | 3.7/11.9  | 4772  |
| 1999 RW <sub>70</sub>  | 2000 10 14.7 | 01 20.04 +13 26.0 19.1 | -0.52 - 2.7 | 0.9/16.4  | 4514  |
| 2000 OG <sub>21</sub>  | 2000 10 14.7 | 01 20.06 +03 22.1 15.8 | -0.96 - 1.6 | 2.5/13.4  | 4965  |
| (10290)                | 2000 10 14.7 | 01 20.08 +06 44.5 16.7 | -1.01 - 4.4 | 0.7/14.2  | 34134 |
| (18017)                | 2000 10 14.7 | 01 20.09 +16 12.0 17.9 | -0.83 - 7.2 | 2.3/17.3  | 4221  |
| 2000 SR <sub>24</sub>  | 2000 10 14.7 | 01 20.12 +21 57.2 18.1 | -1.02 - 2.1 | 4.8/18.5  | 4808  |
| 1990 EH <sub>1</sub>   | 2000 10 14.7 | 01 20.15 +21 30.5 18.0 | -0.95 - 4.3 | 4.2/18.7  | 4307  |
| 2000 PQ <sub>26</sub>  | 2000 10 14.7 | 01 20.27 +18 54.0 17.4 | -0.80 - 8.4 | 3.7/18.4  | 4596  |
| 2000 QB <sub>124</sub> | 2000 10 14.7 | 01 20.32 +07 43.8 16.6 | -1.09 + 0.3 | 12.9/04.0 | 5011  |
| 1996 RR <sub>3</sub>   | 2000 10 14.7 | 01 20.35 +10 29.0 18.5 | -0.98 - 4.3 | 0.8/15.4  | 4893  |
| 1998 BF <sub>17</sub>  | 2000 10 14.7 | 01 20.36 +03 21.4 18.5 | -0.86 - 5.2 | 2.0/13.2  | 4358  |
| 2000 SR <sub>11</sub>  | 2000 10 14.7 | 01 20.36 +07 56.5 16.9 | -0.91 - 4.2 | 0.2/14.6  | 4805  |
| 2000 SZ <sub>20</sub>  | 2000 10 14.7 | 01 20.36 +20 52.3 17.4 | -0.92 - 7.5 | 5.3/19.0  | 4807  |
| 2000 RZ <sub>46</sub>  | 2000 10 14.8 | 01 20.39 +23 53.8 18.1 | -0.96 - 5.2 | 7.8/19.8  | 5047  |
| 2000 OL <sub>48</sub>  | 2000 10 14.8 | 01 20.55 +02 16.4 16.2 | -0.94 - 5.5 | 2.9/13.0  | 4971  |
| 1996 LG                | 2000 10 14.8 | 01 20.62 +20 14.7 16.0 | -0.83 - 8.7 | 5.7/19.0  | 4892  |
| 1996 TW <sub>14</sub>  | 2000 10 14.8 | 01 20.66 +10 48.4 17.2 | -0.94 - 3.5 | 1.0/15.5  | 4337  |
| 2000 RR <sub>68</sub>  | 2000 10 14.8 | 01 20.69 -02 23.6 17.8 | -0.87 - 6.7 | 3.8/11.4  | 4766  |
| 1999 JE <sub>89</sub>  | 2000 10 14.8 | 01 20.75 -20 10.6 17.0 | -0.89 - 0.8 | 11.7/06.6 | 4489  |
| 1999 JA <sub>127</sub> | 2000 10 14.8 | 01 20.79 +21 24.0 18.2 | -0.83 - 9.4 | 4.6/19.5  | 4499  |
| 2000 RQ <sub>65</sub>  | 2000 10 14.9 | 01 20.75 +10 46.0 16.9 | -1.15 - 2.6 | 1.1/15.5  | 4763  |
| 2000 OE <sub>21</sub>  | 2000 10 14.9 | 01 20.96 +05 09.4 17.3 | -0.71 - 6.9 | 1.2/13.8  | 4580  |
| 2000 SR <sub>145</sub> | 2000 10 14.9 | 01 20.99 +10 02.2 17.1 | -0.76 - 5.0 | 0.4/15.4  | 4837  |
| (11114)                | 2000 10 14.9 | 01 21.07 +17 38.0 17.7 | -0.74 - 6.7 | 2.7/18.1  | 35241 |
| (16616)                | 2000 10 14.9 | 01 21.10 +09 02.7 16.9 | -0.81 - 5.4 | 8.4/04.0  | 2885  |
| 1995 VV <sub>13</sub>  | 2000 10 14.9 | 01 21.15 +03 20.9 19.5 | -0.76 - 5.3 | 1.6/13.3  | 31544 |
| 1998 FH <sub>62</sub>  | 2000 10 14.9 | 01 21.17 +12 23.3 18.9 | -0.90 - 5.3 | 1.4/16.2  | 4386  |
| 2000 SB <sub>112</sub> | 2000 10 15.0 | 01 21.24 +06 45.8 17.7 | -0.85 - 6.2 | 0.9/14.5  | 4827  |
| 1997 EU <sub>17</sub>  | 2000 10 15.0 | 01 21.34 +25 23.4 17.2 | -0.87 - 2.0 | 4.9/20.1  | 4896  |
| (11203)                | 2000 10 15.0 | 01 21.34 +01 46.3 17.1 | -1.01 - 4.1 | 2.8/13.2  | 35263 |
| (16866)                | 2000 10 15.0 | 01 21.37 +13 32.2 16.2 | -1.01 - 4.2 | 1.9/16.5  | 2957  |
| (16650)                | 2000 10 15.0 | 01 21.38 +11 46.0 15.2 | -1.12 - 0.7 | 1.5/15.8  | 2896  |
| (18045)                | 2000 10 15.0 | 01 21.45 +30 25.5 17.4 | -0.81 - 4.3 | 5.6/22.4  | 4228  |
| 1995 DS <sub>5</sub>   | 2000 10 15.0 | 01 21.52 +21 03.6 16.4 | -1.06 - 4.7 | 5.2/18.8  | 4890  |
| 5090 T-3               | 2000 10 15.0 | 01 21.53 -05 49.9 18.8 | -0.86 - 3.3 | 4.5/10.8  | 32344 |
| 2000 PO <sub>22</sub>  | 2000 10 15.0 | 01 21.56 +15 42.8 17.2 | -0.98 - 1.7 | 2.7/17.0  | 4977  |
| (17937)                | 2000 10 15.1 | 01 21.49 +08 39.6 16.5 | -0.80 - 7.5 | 0.0/15.1  | 4197  |
| 2167 T-2               | 2000 10 15.1 | 01 21.64 +06 45.0 18.8 | -0.95 - 9.1 | 0.8/14.5  | 5146  |
| (10796)                | 2000 10 15.1 | 01 21.65 +06 59.8 16.4 | -0.94 - 6.5 | 0.8/14.6  | 3858  |
| 1994 SE <sub>7</sub>   | 2000 10 15.1 | 01 21.72 +07 43.7 20.0 | -0.73 - 4.0 | 0.2/14.9  | 33244 |
| 1988 LG                | 2000 10 15.2 | 01 21.87 -15 54.2 16.1 | -1.08 + 1.9 | 10.6/09.5 | 4881  |
| (16540)                | 2000 10 15.2 | 01 21.89 -04 50.0 17.4 | -0.79 - 7.9 | 4.5/10.7  | 2863  |
| 1993 FK <sub>35</sub>  | 2000 10 15.2 | 01 21.89 +06 31.6 18.3 | -0.84 - 3.2 | 0.7/14.6  | 4314  |
| (10921)                | 2000 10 15.2 | 01 21.90 +15 15.4 16.2 | -1.04 - 2.3 | 3.2/17.0  | 3859  |
| 1998 DN <sub>37</sub>  | 2000 10 15.2 | 01 21.95 +02 18.9 17.9 | -0.79 - 5.0 | 2.2/13.2  | 4904  |
| (10696)                | 2000 10 15.2 | 01 22.03 +04 35.0 16.5 | -0.91 - 7.0 | 1.7/14.0  | 34743 |

|                        |              |                        |             |           |       |                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|------------------------|--------------|------------------------|-------------|----------|-------|
| 2000 SX <sub>301</sub> | 2000 10 15.2 | 01 22.12 +13 02.4 18.1 | -0.99 - 5.4 | 1.8/16.6  | 4854  | 1999 GL <sub>21</sub>  | 2000 10 15.8 | 01 24.24 +04 45.4 16.3 | -1.04 - 2.4 | 1.6/14.8 | 4442  |
| 2000 RM <sub>65</sub>  | 2000 10 15.2 | 01 22.14 -01 23.5 18.5 | -0.80 - 7.9 | 5.1/11.9  | 4763  | 1998 HK <sub>52</sub>  | 2000 10 15.8 | 01 24.33 -02 24.5 19.3 | -0.76 - 2.8 | 2.8/12.5 | 4912  |
| 1998 AL <sub>7</sub>   | 2000 10 15.2 | 01 22.16 +10 04.8 17.8 | -0.94 - 6.0 | 0.5/15.7  | 4900  | 1981 ET <sub>30</sub>  | 2000 10 15.8 | 01 24.33 +03 34.4 19.0 | -0.91 - 8.0 | 2.0/14.2 | 4880  |
| 1998 KP <sub>9</sub>   | 2000 10 15.2 | 01 22.17 +05 37.0 17.5 | -1.04 - 0.8 | 1.0/14.5  | 4412  | 2000 SG <sub>146</sub> | 2000 10 15.8 | 01 24.47 +12 56.3 19.3 | -0.85 - 5.1 | 1.4/17.1 | 4837  |
| 2000 SU <sub>174</sub> | 2000 10 15.2 | 01 22.24 +23 33.3 18.8 | -0.85 - 5.6 | 4.3/20.1  | 4846  | (18143)                | 2000 10 15.8 | 01 24.47 -06 28.2 17.2 | -0.66 -10.9 | 6.0/10.0 | 4257  |
| (10972)                | 2000 10 15.2 | 01 22.28 +11 09.2 17.5 | -0.92 - 6.1 | 0.9/16.1  | 4878  | 1996 SM                | 2000 10 15.8 | 01 24.48 +10 38.3 19.1 | -1.01 - 3.4 | 0.6/16.4 | 4893  |
| 2000 SH <sub>303</sub> | 2000 10 15.2 | 01 22.32 +12 56.7 18.4 | -0.88 - 6.5 | 1.5/16.6  | 4855  | 1998 FL <sub>53</sub>  | 2000 10 15.9 | 01 24.56 +10 15.9 18.2 | -0.81 - 5.1 | 0.5/16.3 | 4383  |
| 1998 FN <sub>78</sub>  | 2000 10 15.2 | 01 22.33 +03 20.9 17.4 | -1.04 - 0.6 | 1.9/14.0  | 32070 | (17650)                | 2000 10 15.9 | 01 24.67 +14 18.7 16.3 | -0.73 -13.8 | 2.2/18.0 | 4112  |
| 1997 YS <sub>17</sub>  | 2000 10 15.2 | 01 22.33 +13 21.0 18.8 | -1.00 - 5.0 | 1.9/16.7  | 4355  | 7607 P-L               | 2000 10 15.9 | 01 24.72 +01 53.8 17.4 | -0.94 - 5.2 | 3.2/13.9 | 5146  |
| 1994 PQ <sub>5</sub>   | 2000 10 15.3 | 01 22.28 +03 44.9 17.9 | -0.74 - 6.2 | 1.5/13.7  | 4322  | 2000 SL <sub>113</sub> | 2000 10 15.9 | 01 24.76 +04 58.1 17.5 | -0.93 - 8.3 | 1.6/14.7 | 4829  |
| (10960)                | 2000 10 15.3 | 01 22.32 +03 18.6 17.5 | -1.03 - 4.8 | 2.1/13.8  | 34812 | 1998 FO <sub>18</sub>  | 2000 10 15.9 | 01 24.76 +08 34.0 17.6 | -0.91 - 6.4 | 0.1/15.9 | 4376  |
| 1999 NG <sub>18</sub>  | 2000 10 15.3 | 01 22.37 -26 18.5 17.2 | -0.80 - 1.5 | 9.7/03.7  | 4944  | 1998 EP <sub>12</sub>  | 2000 10 15.9 | 01 24.83 +01 27.5 17.8 | -0.85 - 3.7 | 2.5/13.8 | 4372  |
| (17430)                | 2000 10 15.3 | 01 22.45 -15 13.1 17.0 | -0.87 - 1.8 | 7.2/08.4  | 4048  | (10799)                | 2000 10 15.9 | 01 24.89 -00 04.6 15.8 | -0.81 - 5.8 | 4.1/13.2 | 3858  |
| 1999 JL <sub>82</sub>  | 2000 10 15.3 | 01 22.59 -18 40.4 16.2 | -0.91 + 0.5 | 12.2/07.8 | 4939  | 1998 DO <sub>2</sub>   | 2000 10 15.9 | 01 24.93 -01 36.2 17.7 | -0.88 - 0.9 | 3.3/13.2 | 4364  |
| 1999 JC <sub>83</sub>  | 2000 10 15.3 | 01 22.67 +03 26.1 18.5 | -0.91 - 8.1 | 1.9/13.7  | 4488  | 1999 JW <sub>95</sub>  | 2000 10 16.0 | 01 24.85 +04 52.0 19.7 | -0.88 - 9.0 | 1.3/14.7 | 4492  |
| 1258 T-1               | 2000 10 15.3 | 01 22.69 +07 07.3 19.8 | -0.94 - 7.6 | 0.5/14.9  | 5146  | 2000 QP <sub>127</sub> | 2000 10 16.0 | 01 24.96 +18 15.4 16.3 | -0.99 + 0.9 | 3.5/18.3 | 5012  |
| 2000 SD <sub>205</sub> | 2000 10 15.4 | 01 22.68 +08 47.9 18.7 | -0.69 - 7.5 | 0.0/15.4  | 4849  | (10510)                | 2000 10 16.0 | 01 24.99 +06 37.4 17.6 | -0.96 - 8.0 | 0.9/15.3 | 34439 |
| 2000 SJ <sub>113</sub> | 2000 10 15.4 | 01 22.72 +05 42.3 17.8 | -0.99 - 6.1 | 1.2/14.5  | 4828  | 1999 JS <sub>64</sub>  | 2000 10 16.0 | 01 24.99 +08 53.3 16.8 | -0.77 - 8.4 | 0.0/16.0 | 4479  |
| 1997 AC <sub>6</sub>   | 2000 10 15.4 | 01 22.72 +04 45.5 17.7 | -0.84 - 4.0 | 1.4/14.3  | 4896  | 1998 DA <sub>3</sub>   | 2000 10 16.0 | 01 25.00 -01 10.6 18.0 | -0.90 - 6.4 | 4.3/12.8 | 4902  |
| 1993 FP <sub>12</sub>  | 2000 10 15.4 | 01 22.73 +00 39.2 17.7 | -0.83 - 7.7 | 2.8/12.7  | 4313  | (17372)                | 2000 10 16.0 | 01 25.00 +11 36.3 17.5 | -0.79 -10.4 | 0.9/17.0 | 4033  |
| (17648)                | 2000 10 15.4 | 01 22.86 +11 51.5 16.2 | -0.74 -12.7 | 1.3/16.6  | 4111  | 1998 DF <sub>33</sub>  | 2000 10 16.0 | 01 25.11 +05 07.7 16.7 | -1.04 - 1.3 | 1.7/15.1 | 4368  |
| 2000 SW <sub>44</sub>  | 2000 10 15.4 | 01 22.95 +13 45.0 16.9 | -0.91 - 7.8 | 2.4/17.1  | 4813  | 1999 JQ <sub>125</sub> | 2000 10 16.0 | 01 25.17 -00 54.6 17.7 | -0.95 - 5.6 | 3.5/13.1 | 4499  |
| 1998 FN <sub>101</sub> | 2000 10 15.4 | 01 23.02 +10 17.9 18.7 | -0.81 - 9.2 | 0.5/16.0  | 4393  | (11554)                | 2000 10 16.0 | 01 25.24 -08 03.0 17.7 | -0.48 - 3.0 | 2.9/10.3 | 35846 |
| 1998 FP <sub>78</sub>  | 2000 10 15.5 | 01 22.99 +01 32.3 18.2 | -0.86 - 1.1 | 2.2/13.6  | 4390  | 1996 RK <sub>11</sub>  | 2000 10 16.1 | 01 25.26 +08 30.8 18.0 | -0.91 - 4.0 | 0.2/16.0 | 4893  |
| 2000 SM <sub>113</sub> | 2000 10 15.5 | 01 23.04 +05 18.6 18.5 | -0.75 - 4.6 | 1.0/14.4  | 4829  | 1998 DG <sub>2</sub>   | 2000 10 16.1 | 01 25.32 +02 47.7 17.5 | -1.00 - 1.8 | 2.2/14.5 | 4364  |
| 1999 JK <sub>43</sub>  | 2000 10 15.5 | 01 23.12 +20 20.3 18.0 | -0.87 - 8.0 | 3.7/19.5  | 4467  | 1995 CM                | 2000 10 16.1 | 01 25.32 +08 43.0 17.9 | -1.01 - 4.3 | 0.1/16.1 | 4890  |
| (17105)                | 2000 10 15.5 | 01 23.13 +19 23.9 16.0 | -0.83 -11.0 | 3.8/19.4  | 3028  | 2000 RR <sub>65</sub>  | 2000 10 16.1 | 01 25.37 +11 30.0 16.4 | -1.04 - 0.1 | 1.0/16.7 | 4763  |
| 2000 OW <sub>20</sub>  | 2000 10 15.5 | 01 23.14 +16 50.1 16.7 | -1.03 - 2.2 | 3.7/17.7  | 4580  | 1998 BZ <sub>3</sub>   | 2000 10 16.1 | 01 25.43 +14 26.6 19.1 | -0.89 - 5.3 | 1.7/17.8 | 4901  |
| 1981 EP <sub>18</sub>  | 2000 10 15.5 | 01 23.21 +05 15.1 19.8 | -0.70 - 5.9 | 0.9/14.4  | 4880  | 2000 OV <sub>50</sub>  | 2000 10 16.1 | 01 25.44 +02 04.2 16.5 | -0.99 + 0.8 | 3.6/14.5 | 4972  |
| 1998 HO <sub>90</sub>  | 2000 10 15.5 | 01 23.21 +08 38.6 16.9 | -0.67 -10.7 | 0.0/15.5  | 4913  | 1998 EB <sub>2</sub>   | 2000 10 16.1 | 01 25.51 +08 17.8 16.5 | -0.83 - 4.0 | 0.2/16.0 | 4369  |
| 2000 PP <sub>7</sub>   | 2000 10 15.5 | 01 23.45 -02 51.4 17.2 | -1.11 + 8.5 | 6.4/13.9  | 4975  | (18038)                | 2000 10 16.1 | 01 25.54 +16 13.4 17.8 | -0.73 - 6.4 | 2.1/18.6 | 4227  |
| (17933)                | 2000 10 15.6 | 01 23.36 +15 12.3 17.6 | -1.00 - 8.0 | 2.5/17.7  | 4196  | 1994 AA <sub>4</sub>   | 2000 10 16.1 | 01 25.64 -00 25.0 18.1 | -0.99 - 5.3 | 3.8/13.4 | 4320  |
| 1994 LJ <sub>1</sub>   | 2000 10 15.6 | 01 23.50 -08 49.8 17.7 | -0.87 - 3.3 | 5.1/10.4  | 4889  | 1999 JM <sub>70</sub>  | 2000 10 16.2 | 01 25.62 +06 13.6 18.7 | -0.87 - 7.0 | 1.0/15.3 | 4938  |
| 1998 FL <sub>34</sub>  | 2000 10 15.6 | 01 23.54 +09 52.4 17.7 | -0.82 - 6.3 | 0.4/16.0  | 4906  | (16939)                | 2000 10 16.2 | 01 25.73 +05 43.7 17.2 | -0.79 - 6.6 | 1.1/15.2 | 2979  |
| 2000 SU <sub>112</sub> | 2000 10 15.6 | 01 23.56 +07 57.3 18.0 | -0.76 - 4.8 | 0.3/15.4  | 4828  | 1997 XD <sub>9</sub>   | 2000 10 16.2 | 01 25.90 -03 36.7 19.0 | -0.78 - 5.7 | 3.5/12.2 | 4899  |
| (16920)                | 2000 10 15.6 | 01 23.56 +01 01.0 17.8 | -0.81 - 5.9 | 2.7/13.2  | 2973  | 1999 JM <sub>88</sub>  | 2000 10 16.2 | 01 25.93 -05 28.7 18.0 | -0.95 - 4.9 | 5.5/12.0 | 4940  |
| (16421)                | 2000 10 15.6 | 01 23.61 +53 22.8 17.5 | -1.77 + 0.9 | 19.0/30.6 | 2828  | 1995 UC <sub>9</sub>   | 2000 10 16.2 | 01 25.93 +07 48.6 18.6 | -0.82 - 4.1 | 0.4/15.9 | 4891  |
| 1998 FZ <sub>121</sub> | 2000 10 15.6 | 01 23.63 -00 53.3 17.0 | -0.72 - 7.2 | 3.2/12.4  | 4911  | 1993 KC                | 2000 10 16.2 | 01 25.99 +27 18.2 19.3 | -1.10 -17.4 | 6.6/23.5 | 4315  |
| 1998 HM <sub>33</sub>  | 2000 10 15.6 | 01 23.63 +15 29.8 17.1 | -0.94 - 1.3 | 2.2/17.5  | 4912  | (16458)                | 2000 10 16.2 | 01 26.04 +08 29.9 16.2 | -0.93 - 0.1 | 0.2/16.2 | 2840  |
| 1997 VB <sub>6</sub>   | 2000 10 15.6 | 01 23.70 +11 45.6 16.8 | -0.95 - 6.7 | 1.4/16.6  | 4352  | (10729)                | 2000 10 16.3 | 01 26.02 +14 42.0 16.5 | -1.04 - 1.7 | 2.3/17.8 | 3858  |
| 1999 JH <sub>3</sub>   | 2000 10 15.6 | 01 23.74 -01 25.7 17.7 | -0.93 - 4.5 | 3.6/12.7  | 4933  | (10711)                | 2000 10 16.3 | 01 26.07 +14 01.2 15.0 | -1.09 + 1.3 | 2.1/17.5 | 34747 |
| 2000 SE <sub>46</sub>  | 2000 10 15.6 | 01 23.75 +36 06.8 18.0 | -1.03 - 2.5 | 10.3/24.3 | 4813  | 1999 JW <sub>51</sub>  | 2000 10 16.3 | 01 26.15 +07 28.5 19.3 | -0.99 - 4.8 | 0.5/15.9 | 4472  |
| (10508)                | 2000 10 15.6 | 01 23.80 +06 45.0 17.4 | -0.91 - 6.5 | 0.8/15.1  | 3858  | (17459)                | 2000 10 16.3 | 01 26.15 +04 40.3 17.3 | -1.09 - 3.3 | 1.7/15.2 | 4057  |
| 1999 NR <sub>38</sub>  | 2000 10 15.7 | 01 23.73 +15 51.1 17.6 | -0.88 - 3.1 | 2.1/17.7  | 4944  | 2000 QO <sub>150</sub> | 2000 10 16.3 | 01 26.27 +20 17.3 16.6 | -0.94 - 5.5 | 5.5/20.0 | 5018  |
| 2000 SZ <sub>257</sub> | 2000 10 15.7 | 01 23.86 +11 16.8 18.6 | -0.83 - 4.4 | 0.9/16.5  | 4852  | 2000 PS <sub>7</sub>   | 2000 10 16.3 | 01 26.39 -14 53.9 16.9 | -0.80 - 4.2 | 8.4/08.6 | 4975  |
| 1998 HK <sub>17</sub>  | 2000 10 15.7 | 01 23.90 +12 33.7 16.7 | -0.82 - 6.0 | 1.3/16.9  | 4400  | (17586)                | 2000 10 16.3 | 01 26.44 +07 59.3 17.7 | -1.05 - 4.6 | 0.5/16.1 | 4093  |
| 1998 BJ                | 2000 10 15.7 | 01 23.93 +23 29.7 16.4 | -0.91 - 5.4 | 7.3/20.4  | 4900  | (17942)                | 2000 10 16.4 | 01 26.35 +03 45.1 18.1 | -0.91 - 6.6 | 1.9/14.8 | 4199  |
| (16377)                | 2000 10 15.7 | 01 23.96 +19 20.2 17.6 | -1.08 - 3.2 | 4.6/18.6  | 2816  | 1999 CS <sub>149</sub> | 2000 10 16.4 | 01 26.38 +19 05.4 19.0 | -1.15 - 3.5 | 3.9/19.2 | 4431  |
| 1998 BJ <sub>2</sub>   | 2000 10 15.7 | 01 24.02 +06 47.6 18.9 | -0.92 - 6.1 | 0.7/15.1  | 4901  | 4875 P-L               | 2000 10 16.4 | 01 26.40 +05 58.9 17.5 | -1.01 - 4.5 | 1.2/15.5 | 4861  |
| 1992 WP                | 2000 10 15.8 | 01 24.16 -07 47.7 16.9 | -1.06 + 2.1 | 7.5/12.0  | 4885  | (10884)                | 2000 10 16.4 | 01 26.54 +01 24.5 16.0 | -0.85 - 5.0 | 3.1/14.1 | 34792 |
| 2000 OJ <sub>48</sub>  | 2000 10 15.8 | 01 24.19 +03 46.2 17.6 | -0.82 - 6.1 | 2.4/14.2  | 4971  | 2000 SO <sub>146</sub> | 2000 10 16.4 | 01 26.63 +12 46.5 17.8 | -1.06 - 3.4 | 1.6/17.5 | 4837  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1998 DN <sub>12</sub>  | 2000 10 16.5 | 01 26.72 +02 27.2 18.6 | -0.88 - 4.6 | 2.6/14.5  | 4365  |
| 1999 DY <sub>6</sub>   | 2000 10 16.5 | 01 26.76 -06 56.3 17.5 | -1.01 - 1.0 | 5.6/12.5  | 4927  |
| 2000 QW <sub>123</sub> | 2000 10 16.5 | 01 26.93 -02 10.9 16.6 | -0.86 -23.3 | 4.9/11.9  | 4647  |
| (17497)                | 2000 10 16.5 | 01 27.03 +04 11.2 18.2 | -0.76 - 4.6 | 1.6/15.0  | 4068  |
| 2000 SS <sub>112</sub> | 2000 10 16.5 | 01 27.03 +09 15.1 16.8 | -0.81 - 3.6 | 0.0/16.6  | 4828  |
| 1995 FT <sub>19</sub>  | 2000 10 16.5 | 01 27.11 +08 47.9 19.2 | -0.99 - 4.7 | 0.1/16.5  | 4890  |
| 1996 SC <sub>7</sub>   | 2000 10 16.6 | 01 27.12 +06 03.3 16.2 | -1.11 + 2.5 | 1.4/16.0  | 4893  |
| 1999 GS <sub>21</sub>  | 2000 10 16.6 | 01 27.12 -03 47.9 18.3 | -1.00 - 4.6 | 5.1/12.9  | 4931  |
| 1999 JM <sub>103</sub> | 2000 10 16.6 | 01 27.20 +01 39.9 18.8 | -0.95 - 7.9 | 3.1/14.3  | 4941  |
| 2000 SV <sub>113</sub> | 2000 10 16.6 | 01 27.24 +05 53.1 18.0 | -0.84 - 2.3 | 1.0/15.7  | 4829  |
| (18262)                | 2000 10 16.6 | 01 27.37 +23 50.6 18.7 | -0.85 - 4.6 | 4.2/21.4  | 4291  |
| 2000 SS <sub>114</sub> | 2000 10 16.6 | 01 27.38 +09 31.7 17.6 | -1.00 - 0.3 | 0.2/16.8  | 4829  |
| (17543)                | 2000 10 16.6 | 01 27.38 +35 27.2 18.5 | -0.87 - 2.9 | 6.6/25.3  | 4081  |
| 1981 EY <sub>23</sub>  | 2000 10 16.6 | 01 27.39 -00 24.8 19.4 | -0.80 - 7.7 | 3.1/13.5  | 34823 |
| (17478)                | 2000 10 16.6 | 01 27.47 -17 17.2 17.3 | -0.95 - 1.1 | 10.0/09.4 | 4062  |
| (17403)                | 2000 10 16.7 | 01 27.47 +12 45.8 16.3 | -0.98 - 3.1 | 1.4/17.7  | 4042  |
| 1998 DR <sub>13</sub>  | 2000 10 16.7 | 01 27.48 +06 32.5 18.1 | -0.84 - 4.1 | 0.9/15.9  | 4365  |
| 1996 TY <sub>64</sub>  | 2000 10 16.7 | 01 27.48 +09 34.4 19.4 | -0.92 - 5.4 | 0.2/16.8  | 4894  |
| (18225)                | 2000 10 16.7 | 01 27.50 +10 36.7 16.6 | -0.78 -11.7 | 0.6/17.2  | 4280  |
| 1999 GL <sub>1</sub>   | 2000 10 16.7 | 01 27.60 +02 26.4 19.5 | -0.90 - 5.1 | 2.1/14.7  | 3906  |
| 1999 JK <sub>102</sub> | 2000 10 16.7 | 01 27.64 +02 12.7 16.9 | -0.79 - 9.8 | 3.2/14.3  | 4941  |
| 1998 AY                | 2000 10 16.7 | 01 27.70 +01 55.1 20.3 | -0.98 - 5.4 | 2.7/14.6  | 32255 |
| 2000 QQ <sub>127</sub> | 2000 10 16.7 | 01 27.75 +14 44.2 16.9 | -1.15 + 0.9 | 2.7/18.0  | 5012  |
| 1999 RK <sub>134</sub> | 2000 10 16.7 | 01 27.88 +17 31.1 17.2 | -0.65 - 4.1 | 2.0/19.5  | 4517  |
| 1998 DR                | 2000 10 16.8 | 01 27.86 -01 54.9 17.8 | -0.86 - 3.9 | 4.2/13.6  | 4902  |
| 3358 T-3               | 2000 10 16.8 | 01 27.94 +09 36.8 17.7 | -0.99 - 4.4 | 0.2/16.9  | 23989 |
| 1996 YA <sub>1</sub>   | 2000 10 16.8 | 01 27.98 +03 38.2 18.2 | -0.80 - 4.4 | 1.8/15.1  | 4895  |
| 1996 XB <sub>24</sub>  | 2000 10 16.8 | 01 27.99 +03 38.9 19.0 | -0.92 - 3.1 | 2.6/15.3  | 4341  |
| 1998 FL <sub>23</sub>  | 2000 10 16.8 | 01 28.02 +12 33.7 18.9 | -1.08 - 3.0 | 1.4/17.7  | 4377  |
| (10834)                | 2000 10 16.8 | 01 28.02 +11 51.5 17.0 | -1.05 - 3.5 | 1.0/17.6  | 4878  |
| 1992 OO <sub>2</sub>   | 2000 10 16.8 | 01 28.08 +07 19.7 19.2 | -0.94 - 5.9 | 0.7/16.3  | 4885  |
| (17466)                | 2000 10 16.8 | 01 28.11 -04 19.1 17.9 | -0.97 - 5.5 | 5.1/12.8  | 4059  |
| 1999 JG <sub>50</sub>  | 2000 10 16.8 | 01 28.12 +01 43.9 18.4 | -0.98 - 6.3 | 2.9/14.6  | 4470  |
| 2000 QT <sub>150</sub> | 2000 10 16.8 | 01 28.25 +25 51.1 17.0 | -1.07 0.0   | 6.5/21.1  | 5018  |
| 2000 SB <sub>143</sub> | 2000 10 16.9 | 01 28.20 +13 52.1 17.4 | -0.96 - 5.6 | 2.2/18.3  | 4836  |
| 1994 JM <sub>6</sub>   | 2000 10 16.9 | 01 28.30 +03 07.1 18.0 | -0.89 - 3.2 | 2.1/15.2  | 4889  |
| 2000 SY <sub>146</sub> | 2000 10 16.9 | 01 28.43 +10 35.1 19.4 | -0.97 - 5.3 | 0.6/17.3  | 4838  |
| 1999 JA <sub>50</sub>  | 2000 10 16.9 | 01 28.45 +07 07.3 17.8 | -0.85 - 7.1 | 0.7/16.3  | 4470  |
| 1996 YR <sub>2</sub>   | 2000 10 16.9 | 01 28.46 +23 22.7 18.2 | -0.93 - 3.8 | 5.0/21.2  | 4342  |
| (17637)                | 2000 10 16.9 | 01 28.62 -04 38.6 17.3 | -0.86 - 6.1 | 6.1/12.6  | 4108  |
| 1998 FQ <sub>70</sub>  | 2000 10 16.9 | 01 28.63 +07 31.0 17.4 | -0.92 - 2.7 | 0.7/16.5  | 4909  |
| 1981 EF <sub>9</sub>   | 2000 10 17.0 | 01 28.58 +16 11.9 17.5 | -1.00 - 6.0 | 2.5/19.1  | 4300  |
| 2000 RY <sub>78</sub>  | 2000 10 17.0 | 01 28.66 +12 00.4 16.8 | -0.77 - 9.4 | 1.0/18.0  | 4781  |
| 1998 HJ <sub>80</sub>  | 2000 10 17.0 | 01 28.67 +09 20.2 19.0 | -0.78 - 3.2 | 0.0/17.0  | 4913  |
| (17619)                | 2000 10 17.0 | 01 28.68 +15 27.3 16.3 | -0.75 - 6.5 | 1.8/19.1  | 4103  |
| 1999 FH <sub>8</sub>   | 2000 10 17.0 | 01 28.72 +33 25.0 17.9 | -1.80 + 5.5 | 11.7/21.2 | 4928  |
| 2000 SF <sub>147</sub> | 2000 10 17.0 | 01 28.76 +10 01.1 18.1 | -0.84 - 4.3 | 0.2/17.3  | 4838  |
| 1999 JA <sub>81</sub>  | 2000 10 17.0 | 01 28.77 -14 09.3 18.4 | -0.88 - 3.4 | 7.5/10.0  | 35464 |
| 2000 SQ <sub>146</sub> | 2000 10 17.0 | 01 28.82 +11 00.2 17.6 | -0.98 - 9.0 | 0.7/17.6  | 4838  |
| 2000 SC <sub>143</sub> | 2000 10 17.0 | 01 28.84 +14 42.1 17.4 | -1.06 - 4.1 | 2.4/18.6  | 4836  |
| 1998 DX <sub>1</sub>   | 2000 10 17.0 | 01 28.89 -10 09.9 19.3 | -0.90 - 4.7 | 7.7/11.0  | 4902  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| (17303)                | 2000 10 17.0 | 01 28.92 +03 13.3 18.3 | -0.91 - 8.6 | 2.6/15.1  | 3083  |
| (17800)                | 2000 10 17.0 | 01 28.92 +06 47.1 16.1 | -0.71 - 8.5 | 0.8/16.2  | 4156  |
| 2000 OL <sub>50</sub>  | 2000 10 17.1 | 01 29.02 +00 39.8 17.5 | -0.96 - 3.1 | 3.5/14.8  | 4587  |
| 2000 SJ <sub>114</sub> | 2000 10 17.1 | 01 29.02 +06 24.9 18.7 | -0.84 - 3.7 | 1.1/16.3  | 4829  |
| (17551)                | 2000 10 17.1 | 01 29.04 +01 53.4 17.8 | -1.07 - 2.3 | 2.8/15.2  | 4083  |
| (16746)                | 2000 10 17.1 | 01 29.07 +11 53.9 16.1 | -0.91 - 4.3 | 1.2/17.9  | 2922  |
| 1999 JS <sub>51</sub>  | 2000 10 17.1 | 01 29.08 +09 24.8 17.3 | -0.97 - 7.0 | 0.0/17.2  | 4471  |
| 2000 SF <sub>115</sub> | 2000 10 17.1 | 01 29.10 +10 01.8 17.9 | -1.08 + 0.1 | 0.3/17.3  | 4830  |
| 2000 SR <sub>205</sub> | 2000 10 17.1 | 01 29.13 +09 28.7 18.2 | -0.99 - 4.7 | 0.1/17.2  | 4849  |
| 2000 RB <sub>47</sub>  | 2000 10 17.1 | 01 29.14 +23 04.5 17.4 | -1.13 + 0.5 | 5.5/20.5  | 4750  |
| (17431)                | 2000 10 17.1 | 01 29.16 +20 47.4 16.9 | -1.07 - 4.3 | 4.7/20.5  | 4049  |
| 1996 AR <sub>3</sub>   | 2000 10 17.1 | 01 29.20 +05 07.1 17.1 | -0.75 - 4.3 | 1.5/15.9  | 4331  |
| (10971)                | 2000 10 17.1 | 01 29.23 +09 51.3 18.4 | -0.93 - 6.1 | 0.2/17.3  | 34815 |
| 1998 FZ <sub>59</sub>  | 2000 10 17.2 | 01 29.33 +11 58.4 17.8 | -0.90 - 1.9 | 0.8/17.9  | 4385  |
| 2000 SB <sub>169</sub> | 2000 10 17.2 | 01 29.37 +16 10.4 17.9 | -0.90 - 8.6 | 2.6/19.5  | 4845  |
| 2000 SW <sub>146</sub> | 2000 10 17.2 | 01 29.47 +10 27.7 18.1 | -0.89 - 6.7 | 0.5/17.6  | 4838  |
| 1999 JX <sub>1</sub>   | 2000 10 17.2 | 01 29.48 -02 31.4 18.0 | -0.89 - 6.7 | 4.9/13.5  | 4933  |
| (10742)                | 2000 10 17.2 | 01 29.55 -02 27.4 16.1 | -0.93 - 2.1 | 5.0/14.0  | 34755 |
| 1994 PL <sub>10</sub>  | 2000 10 17.2 | 01 29.55 +13 30.6 17.6 | -0.81 - 4.2 | 1.4/18.5  | 4322  |
| (16790)                | 2000 10 17.2 | 01 29.59 +14 18.2 18.9 | -0.87 - 5.0 | 1.6/18.8  | 2934  |
| (18176)                | 2000 10 17.2 | 01 29.59 +04 33.1 17.5 | -0.86 - 5.2 | 2.0/15.8  | 4266  |
| 2000 SW <sub>189</sub> | 2000 10 17.2 | 01 29.67 +21 34.8 19.1 | -0.76 - 5.8 | 3.2/21.3  | 4848  |
| 1998 HS <sub>115</sub> | 2000 10 17.2 | 01 29.74 -10 11.1 17.1 | -0.78 - 3.0 | 6.4/11.3  | 4913  |
| 1993 FW <sub>16</sub>  | 2000 10 17.3 | 01 29.73 +05 46.3 18.2 | -0.82 - 4.0 | 1.2/16.2  | 32050 |
| 1997 WJ <sub>36</sub>  | 2000 10 17.3 | 01 29.84 +09 14.8 16.0 | -0.99 - 5.7 | 0.1/17.3  | 4898  |
| 2000 QQ <sub>150</sub> | 2000 10 17.3 | 01 29.85 +20 37.2 16.8 | -0.91 - 2.3 | 3.9/20.5  | 5018  |
| (17366)                | 2000 10 17.3 | 01 29.89 +10 39.9 17.7 | -0.81 - 4.6 | 0.4/17.7  | 4031  |
| (10348)                | 2000 10 17.3 | 01 29.89 +09 25.4 16.6 | -1.09 - 3.0 | 0.0/17.3  | 34147 |
| 1998 ED <sub>8</sub>   | 2000 10 17.3 | 01 29.90 +05 04.4 18.1 | -0.85 - 5.2 | 1.5/16.0  | 4370  |
| 1999 JB <sub>73</sub>  | 2000 10 17.3 | 01 29.92 +06 58.0 18.6 | -0.92 - 8.7 | 0.9/16.6  | 4938  |
| (17761)                | 2000 10 17.3 | 01 29.98 +04 57.5 18.6 | -0.82 - 5.6 | 1.4/16.0  | 4144  |
| (18247)                | 2000 10 17.3 | 01 30.10 +08 15.5 17.1 | -1.05 - 3.7 | 0.5/17.1  | 4287  |
| 1998 FU <sub>60</sub>  | 2000 10 17.4 | 01 30.22 +06 58.3 18.8 | -0.83 - 5.8 | 0.7/16.7  | 4908  |
| 2000 SK <sub>115</sub> | 2000 10 17.4 | 01 30.30 +10 22.4 17.4 | -1.14 - 1.5 | 0.4/17.7  | 4830  |
| 2000 ST <sub>306</sub> | 2000 10 17.4 | 01 30.31 +16 45.4 18.1 | -0.83 - 5.5 | 2.3/19.7  | 4855  |
| 2000 RS <sub>73</sub>  | 2000 10 17.4 | 01 30.31 +02 09.3 18.2 | -0.77 - 8.5 | 2.3/15.0  | 4776  |
| 1999 FJ <sub>7</sub>   | 2000 10 17.4 | 01 30.32 -16 24.7 17.9 | -0.93 -16.0 | 10.7/07.1 | 4433  |
| (17740)                | 2000 10 17.4 | 01 30.36 -00 40.4 18.3 | -0.92 - 2.9 | 3.4/14.7  | 4138  |
| 1989 TR <sub>7</sub>   | 2000 10 17.4 | 01 30.36 +01 27.5 18.8 | -0.86 - 1.4 | 2.7/15.3  | 4882  |
| 1998 FS <sub>85</sub>  | 2000 10 17.4 | 01 30.39 +01 26.7 17.8 | -0.84 - 4.5 | 2.6/15.1  | 4391  |
| 1997 YC <sub>15</sub>  | 2000 10 17.4 | 01 30.42 +08 36.1 18.4 | -0.94 - 5.2 | 0.3/17.2  | 4900  |
| 1998 DH <sub>35</sub>  | 2000 10 17.4 | 01 30.44 +21 24.7 18.1 | -1.08 - 1.2 | 4.2/20.5  | 4904  |
| 1999 JA <sub>33</sub>  | 2000 10 17.4 | 01 30.45 +06 41.2 18.2 | -0.94 - 5.3 | 1.0/16.7  | 4935  |
| 2000 SS <sub>306</sub> | 2000 10 17.4 | 01 30.50 +17 49.0 18.9 | -1.04 - 3.6 | 3.4/20.0  | 4855  |
| (10634)                | 2000 10 17.5 | 01 30.47 +08 30.5 16.7 | -0.87 - 7.4 | 0.4/17.2  | 34472 |
| (17622)                | 2000 10 17.5 | 01 30.50 +13 00.1 16.2 | -0.72 - 8.0 | 1.3/18.7  | 4104  |
| 1998 HF <sub>45</sub>  | 2000 10 17.5 | 01 30.61 +15 03.7 17.4 | -1.01 - 3.1 | 2.1/19.0  | 4404  |
| 1998 DM <sub>35</sub>  | 2000 10 17.5 | 01 30.75 +17 19.2 18.8 | -1.03 - 3.8 | 3.2/19.7  | 4369  |
| 2000 SP <sub>74</sub>  | 2000 10 17.5 | 01 30.76 +03 05.9 18.0 | -0.83 - 2.8 | 3.6/15.7  | 4819  |
| 2000 SN <sub>74</sub>  | 2000 10 17.5 | 01 30.80 -02 27.3 16.5 | -0.92 - 6.3 | 4.4/13.9  | 4819  |
| 2000 ST <sub>114</sub> | 2000 10 17.5 | 01 30.80 +05 38.1 17.9 | -0.80 - 9.7 | 1.5/16.3  | 4829  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| (17988)                | 2000 10 17.5 | 01 30.91 +05 26.3 18.0 | -0.90 - 7.6 | 1.5/16.3  | 4212  |
| 2000 SV <sub>147</sub> | 2000 10 17.6 | 01 30.84 +12 13.6 18.5 | -1.03 - 5.3 | 1.2/18.4  | 4839  |
| 2000 RP <sub>65</sub>  | 2000 10 17.6 | 01 30.90 -01 09.0 18.2 | -0.78 -10.6 | 4.0/13.8  | 4763  |
| 2000 QH <sub>127</sub> | 2000 10 17.6 | 01 31.03 +01 51.6 16.1 | -0.68 -12.5 | 3.2/14.8  | 4652  |
| 2000 QJ <sub>127</sub> | 2000 10 17.6 | 01 31.11 +10 08.5 16.8 | -0.82 - 6.5 | 0.3/17.9  | 4652  |
| 1999 JL <sub>20</sub>  | 2000 10 17.6 | 01 31.17 +11 01.8 18.7 | -0.99 - 6.4 | 0.6/18.1  | 4456  |
| 2000 RD <sub>91</sub>  | 2000 10 17.6 | 01 31.18 +24 38.8 17.1 | -0.95 - 1.4 | 5.2/21.8  | 4787  |
| 2000 QT <sub>123</sub> | 2000 10 17.6 | 01 31.19 +11 31.1 16.8 | -0.65 - 9.6 | 1.0/18.4  | 4646  |
| 1999 EP <sub>3</sub>   | 2000 10 17.7 | 01 31.24 +17 15.1 18.6 | -1.15 - 3.3 | 3.0/20.0  | 4927  |
| 1999 RT <sub>186</sub> | 2000 10 17.7 | 01 31.29 +08 57.6 18.5 | -0.49 - 3.1 | 0.1/17.5  | 4521  |
| 1991 AW <sub>2</sub>   | 2000 10 17.7 | 01 31.34 -13 19.5 18.2 | -0.74 - 5.1 | 6.9/09.9  | 4883  |
| 1999 JV <sub>97</sub>  | 2000 10 17.7 | 01 31.35 -19 07.0 17.0 | -0.70 - 6.1 | 12.4/06.8 | 3915  |
| 1999 JO <sub>77</sub>  | 2000 10 17.7 | 01 31.41 -04 37.6 15.8 | -0.75 - 6.9 | 6.3/13.0  | 4939  |
| 1999 JA <sub>42</sub>  | 2000 10 17.7 | 01 31.42 +03 20.0 18.8 | -0.96 - 4.6 | 2.2/16.0  | 4466  |
| (16584)                | 2000 10 17.7 | 01 31.42 +10 47.0 16.7 | -0.86 - 6.7 | 0.5/18.1  | 2876  |
| 1997 YR                | 2000 10 17.7 | 01 31.47 +01 34.1 17.8 | -0.96 - 5.9 | 3.0/15.4  | 4899  |
| 2000 OE <sub>61</sub>  | 2000 10 17.7 | 01 31.49 +03 27.3 17.4 | -0.96 - 7.2 | 2.9/15.9  | 4974  |
| 2000 RA <sub>47</sub>  | 2000 10 17.7 | 01 31.52 +19 39.0 17.4 | -1.06 - 1.2 | 4.7/20.4  | 5047  |
| 1999 JN <sub>9</sub>   | 2000 10 17.7 | 01 31.67 +01 59.7 17.1 | -1.08 - 0.4 | 3.5/16.0  | 4453  |
| 2000 RM <sub>5</sub>   | 2000 10 17.8 | 01 31.60 +14 11.6 16.8 | -1.03 - 2.8 | 2.0/19.0  | 4716  |
| 1999 JE <sub>6</sub>   | 2000 10 17.8 | 01 31.70 -02 40.2 17.8 | -1.00 - 4.2 | 4.4/14.4  | 4933  |
| 1998 BA <sub>4</sub>   | 2000 10 17.8 | 01 31.76 +03 41.0 19.1 | -0.95 - 5.9 | 2.2/16.1  | 4357  |
| 1993 TE <sub>19</sub>  | 2000 10 17.8 | 01 31.77 +07 48.4 18.1 | -0.90 - 8.8 | 0.8/17.3  | 4317  |
| 2000 RP <sub>36</sub>  | 2000 10 17.8 | 01 31.79 +05 40.2 17.0 | -0.96 - 1.4 | 1.5/16.8  | 5044  |
| 1998 FA <sub>123</sub> | 2000 10 17.8 | 01 31.89 +04 36.6 19.0 | -0.73 - 4.3 | 1.3/16.3  | 4911  |
| 1999 JQ <sub>33</sub>  | 2000 10 17.8 | 01 31.92 +15 26.6 18.6 | -0.95 - 7.4 | 2.0/19.7  | 35455 |
| 1993 TA <sub>3</sub>   | 2000 10 17.8 | 01 31.95 +03 03.3 17.0 | -0.94 - 6.5 | 2.8/15.9  | 4887  |
| 1998 GD <sub>7</sub>   | 2000 10 17.9 | 01 31.98 -12 31.8 19.3 | -0.78 - 2.5 | 5.9/11.3  | 4911  |
| 2000 RF <sub>74</sub>  | 2000 10 17.9 | 01 32.16 +05 14.3 17.1 | -0.95 + 2.2 | 2.3/17.0  | 5052  |
| 2000 QO <sub>131</sub> | 2000 10 17.9 | 01 32.18 +02 29.1 16.6 | -0.66 - 8.7 | 3.0/15.4  | 4653  |
| 1996 XQ <sub>11</sub>  | 2000 10 17.9 | 01 32.19 +04 35.8 17.6 | -0.87 - 3.9 | 2.0/16.5  | 4895  |
| 1999 JJ <sub>47</sub>  | 2000 10 17.9 | 01 32.20 +12 58.8 18.1 | -0.92 - 7.0 | 1.2/19.0  | 4936  |
| (17564)                | 2000 10 17.9 | 01 32.21 +07 20.2 16.3 | -0.84 - 7.9 | 1.0/17.2  | 4087  |
| 1997 BS <sub>1</sub>   | 2000 10 17.9 | 01 32.21 -07 05.6 17.4 | -0.76 - 4.5 | 5.2/12.6  | 4344  |
| 1999 GE <sub>32</sub>  | 2000 10 17.9 | 01 32.33 +02 44.4 18.0 | -0.90 - 4.9 | 2.7/16.0  | 4931  |
| 2000 QP <sub>150</sub> | 2000 10 17.9 | 01 32.38 +21 39.5 16.2 | -0.86 - 3.4 | 5.8/21.6  | 4668  |
| 1999 JC <sub>54</sub>  | 2000 10 17.9 | 01 32.40 +05 31.6 19.1 | -0.92 - 4.3 | 1.4/16.8  | 4473  |
| 1996 OB                | 2000 10 18.0 | 01 32.36 +13 00.1 17.3 | -0.97 - 7.0 | 1.4/19.0  | 4892  |
| (17327)                | 2000 10 18.0 | 01 32.40 +05 44.8 17.8 | -0.87 - 4.2 | 1.4/16.9  | 3089  |
| 1999 HR <sub>3</sub>   | 2000 10 18.0 | 01 32.52 -11 55.4 18.8 | -0.87 -22.1 | 9.5/08.8  | 4447  |
| 2000 SC <sub>91</sub>  | 2000 10 18.0 | 01 32.55 +31 00.8 15.6 | -1.01 - 4.3 | 7.9/24.6  | 4822  |
| 1999 NR <sub>34</sub>  | 2000 10 18.0 | 01 32.74 -04 59.3 18.7 | -0.83 - 4.3 | 4.5/13.6  | 4944  |
| (16472)                | 2000 10 18.1 | 01 32.90 +16 59.0 17.9 | -0.84 - 6.6 | 2.3/20.5  | 2844  |
| 1993 QD <sub>8</sub>   | 2000 10 18.1 | 01 32.91 +15 14.9 17.2 | -1.09 - 4.1 | 2.1/19.7  | 4316  |
| 2000 SY <sub>22</sub>  | 2000 10 18.1 | 01 33.03 +10 10.9 17.0 | -0.78 - 9.2 | 0.2/18.3  | 4807  |
| (11048)                | 2000 10 18.1 | 01 33.04 -06 01.6 16.1 | -0.72 - 8.5 | 5.8/12.6  | 3859  |
| 2000 SE <sub>115</sub> | 2000 10 18.1 | 01 33.08 +08 12.2 17.8 | -0.81 - 5.3 | 0.5/17.7  | 4830  |
| 4710 P-L               | 2000 10 18.1 | 01 33.09 +11 16.4 18.5 | -0.72 - 2.2 | 0.5/18.6  | 5145  |
| 3420 T-3               | 2000 10 18.1 | 01 33.12 +05 58.4 17.6 | -0.92 - 6.1 | 1.5/17.1  | 4873  |
| 1998 BO <sub>26</sub>  | 2000 10 18.2 | 01 33.14 +16 02.1 21.2 | -1.06 - 5.1 | 2.1/20.0  | 35704 |
| (17167)                | 2000 10 18.2 | 01 33.24 +10 52.2 17.4 | -0.96 - 4.6 | 0.4/18.6  | 3046  |

|                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|----------|-------|
| 1999 JD <sub>33</sub>  | 2000 10 18.2 | 01 33.27 +11 57.5 19.2 | -0.91 - 7.8 | 0.8/18.9 | 4464  |
| 2000 SU <sub>115</sub> | 2000 10 18.2 | 01 33.28 +08 27.6 18.6 | -1.05 - 2.5 | 0.5/17.9 | 4830  |
| (17738)                | 2000 10 18.2 | 01 33.41 +20 29.7 15.0 | -1.10 - 1.7 | 5.2/21.0 | 4137  |
| 1993 SG <sub>2</sub>   | 2000 10 18.3 | 01 33.52 +16 03.6 16.6 | -1.03 - 2.9 | 3.0/20.0 | 4887  |
| (13402)                | 2000 10 18.3 | 01 33.56 +03 02.1 18.5 | -0.48 - 3.4 | 1.2/16.1 | 37596 |
| (17486)                | 2000 10 18.3 | 01 33.56 +01 23.3 17.3 | -0.82 - 8.7 | 3.4/15.6 | 4065  |
| 2000 SN <sub>267</sub> | 2000 10 18.3 | 01 33.56 +04 30.6 18.8 | -0.91 - 6.6 | 2.3/16.7 | 4853  |
| 1993 FQ <sub>32</sub>  | 2000 10 18.3 | 01 33.72 +08 11.9 16.7 | -0.83 - 3.8 | 0.6/17.9 | 4886  |
| 2000 RO <sub>5</sub>   | 2000 10 18.3 | 01 33.76 +18 02.9 16.5 | -1.20 + 0.7 | 3.5/20.2 | 5036  |
| 2000 PR                | 2000 10 18.3 | 01 33.78 +02 14.7 16.3 | -0.91 - 2.5 | 4.1/16.3 | 4974  |
| 1981 ES <sub>37</sub>  | 2000 10 18.3 | 01 33.79 +12 37.3 20.8 | -0.97 - 6.9 | 1.0/19.2 | 26922 |
| 1998 DM <sub>9</sub>   | 2000 10 18.3 | 01 33.81 +01 33.0 18.6 | -0.91 - 3.3 | 2.6/16.1 | 4364  |
| (16634)                | 2000 10 18.3 | 01 33.82 +16 21.2 16.1 | -0.92 - 6.3 | 3.3/20.4 | 2891  |
| 1992 GX <sub>4</sub>   | 2000 10 18.3 | 01 33.92 +08 00.2 17.6 | -1.04 - 4.2 | 0.7/17.9 | 4885  |
| 2000 RE <sub>45</sub>  | 2000 10 18.4 | 01 33.82 +15 20.5 17.0 | -0.92 - 5.8 | 2.9/20.1 | 4749  |
| 2000 SO <sub>115</sub> | 2000 10 18.4 | 01 33.86 +10 17.2 16.3 | -1.06 - 2.0 | 0.2/18.5 | 4830  |
| (17778)                | 2000 10 18.4 | 01 33.93 +34 39.7 16.9 | -1.22 + 1.0 | 9.8/24.9 | 4149  |
| 1998 DX <sub>32</sub>  | 2000 10 18.4 | 01 33.94 +11 05.9 17.1 | -1.07 - 2.2 | 0.6/18.8 | 4368  |
| 2000 SR <sub>147</sub> | 2000 10 18.4 | 01 34.00 +11 55.6 17.9 | -1.08 - 3.4 | 0.8/19.0 | 4839  |
| (11951)                | 2000 10 18.4 | 01 34.10 +05 32.0 18.4 | -0.62 - 4.2 | 1.0/17.1 | 36259 |
| 1978 VW <sub>2</sub>   | 2000 10 18.5 | 01 34.25 +07 17.9 19.2 | -0.76 - 4.6 | 0.7/17.7 | 4879  |
| 2000 SS <sub>265</sub> | 2000 10 18.5 | 01 34.32 -00 34.5 19.0 | -0.81 - 8.1 | 4.6/15.0 | 4853  |
| 1998 HX <sub>37</sub>  | 2000 10 18.5 | 01 34.37 +17 22.6 17.0 | -1.14 + 1.0 | 3.0/20.0 | 4912  |
| 1998 FV <sub>20</sub>  | 2000 10 18.5 | 01 34.44 +05 09.2 16.1 | -0.91 - 4.6 | 2.1/17.2 | 4906  |
| (10458)                | 2000 10 18.5 | 01 34.51 +11 12.5 18.2 | -0.98 - 6.2 | 0.5/19.0 | 34426 |
| 2000 RK <sub>78</sub>  | 2000 10 18.5 | 01 34.51 +02 10.0 17.7 | -0.85 - 4.6 | 2.9/16.3 | 4780  |
| 2000 SU <sub>127</sub> | 2000 10 18.5 | 01 34.58 +10 02.6 17.8 | -1.05 - 1.1 | 0.1/18.6 | 4833  |
| 1998 HF <sub>23</sub>  | 2000 10 18.5 | 01 34.62 +08 16.2 17.8 | -0.89 - 1.2 | 0.5/18.2 | 4401  |
| (17924)                | 2000 10 18.5 | 01 34.63 +07 52.6 17.4 | -1.00 - 4.8 | 0.8/18.0 | 4193  |
| 4068 T-2               | 2000 10 18.6 | 01 34.67 +06 58.3 18.8 | -0.89 - 3.7 | 1.0/17.8 | 5147  |
| 1999 KU <sub>2</sub>   | 2000 10 18.6 | 01 34.72 +09 46.9 19.1 | -0.86 - 6.4 | 0.0/18.6 | 4500  |
| (18136)                | 2000 10 18.6 | 01 34.74 +16 34.2 16.3 | -1.06 - 3.4 | 2.7/20.5 | 4255  |
| 1999 JX <sub>15</sub>  | 2000 10 18.6 | 01 34.75 -00 52.9 18.0 | -1.02 - 0.5 | 3.8/16.1 | 4455  |
| 1994 PN <sub>36</sub>  | 2000 10 18.6 | 01 34.83 -02 20.2 18.7 | -0.73 - 6.2 | 3.7/14.6 | 4889  |
| 2000 RN <sub>60</sub>  | 2000 10 18.6 | 01 34.86 +25 34.4 17.5 | -1.03 - 3.2 | 5.6/23.2 | 4759  |
| 1998 FY <sub>48</sub>  | 2000 10 18.6 | 01 34.86 +12 25.1 17.7 | -0.83 - 5.9 | 1.0/19.4 | 4382  |
| 2000 RB <sub>64</sub>  | 2000 10 18.6 | 01 34.89 +19 33.0 16.6 | -1.04 - 2.3 | 4.4/21.3 | 5050  |
| 2000 QS <sub>150</sub> | 2000 10 18.6 | 01 34.98 +18 43.0 16.2 | -0.92 - 1.7 | 3.1/21.1 | 5018  |
| 1998 FC <sub>30</sub>  | 2000 10 18.6 | 01 35.03 +29 19.5 16.2 | -1.15 - 0.4 | 7.4/23.7 | 4906  |
| 1998 HY <sub>46</sub>  | 2000 10 18.7 | 01 35.00 +04 57.1 16.2 | -0.74 -10.9 | 1.8/16.9 | 4912  |
| 1998 HE <sub>30</sub>  | 2000 10 18.7 | 01 35.06 +02 59.4 18.8 | -0.80 - 5.6 | 2.3/16.6 | 4402  |
| 1999 NA <sub>41</sub>  | 2000 10 18.7 | 01 35.11 +22 16.0 17.9 | -0.85 - 3.0 | 3.5/22.4 | 4508  |
| 1972 GJ                | 2000 10 18.7 | 01 35.12 +05 51.4 16.5 | -0.96 - 1.9 | 1.3/17.7 | 4297  |
| (17922)                | 2000 10 18.7 | 01 35.17 -07 54.7 18.5 | -0.89 - 7.6 | 6.4/13.0 | 4193  |
| 1998 BG <sub>25</sub>  | 2000 10 18.7 | 01 35.18 -02 36.0 18.0 | -0.84 - 4.8 | 4.1/15.0 | 4360  |
| (16518)                | 2000 10 18.7 | 01 35.23 +00 20.6 15.2 | -0.89 - 5.9 | 4.6/15.8 | 2857  |
| (17426)                | 2000 10 18.7 | 01 35.26 +25 49.7 17.2 | -1.04 - 1.9 | 5.3/23.1 | 4047  |
| 2000 SC <sub>23</sub>  | 2000 10 18.7 | 01 35.29 +08 52.8 17.2 | -0.81 -10.6 | 0.4/18.4 | 4807  |
| 2000 SV <sub>115</sub> | 2000 10 18.7 | 01 35.29 +07 26.0 18.7 | -0.93 - 3.8 | 1.0/18.1 | 4831  |
| 1994 PU <sub>13</sub>  | 2000 10 18.7 | 01 35.31 +07 09.8 18.9 | -0.76 - 4.8 | 0.9/17.9 | 4322  |
| 1994 CD <sub>14</sub>  | 2000 10 18.7 | 01 35.32 +02 32.1 19.7 | -0.88 - 4.7 | 2.3/16.6 | 34582 |

|                        |              |                   |      |       |       |          |       |
|------------------------|--------------|-------------------|------|-------|-------|----------|-------|
| 2000 SQ <sub>147</sub> | 2000 10 18.7 | 01 35.33 +09 25.8 | 17.6 | -0.96 | - 7.6 | 0.2/18.6 | 4838  |
| 1998 FA <sub>43</sub>  | 2000 10 18.7 | 01 35.38 +10 44.9 | 19.0 | -0.79 | - 4.8 | 0.2/19.0 | 4907  |
| 2000 SO <sub>127</sub> | 2000 10 18.7 | 01 35.39 +07 46.2 | 18.2 | -0.95 | - 7.0 | 0.8/18.1 | 4833  |
| (17085)                | 2000 10 18.8 | 01 35.43 +14 57.5 | 17.0 | -0.85 | - 9.0 | 2.2/20.5 | 3022  |
| (18243)                | 2000 10 18.8 | 01 35.43 +14 34.9 | 16.0 | -1.12 | - 3.1 | 1.8/20.0 | 4286  |
| 1999 GT <sub>41</sub>  | 2000 10 18.8 | 01 35.56 +02 11.6 | 18.2 | -0.98 | - 5.7 | 2.9/16.6 | 4932  |
| 1998 KE <sub>65</sub>  | 2000 10 18.8 | 01 35.60 -10 36.4 | 18.7 | -0.80 | - 2.4 | 5.5/12.7 | 4915  |
| (10998)                | 2000 10 18.8 | 01 35.62 +12 37.7 | 17.7 | -0.71 | - 7.5 | 0.7/19.8 | 4878  |
| (16628)                | 2000 10 18.8 | 01 35.66 -05 58.1 | 16.1 | -0.83 | - 2.3 | 5.2/14.3 | 2889  |
| 1998 FV <sub>28</sub>  | 2000 10 18.8 | 01 35.66 +07 56.8 | 17.3 | -0.96 | - 4.8 | 0.8/18.3 | 4906  |
| 1999 JU <sub>85</sub>  | 2000 10 18.8 | 01 35.66 -00 44.5 | 17.1 | -0.83 | - 8.1 | 4.7/15.3 | 4940  |
| 1998 HD <sub>110</sub> | 2000 10 18.8 | 01 35.70 -04 45.7 | 18.1 | -0.80 | - 2.7 | 4.3/14.6 | 4913  |
| 1996 RE <sub>17</sub>  | 2000 10 18.8 | 01 35.76 +11 36.6 | 19.4 | -0.99 | - 5.0 | 0.6/19.4 | 32953 |
| (11536)                | 2000 10 18.9 | 01 35.78 +17 39.3 | 16.6 | -0.85 | - 2.6 | 2.2/21.1 | 35842 |
| 3147 T-2               | 2000 10 18.9 | 01 35.80 +04 43.7 | 18.6 | -0.78 | - 4.3 | 1.6/17.3 | 5147  |
| 2000 SH <sub>188</sub> | 2000 10 18.9 | 01 35.83 +09 37.9 | 17.4 | -0.79 | - 4.2 | 0.1/18.8 | 4848  |
| 2000 RU <sub>35</sub>  | 2000 10 18.9 | 01 35.94 +02 47.6 | 16.1 | -0.62 | -12.5 | 3.1/16.2 | 4742  |
| 1978 VG <sub>4</sub>   | 2000 10 18.9 | 01 36.07 +06 54.2 | 18.5 | -0.88 | - 4.0 | 1.1/18.1 | 4879  |
| 1998 AG <sub>11</sub>  | 2000 10 18.9 | 01 36.08 +06 01.0 | 18.3 | -0.95 | - 4.6 | 1.5/17.9 | 4900  |
| 1999 JS <sub>72</sub>  | 2000 10 18.9 | 01 36.08 +03 36.2 | 19.6 | -0.92 | - 5.5 | 2.3/17.1 | 4483  |
| 1998 FF <sub>12</sub>  | 2000 10 19.0 | 01 36.11 +08 58.3 | 18.3 | -1.02 | - 1.8 | 0.4/18.7 | 4375  |
| 1991 PC <sub>12</sub>  | 2000 10 19.0 | 01 36.16 +03 42.5 | 18.0 | -0.88 | - 9.8 | 2.3/17.0 | 4884  |
| (11007)                | 2000 10 19.0 | 01 36.28 +14 18.3 | 15.6 | -1.02 | - 3.4 | 2.1/20.2 | 4878  |
| 1988 MA                | 2000 10 19.0 | 01 36.46 +25 37.1 | 17.4 | -0.94 | -11.7 | 5.0/24.6 | 4881  |
| 2000 SK <sub>42</sub>  | 2000 10 19.1 | 01 36.58 +10 47.5 | 17.9 | -0.79 | - 4.4 | 0.2/19.4 | 4811  |
| 1999 RU <sub>47</sub>  | 2000 10 19.1 | 01 36.63 +26 49.1 | 18.9 | -0.87 | - 2.6 | 4.7/24.2 | 4945  |
| 2000 R <sub>J78</sub>  | 2000 10 19.1 | 01 36.72 +08 14.1 | 16.3 | -0.86 | - 7.5 | 0.9/18.6 | 4780  |
| 2000 RV <sub>60</sub>  | 2000 10 19.1 | 01 36.74 +25 16.5 | 17.0 | -1.02 | - 2.0 | 5.2/23.3 | 5049  |
| 1999 JL <sub>27</sub>  | 2000 10 19.1 | 01 36.76 +05 39.9 | 17.8 | -0.96 | - 6.2 | 1.8/17.9 | 4934  |
| 2000 PR <sub>28</sub>  | 2000 10 19.1 | 01 36.85 -01 20.4 | 16.3 | -1.01 | - 2.0 | 4.9/16.3 | 4597  |
| 1998 BQ <sub>24</sub>  | 2000 10 19.1 | 01 36.92 +09 44.5 | 17.5 | -1.04 | - 4.2 | 0.1/19.1 | 4359  |
| (17611)                | 2000 10 19.2 | 01 36.84 +10 21.8 | 17.3 | -0.89 | - 1.8 | 0.1/19.3 | 4101  |
| 2000 RN <sub>53</sub>  | 2000 10 19.2 | 01 36.93 +16 30.5 | 16.9 | -0.86 | - 9.3 | 3.1/21.4 | 5048  |
| 2000 RA <sub>64</sub>  | 2000 10 19.2 | 01 37.07 +18 38.9 | 17.4 | -1.01 | - 3.5 | 3.9/21.6 | 4761  |
| 1999 JE <sub>60</sub>  | 2000 10 19.2 | 01 37.14 +03 01.8 | 18.7 | -1.03 | - 3.7 | 2.6/17.4 | 4476  |
| 2000 SK <sub>205</sub> | 2000 10 19.2 | 01 37.20 +07 07.7 | 18.5 | -0.50 | - 3.1 | 0.5/18.3 | 4849  |
| 2000 OX <sub>52</sub>  | 2000 10 19.3 | 01 37.20 +02 18.6 | 17.7 | -1.02 | - 3.1 | 3.2/17.3 | 4589  |
| 1999 HV <sub>2</sub>   | 2000 10 19.3 | 01 37.21 +04 20.5 | 17.9 | -1.05 | - 3.1 | 2.3/17.8 | 4447  |
| 1997 EJ <sub>6</sub>   | 2000 10 19.3 | 01 37.25 +02 09.4 | 18.8 | -0.77 | - 2.4 | 2.0/17.0 | 4896  |
| 1996 VA <sub>7</sub>   | 2000 10 19.3 | 01 37.34 +10 31.8 | 18.1 | -0.87 | - 6.4 | 0.1/19.5 | 4894  |
| 1998 HC <sub>146</sub> | 2000 10 19.3 | 01 37.42 -00 45.3 | 18.8 | -0.74 | - 3.8 | 3.0/16.1 | 4914  |
| (17517)                | 2000 10 19.3 | 01 37.44 +16 46.0 | 17.2 | -0.84 | -10.1 | 2.4/21.6 | 4074  |
| 1995 UX <sub>44</sub>  | 2000 10 19.3 | 01 37.47 +10 19.2 | 17.3 | -0.83 | - 4.0 | 0.1/19.4 | 4891  |
| (17311)                | 2000 10 19.3 | 01 37.53 +09 46.1 | 17.4 | -0.90 | - 3.9 | 0.1/19.3 | 3085  |
| 1999 JR <sub>81</sub>  | 2000 10 19.3 | 01 37.64 -01 39.0 | 19.0 | -0.94 | - 6.5 | 4.3/15.9 | 4487  |
| 2000 SG <sub>43</sub>  | 2000 10 19.3 | 01 37.66 +07 52.4 | 17.5 | -1.08 | - 3.6 | 1.0/18.8 | 4812  |
| 1998 HU <sub>92</sub>  | 2000 10 19.4 | 01 37.60 +07 00.9 | 18.6 | -0.87 | - 1.8 | 0.9/18.6 | 4406  |
| (17378)                | 2000 10 19.4 | 01 37.70 +21 48.3 | 18.6 | -0.80 | - 5.2 | 3.5/23.1 | 4035  |
| 1999 KD <sub>15</sub>  | 2000 10 19.4 | 01 37.70 +16 11.5 | 18.4 | -0.98 | - 6.5 | 2.1/21.2 | 4503  |
| 1999 HR <sub>4</sub>   | 2000 10 19.4 | 01 37.77 +06 33.8 | 17.3 | -0.93 | - 2.7 | 1.5/18.5 | 4447  |
| 1998 FO <sub>72</sub>  | 2000 10 19.4 | 01 37.78 +12 15.3 | 18.8 | -0.86 | - 3.3 | 0.6/20.0 | 4909  |

|                        |              |                   |      |       |       |           |       |
|------------------------|--------------|-------------------|------|-------|-------|-----------|-------|
| 6214 P-L               | 2000 10 19.4 | 01 37.78 +12 24.8 | 17.6 | -0.92 | - 7.8 | 0.9/20.0  | 5145  |
| 2101 P-L               | 2000 10 19.4 | 01 37.86 +11 42.2 | 18.2 | -0.83 | - 7.1 | 0.6/20.0  | 4856  |
| 2000 QV <sub>127</sub> | 2000 10 19.5 | 01 38.12 +16 50.9 | 16.2 | -1.05 | - 0.4 | 2.9/21.2  | 5012  |
| 2000 SY <sub>147</sub> | 2000 10 19.5 | 01 38.22 +11 05.0 | 18.0 | -0.79 | - 6.6 | 0.3/19.8  | 4839  |
| 1996 LK <sub>1</sub>   | 2000 10 19.5 | 01 38.39 -02 48.7 | 17.0 | -1.05 | - 1.4 | 5.9/16.4  | 4892  |
| (14795)                | 2000 10 19.6 | 01 38.36 +12 58.4 | 17.3 | -0.84 | - 4.2 | 0.8/20.4  | 3     |
| 2000 SJ <sub>76</sub>  | 2000 10 19.6 | 01 38.44 +02 09.0 | 17.4 | -0.98 | - 4.5 | 3.5/17.3  | 4819  |
| 1998 HK <sub>51</sub>  | 2000 10 19.6 | 01 38.47 +01 51.3 | 19.3 | -0.71 | - 5.0 | 2.2/17.0  | 4912  |
| (16886)                | 2000 10 19.6 | 01 38.52 -01 53.2 | 14.9 | -1.01 | + 0.5 | 5.8/16.8  | 2963  |
| (16704)                | 2000 10 19.6 | 01 38.60 +35 24.3 | 18.2 | -1.34 | - 0.2 | 8.2/26.0  | 2910  |
| 2000 ST <sub>82</sub>  | 2000 10 19.6 | 01 38.67 +03 12.1 | 18.5 | -0.85 | - 6.7 | 2.4/17.5  | 4820  |
| 1998 FV <sub>14</sub>  | 2000 10 19.6 | 01 38.76 +08 32.3 | 19.3 | -0.71 | - 6.4 | 0.5/19.1  | 4905  |
| 1999 FT <sub>29</sub>  | 2000 10 19.6 | 01 38.79 +01 03.4 | 18.9 | -0.95 | - 5.8 | 3.2/17.0  | 4436  |
| 2000 PR <sub>7</sub>   | 2000 10 19.7 | 01 38.85 -08 08.2 | 16.1 | -0.98 | + 3.0 | 9.6/15.7  | 4592  |
| 1999 JT <sub>55</sub>  | 2000 10 19.7 | 01 38.89 +05 18.5 | 18.6 | -0.85 | - 6.8 | 1.7/18.2  | 4474  |
| (17340)                | 2000 10 19.7 | 01 39.04 +00 41.7 | 18.2 | -0.71 | - 7.2 | 3.2/16.6  | 3093  |
| (17142)                | 2000 10 19.7 | 01 39.10 -10 45.7 | 15.5 | -0.80 | - 2.5 | 9.6/13.5  | 3038  |
| 2000 SX <sub>82</sub>  | 2000 10 19.7 | 01 39.16 +04 09.6 | 18.5 | -1.05 | - 2.3 | 2.5/18.2  | 4820  |
| 1999 JY <sub>21</sub>  | 2000 10 19.8 | 01 39.09 +14 31.0 | 17.7 | -1.03 | - 6.4 | 1.7/21.0  | 4457  |
| 2000 SE <sub>23</sub>  | 2000 10 19.8 | 01 39.17 +07 59.3 | 18.1 | -0.77 | - 4.9 | 0.8/19.1  | 4808  |
| 1999 JG <sub>62</sub>  | 2000 10 19.8 | 01 39.22 +06 37.7 | 17.8 | -0.95 | - 5.5 | 1.4/18.8  | 4477  |
| 2000 PO <sub>26</sub>  | 2000 10 19.8 | 01 39.23 +05 13.4 | 17.8 | -0.94 | - 7.6 | 2.3/18.3  | 4596  |
| 2000 QT <sub>127</sub> | 2000 10 19.8 | 01 39.36 +12 35.4 | 17.4 | -1.06 | - 1.4 | 1.1/20.4  | 5012  |
| (17576)                | 2000 10 19.8 | 01 39.52 -04 42.7 | 18.8 | -0.73 | - 5.1 | 4.3/15.1  | 4090  |
| 2000 RD <sub>47</sub>  | 2000 10 19.9 | 01 39.50 +19 39.6 | 18.6 | -0.96 | - 1.0 | 3.2/22.3  | 4750  |
| 1999 JR <sub>22</sub>  | 2000 10 19.9 | 01 39.59 +14 46.9 | 17.7 | -0.99 | - 7.2 | 1.7/21.3  | 4934  |
| 2000 SA <sub>188</sub> | 2000 10 19.9 | 01 39.63 +03 33.5 | 18.0 | -0.81 | - 6.4 | 2.5/17.8  | 4848  |
| 1995 XC                | 2000 10 19.9 | 01 39.73 +21 48.3 | 17.8 | -0.75 | - 5.7 | 2.9/23.7  | 4891  |
| (17492)                | 2000 10 19.9 | 01 39.76 -27 23.0 | 17.8 | -0.59 | - 0.5 | 6.7/07.4  | 4066  |
| 1999 JM <sub>32</sub>  | 2000 10 19.9 | 01 39.78 +04 57.4 | 19.2 | -0.97 | - 4.6 | 1.9/18.5  | 4463  |
| 1999 LV <sub>1</sub>   | 2000 10 19.9 | 01 39.82 -35 41.1 | 17.7 | -1.44 | + 4.6 | 19.4/09.6 | 36543 |
| 2000 SG <sub>156</sub> | 2000 10 19.9 | 01 39.84 +12 48.4 | 18.9 | -1.07 | - 2.8 | 1.0/20.6  | 4843  |
| 1999 NS <sub>13</sub>  | 2000 10 20.0 | 01 39.84 -04 33.6 | 18.5 | -0.81 | - 5.1 | 4.6/15.4  | 4944  |
| 1996 WC                | 2000 10 20.0 | 01 39.96 +08 41.5 | 16.5 | -0.96 | - 2.3 | 0.7/19.6  | 4895  |
| 1998 HE <sub>42</sub>  | 2000 10 20.0 | 01 39.99 +03 37.5 | 18.7 | -0.88 | - 6.1 | 2.3/18.0  | 4403  |
| 1999 JU <sub>47</sub>  | 2000 10 20.0 | 01 39.99 +11 54.3 | 19.4 | -0.94 | - 4.4 | 0.5/20.5  | 4468  |
| 2000 RQ <sub>70</sub>  | 2000 10 20.0 | 01 40.08 +06 53.8 | 17.9 | -0.68 | -11.2 | 1.1/18.8  | 4770  |
| (17373)                | 2000 10 20.0 | 01 40.16 +31 05.5 | 18.1 | -0.92 | - 3.5 | 6.6/26.7  | 4033  |
| 1999 HD <sub>2</sub>   | 2000 10 20.0 | 01 40.17 -02 57.8 | 16.3 | -0.84 | - 5.4 | 6.9/16.0  | 4932  |
| 1992 DQ <sub>7</sub>   | 2000 10 20.0 | 01 40.25 +07 24.3 | 17.7 | -0.80 | - 3.7 | 1.0/19.2  | 4884  |
| 2000 SJ <sub>175</sub> | 2000 10 20.0 | 01 40.30 +24 06.4 | 18.2 | -1.03 | - 1.4 | 4.7/23.7  | 4846  |
| (17986)                | 2000 10 20.1 | 01 40.24 -08 48.0 | 17.3 | -1.03 | 0.0   | 7.3/15.5  | 4212  |
| 1998 EW <sub>7</sub>   | 2000 10 20.1 | 01 40.28 +09 13.3 | 18.7 | -0.92 | - 7.6 | 0.5/19.7  | 4370  |
| 1998 FM <sub>66</sub>  | 2000 10 20.1 | 01 40.46 +17 26.6 | 17.9 | -1.09 | - 0.4 | 2.6/21.8  | 4908  |
| (17516)                | 2000 10 20.1 | 01 40.51 +17 26.5 | 15.9 | -0.86 | - 5.9 | 3.1/22.3  | 4073  |
| 1998 HE <sub>34</sub>  | 2000 10 20.1 | 01 40.52 +09 45.1 | 18.8 | -0.82 | - 3.9 | 0.2/20.0  | 4403  |
| 1998 BS <sub>24</sub>  | 2000 10 20.1 | 01 40.53 +04 31.2 | 18.1 | -0.96 | - 6.2 | 2.3/18.4  | 4359  |
| 1997 WX <sub>2</sub>   | 2000 10 20.1 | 01 40.55 +05 04.7 | 18.1 | -1.07 | - 3.3 | 2.3/18.8  | 4898  |
| 1999 JB <sub>15</sub>  | 2000 10 20.1 | 01 40.58 -10 05.6 | 18.8 | -0.99 | - 1.2 | 6.9/15.0  | 34985 |
| 1999 FS <sub>8</sub>   | 2000 10 20.1 | 01 40.59 +09 08.1 | 17.4 | -0.95 | -21.1 | 0.6/19.7  | 4928  |
| 2000 SN <sub>116</sub> | 2000 10 20.2 | 01 40.60 +07 59.9 | 16.4 | -0.95 | - 2.5 | 1.2/19.6  | 4831  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1999 FA <sub>29</sub>  | 2000 10 20.2 | 01 40.61 +11 12.3 18.3 | -1.09 - 2.4 | 0.3/20.4  | 4435  |
| 1981 ET <sub>20</sub>  | 2000 10 20.2 | 01 40.67 +18 11.1 18.8 | -0.97 - 3.0 | 2.4/22.3  | 4880  |
| 2000 RO <sub>45</sub>  | 2000 10 20.2 | 01 40.67 +21 59.0 16.9 | -1.12 - 3.3 | 4.9/23.4  | 4749  |
| 1996 XR <sub>6</sub>   | 2000 10 20.2 | 01 40.69 +16 45.7 18.5 | -0.98 - 3.6 | 2.2/22.0  | 35071 |
| (16753)                | 2000 10 20.2 | 01 40.85 +20 46.9 17.4 | -0.93 - 6.2 | 4.6/23.5  | 2924  |
| 1999 RM <sub>135</sub> | 2000 10 20.2 | 01 40.88 +38 48.7 17.4 | -1.05 - 0.2 | 7.8/28.4  | 40366 |
| 2000 RL <sub>92</sub>  | 2000 10 20.2 | 01 40.89 +21 23.6 17.6 | -1.09 - 3.9 | 4.7/23.2  | 4790  |
| 2000 SD <sub>91</sub>  | 2000 10 20.2 | 01 40.89 +29 25.9 16.8 | -0.85 - 7.2 | 5.7/26.8  | 4823  |
| (10857)                | 2000 10 20.2 | 01 41.00 +07 43.3 17.9 | -0.94 - 6.0 | 0.9/19.5  | 4878  |
| 1994 QP                | 2000 10 20.2 | 01 41.01 -17 05.3 17.5 | -0.97 + 2.5 | 9.2/14.0  | 3873  |
| 1999 AX <sub>4</sub>   | 2000 10 20.2 | 01 41.08 -44 44.7 18.0 | -1.19 + 0.4 | 24.1/05.0 | 35080 |
| 2000 OS <sub>52</sub>  | 2000 10 20.3 | 01 41.10 +06 53.5 17.0 | -0.78 - 4.0 | 1.2/19.3  | 4973  |
| 1999 JU <sub>116</sub> | 2000 10 20.3 | 01 41.15 +10 16.1 18.4 | -1.07 - 4.6 | 0.1/20.3  | 4497  |
| 2000 SX <sub>148</sub> | 2000 10 20.3 | 01 41.16 +11 32.7 17.9 | -0.97 - 6.2 | 0.4/20.7  | 4839  |
| 1989 RA                | 2000 10 20.3 | 01 41.18 +00 24.8 17.2 | -0.75 -10.7 | 4.7/16.8  | 4305  |
| 2000 SF <sub>149</sub> | 2000 10 20.3 | 01 41.21 +10 03.1 18.2 | -0.82 - 5.2 | 0.1/20.2  | 4839  |
| 1996 RD <sub>14</sub>  | 2000 10 20.3 | 01 41.32 +17 22.0 18.0 | -1.04 - 2.0 | 3.1/22.2  | 4893  |
| (17672)                | 2000 10 20.3 | 01 41.38 -19 49.3 18.0 | -0.80 - 1.8 | 8.3/11.5  | 4118  |
| 1998 BM <sub>8</sub>   | 2000 10 20.3 | 01 41.44 +28 24.4 18.5 | -1.15 - 2.0 | 6.7/25.0  | 4358  |
| 1997 AU <sub>5</sub>   | 2000 10 20.4 | 01 41.38 +20 24.1 17.8 | -0.90 - 2.5 | 3.0/23.2  | 4343  |
| 1998 DJ <sub>34</sub>  | 2000 10 20.4 | 01 41.44 +24 18.6 19.0 | -1.10 - 1.5 | 4.8/23.9  | 4368  |
| 2000 RE <sub>5</sub>   | 2000 10 20.4 | 01 41.60 +14 06.9 18.3 | -1.23 + 2.8 | 1.3/21.2  | 4716  |
| 2000 SQ <sub>75</sub>  | 2000 10 20.4 | 01 41.66 -01 03.5 18.4 | -0.71 - 9.4 | 4.4/16.4  | 4819  |
| 2000 RV <sub>47</sub>  | 2000 10 20.4 | 01 41.67 +27 30.1 17.6 | -1.03 - 3.0 | 5.9/25.0  | 4750  |
| 2000 OC <sub>21</sub>  | 2000 10 20.4 | 01 41.71 +08 18.7 16.9 | -0.99 - 3.6 | 1.0/19.9  | 4580  |
| 1999 JW <sub>91</sub>  | 2000 10 20.4 | 01 41.71 -00 24.4 18.1 | -0.89 - 6.2 | 4.1/17.2  | 4940  |
| (17139)                | 2000 10 20.4 | 01 41.72 +02 50.9 16.6 | -0.88 - 8.0 | 3.2/18.1  | 3038  |
| 1993 FL <sub>82</sub>  | 2000 10 20.4 | 01 41.73 +05 15.1 18.8 | -0.79 - 5.3 | 1.6/18.9  | 4886  |
| 2000 RN <sub>6</sub>   | 2000 10 20.5 | 01 41.76 +09 06.2 18.4 | -0.94 - 5.4 | 0.7/20.1  | 4717  |
| 1995 UQ <sub>15</sub>  | 2000 10 20.5 | 01 41.81 +04 07.5 18.6 | -0.81 - 3.9 | 2.3/18.7  | 4329  |
| 1998 FE <sub>30</sub>  | 2000 10 20.5 | 01 41.82 +15 05.9 17.8 | -0.86 - 4.9 | 1.5/21.9  | 4906  |
| 2000 SN <sub>88</sub>  | 2000 10 20.5 | 01 41.85 +03 38.1 18.8 | -1.00 - 4.1 | 2.5/18.6  | 4822  |
| 1998 FJ <sub>21</sub>  | 2000 10 20.5 | 01 41.89 +13 06.4 18.8 | -0.95 - 3.8 | 0.9/21.2  | 4906  |
| 1998 FP <sub>63</sub>  | 2000 10 20.5 | 01 41.93 +06 08.0 19.4 | -0.76 - 4.4 | 1.2/19.2  | 4908  |
| 1994 AZ <sub>10</sub>  | 2000 10 20.5 | 01 41.94 +07 38.2 19.2 | -0.95 - 3.9 | 1.0/19.7  | 4888  |
| 1998 FM <sub>64</sub>  | 2000 10 20.5 | 01 41.94 +09 09.1 18.7 | -0.76 - 4.5 | 0.4/20.1  | 4908  |
| 2000 SZ <sub>148</sub> | 2000 10 20.5 | 01 42.05 +11 24.8 17.9 | -0.91 - 4.4 | 0.4/20.8  | 4839  |
| (10488)                | 2000 10 20.6 | 01 42.15 +10 40.8 15.3 | -0.98 - 3.3 | 0.0/20.6  | 34433 |
| 1999 RN <sub>72</sub>  | 2000 10 20.6 | 01 42.19 -08 07.8 19.1 | -0.47 - 3.9 | 3.3/14.2  | 4945  |
| 1998 EP <sub>10</sub>  | 2000 10 20.6 | 01 42.22 -02 29.2 18.3 | -0.86 - 4.9 | 4.8/16.7  | 4905  |
| (18030)                | 2000 10 20.6 | 01 42.24 -14 19.9 17.8 | -0.84 - 3.6 | 9.7/13.1  | 4225  |
| 1999 JD <sub>3</sub>   | 2000 10 20.6 | 01 42.34 -07 31.3 18.1 | -0.83 - 5.5 | 6.0/15.1  | 4933  |
| 2000 SG <sub>149</sub> | 2000 10 20.6 | 01 42.36 +09 55.1 17.9 | -0.82 - 4.1 | 0.2/20.5  | 4840  |
| 1994 PH <sub>3</sub>   | 2000 10 20.6 | 01 42.44 +24 31.1 16.6 | -0.90 - 2.5 | 4.7/24.6  | 4321  |
| 1999 NU <sub>18</sub>  | 2000 10 20.6 | 01 42.45 -06 16.8 18.5 | -0.78 - 2.9 | 5.0/15.8  | 4944  |
| 1998 BU <sub>45</sub>  | 2000 10 20.6 | 01 42.48 +13 18.2 18.4 | -1.00 - 5.3 | 1.0/21.4  | 4902  |
| 1999 NT <sub>27</sub>  | 2000 10 20.6 | 01 42.49 +08 18.1 18.3 | -0.75 - 3.9 | 0.7/20.0  | 4944  |
| 2000 QU <sub>150</sub> | 2000 10 20.7 | 01 42.50 +11 07.2 16.3 | -0.81 -12.1 | 0.2/20.9  | 5018  |
| 2000 PS <sub>6</sub>   | 2000 10 20.7 | 01 42.52 -26 04.8 17.3 | -0.97 -13.0 | 15.4/05.1 | 4592  |
| 4706 P-L               | 2000 10 20.7 | 01 42.59 +13 28.4 18.7 | -1.11 - 3.4 | 1.2/21.5  | 35048 |
| 1999 JG <sub>100</sub> | 2000 10 20.7 | 01 42.60 -07 35.0 19.3 | -0.82 - 6.1 | 5.8/15.0  | 4494  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 2791 P-L               | 2000 10 20.7 | 01 42.63 +13 41.5 17.4 | -1.17 + 2.7 | 1.4/21.3  | 5144  |
| 1993 FO <sub>18</sub>  | 2000 10 20.7 | 01 42.72 +06 14.5 18.4 | -0.97 + 0.1 | 1.5/19.7  | 4313  |
| 1981 EV <sub>13</sub>  | 2000 10 20.7 | 01 42.76 +10 34.4 17.8 | -0.72 - 6.7 | 0.0/20.7  | 4880  |
| (17297)                | 2000 10 20.7 | 01 42.82 +25 56.0 15.9 | -0.97 - 0.5 | 5.0/24.8  | 3081  |
| 1998 FG <sub>76</sub>  | 2000 10 20.8 | 01 42.87 +09 22.0 17.0 | -0.79 - 3.7 | 0.4/20.4  | 4390  |
| 1996 XN <sub>2</sub>   | 2000 10 20.8 | 01 42.99 +16 23.1 17.3 | -0.83 - 5.2 | 2.7/22.6  | 4895  |
| 1999 JU <sub>121</sub> | 2000 10 20.8 | 01 43.06 +22 44.8 17.3 | -0.98 - 8.6 | 4.7/24.7  | 4498  |
| 1995 SB <sub>34</sub>  | 2000 10 20.8 | 01 43.17 +06 01.8 18.6 | -0.81 - 5.8 | 1.5/19.4  | 4890  |
| 1999 JH <sub>79</sub>  | 2000 10 20.8 | 01 43.23 -13 59.2 18.8 | -0.84 - 5.6 | 8.0/13.1  | 4939  |
| 1999 JT <sub>7</sub>   | 2000 10 20.9 | 01 43.29 +12 31.0 20.0 | -0.99 - 6.1 | 0.6/21.4  | 35451 |
| 2000 RW <sub>47</sub>  | 2000 10 20.9 | 01 43.39 +27 54.8 17.6 | -1.12 - 3.6 | 8.1/26.0  | 4750  |
| 1999 JF <sub>81</sub>  | 2000 10 20.9 | 01 43.40 +11 53.9 16.8 | -0.81 - 8.6 | 0.4/21.3  | 4487  |
| 2000 SN <sub>85</sub>  | 2000 10 20.9 | 01 43.43 +04 48.8 17.9 | -0.87 - 4.3 | 2.0/19.3  | 4821  |
| 1998 FE <sub>25</sub>  | 2000 10 20.9 | 01 43.66 +33 04.8 17.1 | -1.15 + 0.9 | 10.2/26.9 | 4378  |
| 1998 DB <sub>28</sub>  | 2000 10 21.0 | 01 43.74 +13 05.5 18.9 | -0.96 - 8.0 | 1.0/21.8  | 4368  |
| 1999 JJ <sub>27</sub>  | 2000 10 21.0 | 01 43.78 +04 38.2 19.4 | -1.03 - 3.5 | 2.3/19.4  | 4460  |
| 2000 SK <sub>156</sub> | 2000 10 21.0 | 01 44.00 +13 48.8 17.1 | -0.99 - 4.3 | 1.1/21.9  | 4844  |
| (16454)                | 2000 10 21.1 | 01 44.06 +00 09.5 16.6 | -0.76 - 4.4 | 3.7/17.9  | 2838  |
| 1998 FZ <sub>119</sub> | 2000 10 21.1 | 01 44.15 +16 38.1 17.3 | -0.86 - 4.9 | 1.9/22.9  | 4911  |
| 2000 SY <sub>205</sub> | 2000 10 21.1 | 01 44.38 +08 36.2 17.4 | -0.76 - 4.5 | 0.6/20.5  | 4849  |
| 2000 SM <sub>149</sub> | 2000 10 21.1 | 01 44.43 +11 12.3 18.1 | -1.09 - 1.9 | 0.2/21.3  | 4840  |
| 2000 RU <sub>65</sub>  | 2000 10 21.2 | 01 44.42 +02 55.3 18.1 | -0.71 - 8.7 | 2.9/18.5  | 5050  |
| 1997 WJ <sub>21</sub>  | 2000 10 21.2 | 01 44.51 +11 00.7 18.6 | -0.98 - 7.6 | 0.1/21.3  | 4898  |
| 1997 XX                | 2000 10 21.2 | 01 44.53 -02 36.4 16.8 | -1.07 - 1.7 | 4.9/17.9  | 4899  |
| 2000 OO <sub>50</sub>  | 2000 10 21.2 | 01 44.54 -05 33.7 16.4 | -0.84 - 6.8 | 6.8/16.1  | 4972  |
| 1999 LA <sub>2</sub>   | 2000 10 21.2 | 01 44.57 +04 32.7 17.7 | -0.80 - 6.8 | 2.0/19.3  | 4942  |
| (16468)                | 2000 10 21.2 | 01 44.69 -13 59.2 17.0 | -0.84 - 5.9 | 9.0/13.0  | 2843  |
| (10607)                | 2000 10 21.2 | 01 44.73 -07 17.6 16.6 | -1.01 + 0.1 | 6.8/17.1  | 34465 |
| 1996 BA <sub>4</sub>   | 2000 10 21.2 | 01 44.78 +19 16.1 18.6 | -1.28 + 5.4 | 3.1/22.7  | 4891  |
| (17388)                | 2000 10 21.3 | 01 44.75 +01 55.6 18.2 | -0.80 - 8.0 | 2.8/18.4  | 4037  |
| 1998 FO <sub>31</sub>  | 2000 10 21.3 | 01 44.85 +06 01.4 18.0 | -0.90 - 6.0 | 1.8/19.9  | 4379  |
| 1998 BP <sub>5</sub>   | 2000 10 21.3 | 01 44.87 +22 48.1 17.3 | -1.01 - 5.1 | 5.3/25.0  | 4901  |
| 1997 YO <sub>9</sub>   | 2000 10 21.3 | 01 44.98 +05 29.3 18.2 | -0.89 - 7.1 | 1.9/19.7  | 4899  |
| (17537)                | 2000 10 21.3 | 01 45.11 +09 16.1 16.8 | -0.84 - 3.8 | 0.5/20.9  | 4079  |
| 2133 T-2               | 2000 10 21.3 | 01 45.12 +10 09.7 18.5 | -0.85 - 5.7 | 0.3/21.2  | 4866  |
| 2000 SJ <sub>237</sub> | 2000 10 21.3 | 01 45.14 +08 31.8 17.9 | -0.92 - 3.3 | 1.0/20.8  | 4851  |
| 1994 PZ <sub>27</sub>  | 2000 10 21.3 | 01 45.20 +06 09.1 18.0 | -0.79 - 4.6 | 1.5/20.0  | 4889  |
| (11366)                | 2000 10 21.4 | 01 45.17 -14 33.3 17.7 | -0.82 - 4.9 | 7.7/13.1  | 3859  |
| (10881)                | 2000 10 21.4 | 01 45.18 +10 31.0 17.4 | -0.84 - 8.8 | 0.1/21.3  | 34791 |
| 1995 VR <sub>15</sub>  | 2000 10 21.4 | 01 45.23 -00 43.3 18.0 | -0.85 - 1.3 | 3.4/18.4  | 4891  |
| 2000 PA <sub>26</sub>  | 2000 10 21.4 | 01 45.23 +29 37.7 17.7 | -1.14 - 2.4 | 7.4/26.7  | 4978  |
| 1999 FB <sub>3</sub>   | 2000 10 21.4 | 01 45.31 +11 31.6 19.2 | -1.01 - 5.0 | 0.2/21.6  | 4432  |
| 1999 JQ <sub>43</sub>  | 2000 10 21.4 | 01 45.38 +18 53.0 18.1 | -0.97 - 7.1 | 2.9/23.9  | 35458 |
| (18221)                | 2000 10 21.4 | 01 45.39 -02 26.0 18.4 | -0.67 - 9.5 | 4.3/16.7  | 4279  |
| 2000 SC <sub>117</sub> | 2000 10 21.4 | 01 45.43 +04 49.4 18.4 | -0.89 - 7.0 | 2.1/19.6  | 4831  |
| 1997 XT <sub>11</sub>  | 2000 10 21.4 | 01 45.49 -15 41.3 17.6 | -0.90 - 2.8 | 8.8/13.5  | 31796 |
| (17797)                | 2000 10 21.4 | 01 45.50 +11 20.8 16.2 | -0.79 - 7.0 | 0.2/21.6  | 4155  |
| 2000 RE <sub>4</sub>   | 2000 10 21.4 | 01 45.50 +05 12.6 17.8 | -0.81 - 6.3 | 2.5/19.7  | 5036  |
| 1999 JZ <sub>73</sub>  | 2000 10 21.4 | 01 45.55 -00 59.5 17.8 | -0.94 - 2.2 | 3.9/18.4  | 4938  |
| 2000 OJ <sub>50</sub>  | 2000 10 21.5 | 01 45.50 -09 06.2 16.0 | -0.75 - 8.2 | 8.0/14.4  | 4972  |
| 1998 FX <sub>10</sub>  | 2000 10 21.5 | 01 45.51 +16 18.0 17.8 | -0.92 - 3.4 | 1.9/23.0  | 4375  |

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|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1997 BO <sub>1</sub>   | 2000 10 21.5 | 01 45.56 +08 46.8 16.7 | -0.83 - 3.8 | 0.7/20.9  | 4896  |
| 2000 SH <sub>150</sub> | 2000 10 21.5 | 01 45.66 +12 39.0 18.1 | -1.00 - 4.5 | 0.7/22.0  | 4840  |
| 1998 HA <sub>36</sub>  | 2000 10 21.5 | 01 45.71 +07 14.1 17.0 | -0.91 - 3.0 | 1.4/20.5  | 4403  |
| 2000 SX <sub>149</sub> | 2000 10 21.5 | 01 45.80 +11 23.8 17.8 | -1.01 - 4.1 | 0.2/21.7  | 4840  |
| 1992 EL <sub>35</sub>  | 2000 10 21.5 | 01 45.86 +05 27.1 17.6 | -0.96 - 7.8 | 2.2/19.9  | 4885  |
| 1997 AN <sub>16</sub>  | 2000 10 21.6 | 01 45.90 +18 21.6 19.0 | -0.86 - 2.4 | 2.0/23.7  | 35698 |
| 1996 XB <sub>9</sub>   | 2000 10 21.6 | 01 46.01 -12 33.5 17.6 | -1.02 + 1.9 | 9.7/16.3  | 4895  |
| (17711)                | 2000 10 21.6 | 01 46.04 -14 21.9 16.4 | -0.96 - 1.1 | 9.2/15.2  | 4130  |
| 1993 FR <sub>41</sub>  | 2000 10 21.6 | 01 46.11 +09 56.8 18.6 | -0.80 - 4.7 | 0.3/21.4  | 4886  |
| 1999 GZ <sub>45</sub>  | 2000 10 21.6 | 01 46.20 +02 09.3 19.4 | -1.02 - 3.3 | 3.3/19.4  | 4445  |
| 1981 EJ <sub>38</sub>  | 2000 10 21.6 | 01 46.33 +07 46.7 17.8 | -0.82 - 7.5 | 1.0/20.7  | 4880  |
| 2000 SC <sub>118</sub> | 2000 10 21.7 | 01 46.29 +08 26.1 17.7 | -0.81 - 5.1 | 0.9/20.9  | 4831  |
| 1999 JH <sub>82</sub>  | 2000 10 21.7 | 01 46.32 +00 32.6 17.7 | -0.83 - 9.0 | 3.7/18.3  | 4488  |
| 2000 OV <sub>21</sub>  | 2000 10 21.7 | 01 46.37 +09 24.4 15.8 | -1.09 + 1.2 | 0.8/21.4  | 4965  |
| 1993 FQ <sub>73</sub>  | 2000 10 21.7 | 01 46.41 +12 28.7 18.4 | -0.83 - 4.6 | 0.5/22.2  | 26743 |
| 2000 SB <sub>86</sub>  | 2000 10 21.7 | 01 46.55 +03 37.3 17.2 | -0.94 - 2.0 | 2.8/19.9  | 4821  |
| (17617)                | 2000 10 21.7 | 01 46.55 +02 48.7 15.5 | -0.94 + 0.4 | 3.1/19.8  | 4102  |
| 1993 OJ <sub>13</sub>  | 2000 10 21.7 | 01 46.60 +13 19.7 19.8 | -1.08 - 6.0 | 0.8/22.4  | 4316  |
| 1998 FN <sub>17</sub>  | 2000 10 21.7 | 01 46.67 +06 49.2 18.3 | -0.89 - 4.1 | 1.5/20.6  | 4376  |
| 1998 FN <sub>16</sub>  | 2000 10 21.8 | 01 46.66 +00 09.7 17.5 | -0.87 - 8.3 | 4.8/18.3  | 4376  |
| 1112 T-2               | 2000 10 21.8 | 01 46.69 +10 26.5 18.5 | -0.80 - 4.5 | 0.2/21.6  | 4866  |
| 1996 RA <sub>1</sub>   | 2000 10 21.8 | 01 46.83 +16 34.1 18.2 | -1.05 - 2.0 | 2.4/23.2  | 4893  |
| 1999 JY <sub>58</sub>  | 2000 10 21.8 | 01 46.90 +04 19.8 19.4 | -0.90 - 4.2 | 2.4/20.0  | 4475  |
| 2000 SK <sub>85</sub>  | 2000 10 21.8 | 01 46.92 +00 15.4 17.3 | -0.94 - 4.4 | 4.5/18.8  | 4821  |
| (17814)                | 2000 10 21.8 | 01 46.96 +20 45.7 15.4 | -0.79 - 6.7 | 3.2/25.0  | 4161  |
| 1994 ES <sub>3</sub>   | 2000 10 21.8 | 01 46.98 -03 46.7 18.7 | -0.80 - 6.8 | 4.6/17.2  | 4320  |
| 2000 OQ <sub>22</sub>  | 2000 10 21.8 | 01 47.07 +21 10.9 16.0 | -1.13 + 2.4 | 4.8/24.1  | 4965  |
| 2000 SW <sub>237</sub> | 2000 10 21.9 | 01 47.04 -04 31.3 18.2 | -0.85 - 1.4 | 4.9/17.8  | 4851  |
| 2000 PP <sub>26</sub>  | 2000 10 21.9 | 01 47.09 +14 23.5 16.2 | -0.65 -15.4 | 1.5/23.2  | 4978  |
| 1999 JC <sub>13</sub>  | 2000 10 21.9 | 01 47.10 +06 14.9 17.4 | -0.81 - 9.9 | 1.7/20.3  | 4933  |
| 1149 T-1               | 2000 10 21.9 | 01 47.15 +08 16.2 20.1 | -0.82 - 6.0 | 0.9/21.1  | 2802  |
| 2000 QS <sub>127</sub> | 2000 10 21.9 | 01 47.16 -00 55.7 17.1 | -0.69 -11.5 | 4.9/17.5  | 5012  |
| 1999 LA <sub>7</sub>   | 2000 10 21.9 | 01 47.16 +11 34.3 18.0 | -0.95 - 5.8 | 0.2/22.1  | 4943  |
| 1105 T-1               | 2000 10 21.9 | 01 47.24 +06 59.3 17.6 | -0.82 - 7.1 | 1.4/20.7  | 5146  |
| 1992 ER <sub>28</sub>  | 2000 10 21.9 | 01 47.28 +06 58.2 18.3 | -0.79 - 4.2 | 1.4/20.8  | 4885  |
| 1998 AF                | 2000 10 21.9 | 01 47.28 +03 49.8 18.0 | -0.94 - 7.4 | 3.0/19.8  | 4356  |
| 1999 GQ <sub>18</sub>  | 2000 10 21.9 | 01 47.29 -01 09.8 19.0 | -1.03 - 2.7 | 4.1/18.9  | 4930  |
| 1998 DN <sub>5</sub>   | 2000 10 21.9 | 01 47.36 +17 17.3 18.7 | -0.93 - 6.9 | 2.1/23.9  | 31800 |
| 1996 JR <sub>1</sub>   | 2000 10 21.9 | 01 47.43 -24 33.6 17.0 | -1.42 +11.3 | 17.2/19.0 | 4892  |
| 1981 ER <sub>29</sub>  | 2000 10 22.0 | 01 47.54 +05 19.6 18.1 | -0.82 - 9.4 | 1.9/20.1  | 4880  |
| 1998 HY <sub>114</sub> | 2000 10 22.0 | 01 47.56 -05 01.9 18.9 | -0.71 - 4.8 | 3.9/17.0  | 4913  |
| 1999 JG <sub>32</sub>  | 2000 10 22.0 | 01 47.57 +04 29.3 18.7 | -1.01 - 3.9 | 2.4/20.3  | 4463  |
| 4793 P-L               | 2000 10 22.0 | 01 47.74 +08 26.1 18.8 | -0.97 - 5.1 | 0.9/21.3  | 4861  |
| 2000 SP <sub>216</sub> | 2000 10 22.0 | 01 47.76 -01 16.4 18.1 | -0.99 - 4.8 | 5.4/18.7  | 4850  |
| 1998 AH <sub>7</sub>   | 2000 10 22.0 | 01 47.82 +03 35.0 17.0 | -0.98 - 3.0 | 3.7/20.1  | 4900  |
| 2000 SM <sub>162</sub> | 2000 10 22.0 | 01 47.84 -00 10.4 18.5 | -0.84 - 1.9 | 3.5/19.1  | 4844  |
| 2000 RK <sub>105</sub> | 2000 10 22.0 | 01 47.86 +28 38.4 17.6 | -0.87 - 4.7 | 6.4/27.7  | 4800  |
| (17410)                | 2000 10 22.1 | 01 47.80 +19 05.0 16.1 | -0.97 - 8.1 | 3.4/25.0  | 4044  |
| 1997 YF <sub>10</sub>  | 2000 10 22.1 | 01 48.00 +08 49.0 17.2 | -1.07 - 4.6 | 0.9/21.5  | 4900  |
| 2000 SK <sub>150</sub> | 2000 10 22.1 | 01 48.10 +11 46.2 16.8 | -0.91 - 4.4 | 0.2/22.3  | 4841  |
| 1992 SY <sub>9</sub>   | 2000 10 22.1 | 01 48.15 +10 04.4 19.7 | -0.93 - 5.5 | 0.4/21.9  | 34579 |

|                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|----------|-------|
| 1998 FD <sub>113</sub> | 2000 10 22.1 | 01 48.16 +17 23.0 18.0 | -0.73 -10.6 | 1.8/24.4 | 4910  |
| 1998 BN <sub>1</sub>   | 2000 10 22.1 | 01 48.18 +14 01.1 17.6 | -1.06 - 3.3 | 1.3/22.9 | 4901  |
| 1998 FU <sub>57</sub>  | 2000 10 22.1 | 01 48.21 +09 09.6 18.5 | -0.79 - 6.9 | 0.6/21.6 | 4384  |
| 2000 SZ <sub>82</sub>  | 2000 10 22.1 | 01 48.22 -03 15.2 19.3 | -0.64 -11.1 | 5.3/16.9 | 4820  |
| 2000 RS <sub>5</sub>   | 2000 10 22.2 | 01 48.18 +11 00.0 16.3 | -0.93 - 2.5 | 0.1/22.2 | 4717  |
| (17854)                | 2000 10 22.2 | 01 48.26 +12 22.2 16.4 | -0.74 - 7.3 | 0.4/22.6 | 4173  |
| 2000 RC <sub>4</sub>   | 2000 10 22.2 | 01 48.31 -01 48.1 16.8 | -0.71 - 9.0 | 5.8/17.7 | 5036  |
| 1998 FL <sub>64</sub>  | 2000 10 22.2 | 01 48.37 +08 48.5 16.4 | -0.85 - 3.5 | 0.8/21.6 | 4908  |
| 1998 FT <sub>126</sub> | 2000 10 22.2 | 01 48.40 +08 59.3 19.0 | -0.96 - 1.8 | 0.7/21.7 | 4396  |
| 1997 DM                | 2000 10 22.2 | 01 48.44 +02 53.5 17.9 | -0.79 - 4.8 | 2.7/19.8 | 4346  |
| (17757)                | 2000 10 22.2 | 01 48.47 -03 46.2 17.4 | -0.78 - 7.6 | 5.2/17.4 | 4143  |
| 2000 SZ <sub>149</sub> | 2000 10 22.2 | 01 48.48 +12 59.8 17.4 | -0.92 - 1.5 | 0.6/22.7 | 4840  |
| 1992 WQ <sub>1</sub>   | 2000 10 22.2 | 01 48.49 +32 02.4 16.2 | -0.89 -12.1 | 7.4/30.1 | 4886  |
| (17448)                | 2000 10 22.2 | 01 48.52 -10 31.1 17.5 | -0.83 - 6.0 | 7.5/15.4 | 4054  |
| 1998 FX <sub>74</sub>  | 2000 10 22.2 | 01 48.56 +15 21.0 17.2 | -0.85 - 2.2 | 1.2/23.4 | 4389  |
| (11133)                | 2000 10 22.2 | 01 48.57 -03 31.3 17.6 | -0.88 - 2.5 | 4.7/18.3 | 35246 |
| 2000 SK <sub>117</sub> | 2000 10 22.3 | 01 48.55 +05 20.6 18.3 | -0.88 - 5.5 | 2.8/20.6 | 4831  |
| (11602)                | 2000 10 22.3 | 01 48.71 +28 03.5 18.5 | -0.97 - 3.9 | 5.3/27.3 | 4878  |
| 1999 NS <sub>20</sub>  | 2000 10 22.3 | 01 48.74 +11 10.9 17.8 | -0.99 - 4.5 | 0.0/22.3 | 4944  |
| 2000 SP <sub>149</sub> | 2000 10 22.3 | 01 48.82 +08 40.0 17.3 | -0.93 - 7.1 | 1.2/21.6 | 4840  |
| 1993 LD <sub>1</sub>   | 2000 10 22.3 | 01 48.92 +26 15.3 18.7 | -0.92 - 2.6 | 4.7/26.7 | 4886  |
| 1998 FO <sub>16</sub>  | 2000 10 22.3 | 01 48.96 +12 04.3 16.7 | -0.90 - 4.1 | 0.4/22.6 | 4906  |
| 1995 DH <sub>5</sub>   | 2000 10 22.3 | 01 48.98 +12 26.9 19.1 | -1.00 - 6.2 | 0.5/22.7 | 4890  |
| 2000 SN <sub>216</sub> | 2000 10 22.4 | 01 48.97 -02 26.4 18.7 | -0.84 - 8.1 | 5.4/18.0 | 4850  |
| 2000 RW <sub>65</sub>  | 2000 10 22.4 | 01 49.05 +01 17.8 17.5 | -0.93 - 5.2 | 4.5/19.6 | 4763  |
| 1998 HB <sub>57</sub>  | 2000 10 22.4 | 01 49.10 +10 07.4 17.6 | -0.76 - 6.6 | 0.4/22.1 | 4913  |
| 1999 GZ <sub>4</sub>   | 2000 10 22.4 | 01 49.10 +11 00.8 17.8 | -0.95 - 7.3 | 0.1/22.4 | 4930  |
| 1998 DX <sub>17</sub>  | 2000 10 22.4 | 01 49.14 +07 35.4 17.4 | -0.89 - 4.0 | 1.3/21.4 | 4903  |
| 1993 TR <sub>32</sub>  | 2000 10 22.4 | 01 49.18 +03 52.4 18.3 | -0.92 - 6.1 | 3.3/20.3 | 4318  |
| 1999 JV <sub>69</sub>  | 2000 10 22.4 | 01 49.28 +01 42.1 18.4 | -1.00 - 5.7 | 3.8/19.8 | 4481  |
| 1999 GA <sub>6</sub>   | 2000 10 22.4 | 01 49.41 +18 50.2 17.9 | -1.33 + 5.1 | 4.4/23.8 | 4439  |
| 1992 GN <sub>3</sub>   | 2000 10 22.5 | 01 49.31 +12 54.8 17.6 | -1.06 - 4.8 | 0.7/23.0 | 4885  |
| 1999 JM <sub>19</sub>  | 2000 10 22.5 | 01 49.32 +15 37.9 16.5 | -1.06 - 4.3 | 1.9/23.7 | 4934  |
| (17556)                | 2000 10 22.5 | 01 49.33 +14 01.2 17.0 | -1.02 - 4.8 | 1.2/23.3 | 4084  |
| 1981 EN <sub>23</sub>  | 2000 10 22.5 | 01 49.36 +13 27.6 20.3 | -1.01 - 5.2 | 0.7/23.1 | 35057 |
| 1999 JN <sub>112</sub> | 2000 10 22.5 | 01 49.37 +00 40.0 16.9 | -1.01 - 3.4 | 5.1/19.7 | 4496  |
| 1998 HM <sub>94</sub>  | 2000 10 22.5 | 01 49.53 +15 12.0 17.4 | -0.81 - 8.4 | 1.5/23.8 | 4913  |
| 1991 FS <sub>1</sub>   | 2000 10 22.5 | 01 49.59 +11 01.2 18.1 | -0.96 - 5.2 | 0.1/22.5 | 4883  |
| (17847)                | 2000 10 22.5 | 01 49.73 -08 06.8 16.6 | -0.83 - 5.7 | 7.9/16.3 | 4171  |
| 2000 SR <sub>117</sub> | 2000 10 22.5 | 01 49.76 +06 32.9 17.2 | -0.98 - 2.3 | 2.3/21.4 | 4831  |
| 2000 SP <sub>44</sub>  | 2000 10 22.6 | 01 49.89 +32 42.9 17.9 | -1.66 + 3.1 | 8.8/27.1 | 4812  |
| 1352 T-2               | 2000 10 22.6 | 01 49.93 +11 25.6 18.0 | -0.95 - 5.5 | 0.0/22.7 | 5146  |
| 1991 RK <sub>8</sub>   | 2000 10 22.6 | 01 49.93 +07 26.1 16.6 | -0.98 - 1.5 | 1.3/21.7 | 4310  |
| 1993 SR <sub>1</sub>   | 2000 10 22.6 | 01 50.07 +09 57.8 15.4 | -0.98 - 1.2 | 0.7/22.4 | 4887  |
| 1999 GY <sub>30</sub>  | 2000 10 22.7 | 01 50.12 +05 04.2 19.4 | -0.99 - 6.9 | 2.4/20.9 | 4443  |
| 1999 JP <sub>72</sub>  | 2000 10 22.7 | 01 50.15 +00 05.4 17.9 | -1.05 - 2.1 | 4.1/20.0 | 4483  |
| 1981 EW <sub>39</sub>  | 2000 10 22.7 | 01 50.17 +19 51.6 20.2 | -0.86 - 2.4 | 2.4/25.1 | 21967 |
| 4443 T-3               | 2000 10 22.7 | 01 50.19 +05 01.4 19.0 | -0.87 - 3.8 | 2.2/21.0 | 2599  |
| 2157 P-L               | 2000 10 22.7 | 01 50.20 +02 50.1 17.6 | -0.68 -11.3 | 2.7/19.6 | 4857  |
| (11100)                | 2000 10 22.7 | 01 50.23 +06 57.6 18.7 | -0.88 - 8.0 | 1.4/21.4 | 35237 |
| 2000 QN <sub>149</sub> | 2000 10 22.7 | 01 50.26 +18 39.1 17.2 | -1.01 - 0.5 | 3.0/24.5 | 5017  |

|                        |              |                   |      |       |       |           |       |                        |              |                   |      |       |       |           |       |
|------------------------|--------------|-------------------|------|-------|-------|-----------|-------|------------------------|--------------|-------------------|------|-------|-------|-----------|-------|
| 1992 RR <sub>5</sub>   | 2000 10 22.7 | 01 50.27 +05 00.3 | 17.3 | -0.98 | - 4.6 | 2.4/21.0  | 4885  | 2289 T-2               | 2000 10 23.3 | 01 52.66 +08 47.3 | 16.7 | -0.73 | - 7.7 | 0.9/22.5  | 5147  |
| (11159)                | 2000 10 22.7 | 01 50.36 +03 06.2 | 16.5 | -0.97 | - 0.4 | 4.2/20.8  | 3859  | 1998 HG <sub>68</sub>  | 2000 10 23.3 | 01 52.73 +17 51.2 | 17.5 | -1.00 | - 3.8 | 2.5/25.0  | 4913  |
| 5149 T-2               | 2000 10 22.7 | 01 50.40 +18 45.6 | 17.8 | -0.77 | - 7.2 | 2.4/25.2  | 5147  | 1999 JX <sub>89</sub>  | 2000 10 23.4 | 01 52.76 -14 43.7 | 17.8 | -0.95 | - 0.7 | 10.0/16.8 | 35117 |
| 1999 JM                | 2000 10 22.7 | 01 50.45 +06 41.2 | 17.5 | -0.84 | -10.5 | 1.7/21.2  | 4932  | 1999 NW <sub>4</sub>   | 2000 10 23.4 | 01 52.78 -21 47.3 | 18.2 | -0.74 | - 3.1 | 9.1/12.5  | 4943  |
| 1999 JX <sub>47</sub>  | 2000 10 22.8 | 01 50.45 +11 20.3 | 18.7 | -1.11 | - 3.7 | 0.0/22.8  | 4469  | 2000 ST <sub>150</sub> | 2000 10 23.4 | 01 52.82 +12 47.7 | 17.9 | -0.88 | - 4.9 | 0.5/23.8  | 4841  |
| 1998 FU <sub>62</sub>  | 2000 10 22.8 | 01 50.46 +13 54.4 | 17.4 | -0.87 | - 4.7 | 0.9/23.5  | 4908  | 1166 T-2               | 2000 10 23.4 | 01 52.82 +18 51.3 | 18.6 | -1.07 | - 3.4 | 2.7/25.3  | 5146  |
| 1991 GY <sub>3</sub>   | 2000 10 22.8 | 01 50.46 +12 19.0 | 18.8 | -1.00 | - 4.4 | 0.3/23.1  | 4883  | 1331 T-2               | 2000 10 23.4 | 01 52.98 +13 57.6 | 18.2 | -0.88 | - 5.2 | 0.9/24.1  | 5146  |
| (17507)                | 2000 10 22.8 | 01 50.54 +15 27.6 | 18.0 | -1.06 | - 4.9 | 1.5/23.9  | 4070  | 1998 BX <sub>24</sub>  | 2000 10 23.4 | 01 53.08 +04 13.3 | 20.0 | -0.86 | - 5.5 | 2.2/21.3  | 4901  |
| 1996 QC <sub>1</sub>   | 2000 10 22.8 | 01 50.55 +05 30.1 | 19.5 | -1.02 | - 3.7 | 2.1/21.3  | 4334  | 1999 JH <sub>36</sub>  | 2000 10 23.4 | 01 53.13 +12 06.0 | 17.7 | -0.84 | - 9.8 | 0.2/23.6  | 4465  |
| 2000 SE <sub>152</sub> | 2000 10 22.8 | 01 50.56 +12 41.7 | 17.9 | -1.14 | - 1.1 | 0.6/23.1  | 4842  | 1999 JZ <sub>32</sub>  | 2000 10 23.4 | 01 53.15 +08 34.1 | 18.7 | -0.95 | - 4.1 | 1.1/22.7  | 4464  |
| 1999 JX <sub>43</sub>  | 2000 10 22.8 | 01 50.65 +09 58.6 | 17.5 | -1.05 | - 0.7 | 0.5/22.5  | 4467  | 2000 OZ <sub>52</sub>  | 2000 10 23.4 | 01 53.17 +13 21.9 | 16.6 | -0.84 | - 5.2 | 0.9/24.0  | 4973  |
| 1998 GY <sub>8</sub>   | 2000 10 22.8 | 01 50.67 -09 47.5 | 19.2 | -0.87 | - 5.0 | 6.5/16.3  | 4911  | 1989 GM <sub>2</sub>   | 2000 10 23.5 | 01 53.13 +12 42.6 | 18.2 | -0.85 | - 6.6 | 0.4/23.8  | 4882  |
| 2000 SY <sub>150</sub> | 2000 10 22.8 | 01 50.68 +12 21.8 | 18.0 | -0.91 | - 4.0 | 0.4/23.1  | 4841  | (17791)                | 2000 10 23.5 | 01 53.29 +07 43.5 | 15.6 | -0.84 | - 9.3 | 1.7/22.3  | 4153  |
| 2000 SF <sub>151</sub> | 2000 10 22.8 | 01 50.71 +11 21.9 | 17.1 | -0.92 | - 4.3 | 0.0/22.9  | 4842  | 1981 EA <sub>15</sub>  | 2000 10 23.5 | 01 53.37 +24 44.7 | 19.3 | -0.87 | - 2.9 | 3.8/27.3  | 4880  |
| 1999 RA <sub>144</sub> | 2000 10 22.8 | 01 50.74 +08 35.4 | 18.5 | -0.49 | - 3.8 | 0.5/22.0  | 4518  | 9567 P-L               | 2000 10 23.5 | 01 53.43 +11 37.7 | 17.6 | -0.84 | - 2.0 | 0.0/23.6  | 5146  |
| 2000 OK <sub>50</sub>  | 2000 10 22.9 | 01 50.89 -01 28.2 | 16.3 | -0.94 | - 1.0 | 6.4/19.7  | 4972  | 1999 JV <sub>44</sub>  | 2000 10 23.5 | 01 53.49 +12 50.6 | 19.0 | -1.04 | - 5.8 | 0.5/23.9  | 4936  |
| 6104 P-L               | 2000 10 22.9 | 01 50.92 +10 23.2 | 18.0 | -0.75 | - 5.4 | 0.3/22.6  | 5145  | 2000 OY <sub>20</sub>  | 2000 10 23.5 | 01 53.50 +06 21.0 | 16.2 | -0.75 | - 8.2 | 2.4/21.8  | 4965  |
| 1991 FM <sub>2</sub>   | 2000 10 22.9 | 01 50.94 -09 10.8 | 18.9 | -0.79 | -11.2 | 6.7/15.0  | 30781 | 1999 JJ <sub>1</sub>   | 2000 10 23.5 | 01 53.55 +09 21.6 | 20.1 | -0.96 | - 7.6 | 0.8/22.9  | 2647  |
| 1990 WC <sub>2</sub>   | 2000 10 22.9 | 01 51.01 +05 16.0 | 18.5 | -0.74 | - 7.6 | 2.0/20.9  | 4308  | 2000 RY <sub>65</sub>  | 2000 10 23.5 | 01 53.55 -02 07.7 | 17.7 | -0.81 | - 8.2 | 4.9/19.1  | 4764  |
| 2000 SJ <sub>46</sub>  | 2000 10 22.9 | 01 51.07 +35 12.0 | 16.4 | -1.00 | - 6.2 | 9.0/31.1  | 4814  | 1999 FH <sub>31</sub>  | 2000 10 23.5 | 01 53.55 +00 34.3 | 16.1 | -1.01 | - 1.5 | 4.9/21.0  | 4436  |
| 1999 JJ <sub>76</sub>  | 2000 10 22.9 | 01 51.10 +03 24.2 | 18.3 | -0.99 | - 2.9 | 3.0/20.9  | 4485  | 1998 FK <sub>3</sub>   | 2000 10 23.6 | 01 53.54 -09 24.9 | 18.0 | -0.82 | - 7.6 | 7.6/16.5  | 32062 |
| 2000 SB <sub>151</sub> | 2000 10 22.9 | 01 51.11 +10 37.6 | 18.2 | -0.97 | - 7.1 | 0.3/22.7  | 4841  | 1998 HP <sub>94</sub>  | 2000 10 23.6 | 01 53.73 +11 00.5 | 17.6 | -0.91 | - 1.4 | 0.2/23.5  | 4406  |
| (11362)                | 2000 10 22.9 | 01 51.13 +08 24.7 | 16.9 | -0.91 | - 4.1 | 1.1/22.1  | 35581 | 1981 EL <sub>35</sub>  | 2000 10 23.6 | 01 53.77 +18 27.8 | 19.7 | -0.75 | - 6.2 | 1.9/25.8  | 26921 |
| 1998 FV <sub>62</sub>  | 2000 10 22.9 | 01 51.18 +09 02.7 | 17.6 | -0.75 | - 7.1 | 0.7/22.2  | 4387  | (11653)                | 2000 10 23.6 | 01 53.82 -02 23.6 | 17.7 | -0.72 | - 5.0 | 4.1/19.3  | 35872 |
| 2000 SM <sub>119</sub> | 2000 10 23.0 | 01 51.22 +06 53.0 | 17.5 | -1.07 | + 2.0 | 1.9/22.1  | 4832  | 2000 QX <sub>123</sub> | 2000 10 23.6 | 01 53.92 +03 27.6 | 17.8 | -1.02 | - 2.7 | 3.7/21.6  | 4647  |
| 1996 RS <sub>21</sub>  | 2000 10 23.0 | 01 51.25 +09 41.5 | 19.4 | -0.96 | - 4.9 | 0.7/22.5  | 4893  | 1998 BC <sub>44</sub>  | 2000 10 23.7 | 01 53.89 +03 32.1 | 18.5 | -0.99 | - 4.3 | 2.9/21.5  | 31430 |
| 1994 AC <sub>1</sub>   | 2000 10 23.0 | 01 51.38 +28 59.2 | 16.5 | -0.97 | - 4.0 | 8.4/28.3  | 4888  | 1996 HH <sub>10</sub>  | 2000 10 23.7 | 01 53.98 +10 23.0 | 18.3 | -1.01 | - 7.6 | 0.6/23.3  | 4892  |
| (11103)                | 2000 10 23.0 | 01 51.48 +10 06.1 | 16.5 | -0.82 | - 5.2 | 0.5/22.7  | 35238 | (18266)                | 2000 10 23.7 | 01 54.03 +19 03.0 | 18.5 | -1.01 | - 6.0 | 2.9/25.9  | 4292  |
| (11604)                | 2000 10 23.0 | 01 51.60 +18 29.1 | 17.4 | -0.79 | - 6.4 | 2.1/25.3  | 3859  | 1999 JJ <sub>23</sub>  | 2000 10 23.7 | 01 54.10 +11 42.0 | 18.6 | -0.92 | - 8.0 | 0.6/25.0  | 4458  |
| 1999 NO                | 2000 10 23.0 | 01 51.62 +09 43.5 | 18.8 | -0.85 | - 3.8 | 0.6/22.6  | 4943  | 2000 SK <sub>151</sub> | 2000 10 23.7 | 01 54.15 +11 10.3 | 17.3 | -0.98 | - 4.9 | 0.2/23.6  | 4842  |
| 1997 YJ <sub>11</sub>  | 2000 10 23.1 | 01 51.73 +14 13.9 | 18.8 | -0.94 | - 4.1 | 0.9/23.9  | 4900  | 2000 SL <sub>86</sub>  | 2000 10 23.7 | 01 54.16 +02 42.4 | 16.1 | -0.91 | + 0.4 | 3.4/21.6  | 4821  |
| 2000 RH <sub>105</sub> | 2000 10 23.1 | 01 51.73 +29 52.4 | 16.5 | -0.93 | - 6.3 | 7.6/29.2  | 4800  | (11647)                | 2000 10 23.7 | 01 54.20 +10 39.4 | 17.0 | -0.82 | - 3.7 | 0.3/23.5  | 35870 |
| 1998 KW <sub>53</sub>  | 2000 10 23.1 | 01 51.75 -20 21.5 | 17.8 | -0.86 | - 0.1 | 9.1/14.0  | 4414  | 1999 JO <sub>68</sub>  | 2000 10 23.7 | 01 54.24 +05 59.1 | 17.8 | -1.06 | - 3.4 | 2.2/22.3  | 4481  |
| 1997 AT <sub>21</sub>  | 2000 10 23.1 | 01 51.77 -09 46.3 | 18.1 | -0.93 | - 1.3 | 7.1/17.5  | 4896  | 2000 SU <sub>151</sub> | 2000 10 23.7 | 01 54.25 +08 45.0 | 16.7 | -0.91 | - 6.1 | 1.3/22.9  | 4842  |
| 1999 JO <sub>84</sub>  | 2000 10 23.1 | 01 51.80 +00 51.2 | 16.7 | -0.80 | -10.1 | 4.0/19.6  | 4940  | (11071)                | 2000 10 23.7 | 01 54.30 +17 55.8 | 17.8 | -0.81 | - 4.3 | 1.8/25.6  | 35230 |
| 1997 MM <sub>3</sub>   | 2000 10 23.1 | 01 51.92 -41 52.7 | 18.2 | -1.25 | + 7.4 | 27.1/05.0 | 4348  | 2000 OT <sub>35</sub>  | 2000 10 23.8 | 01 54.32 -09 14.1 | 17.2 | -0.74 | - 7.8 | 9.0/16.7  | 4967  |
| 2000 SH <sub>143</sub> | 2000 10 23.1 | 01 51.98 +21 49.9 | 16.8 | -0.73 | -11.6 | 3.3/27.0  | 4836  | 2000 SR <sub>187</sub> | 2000 10 23.8 | 01 54.37 -05 25.6 | 17.9 | -0.82 | - 2.6 | 5.7/19.1  | 4848  |
| (17660)                | 2000 10 23.2 | 01 52.00 +20 57.3 | 16.0 | -0.95 | - 3.2 | 4.4/25.8  | 4115  | (11144)                | 2000 10 23.8 | 01 54.43 +06 30.7 | 17.6 | -0.81 | - 4.8 | 1.8/22.3  | 35249 |
| 2000 RZ <sub>92</sub>  | 2000 10 23.2 | 01 52.01 +25 50.7 | 18.0 | -1.17 | - 0.8 | 6.0/26.6  | 4790  | (17930)                | 2000 10 23.8 | 01 54.48 +11 34.4 | 17.1 | -1.01 | - 7.2 | 0.1/23.8  | 4195  |
| (17312)                | 2000 10 23.2 | 01 52.02 +07 47.5 | 15.0 | -1.09 | + 0.9 | 1.9/22.4  | 3085  | 2000 SS <sub>151</sub> | 2000 10 23.8 | 01 54.64 +09 30.8 | 17.7 | -0.84 | - 5.8 | 0.9/23.2  | 4842  |
| 1999 KY <sub>4</sub>   | 2000 10 23.2 | 01 52.09 +08 17.3 | 18.1 | -0.88 | - 5.5 | 1.2/22.3  | 4942  | (17395)                | 2000 10 23.8 | 01 54.65 +00 25.8 | 17.6 | -0.75 | -10.2 | 4.5/20.0  | 4039  |
| 1999 JR <sub>83</sub>  | 2000 10 23.2 | 01 52.11 -12 16.9 | 17.7 | -0.85 | - 3.8 | 9.1/16.2  | 4488  | 1999 GN <sub>20</sub>  | 2000 10 23.8 | 01 54.66 +06 58.0 | 19.5 | -0.95 | - 6.7 | 1.6/22.5  | 4931  |
| 2000 SY <sub>151</sub> | 2000 10 23.2 | 01 52.13 +12 11.1 | 17.8 | -1.09 | + 1.3 | 0.3/23.4  | 4842  | 1981 EJ <sub>16</sub>  | 2000 10 23.9 | 01 54.69 +20 34.6 | 19.3 | -1.10 | - 3.8 | 3.4/26.3  | 4880  |
| (18018)                | 2000 10 23.2 | 01 52.26 +15 14.5 | 15.5 | -1.14 | - 2.4 | 1.6/24.2  | 4221  | (18007)                | 2000 10 23.9 | 01 54.71 -13 08.8 | 16.6 | -0.85 | - 1.7 | 11.2/16.8 | 4218  |
| 1999 JY <sub>65</sub>  | 2000 10 23.3 | 01 52.39 +09 52.8 | 15.6 | -0.75 | -12.6 | 0.7/22.7  | 4479  | 1998 FR                | 2000 10 23.9 | 01 54.72 +06 41.5 | 20.1 | -0.83 | - 4.6 | 1.7/22.5  | 32684 |
| 2000 SE <sub>151</sub> | 2000 10 23.3 | 01 52.45 +11 09.3 | 18.1 | -0.78 | - 5.1 | 0.1/23.2  | 4841  | 2000 OY <sub>8</sub>   | 2000 10 23.9 | 01 54.81 +14 57.0 | 15.9 | -0.88 | - 4.4 | 1.6/25.0  | 4577  |
| 1996 XE <sub>12</sub>  | 2000 10 23.3 | 01 52.47 +10 36.0 | 17.6 | -0.86 | - 3.7 | 0.3/23.1  | 4895  | 1998 FX <sub>133</sub> | 2000 10 23.9 | 01 54.84 +10 24.9 | 20.5 | -0.76 | - 4.3 | 0.3/23.6  | 32325 |
| 2000 RX <sub>45</sub>  | 2000 10 23.3 | 01 52.53 +27 20.2 | 17.6 | -1.20 | + 1.4 | 6.4/26.9  | 4749  | 1997 YN <sub>8</sub>   | 2000 10 23.9 | 01 54.88 +13 15.8 | 16.8 | -1.08 | - 4.6 | 0.6/24.3  | 4899  |
| (17427)                | 2000 10 23.3 | 01 52.59 +06 05.3 | 17.5 | -0.65 | - 6.4 | 1.5/21.6  | 4048  | 1999 JN <sub>23</sub>  | 2000 10 23.9 | 01 54.95 +07 07.8 | 17.6 | -1.07 | - 2.4 | 1.8/22.8  | 4459  |
| 1999 KN <sub>3</sub>   | 2000 10 23.3 | 01 52.64 +09 25.0 | 19.1 | -0.92 | - 5.3 | 0.7/22.8  | 4501  | 2000 SX <sub>150</sub> | 2000 10 23.9 | 01 54.95 +12 36.7 | 17.8 | -0.81 | - 6.8 | 0.3/24.2  | 4841  |
| (17601)                | 2000 10 23.3 | 01 52.65 +24 33.3 | 17.1 | -1.09 | -25.8 | 5.7/28.5  | 4097  | 2000 SM <sub>86</sub>  | 2000 10 23.9 | 01 55.08 -00 49.7 | 17.7 | -0.92 | - 6.0 | 5.3/20.3  | 5090  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 5585 P-L               | 2000 10 24.0 | 01 55.09 +12 18.8 18.7 | -0.85 - 4.0 | 0.2/24.2  | 5145  |
| 1999 JJ <sub>56</sub>  | 2000 10 24.0 | 01 55.11 +11 54.2 17.3 | -0.79 -10.3 | 0.0/24.1  | 4475  |
| 2000 RA <sub>6</sub>   | 2000 10 24.0 | 01 55.27 +13 35.8 16.6 | -1.17 - 1.3 | 0.8/24.5  | 5036  |
| 1998 FX <sub>109</sub> | 2000 10 24.0 | 01 55.46 +09 19.5 17.7 | -0.81 -14.8 | 0.9/23.2  | 4394  |
| (12033)                | 2000 10 24.1 | 01 55.39 +08 05.7 18.5 | -0.73 - 3.9 | 1.0/23.0  | 36281 |
| 1997 YR <sub>1</sub>   | 2000 10 24.1 | 01 55.39 +23 49.7 18.4 | -0.93 - 7.4 | 3.7/27.9  | 4899  |
| 1998 HY <sub>80</sub>  | 2000 10 24.1 | 01 55.43 +10 29.2 19.1 | -0.76 - 3.5 | 0.4/23.7  | 4406  |
| 2000 OX <sub>50</sub>  | 2000 10 24.1 | 01 55.69 +00 54.8 15.8 | -0.94 - 1.2 | 5.4/21.4  | 4972  |
| 2000 RY <sub>66</sub>  | 2000 10 24.1 | 01 55.71 +13 55.7 17.1 | -0.85 - 5.3 | 1.0/24.8  | 5051  |
| 2000 SK <sub>225</sub> | 2000 10 24.1 | 01 55.71 +08 20.5 17.9 | -0.85 - 5.3 | 1.2/23.2  | 4850  |
| 1999 GL <sub>18</sub>  | 2000 10 24.1 | 01 55.79 +08 45.7 17.4 | -1.10 - 3.4 | 1.3/23.4  | 4930  |
| 1999 JR <sub>21</sub>  | 2000 10 24.2 | 01 55.91 +19 38.1 16.1 | -0.96 - 7.6 | 3.2/26.6  | 4934  |
| 1058 T-2               | 2000 10 24.2 | 01 55.95 +11 02.2 18.1 | -0.76 - 5.6 | 0.2/24.0  | 5146  |
| 1998 FD <sub>33</sub>  | 2000 10 24.2 | 01 55.95 +08 21.7 17.8 | -0.85 - 4.8 | 1.2/23.2  | 4906  |
| 1998 HN <sub>68</sub>  | 2000 10 24.2 | 01 55.96 +16 12.1 18.7 | -0.77 - 4.5 | 1.2/25.5  | 4913  |
| 1999 JF <sub>18</sub>  | 2000 10 24.2 | 01 56.08 +17 13.8 18.5 | -0.95 - 8.4 | 1.9/25.9  | 4455  |
| 1999 JP <sub>78</sub>  | 2000 10 24.2 | 01 56.19 -13 14.8 17.6 | -0.99 - 2.3 | 9.4/17.7  | 35464 |
| 1986 QG <sub>3</sub>   | 2000 10 24.3 | 01 56.21 +14 48.8 16.4 | -0.94 - 2.5 | 1.2/25.1  | 4881  |
| 1999 JL <sub>37</sub>  | 2000 10 24.3 | 01 56.23 +19 28.8 17.4 | -0.88 -10.2 | 2.8/26.9  | 4935  |
| 2000 SA <sub>101</sub> | 2000 10 24.3 | 01 56.33 +29 14.5 16.1 | -0.93 - 6.1 | 5.9/29.7  | 4824  |
| 1998 EQ <sub>1</sub>   | 2000 10 24.3 | 01 56.33 +03 15.8 18.2 | -0.80 - 9.4 | 2.9/21.5  | 4904  |
| 1999 JF <sub>71</sub>  | 2000 10 24.3 | 01 56.41 -04 32.4 16.5 | -0.89 - 2.7 | 7.3/20.0  | 4938  |
| 1999 GY <sub>3</sub>   | 2000 10 24.3 | 01 56.43 +34 06.6 19.7 | -1.34 + 0.1 | 6.7/29.9  | 36541 |
| 1998 KZ <sub>3</sub>   | 2000 10 24.3 | 01 56.57 +02 39.1 17.2 | -0.89 - 4.7 | 3.3/21.7  | 4914  |
| (10826)                | 2000 10 24.3 | 01 56.59 +22 34.4 16.0 | -1.03 - 8.3 | 4.2/27.7  | 34777 |
| 4252 P-L               | 2000 10 24.3 | 01 56.60 +17 54.2 19.3 | -1.15 - 5.8 | 2.7/26.0  | 2801  |
| 2000 SO <sub>213</sub> | 2000 10 24.4 | 01 56.57 -04 30.6 15.5 | -0.86 - 0.8 | 6.0/20.1  | 4849  |
| 1998 BG <sub>31</sub>  | 2000 10 24.4 | 01 56.63 +27 46.2 17.2 | -1.04 - 4.8 | 5.8/29.1  | 4360  |
| 1998 BY <sub>33</sub>  | 2000 10 24.4 | 01 56.77 +05 40.9 16.7 | -1.04 - 2.2 | 2.8/22.9  | 4361  |
| 1998 HJ <sub>100</sub> | 2000 10 24.4 | 01 56.78 +07 13.3 17.7 | -0.80 - 7.5 | 1.6/23.0  | 4913  |
| 1998 EK <sub>12</sub>  | 2000 10 24.4 | 01 56.84 +13 17.2 15.9 | -1.02 - 0.7 | 0.5/24.8  | 4905  |
| (16400)                | 2000 10 24.4 | 01 56.86 +13 58.0 16.4 | -1.00 - 7.6 | 0.9/25.0  | 2822  |
| 1998 HV <sub>93</sub>  | 2000 10 24.4 | 01 56.87 +16 10.7 17.8 | -0.81 - 3.8 | 1.2/25.7  | 4913  |
| 1999 HO <sub>11</sub>  | 2000 10 24.4 | 01 56.92 +13 24.1 19.1 | -1.10 - 4.6 | 0.6/25.0  | 4448  |
| 2000 RP <sub>6</sub>   | 2000 10 24.4 | 01 56.97 +12 38.9 16.3 | -0.87 - 2.4 | 0.3/24.7  | 5036  |
| 1998 FE <sub>79</sub>  | 2000 10 24.4 | 01 57.03 +06 40.2 17.0 | -1.21 + 2.1 | 2.4/23.5  | 4391  |
| 1995 FD <sub>1</sub>   | 2000 10 24.5 | 01 56.92 +14 04.6 18.2 | -0.99 - 4.9 | 0.7/25.1  | 4890  |
| (11065)                | 2000 10 24.5 | 01 57.07 +00 52.3 15.5 | -0.94 - 0.2 | 4.5/21.9  | 35228 |
| (11422)                | 2000 10 24.5 | 01 57.17 +14 18.2 17.5 | -0.92 - 6.3 | 0.8/25.2  | 35597 |
| (11584)                | 2000 10 24.5 | 01 57.26 +25 53.6 17.4 | -0.90 - 2.9 | 4.6/28.5  | 3859  |
| 1997 XN <sub>3</sub>   | 2000 10 24.5 | 01 57.27 +06 07.0 18.6 | -0.95 - 4.7 | 2.0/23.0  | 4899  |
| 1992 CR <sub>2</sub>   | 2000 10 24.5 | 01 57.35 +10 46.4 17.4 | -1.01 - 7.5 | 0.5/24.2  | 4884  |
| 1999 JG <sub>78</sub>  | 2000 10 24.6 | 01 57.30 +12 27.4 16.0 | -1.15 + 0.6 | 9.6/14.0  | 4939  |
| 1999 JP <sub>76</sub>  | 2000 10 24.6 | 01 57.30 +10 33.0 16.0 | -0.82 -10.4 | 0.6/24.1  | 4485  |
| 2000 RW <sub>5</sub>   | 2000 10 24.6 | 01 57.52 +12 59.7 16.8 | -0.91 - 4.0 | 11.8/14.0 | 4717  |
| 2000 RD <sub>93</sub>  | 2000 10 24.6 | 01 57.71 +23 33.8 17.1 | -0.98 - 5.6 | 4.2/28.1  | 4790  |
| 1996 XM <sub>3</sub>   | 2000 10 24.6 | 01 57.77 +14 39.5 19.1 | -1.05 - 0.5 | 1.1/25.3  | 4340  |
| 1994 CJ <sub>2</sub>   | 2000 10 24.7 | 01 57.79 -00 04.2 18.6 | -0.87 - 4.9 | 3.9/21.3  | 4888  |
| 1999 LE <sub>19</sub>  | 2000 10 24.7 | 01 57.83 +05 49.8 18.5 | -0.88 - 1.2 | 2.0/23.2  | 4943  |
| (11465)                | 2000 10 24.7 | 01 57.95 -06 07.2 17.4 | -0.70 - 8.3 | 5.4/18.5  | 35823 |
| 1999 JP <sub>53</sub>  | 2000 10 24.7 | 01 57.99 +10 01.1 16.9 | -0.85 - 9.6 | 0.9/24.1  | 4936  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1993 TX <sub>15</sub>  | 2000 10 24.7 | 01 58.00 +09 33.9 18.0 | -1.03 - 4.3 | 1.1/24.1  | 32231 |
| 1999 JG <sub>25</sub>  | 2000 10 24.7 | 01 58.16 +18 54.4 17.5 | -1.03 - 6.0 | 2.5/26.7  | 4460  |
| 1996 VR <sub>15</sub>  | 2000 10 24.8 | 01 58.31 +09 48.3 18.7 | -0.93 - 3.9 | 1.0/24.2  | 4339  |
| 1999 KE <sub>14</sub>  | 2000 10 24.8 | 01 58.37 +07 12.6 17.3 | -1.09 - 1.9 | 1.8/23.7  | 4503  |
| 2000 SX <sub>119</sub> | 2000 10 24.8 | 01 58.45 +04 32.5 17.0 | -0.97 - 5.6 | 2.7/22.8  | 4832  |
| 1999 JF <sub>72</sub>  | 2000 10 24.8 | 01 58.49 +03 55.3 19.2 | -1.03 - 5.8 | 3.2/22.6  | 4482  |
| 1995 EZ <sub>4</sub>   | 2000 10 24.8 | 01 58.53 +06 40.8 19.4 | -0.96 - 5.5 | 1.9/23.4  | 34856 |
| 1998 HZ <sub>93</sub>  | 2000 10 24.9 | 01 58.49 +14 00.4 20.0 | -0.98 - 1.6 | 0.6/25.4  | 4406  |
| 1999 JY <sub>48</sub>  | 2000 10 24.9 | 01 58.53 +11 26.9 17.9 | -0.92 - 3.8 | 9.4/14.0  | 4469  |
| 1996 VU <sub>6</sub>   | 2000 10 24.9 | 01 58.54 +00 03.9 15.7 | -0.88 + 3.2 | 6.5/22.4  | 4894  |
| 1998 DF <sub>10</sub>  | 2000 10 24.9 | 01 58.58 -04 13.5 16.7 | -0.74 -10.6 | 6.7/19.2  | 4903  |
| 2000 RB <sub>6</sub>   | 2000 10 24.9 | 01 58.66 +17 24.0 15.6 | -1.15 + 3.8 | 2.7/25.9  | 4717  |
| (17605)                | 2000 10 24.9 | 01 58.71 +11 35.8 17.2 | -0.83 - 5.1 | 0.2/24.8  | 4098  |
| 1998 BU <sub>33</sub>  | 2000 10 24.9 | 01 58.75 +03 00.6 18.4 | -0.90 - 4.0 | 3.2/22.5  | 4361  |
| 2000 SQ <sub>152</sub> | 2000 10 24.9 | 01 58.76 +12 46.0 17.8 | -0.80 - 3.2 | 0.2/25.1  | 4843  |
| (11104)                | 2000 10 24.9 | 01 58.78 +21 24.1 16.6 | -0.80 - 8.2 | 3.1/28.0  | 35238 |
| 1998 KE <sub>41</sub>  | 2000 10 25.0 | 01 58.85 +24 12.9 18.9 | -0.77 - 7.2 | 3.2/28.9  | 32334 |
| (16519)                | 2000 10 25.0 | 01 58.87 -00 14.1 17.8 | -0.94 - 3.2 | 6.1/21.7  | 2857  |
| 1981 ET <sub>40</sub>  | 2000 10 25.0 | 01 58.96 +17 00.7 18.5 | -0.92 - 4.7 | 1.7/26.4  | 31947 |
| 1996 VS <sub>13</sub>  | 2000 10 25.0 | 01 58.97 +11 55.2 18.8 | -0.92 - 5.4 | 0.1/25.0  | 4895  |
| 1999 JR <sub>76</sub>  | 2000 10 25.0 | 01 59.11 +12 25.8 16.9 | -0.83 - 8.8 | 0.1/25.1  | 4939  |
| 1998 HE <sub>121</sub> | 2000 10 25.0 | 01 59.24 -04 10.6 16.8 | -0.85 - 1.6 | 5.5/20.8  | 4913  |
| 2000 SR <sub>44</sub>  | 2000 10 25.0 | 01 59.29 +13 35.4 18.0 | -0.96 - 4.0 | 0.6/25.5  | 4813  |
| 2000 QN <sub>9</sub>   | 2000 10 25.0 | 01 59.30 +21 16.7 18.2 | -1.05 - 1.8 | 3.0/27.4  | 4982  |
| (15418)                | 2000 10 25.1 | 01 59.26 -00 32.6 18.0 | -0.81 - 5.4 | 4.0/21.4  | 884   |
| 2000 SQ <sub>4</sub>   | 2000 10 25.1 | 01 59.37 +05 43.3 16.1 | -1.72 + 9.3 | 3.3/24.5  | 4802  |
| 1999 JN <sub>83</sub>  | 2000 10 25.1 | 01 59.56 -16 33.0 18.0 | -0.92 - 2.1 | 10.8/17.2 | 4940  |
| (17490)                | 2000 10 25.1 | 01 59.57 +10 02.6 16.5 | -0.81 - 6.2 | 0.9/24.5  | 4066  |
| 4184 P-L               | 2000 10 25.1 | 01 59.59 +22 32.8 17.9 | -1.05 - 3.9 | 4.5/28.0  | 5145  |
| 2000 SA <sub>120</sub> | 2000 10 25.1 | 01 59.62 +08 07.9 17.3 | -0.75 - 6.2 | 1.1/23.9  | 4832  |
| 1998 FA <sub>58</sub>  | 2000 10 25.2 | 01 59.68 +07 15.0 17.2 | -0.75 - 7.3 | 1.6/23.7  | 4384  |
| 1994 PA <sub>3</sub>   | 2000 10 25.2 | 01 59.71 +11 42.2 17.6 | -0.78 - 4.8 | 0.2/25.1  | 4321  |
| 1998 BJ <sub>24</sub>  | 2000 10 25.2 | 01 59.73 +06 53.2 18.9 | -0.98 - 5.4 | 2.2/23.8  | 4359  |
| (17133)                | 2000 10 25.2 | 01 59.78 +01 56.5 16.9 | -0.83 - 8.4 | 3.4/22.0  | 3036  |
| 1995 JJ <sub>1</sub>   | 2000 10 25.2 | 01 59.99 +06 38.9 18.4 | -0.94 - 4.9 | 1.9/23.8  | 4327  |
| 1998 CQ <sub>1</sub>   | 2000 10 25.3 | 01 59.98 +06 32.2 19.4 | -1.07 - 1.5 | 2.1/24.0  | 4362  |
| 2000 SH <sub>10</sub>  | 2000 10 25.3 | 02 00.05 +12 21.6 16.8 | -0.86 - 9.3 | 0.1/25.4  | 4805  |
| 1995 FT <sub>4</sub>   | 2000 10 25.3 | 02 00.06 +10 50.0 18.6 | -1.02 - 4.3 | 0.5/25.0  | 4890  |
| 1999 KR <sub>5</sub>   | 2000 10 25.3 | 02 00.06 +04 06.8 19.7 | -1.10 - 1.7 | 2.9/23.4  | 4501  |
| 1998 BR <sub>15</sub>  | 2000 10 25.3 | 02 00.13 -03 39.6 18.5 | -0.93 - 3.0 | 6.0/21.2  | 4901  |
| 1999 JZ <sub>66</sub>  | 2000 10 25.3 | 02 00.13 +01 50.3 17.5 | -1.04 - 2.2 | 4.3/22.8  | 4480  |
| (11148)                | 2000 10 25.3 | 02 00.17 +06 13.7 18.2 | -0.95 - 4.6 | 2.1/23.7  | 35250 |
| 1997 GV <sub>18</sub>  | 2000 10 25.3 | 02 00.28 +11 49.3 17.5 | -0.75 - 5.5 | 0.1/25.2  | 4897  |
| 2000 RU <sub>6</sub>   | 2000 10 25.3 | 02 00.38 +17 06.7 18.4 | -1.02 - 0.7 | 1.9/26.5  | 4717  |
| 1996 XK <sub>31</sub>  | 2000 10 25.3 | 02 00.43 +07 25.4 16.4 | -0.77 - 5.9 | 2.2/23.9  | 4895  |
| (17479)                | 2000 10 25.4 | 02 00.39 -02 51.8 17.0 | -0.84 - 7.7 | 5.1/20.7  | 4063  |
| 1996 TA <sub>55</sub>  | 2000 10 25.4 | 02 00.57 +19 02.7 17.5 | -1.04 - 3.0 | 2.9/27.2  | 4894  |
| (16714)                | 2000 10 25.4 | 02 00.66 +07 07.5 17.3 | -0.84 - 4.0 | 1.8/24.0  | 2913  |
| 1998 FX <sub>31</sub>  | 2000 10 25.4 | 02 00.67 +13 02.5 17.4 | -0.95 - 6.1 | 0.3/25.7  | 4379  |
| 1999 NN <sub>20</sub>  | 2000 10 25.4 | 02 00.68 +16 10.8 19.9 | -0.90 - 4.6 | 1.2/26.6  | 4944  |
| 1998 BH <sub>8</sub>   | 2000 10 25.4 | 02 00.69 -06 05.8 17.2 | -0.86 - 3.9 | 6.3/20.4  | 4901  |

|                        |              |                   |      |       |       |           |       |                        |              |                   |      |       |       |           |       |
|------------------------|--------------|-------------------|------|-------|-------|-----------|-------|------------------------|--------------|-------------------|------|-------|-------|-----------|-------|
| 1994 PT <sub>19</sub>  | 2000 10 25.4 | 02 00.76 +10 54.3 | 17.5 | -0.79 | - 4.7 | 0.4/25.1  | 4889  | 1998 KY <sub>65</sub>  | 2000 10 26.1 | 02 03.19 +04 30.9 | 18.9 | -0.70 | - 9.0 | 1.9/23.5  | 4414  |
| 2000 OT <sub>22</sub>  | 2000 10 25.5 | 02 00.76 +05 09.3 | 17.3 | -0.84 | - 2.6 | 3.5/23.6  | 4965  | 1998 BM <sub>10</sub>  | 2000 10 26.1 | 02 03.26 -24 41.7 | 21.2 | -0.99 | - 4.1 | 10.9/13.5 | 32314 |
| 6685 P-L               | 2000 10 25.5 | 02 00.85 +09 12.2 | 18.5 | -0.81 | - 4.9 | 1.0/24.6  | 5146  | 1999 KH <sub>6</sub>   | 2000 10 26.1 | 02 03.33 +00 40.2 | 18.5 | -1.02 | - 2.2 | 4.9/23.3  | 4501  |
| 1999 JS <sub>70</sub>  | 2000 10 25.5 | 02 00.86 +01 50.6 | 18.6 | -1.04 | - 2.6 | 4.1/23.0  | 4481  | 1998 KM <sub>29</sub>  | 2000 10 26.1 | 02 03.45 +09 48.4 | 18.3 | -0.72 | - 6.2 | 0.8/25.3  | 4413  |
| 1993 XE <sub>1</sub>   | 2000 10 25.5 | 02 00.86 -28 23.3 | 17.5 | -1.36 | + 7.4 | 18.4/16.4 | 4319  | 1999 JM <sub>97</sub>  | 2000 10 26.1 | 02 03.52 +03 25.4 | 19.0 | -0.91 | - 6.2 | 3.3/23.6  | 4940  |
| 4642 P-L               | 2000 10 25.5 | 02 00.87 +11 53.3 | 18.1 | -1.04 | - 4.8 | 0.2/25.4  | 5145  | 1979 MZ <sub>4</sub>   | 2000 10 26.2 | 02 03.56 -03 26.7 | 18.1 | -0.90 | - 3.7 | 6.5/22.0  | 4879  |
| 2000 SX <sub>152</sub> | 2000 10 25.5 | 02 00.96 +13 18.6 | 17.9 | -0.93 | - 4.8 | 0.4/25.8  | 4843  | 1999 NE <sub>12</sub>  | 2000 10 26.2 | 02 03.84 -12 02.5 | 19.5 | -0.73 | - 3.8 | 6.3/18.9  | 36013 |
| 1990 VN <sub>6</sub>   | 2000 10 25.5 | 02 00.99 +00 43.1 | 17.7 | -0.96 | - 6.3 | 4.7/22.2  | 4883  | (16439)                | 2000 10 26.2 | 02 03.89 +30 39.8 | 16.6 | -1.04 | - 2.8 | 5.8/31.2  | 2834  |
| 2000 QM <sub>9</sub>   | 2000 10 25.5 | 02 01.01 +10 20.7 | 17.3 | -0.81 | - 8.3 | 0.8/24.9  | 4982  | 2000 SX <sub>169</sub> | 2000 10 26.2 | 02 03.93 +17 00.7 | 17.2 | -1.15 | - 2.8 | 2.0/27.4  | 4846  |
| 1994 PW <sub>37</sub>  | 2000 10 25.5 | 02 01.10 +05 34.8 | 18.9 | -0.76 | - 5.3 | 2.2/23.6  | 4324  | 1981 EW <sub>19</sub>  | 2000 10 26.3 | 02 03.92 +23 44.3 | 19.3 | -1.12 | - 3.5 | 4.1/29.2  | 26918 |
| (17523)                | 2000 10 25.5 | 02 01.20 +06 55.0 | 17.9 | -0.83 | - 4.2 | 1.9/24.1  | 4075  | 2008 T-3               | 2000 10 26.3 | 02 04.09 +17 36.1 | 18.5 | -0.98 | - 6.4 | 1.8/27.8  | 35480 |
| 1993 TM <sub>6</sub>   | 2000 10 25.6 | 02 01.32 +16 32.5 | 18.8 | -1.05 | - 4.6 | 1.5/26.8  | 25216 | 1999 JB <sub>97</sub>  | 2000 10 26.3 | 02 04.13 -06 58.9 | 18.4 | -0.81 | - 6.2 | 7.4/20.4  | 4492  |
| 1998 HE <sub>1</sub>   | 2000 10 25.6 | 02 01.34 +16 34.7 | 18.2 | -0.83 | - 2.6 | 1.2/26.8  | 4911  | 1999 JV <sub>50</sub>  | 2000 10 26.4 | 02 04.43 +12 50.2 | 16.4 | -0.79 | -11.4 | 0.1/26.5  | 4936  |
| (17484)                | 2000 10 25.6 | 02 01.35 +12 33.9 | 17.5 | -0.85 | - 5.9 | 0.1/25.7  | 4064  | 1993 FS <sub>37</sub>  | 2000 10 26.4 | 02 04.48 +09 22.0 | 17.9 | -0.81 | - 4.8 | 1.0/25.5  | 4314  |
| 2000 SP <sub>270</sub> | 2000 10 25.6 | 02 01.48 +02 51.7 | 19.5 | -0.72 | - 6.5 | 3.0/22.7  | 4853  | (11069)                | 2000 10 26.4 | 02 04.56 -02 14.6 | 17.0 | -0.76 | - 4.6 | 4.8/22.1  | 35229 |
| 1998 BV                | 2000 10 25.6 | 02 01.52 +01 51.1 | 17.1 | -0.98 | - 6.1 | 4.3/22.7  | 4356  | 1999 PO <sub>1</sub>   | 2000 10 26.4 | 02 04.63 +19 25.1 | 18.6 | -1.05 | + 1.3 | 2.2/27.9  | 36548 |
| 1998 FN <sub>5</sub>   | 2000 10 25.6 | 02 01.56 +26 34.2 | 18.8 | -0.92 | - 6.8 | 4.6/30.0  | 4905  | 1993 VR <sub>1</sub>   | 2000 10 26.4 | 02 04.68 +12 58.2 | 16.1 | -1.06 | - 2.4 | 0.1/26.6  | 4319  |
| 1981 EG <sub>13</sub>  | 2000 10 25.6 | 02 01.59 +23 55.1 | 18.5 | -1.08 | - 4.7 | 4.5/28.8  | 4300  | 1995 QD                | 2000 10 26.5 | 02 04.62 +00 11.5 | 18.9 | -0.74 | - 8.0 | 5.0/22.5  | 4327  |
| (10496)                | 2000 10 25.6 | 02 01.60 +18 18.9 | 15.7 | -0.95 | -10.5 | 2.6/27.6  | 4878  | (11122)                | 2000 10 26.5 | 02 04.95 +15 13.8 | 17.7 | -0.98 | - 5.0 | 0.9/27.3  | 35243 |
| 1979 MY <sub>3</sub>   | 2000 10 25.7 | 02 01.55 -00 18.1 | 17.8 | -0.87 | - 4.1 | 5.4/22.2  | 4299  | (17518)                | 2000 10 26.5 | 02 05.01 -13 15.2 | 17.2 | -0.95 | - 1.2 | 9.2/19.7  | 4074  |
| 1998 HS <sub>135</sub> | 2000 10 25.7 | 02 01.56 -02 25.1 | 18.7 | -0.82 | - 6.7 | 5.1/21.1  | 4914  | 1998 FY <sub>10</sub>  | 2000 10 26.5 | 02 05.01 +12 55.2 | 18.0 | -0.92 | - 3.9 | 0.1/26.7  | 4375  |
| 1999 FB <sub>31</sub>  | 2000 10 25.7 | 02 01.64 +05 53.8 | 17.8 | -1.00 | - 6.7 | 2.6/23.9  | 4436  | 1981 EH <sub>38</sub>  | 2000 10 26.5 | 02 05.01 +12 25.4 | 18.5 | -0.98 | - 7.1 | 0.1/26.5  | 4301  |
| (16067)                | 2000 10 25.7 | 02 01.67 +02 50.0 | 17.8 | -0.75 | - 5.8 | 2.8/22.8  | 4879  | (15278)                | 2000 10 26.6 | 02 05.01 +23 47.0 | 16.3 | -0.77 | - 1.9 | 3.3/29.6  | 3860  |
| 1998 HP <sub>39</sub>  | 2000 10 25.7 | 02 01.70 +10 10.4 | 18.8 | -0.81 | - 6.4 | 0.7/25.1  | 4403  | (17658)                | 2000 10 26.6 | 02 05.02 +09 38.7 | 16.8 | -0.91 | - 3.5 | 1.0/25.8  | 4114  |
| 1994 PK <sub>39</sub>  | 2000 10 25.7 | 02 01.82 +10 02.4 | 17.1 | -0.76 | - 4.9 | 0.9/25.1  | 4324  | 1999 GZ <sub>16</sub>  | 2000 10 26.6 | 02 05.04 +05 54.8 | 18.7 | -1.06 | - 5.0 | 2.8/24.9  | 4930  |
| 1998 FL <sub>18</sub>  | 2000 10 25.7 | 02 01.87 +10 15.8 | 18.2 | -0.96 | - 6.0 | 0.8/25.2  | 4376  | (17508)                | 2000 10 26.6 | 02 05.17 +07 41.3 | 17.6 | -1.00 | - 5.9 | 1.9/25.3  | 4071  |
| 2000 QQ <sub>131</sub> | 2000 10 25.8 | 02 01.94 +05 42.6 | 18.1 | -0.88 | - 8.2 | 2.8/23.7  | 4654  | 1998 DQ <sub>35</sub>  | 2000 10 26.6 | 02 05.25 +30 12.7 | 17.4 | -1.03 | - 3.3 | 5.5/31.6  | 4369  |
| 2000 ST <sub>152</sub> | 2000 10 25.8 | 02 02.00 +12 31.8 | 18.5 | -0.83 | - 4.6 | 0.0/25.9  | 4843  | 1995 GT                | 2000 10 26.6 | 02 05.28 +29 07.8 | 18.3 | -1.31 | + 0.2 | 5.3/30.3  | 4890  |
| 1999 NF <sub>2</sub>   | 2000 10 25.8 | 02 02.12 +12 02.6 | 17.9 | -0.72 | - 8.6 | 0.1/25.7  | 4507  | 1998 BQ <sub>42</sub>  | 2000 10 26.6 | 02 05.42 +08 51.8 | 19.2 | -0.99 | - 5.8 | 1.4/25.6  | 34590 |
| 1999 GE <sub>21</sub>  | 2000 10 25.8 | 02 02.21 +03 02.0 | 17.6 | -1.15 | + 1.3 | 3.7/24.0  | 4442  | 1993 TS <sub>20</sub>  | 2000 10 26.6 | 02 05.44 +09 02.5 | 18.2 | -1.01 | - 5.7 | 1.4/25.7  | 4887  |
| 1047 T-3               | 2000 10 25.8 | 02 02.22 +21 32.6 | 18.3 | -0.89 | - 6.0 | 3.2/28.6  | 5147  | 1991 RQ <sub>16</sub>  | 2000 10 26.7 | 02 05.41 +08 01.1 | 17.9 | -0.92 | - 3.2 | 1.8/25.5  | 4884  |
| 6076 P-L               | 2000 10 25.8 | 02 02.23 +15 11.0 | 18.1 | -0.94 | - 3.6 | 1.1/26.6  | 5145  | 1981 EE <sub>22</sub>  | 2000 10 26.7 | 02 05.44 +15 22.4 | 19.1 | -0.82 | - 3.1 | 0.7/27.4  | 4880  |
| 1992 DL <sub>6</sub>   | 2000 10 25.8 | 02 02.30 +08 37.9 | 19.3 | -0.77 | - 4.1 | 1.1/24.8  | 36067 | 2000 OR <sub>52</sub>  | 2000 10 26.7 | 02 05.56 +06 54.1 | 16.0 | -0.89 | - 2.3 | 2.9/25.3  | 4973  |
| 1999 JR <sub>75</sub>  | 2000 10 25.8 | 02 02.37 +19 14.8 | 18.3 | -1.01 | - 7.7 | 2.4/27.9  | 4484  | 1998 FB <sub>31</sub>  | 2000 10 26.7 | 02 05.57 -02 34.7 | 18.6 | -0.84 | - 7.6 | 5.2/21.9  | 4906  |
| (17951)                | 2000 10 25.8 | 02 02.37 +18 50.4 | 16.4 | -1.03 | - 5.8 | 2.8/27.7  | 4201  | 1995 WR <sub>5</sub>   | 2000 10 26.7 | 02 05.71 +02 15.7 | 18.3 | -0.84 | - 1.8 | 3.1/24.1  | 4330  |
| 1999 HN <sub>11</sub>  | 2000 10 25.9 | 02 02.34 +11 20.7 | 17.5 | -0.86 | -10.4 | 0.4/25.6  | 4448  | 1998 FQ <sub>23</sub>  | 2000 10 26.8 | 02 05.75 +09 29.1 | 18.9 | -0.99 | - 4.5 | 1.3/25.9  | 32317 |
| 1975 SP <sub>1</sub>   | 2000 10 25.9 | 02 02.41 +07 43.5 | 18.5 | -0.81 | - 9.7 | 1.9/24.4  | 4879  | 1997 VP <sub>5</sub>   | 2000 10 26.8 | 02 05.76 +17 52.7 | 18.2 | -1.03 | - 8.0 | 2.1/28.3  | 35305 |
| (15938)                | 2000 10 25.9 | 02 02.68 +23 46.5 | 17.7 | -0.95 | - 7.3 | 3.5/29.4  | 1742  | (18270)                | 2000 10 26.8 | 02 05.96 +15 54.3 | 17.6 | -1.09 | - 4.3 | 1.4/27.7  | 4293  |
| 2000 SB <sub>101</sub> | 2000 10 26.0 | 02 02.67 +32 13.7 | 16.0 | -0.98 | - 2.2 | 7.0/31.7  | 4824  | (17404)                | 2000 10 26.8 | 02 05.97 +09 31.4 | 16.7 | -1.09 | - 3.8 | 1.3/26.1  | 4042  |
| (11644)                | 2000 10 26.0 | 02 02.71 -02 59.9 | 18.1 | -0.73 | - 4.0 | 3.8/21.4  | 35870 | 1992 HG <sub>1</sub>   | 2000 10 26.8 | 02 06.08 +12 54.1 | 19.0 | -0.99 | - 6.9 | 0.0/26.9  | 4885  |
| 1999 HR <sub>8</sub>   | 2000 10 26.0 | 02 02.71 +14 39.8 | 18.6 | -1.02 | - 5.7 | 0.8/26.6  | 4448  | 1999 JP <sub>87</sub>  | 2000 10 26.8 | 02 06.12 -02 44.7 | 19.2 | -0.94 | - 2.1 | 5.2/23.1  | 4940  |
| 2000 OP <sub>22</sub>  | 2000 10 26.0 | 02 02.76 -04 12.5 | 16.2 | -0.79 | - 3.7 | 7.9/21.3  | 4965  | 2000 RZ <sub>65</sub>  | 2000 10 26.8 | 02 06.21 +11 50.6 | 15.9 | -1.05 | + 0.9 | 0.5/26.7  | 4764  |
| 1999 JP <sub>41</sub>  | 2000 10 26.0 | 02 02.78 +08 03.4 | 18.1 | -0.98 | - 6.6 | 1.6/24.8  | 4935  | 1996 SH <sub>4</sub>   | 2000 10 26.9 | 02 06.24 +06 14.1 | 18.5 | -1.31 | + 4.6 | 2.4/25.9  | 4893  |
| 1998 FJ <sub>60</sub>  | 2000 10 26.0 | 02 02.95 +07 25.1 | 17.3 | -0.82 | - 6.2 | 1.9/24.6  | 4385  | 1999 JH <sub>90</sub>  | 2000 10 26.9 | 02 06.32 -03 48.4 | 19.6 | -0.93 | - 5.0 | 5.8/22.4  | 4490  |
| (17565)                | 2000 10 26.0 | 02 02.98 +26 56.6 | 17.7 | -1.12 | - 1.1 | 4.9/29.6  | 4087  | (11656)                | 2000 10 26.9 | 02 06.37 +15 23.1 | 17.2 | -0.81 | - 3.1 | 0.8/27.7  | 35872 |
| 1998 FZ <sub>33</sub>  | 2000 10 26.0 | 02 03.05 +28 35.2 | 18.0 | -1.14 | - 0.9 | 5.7/29.9  | 4906  | 1996 XV <sub>30</sub>  | 2000 10 26.9 | 02 06.46 -14 55.9 | 17.4 | -0.82 | + 1.6 | 13.4/19.8 | 29926 |
| 1999 FN <sub>34</sub>  | 2000 10 26.0 | 02 03.11 +08 40.1 | 18.5 | -1.10 | - 2.8 | 1.5/25.2  | 4437  | 1998 FN <sub>112</sub> | 2000 10 26.9 | 02 06.50 +27 11.1 | 18.3 | -0.91 | - 3.4 | 4.4/31.0  | 4910  |
| 1995 KJ                | 2000 10 26.1 | 02 03.05 +10 10.6 | 19.6 | -0.93 | - 5.4 | 0.8/25.5  | 4890  | 1998 HT <sub>46</sub>  | 2000 10 26.9 | 02 06.56 +08 49.3 | 18.0 | -0.81 | - 4.1 | 1.2/25.9  | 4404  |
| (11135)                | 2000 10 26.1 | 02 03.05 +09 55.9 | 18.2 | -0.81 | - 4.4 | 0.8/25.4  | 35246 | 1998 HU <sub>80</sub>  | 2000 10 27.0 | 02 06.61 +13 39.8 | 18.0 | -0.99 | - 2.4 | 0.3/27.2  | 4913  |
| (18039)                | 2000 10 26.1 | 02 03.05 +24 06.7 | 17.1 | -0.83 | - 5.3 | 3.7/29.6  | 4227  | 1981 DW                | 2000 10 27.0 | 02 06.63 +26 33.0 | 19.7 | -0.96 | - 4.6 | 4.3/30.9  | 26914 |
| 1981 EU <sub>39</sub>  | 2000 10 26.1 | 02 03.19 +21 46.5 | 18.7 | -1.06 | - 1.3 | 3.5/28.4  | 4880  | 1998 FP <sub>68</sub>  | 2000 10 27.0 | 02 06.83 +26 10.8 | 18.4 | -1.12 | - 0.3 | 4.8/30.1  | 4908  |

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|                        |              |                   |      |       |       |     |           |       |                        |              |                   |      |       |       |     |           |       |
|------------------------|--------------|-------------------|------|-------|-------|-----|-----------|-------|------------------------|--------------|-------------------|------|-------|-------|-----|-----------|-------|
| 1997 CO <sub>19</sub>  | 2000 10 27.0 | 02 06.85 +08 00.3 | 18.6 | -0.78 | -     | 2.9 | 1.3/25.8  | 4896  | 1999 NF <sub>47</sub>  | 2000 10 27.8 | 02 09.71 -03 38.7 | 18.1 | -0.77 | -     | 4.5 | 5.0/23.0  | 4509  |
| 1995 YC <sub>4</sub>   | 2000 10 27.0 | 02 06.88 +13 37.4 | 18.6 | -0.74 | -     | 4.0 | 0.2/27.3  | 4891  | 1999 LH <sub>7</sub>   | 2000 10 27.8 | 02 10.03 -29 16.0 | 17.8 | -0.96 | -     | 0.4 | 12.6/15.3 | 4505  |
| 1998 FP <sub>41</sub>  | 2000 10 27.0 | 02 06.94 +15 24.0 | 16.4 | -0.92 | -     | 4.4 | 1.0/27.8  | 4381  | 1998 CM <sub>3</sub>   | 2000 10 27.9 | 02 10.07 +04 38.3 | 18.1 | -0.86 | -     | 5.2 | 2.9/25.5  | 4363  |
| 1998 KQ <sub>50</sub>  | 2000 10 27.0 | 02 06.95 -00 13.4 | 17.5 | -0.69 | -     | 7.2 | 3.9/22.9  | 4914  | 1995 SL <sub>49</sub>  | 2000 10 27.9 | 02 10.12 +24 41.2 | 19.1 | -1.01 | -     | 2.0 | 3.6/30.8  | 4890  |
| 2123 P-L               | 2000 10 27.1 | 02 07.00 +23 16.8 | 18.6 | -0.87 | -     | 2.6 | 3.1/30.0  | 4857  | 1999 KJ <sub>14</sub>  | 2000 10 27.9 | 02 10.14 +15 10.3 | 17.6 | -0.79 | -     | 7.9 | 0.7/28.6  | 4503  |
| (10498)                | 2000 10 27.1 | 02 07.01 +00 26.4 | 16.6 | -0.94 | -     | 7.4 | 5.7/23.6  | 3858  | 2000 RA <sub>48</sub>  | 2000 10 27.9 | 02 10.23 +31 34.5 | 16.7 | -0.98 | -     | 0.6 | 7.1/01.7  | 4751  |
| (17666)                | 2000 10 27.1 | 02 07.12 +11 57.0 | 17.5 | -0.93 | -     | 4.1 | 0.3/26.9  | 4117  | 2000 RA <sub>7</sub>   | 2000 10 27.9 | 02 10.24 +15 11.4 | 17.5 | -1.10 | -     | 3.1 | 0.9/28.5  | 5036  |
| 1999 JD <sub>46</sub>  | 2000 10 27.1 | 02 07.16 +05 04.2 | 18.5 | -0.94 | -     | 4.4 | 3.0/25.1  | 4468  | 1999 GF <sub>21</sub>  | 2000 10 27.9 | 02 10.27 +08 07.1 | 17.7 | -0.90 | -     | 8.2 | 1.8/26.5  | 4442  |
| (10590)                | 2000 10 27.1 | 02 07.16 -03 26.5 | 16.4 | -0.81 | -10.5 |     | 7.2/21.8  | 34460 | 1998 HS <sub>37</sub>  | 2000 10 27.9 | 02 10.35 +16 05.7 | 17.5 | -0.87 | -     | 5.1 | 1.0/28.8  | 4912  |
| 1999 JY <sub>82</sub>  | 2000 10 27.2 | 02 07.44 -05 49.7 | 19.3 | -0.91 | -     | 3.8 | 5.9/22.3  | 35465 | 2000 ON <sub>22</sub>  | 2000 10 28.0 | 02 10.48 +07 27.1 | 17.4 | -0.90 | -     | 7.0 | 2.8/26.4  | 4965  |
| 1997 YQ <sub>18</sub>  | 2000 10 27.2 | 02 07.46 -12 05.4 | 19.8 | -0.87 | -     | 4.9 | 8.7/19.8  | 31425 | 1996 VX <sub>30</sub>  | 2000 10 28.0 | 02 10.51 +09 19.0 | 18.3 | -1.07 | -     | 1.2 | 1.5/27.2  | 4895  |
| 2000 OZ <sub>51</sub>  | 2000 10 27.3 | 02 07.67 +07 49.3 | 17.4 | -1.00 | -     | 5.0 | 2.3/26.0  | 4972  | 1999 FT <sub>20</sub>  | 2000 10 28.0 | 02 10.55 +17 03.3 | 18.4 | -1.11 | -     | 3.8 | 1.6/29.0  | 4434  |
| (17362)                | 2000 10 27.3 | 02 07.74 +12 30.4 | 16.8 | -0.79 | -     | 7.1 | 0.1/27.2  | 4030  | 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  | 4354  |
| (12058)                | 2000 10 27.3 | 02 07.77 +07 23.0 | 19.2 | -0.84 | -     | 5.3 | 1.6/25.7  | 36288 | 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  | 4945  |
| (11142)                | 2000 10 27.3 | 02 07.88 -02 25.9 | 18.1 | -0.82 | -     | 2.4 | 4.8/23.3  | 35248 | 1999 JB <sub>78</sub>  | 2000 10 28.0 | 02 10.66 +03 11.1 | 19.8 | -0.99 | -     | 5.5 | 3.4/25.4  | 35115 |
| 1998 KT <sub>50</sub>  | 2000 10 27.3 | 02 07.90 -02 41.2 | 17.9 | -0.72 | -     | 6.1 | 4.8/22.5  | 4915  | 1998 AM <sub>10</sub>  | 2000 10 28.0 | 02 10.69 +00 00.3 | 17.3 | -0.90 | -     | 5.6 | 5.2/24.4  | 4900  |
| (17056)                | 2000 10 27.3 | 02 07.94 +06 23.9 | 16.8 | -1.03 | -     | 4.6 | 2.9/25.7  | 3014  | 1998 DZ <sub>33</sub>  | 2000 10 28.0 | 02 10.75 -01 05.2 | 18.8 | -0.84 | -     | 6.8 | 4.6/23.8  | 4904  |
| 1999 JH <sub>77</sub>  | 2000 10 27.3 | 02 07.97 +02 40.0 | 17.8 | -1.01 | -     | 4.5 | 3.8/24.7  | 4939  | 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  | 4749  |
| 1981 ED <sub>42</sub>  | 2000 10 27.3 | 02 08.01 +07 58.1 | 20.5 | -0.74 | -     | 4.5 | 1.3/25.9  | 26922 | 2000 SS <sub>87</sub>  | 2000 10 28.0 | 02 10.79 -00 28.1 | 16.9 | -0.92 | -     | 5.7 | 6.3/24.3  | 4822  |
| 4222 T-3               | 2000 10 27.3 | 02 08.11 +10 41.7 | 19.2 | -0.94 | -     | 2.0 | 0.7/26.8  | 5147  | (10977)                | 2000 10 28.1 | 02 10.90 +11 22.5 | 17.9 | -1.05 | -     | 4.9 | 0.7/27.7  | 34817 |
| 1999 JN <sub>55</sub>  | 2000 10 27.3 | 02 08.13 -01 11.0 | 17.4 | -0.89 | -     | 3.5 | 6.3/23.6  | 4474  | 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 |
| 1999 JZ <sub>80</sub>  | 2000 10 27.3 | 02 08.13 -14 11.1 | 17.8 | -0.92 | -     | 2.5 | 9.6/20.1  | 4939  | (11753)                | 2000 10 28.1 | 02 11.00 +18 36.5 | 18.1 | -0.80 | -     | 4.1 | 1.6/29.7  | 35898 |
| 2000 RY <sub>47</sub>  | 2000 10 27.4 | 02 08.29 +24 17.2 | 16.4 | -0.83 | -     | 8.1 | 4.9/31.1  | 4751  | 1999 JO <sub>31</sub>  | 2000 10 28.1 | 02 11.08 +12 21.1 | 16.2 | -0.92 | -     | 5.3 | 0.4/27.9  | 4935  |
| 1998 BU <sub>43</sub>  | 2000 10 27.4 | 02 08.29 +10 37.5 | 18.1 | -1.06 | -     | 3.4 | 0.9/26.9  | 4361  | (17435)                | 2000 10 28.2 | 02 11.29 -01 49.5 | 17.5 | -0.92 | -17.1 |     | 5.9/22.6  | 4050  |
| 1995 VV                | 2000 10 27.4 | 02 08.38 +11 20.5 | 17.0 | -0.92 | -     | 0.9 | 0.5/27.1  | 4891  | 1994 AU                | 2000 10 28.2 | 02 11.39 +12 59.1 | 17.2 | -1.00 | -     | 3.2 | 0.1/28.2  | 4888  |
| 1999 JQ <sub>42</sub>  | 2000 10 27.4 | 02 08.47 +14 37.3 | 19.6 | -0.94 | -     | 5.7 | 0.6/27.9  | 2048  | (17358)                | 2000 10 28.2 | 02 11.47 +12 57.8 | 16.4 | -0.91 | -     | 8.7 | 0.1/28.2  | 4029  |
| 2000 RG <sub>6</sub>   | 2000 10 27.5 | 02 08.46 +15 11.4 | 16.1 | -1.01 | -     | 3.4 | 1.0/28.1  | 5036  | 1997 YE <sub>4</sub>   | 2000 10 28.2 | 02 11.60 +18 16.2 | 15.7 | -0.97 | -     | 7.7 | 2.4/30.0  | 4899  |
| 1993 FC <sub>51</sub>  | 2000 10 27.5 | 02 08.49 +14 57.6 | 18.2 | -0.86 | -     | 4.4 | 0.7/28.1  | 4886  | 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  | 4939  |
| 1999 JX <sub>33</sub>  | 2000 10 27.5 | 02 08.53 +16 41.5 | 16.0 | -1.12 | -     | 0.3 | 1.5/28.3  | 4935  | 1991 GZ <sub>1</sub>   | 2000 10 28.3 | 02 11.79 -00 58.5 | 16.5 | -1.70 | +     | 8.4 | 7.0/26.9  | 4883  |
| 1981 EP <sub>23</sub>  | 2000 10 27.5 | 02 08.57 +28 44.3 | 20.2 | -0.92 | -     | 1.7 | 4.1/31.7  | 26919 | 1999 JY <sub>18</sub>  | 2000 10 28.3 | 02 11.79 +20 23.9 | 17.8 | -1.02 | -     | 6.7 | 2.8/30.4  | 4455  |
| (17862)                | 2000 10 27.5 | 02 08.57 +11 13.0 | 16.5 | -0.75 | -     | 7.5 | 0.6/27.0  | 4175  | 1994 JS <sub>1</sub>   | 2000 10 28.3 | 02 11.79 -06 23.6 | 19.5 | -0.82 | -     | 6.7 | 5.3/22.3  | 36514 |
| 1998 EC <sub>11</sub>  | 2000 10 27.5 | 02 08.58 +07 53.0 | 18.2 | -1.02 | -     | 4.9 | 2.1/26.2  | 4371  | 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  | 4451  |
| 2000 RG <sub>37</sub>  | 2000 10 27.5 | 02 08.58 +37 40.6 | 17.9 | -1.93 | +     | 7.9 | 12.8/31.0 | 4742  | 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  |
| 2000 RA <sub>66</sub>  | 2000 10 27.5 | 02 08.61 -00 32.8 | 16.8 | -0.87 | -     | 7.2 | 6.4/23.6  | 5050  | 1999 LM <sub>14</sub>  | 2000 10 28.4 | 02 11.94 +01 48.2 | 18.8 | -0.93 | -     | 4.8 | 4.0/25.3  | 4943  |
| 1996 SG <sub>4</sub>   | 2000 10 27.5 | 02 08.78 +18 09.9 | 17.9 | -0.92 | -     | 5.5 | 2.2/29.0  | 4893  | 1998 HS <sub>4</sub>   | 2000 10 28.4 | 02 12.31 +12 55.3 | 19.5 | -0.75 | -     | 5.5 | 0.1/28.4  | 35707 |
| 1998 FN <sub>32</sub>  | 2000 10 27.5 | 02 08.83 +29 53.0 | 18.6 | -1.08 | -     | 1.7 | 5.3/31.9  | 4906  | 1998 KW <sub>7</sub>   | 2000 10 28.4 | 02 12.36 +14 35.6 | 16.6 | -0.77 | -     | 6.6 | 0.4/28.9  | 4914  |
| 1998 CX <sub>4</sub>   | 2000 10 27.6 | 02 08.83 +25 48.8 | 17.6 | -1.06 | -     | 3.7 | 4.9/31.0  | 4363  | 1999 JL <sub>47</sub>  | 2000 10 28.4 | 02 12.39 +14 32.9 | 18.0 | -0.94 | -     | 5.2 | 0.5/28.8  | 4936  |
| 2000 RD <sub>48</sub>  | 2000 10 27.6 | 02 08.85 +28 06.4 | 18.0 | -1.06 | -     | 1.7 | 5.6/31.4  | 4751  | 1998 HL <sub>39</sub>  | 2000 10 28.5 | 02 12.39 +05 51.0 | 14.6 | -0.68 | -14.9 |     | 3.0/25.7  | 4912  |
| 1998 FY <sub>64</sub>  | 2000 10 27.6 | 02 08.97 +24 48.9 | 18.9 | -1.01 | -     | 1.2 | 3.6/30.5  | 4387  | 2000 QZ <sub>127</sub> | 2000 10 28.5 | 02 12.47 +09 34.3 | 16.8 | -0.88 | -     | 7.7 | 1.6/27.4  | 5012  |
| 2612 P-L               | 2000 10 27.6 | 02 09.00 +12 04.1 | 17.3 | -0.75 | -     | 5.2 | 0.4/27.4  | 5144  | 1993 FX <sub>20</sub>  | 2000 10 28.5 | 02 12.57 +11 31.1 | 17.0 | -0.83 | -     | 4.8 | 0.6/28.1  | 4886  |
| 1998 AC <sub>6</sub>   | 2000 10 27.6 | 02 09.06 +22 39.7 | 19.2 | -1.04 | -     | 3.7 | 3.6/30.1  | 4356  | (16497)                | 2000 10 28.5 | 02 12.58 +02 36.2 | 17.0 | -1.02 | -     | 6.4 | 4.6/25.7  | 2851  |
| 1998 BE <sub>5</sub>   | 2000 10 27.6 | 02 09.16 +13 19.5 | 18.0 | -0.97 | -     | 7.6 | 0.1/27.8  | 4901  | 1998 HF <sub>122</sub> | 2000 10 28.5 | 02 12.68 -03 41.4 | 18.7 | -0.72 | -     | 4.5 | 4.4/23.6  | 4913  |
| 1998 FS <sub>45</sub>  | 2000 10 27.6 | 02 09.16 +08 37.8 | 17.1 | -0.89 | -     | 3.3 | 1.7/26.5  | 4382  | 1997 CC <sub>7</sub>   | 2000 10 28.5 | 02 12.71 -02 27.6 | 18.0 | -0.77 | -     | 3.7 | 4.8/24.2  | 4896  |
| 1998 BP <sub>9</sub>   | 2000 10 27.7 | 02 09.27 +09 28.4 | 18.1 | -1.05 | -     | 6.3 | 1.5/26.7  | 4901  | 1998 FT <sub>90</sub>  | 2000 10 28.6 | 02 12.81 +22 37.8 | 19.3 | -1.10 | -     | 0.9 | 3.2/30.7  | 4910  |
| 1992 YH                | 2000 10 27.7 | 02 09.29 -04 22.3 | 15.8 | -1.06 | +     | 2.9 | 7.9/24.2  | 4886  | 1996 XH <sub>18</sub>  | 2000 10 28.6 | 02 12.89 -05 10.8 | 16.9 | -0.83 | -     | 3.8 | 7.2/23.4  | 4895  |
| 1998 DN <sub>9</sub>   | 2000 10 27.7 | 02 09.32 +06 33.2 | 19.4 | -0.92 | -     | 2.1 | 2.0/26.1  | 4365  | 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  | 4409  |
| 2000 QW <sub>131</sub> | 2000 10 27.7 | 02 09.36 +12 47.2 | 16.0 | -1.09 | +     | 0.2 | 0.1/27.7  | 4654  | 1998 FK <sub>116</sub> | 2000 10 28.6 | 02 12.95 +13 04.8 | 19.0 | -0.84 | -     | 6.6 | 0.1/28.6  | 32324 |
| 1998 DF <sub>12</sub>  | 2000 10 27.7 | 02 09.41 +06 52.8 | 18.6 | -0.98 | -     | 5.0 | 2.7/26.1  | 4365  | 1998 DB <sub>7</sub>   | 2000 10 28.6 | 02 12.97 +09 52.2 | 18.1 | -0.88 | -     | 8.1 | 1.5/27.6  | 4364  |
| (11762)                | 2000 10 27.7 | 02 09.67 +15 06.5 | 17.0 | -0.85 | -     | 4.3 | 0.6/28.4  | 35900 | 1998 HD <sub>85</sub>  | 2000 10 28.6 | 02 12.99 +10 38.9 | 19.1 | -0.75 | -     | 4.9 | 0.8/27.9  | 32754 |
| 2000 RC <sub>66</sub>  | 2000 10 27.7 | 02 09.68 -00 50.9 | 17.1 | -0.92 | -     | 6.8 | 6.3/23.8  | 5050  | 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  | 4754  |
| 1988 CL <sub>4</sub>   | 2000 10 27.8 | 02 09.68 +17 51.6 | 17.2 | -0.85 | -     | 7.1 | 1.7/29.2  | 36064 | 1999 JT <sub>57</sub>  | 2000 10 28.6 | 02 13.09 +08 40.6 | 16.7 | -1.08 | -     | 1.2 | 1.9/27.6  | 4937  |

|                        |              |                   |      |       |       |          |       |                        |              |                   |      |       |       |           |       |
|------------------------|--------------|-------------------|------|-------|-------|----------|-------|------------------------|--------------|-------------------|------|-------|-------|-----------|-------|
| 1997 EM <sub>28</sub>  | 2000 10 28.6 | 02 13.13 +13 38.2 | 20.4 | -0.79 | - 3.8 | 0.1/28.8 | 29929 | (17057)                | 2000 10 29.3 | 02 15.62 +07 43.1 | 17.1 | -0.95 | - 6.5 | 2.2/27.7  | 3014  |
| 6593 P-L               | 2000 10 28.7 | 02 13.08 +08 28.8 | 18.5 | -1.04 | - 6.0 | 1.9/27.4 | 5145  | (16415)                | 2000 10 29.3 | 02 15.64 +04 22.5 | 16.3 | -0.75 | -10.8 | 3.9/26.3  | 2827  |
| (11729)                | 2000 10 28.7 | 02 13.11 +10 31.0 | 17.6 | -0.77 | - 3.5 | 0.8/27.9 | 35892 | 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  |
| 2191 T-3               | 2000 10 28.7 | 02 13.43 +18 52.9 | 19.1 | -0.93 | - 3.6 | 2.0/30.2 | 2805  | 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  |
| (10952)                | 2000 10 28.8 | 02 13.47 +05 05.3 | 17.4 | -0.79 | - 7.5 | 2.6/26.3 | 34810 | (17803)                | 2000 10 29.3 | 02 15.76 +16 16.1 | 17.1 | -1.01 | - 4.2 | 1.1/30.0  | 4157  |
| (17529)                | 2000 10 28.8 | 02 13.50 +08 13.0 | 17.2 | -0.76 | - 9.2 | 1.8/27.1 | 4077  | 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  | 4803  |
| (17620)                | 2000 10 28.8 | 02 13.51 +03 23.3 | 17.0 | -0.85 | - 1.7 | 3.1/26.3 | 4103  | 1998 AD <sub>3</sub>   | 2000 10 29.4 | 02 15.92 +16 41.7 | 18.4 | -1.01 | - 4.7 | 1.1/30.2  | 31287 |
| 1999 JD <sub>43</sub>  | 2000 10 28.8 | 02 13.51 +23 09.6 | 18.6 | -1.04 | - 6.4 | 3.8/31.6 | 4467  | 1995 QK <sub>1</sub>   | 2000 10 29.4 | 02 15.93 +06 15.7 | 18.7 | -0.84 | - 5.6 | 2.5/27.4  | 26403 |
| 1992 JD <sub>3</sub>   | 2000 10 28.8 | 02 13.54 +10 47.1 | 17.2 | -1.09 | - 2.9 | 1.0/28.2 | 4885  | 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  | 4893  |
| (17804)                | 2000 10 28.8 | 02 13.67 +11 35.3 | 17.2 | -0.77 | - 6.9 | 0.6/28.3 | 4157  | (11633)                | 2000 10 29.4 | 02 15.95 +07 29.5 | 17.8 | -0.88 | - 2.4 | 1.8/27.9  | 35867 |
| 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 | 4400  | (17764)                | 2000 10 29.4 | 02 16.13 +09 02.1 | 16.1 | -0.76 | - 7.8 | 2.1/28.0  | 4145  |
| 1994 NV <sub>1</sub>   | 2000 10 28.8 | 02 13.76 +03 19.4 | 19.2 | -0.82 | - 4.0 | 3.1/26.2 | 4889  | 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  | 4589  |
| 1999 FN <sub>21</sub>  | 2000 10 28.8 | 02 13.77 +19 25.9 | 18.7 | -1.11 | - 5.6 | 2.3/30.4 | 4928  | 1994 EL <sub>2</sub>   | 2000 10 29.5 | 02 16.27 +25 44.0 | 18.7 | -1.08 | - 1.9 | 3.8/01.4  | 36070 |
| 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 | 4887  | 1998 HE <sub>125</sub> | 2000 10 29.5 | 02 16.29 -06 01.1 | 17.8 | -0.78 | - 3.5 | 6.5/24.0  | 4914  |
| 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 | 4901  | 1999 JM <sub>60</sub>  | 2000 10 29.5 | 02 16.40 +23 50.0 | 18.1 | -0.90 | - 9.6 | 3.8/01.8  | 4937  |
| (17830)                | 2000 10 28.8 | 02 13.85 +08 24.3 | 17.4 | -0.83 | - 4.3 | 1.6/27.5 | 4166  | 2000 QB <sub>151</sub> | 2000 10 29.5 | 02 16.51 +24 55.5 | 17.7 | -1.10 | - 4.3 | 4.7/01.6  | 5018  |
| 1999 JN <sub>62</sub>  | 2000 10 28.9 | 02 13.90 +10 20.3 | 18.1 | -0.94 | - 7.1 | 1.1/28.0 | 4937  | 1996 XQ <sub>6</sub>   | 2000 10 29.5 | 02 16.66 +13 32.6 | 16.3 | -1.17 | + 2.1 | 0.1/29.6  | 4895  |
| 1993 FC <sub>9</sub>   | 2000 10 28.9 | 02 13.94 +07 57.4 | 18.3 | -0.84 | - 3.9 | 1.8/27.4 | 4886  | (10746)                | 2000 10 29.6 | 02 16.69 +32 27.2 | 17.5 | -1.05 | - 3.4 | 6.1/03.8  | 34756 |
| 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 | 4391  | 2000 SZ <sub>122</sub> | 2000 10 29.6 | 02 16.81 +08 41.1 | 17.4 | -0.84 | - 3.9 | 1.7/28.3  | 4832  |
| 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 | 4906  | 2000 PN <sub>6</sub>   | 2000 10 29.6 | 02 16.87 -31 58.9 | 17.7 | -0.64 | - 9.7 | 20.9/10.0 | 4975  |
| 1999 JA <sub>41</sub>  | 2000 10 28.9 | 02 14.05 +06 31.3 | 18.6 | -0.94 | - 4.1 | 2.5/27.2 | 4935  | (10878)                | 2000 10 29.6 | 02 16.93 +11 07.9 | 17.0 | -0.99 | - 3.3 | 0.9/29.0  | 34791 |
| 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 | 4939  | (11414)                | 2000 10 29.6 | 02 17.00 +13 14.2 | 18.0 | -1.02 | - 4.8 | 0.2/29.6  | 35595 |
| (18016)                | 2000 10 29.0 | 02 14.27 +16 43.0 | 17.4 | -0.95 | - 7.7 | 1.2/30.0 | 4221  | (13003)                | 2000 10 29.7 | 02 17.11 -09 59.8 | 18.3 | -0.83 | - 8.7 | 6.9/22.0  | 37487 |
| 1998 HQ <sub>114</sub> | 2000 10 29.0 | 02 14.34 -02 22.4 | 19.3 | -0.81 | - 2.1 | 4.5/24.9 | 4409  | (11637)                | 2000 10 29.7 | 02 17.15 -04 37.1 | 16.6 | -0.88 | - 3.5 | 6.7/24.6  | 35868 |
| 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 | 4449  | 2000 QU <sub>1</sub>   | 2000 10 29.7 | 02 17.22 +23 11.8 | 17.8 | -1.35 | + 3.7 | 4.6/31.4  | 4979  |
| 1998 FD <sub>79</sub>  | 2000 10 29.0 | 02 14.44 +13 31.9 | 17.8 | -1.11 | + 0.7 | 0.0/29.0 | 4391  | 1989 SY <sub>4</sub>   | 2000 10 29.7 | 02 17.23 +09 22.0 | 17.8 | -0.95 | - 0.7 | 2.3/28.8  | 4305  |
| 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 | 4935  | 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  | 4754  |
| 1999 JH <sub>64</sub>  | 2000 10 29.0 | 02 14.63 +08 47.1 | 18.2 | -1.05 | - 3.5 | 1.7/27.9 | 4938  | 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  | 4947  |
| 1999 JW <sub>60</sub>  | 2000 10 29.0 | 02 14.67 -04 10.3 | 16.6 | -0.89 | + 1.5 | 7.3/25.4 | 4937  | 1998 HB <sub>39</sub>  | 2000 10 29.7 | 02 17.41 +14 34.1 | 18.4 | -0.82 | - 3.8 | 7.6/19.0  | 4912  |
| (17848)                | 2000 10 29.1 | 02 14.79 +04 54.6 | 18.1 | -0.80 | - 3.2 | 2.6/26.9 | 4171  | 2000 OD <sub>52</sub>  | 2000 10 29.7 | 02 17.43 +23 59.8 | 16.3 | -1.23 | + 0.9 | 4.0/31.9  | 4972  |
| 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 | 4905  | 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  | 4940  |
| 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 | 4331  | 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  | 4892  |
| 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 | 4469  | 2000 SU <sub>42</sub>  | 2000 10 29.8 | 02 17.68 +01 48.5 | 17.5 | -1.04 | - 0.9 | 5.5/27.1  | 4811  |
| (17083)                | 2000 10 29.1 | 02 14.90 +23 46.6 | 16.2 | -1.92 | +12.8 | 5.7/29.8 | 3021  | (17553)                | 2000 10 29.8 | 02 17.75 +05 54.7 | 17.1 | -1.06 | - 0.9 | 3.7/28.2  | 4084  |
| 1998 BR <sub>33</sub>  | 2000 10 29.1 | 02 14.91 +20 58.1 | 17.8 | -1.11 | - 1.6 | 2.8/30.9 | 4902  | (10675)                | 2000 10 29.8 | 02 17.77 +09 24.1 | 15.8 | -0.93 | - 2.2 | 2.2/28.8  | 34738 |
| 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 | 2000 RH <sub>66</sub>  | 2000 10 29.8 | 02 17.79 +07 45.5 | 17.4 | -1.06 | - 3.6 | 2.6/28.5  | 5050  |
| 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 | 4894  | 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  | 4832  |
| 1998 FP <sub>42</sub>  | 2000 10 29.1 | 02 15.08 +09 38.0 | 18.8 | -0.93 | - 8.0 | 1.5/28.0 | 4381  | 1996 YP <sub>3</sub>   | 2000 10 29.8 | 02 17.80 +01 11.6 | 17.6 | -1.03 | - 0.1 | 4.4/27.2  | 4895  |
| (17515)                | 2000 10 29.2 | 02 15.07 +07 34.2 | 16.9 | -0.97 | - 3.4 | 2.2/27.7 | 4073  | 1998 JV <sub>1</sub>   | 2000 10 29.9 | 02 17.80 +02 44.7 | 17.9 | -0.75 | - 3.6 | 3.0/26.9  | 4914  |
| (10357)                | 2000 10 29.2 | 02 15.07 +32 17.2 | 16.2 | -1.67 | + 4.1 | 8.0/01.5 | 34150 | (17806)                | 2000 10 29.9 | 02 17.84 +17 53.2 | 16.9 | -0.98 | - 6.6 | 1.8/31.1  | 4158  |
| 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 | 4886  | 1999 JO <sub>3</sub>   | 2000 10 29.9 | 02 18.04 +24 07.0 | 18.9 | -1.16 | - 2.8 | 3.8/01.5  | 4933  |
| (11552)                | 2000 10 29.2 | 02 15.15 -05 05.0 | 17.3 | -0.51 | - 2.8 | 3.6/23.7 | 35846 | 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  | 4772  |
| 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 | 4931  | 2000 SG <sub>124</sub> | 2000 10 30.0 | 02 18.27 +09 36.7 | 18.1 | -0.82 | - 5.7 | 1.8/28.8  | 4833  |
| 1997 EP                | 2000 10 29.2 | 02 15.29 +29 42.3 | 19.3 | -0.91 | - 2.8 | 4.7/02.7 | 4896  | (17675)                | 2000 10 30.0 | 02 18.28 +05 59.1 | 17.6 | -0.85 | - 4.4 | 2.9/27.9  | 4119  |
| 2000 SR <sub>4</sub>   | 2000 10 29.2 | 02 15.31 +03 02.6 | 16.4 | -1.01 | + 1.2 | 4.6/27.1 | 4802  | (17961)                | 2000 10 30.0 | 02 18.36 +10 11.3 | 16.4 | -1.09 | + 0.1 | 1.7/29.3  | 4204  |
| 2000 RJ <sub>71</sub>  | 2000 10 29.2 | 02 15.37 +07 00.9 | 18.1 | -0.80 | - 9.7 | 3.2/27.2 | 4771  | 2000 SJ <sub>158</sub> | 2000 10 30.0 | 02 18.36 +09 45.6 | 18.4 | -0.85 | - 3.7 | 1.3/29.0  | 4844  |
| 1997 WA <sub>42</sub>  | 2000 10 29.2 | 02 15.37 +01 07.8 | 17.3 | -1.07 | - 3.0 | 5.6/26.3 | 4898  | 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  | 4513  |
| 1999 RP <sub>44</sub>  | 2000 10 29.3 | 02 15.42 +25 44.4 | 18.6 | -0.83 | - 4.8 | 3.5/01.8 | 4513  | 1999 JZ <sub>59</sub>  | 2000 10 30.0 | 02 18.43 +11 04.0 | 19.1 | -0.98 | - 5.1 | 1.0/29.3  | 4937  |
| (10838)                | 2000 10 29.3 | 02 15.50 +23 34.7 | 17.6 | -1.10 | - 1.3 | 3.4/31.7 | 34780 | (11107)                | 2000 10 30.1 | 02 18.67 +17 26.2 | 16.1 | -0.78 | - 7.7 | 1.2/31.2  | 35239 |
| (11929)                | 2000 10 29.3 | 02 15.53 +01 49.7 | 18.8 | -0.80 | - 4.4 | 3.2/26.1 | 36254 | (10825)                | 2000 10 30.1 | 02 18.71 +00 32.8 | 16.4 | -0.99 | - 2.4 | 6.3/27.0  | 34777 |
| 1999 JL <sub>122</sub> | 2000 10 29.3 | 02 15.61 +13 19.5 | 17.2 | -1.10 | - 3.7 | 0.1/29.3 | 4498  | 2169 P-L               | 2000 10 30.1 | 02 18.80 +21 55.2 | 18.8 | -1.11 | - 2.7 | 3.2/01.1  | 4857  |

|                        |              |                        |             |           |       |                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|------------------------|--------------|------------------------|-------------|----------|-------|
| (11019)                | 2000 10 30.1 | 02 18.83 +15 19.4 17.3 | -1.01 - 4.3 | 0.5/30.5  | 35216 | 1995 EX <sub>7</sub>   | 2000 10 31.0 | 02 22.38 +13 39.2 17.0 | -1.04 - 5.0 | 0.2/30.9 | 4326  |
| 1998 BL <sub>11</sub>  | 2000 10 30.2 | 02 19.05 +09 09.3 19.2 | -0.97 - 4.4 | 1.6/29.0  | 4901  | 1998 EF <sub>2</sub>   | 2000 10 31.0 | 02 22.39 +10 59.3 18.3 | -0.82 - 4.7 | 1.0/30.2 | 4904  |
| 1996 VY                | 2000 10 30.2 | 02 19.06 +15 20.7 18.5 | -0.89 - 9.2 | 0.5/30.7  | 4894  | 1998 FC <sub>70</sub>  | 2000 10 31.0 | 02 22.42 +04 57.0 17.9 | -0.85 - 5.4 | 3.3/28.5 | 4388  |
| 2000 RQ <sub>54</sub>  | 2000 10 30.2 | 02 19.09 +32 38.1 17.6 | -1.08 - 3.5 | 6.3/04.4  | 4755  | 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  |
| 1996 XX                | 2000 10 30.2 | 02 19.23 -01 29.8 17.4 | -1.05 + 1.4 | 5.9/27.3  | 4895  | (17571)                | 2000 10 31.1 | 02 22.82 +04 58.9 17.0 | -0.77 - 4.4 | 3.0/28.7 | 4088  |
| 2000 ST <sub>261</sub> | 2000 10 30.2 | 02 19.32 +01 51.9 18.7 | -0.86 - 6.5 | 4.3/26.9  | 4852  | 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 | 4485  |
| (11036)                | 2000 10 30.3 | 02 19.47 +09 06.8 16.9 | -0.93 - 3.9 | 1.9/29.1  | 3859  | (17946)                | 2000 10 31.2 | 02 22.81 +03 20.5 18.7 | -0.95 - 5.7 | 4.1/28.3 | 4200  |
| 2000 QS <sub>129</sub> | 2000 10 30.3 | 02 19.50 +13 19.6 16.8 | -1.21 - 0.6 | 0.3/30.2  | 5013  | 2000 RH <sub>48</sub>  | 2000 10 31.2 | 02 22.97 +35 40.5 16.9 | -1.28 + 2.1 | 9.2/04.8 | 4751  |
| 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  | 4973  | 1996 XN <sub>15</sub>  | 2000 10 31.2 | 02 23.02 +10 00.3 18.1 | -0.88 - 3.6 | 1.5/30.2 | 4895  |
| 1998 HX <sub>88</sub>  | 2000 10 30.3 | 02 19.70 +13 59.0 18.4 | -0.78 - 3.5 | 0.0/30.4  | 4913  | (15674)                | 2000 10 31.2 | 02 23.07 +06 18.2 17.6 | -0.94 - 6.9 | 3.1/29.1 | 1672  |
| 1999 JY <sub>36</sub>  | 2000 10 30.3 | 02 19.71 +13 26.2 17.4 | -1.05 - 4.8 | 0.2/30.3  | 4935  | 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 RW <sub>60</sub>  | 2000 10 30.4 | 02 19.79 +24 09.7 17.7 | -1.09 - 7.2 | 4.4/02.3  | 4759  | 1998 ES <sub>11</sub>  | 2000 10 31.2 | 02 23.18 +13 11.0 18.6 | -0.99 - 3.2 | 0.4/31.0 | 4372  |
| (17989)                | 2000 10 30.4 | 02 19.98 +04 09.0 17.0 | -0.92 - 2.0 | 3.3/28.2  | 4213  | 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 | 4900  |
| 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  | 4388  | 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 | 4410  |
| 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  | 4901  | (11165)                | 2000 10 31.3 | 02 23.32 +18 15.0 16.5 | -1.04 - 2.5 | 1.7/01.3 | 35254 |
| 2000 OV <sub>52</sub>  | 2000 10 30.4 | 02 20.15 +18 04.8 16.7 | -1.08 + 2.1 | 1.5/31.3  | 4973  | 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 HL <sub>45</sub>  | 2000 10 30.5 | 02 20.15 +20 00.0 18.2 | -0.92 - 3.9 | 2.0/01.1  | 4912  | 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 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 | 1993 ST <sub>2</sub>   | 2000 10 31.3 | 02 23.50 +08 56.3 16.5 | -0.87 - 8.4 | 2.6/29.8 | 4887  |
| (16477)                | 2000 10 30.5 | 02 20.28 +15 33.7 16.8 | -1.12 - 3.0 | 0.7/30.9  | 2845  | 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 | 4938  |
| 1994 PD <sub>4</sub>   | 2000 10 30.5 | 02 20.30 +14 05.8 17.8 | -0.81 - 4.0 | 0.0/30.6  | 4322  | 1998 HJ <sub>14</sub>  | 2000 10 31.4 | 02 23.72 -03 42.4 18.4 | -0.78 - 3.1 | 5.2/26.7 | 4912  |
| 1998 DE <sub>15</sub>  | 2000 10 30.5 | 02 20.31 +11 49.1 18.6 | -0.94 - 6.1 | 0.9/30.0  | 4366  | 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 | 4755  |
| (17102)                | 2000 10 30.5 | 02 20.41 +05 41.0 16.5 | -0.92 - 6.1 | 4.1/28.3  | 3027  | 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 | 4490  |
| 1996 SD <sub>7</sub>   | 2000 10 30.5 | 02 20.44 +22 27.5 16.4 | -0.83 - 9.0 | 4.0/02.3  | 4893  | 1998 FK <sub>57</sub>  | 2000 10 31.4 | 02 24.01 +18 08.9 19.5 | -0.96 - 3.8 | 1.2/01.5 | 1020  |
| 1999 JK <sub>11</sub>  | 2000 10 30.5 | 02 20.50 +15 14.3 17.1 | -0.92 - 9.3 | 0.6/31.0  | 4933  | 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 | 4939  |
| (9816)                 | 2000 10 30.6 | 02 20.46 +35 18.4 17.4 | -1.34 + 3.0 | 7.9/03.7  | 36499 | 1997 YL <sub>14</sub>  | 2000 10 31.5 | 02 23.99 +16 04.6 17.5 | -1.00 - 6.2 | 0.7/32.0 | 4900  |
| 1998 CA <sub>2</sub>   | 2000 10 30.6 | 02 20.55 +01 24.6 18.5 | -1.04 - 0.5 | 4.4/27.8  | 4363  | (10472)                | 2000 10 31.5 | 02 24.05 +10 38.7 18.1 | -1.02 - 5.7 | 1.4/30.6 | 34429 |
| 1998 BS <sub>2</sub>   | 2000 10 30.6 | 02 20.80 +01 34.6 17.7 | -1.01 - 4.1 | 5.0/27.5  | 4901  | 2000 RZ <sub>71</sub>  | 2000 10 31.5 | 02 24.15 +12 55.8 17.0 | -0.96 - 8.2 | 0.6/31.1 | 4772  |
| 2000 SD <sub>218</sub> | 2000 10 30.6 | 02 20.84 -03 42.8 17.8 | -0.74 - 9.4 | 7.6/24.6  | 4850  | 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 |
| 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  | 4910  | 2000 RF <sub>72</sub>  | 2000 10 31.5 | 02 24.44 +20 26.4 16.9 | -1.02 - 1.1 | 2.6/02.0 | 4772  |
| (11094)                | 2000 10 30.7 | 02 21.09 +16 22.6 17.8 | -0.82 - 4.5 | 0.7/31.4  | 4878  | 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 | 4944  |
| 2000 RS <sub>71</sub>  | 2000 10 30.7 | 02 21.13 +14 10.8 16.0 | -0.87 - 5.8 | 0.1/30.8  | 5052  | 4663 P-L               | 2000 10 31.6 | 02 24.53 +08 57.3 18.2 | -0.98 - 5.0 | 2.5/30.3 | 4860  |
| (16773)                | 2000 10 30.7 | 02 21.27 +15 42.2 14.8 | -1.18 + 3.3 | 0.7/31.1  | 2930  | 1995 GW                | 2000 10 31.6 | 02 24.56 +15 06.8 16.5 | -1.15 - 1.6 | 0.3/31.8 | 4890  |
| 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  | 4832  | 1998 HG <sub>21</sub>  | 2000 10 31.6 | 02 24.72 +14 37.7 16.6 | -0.96 - 2.7 | 0.1/31.7 | 4912  |
| (12080)                | 2000 10 30.7 | 02 21.31 +25 17.2 16.6 | -0.85 - 5.5 | 3.4/03.1  | 36295 | 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 |
| (17625)                | 2000 10 30.8 | 02 21.26 -14 35.0 18.1 | -0.77 - 2.0 | 9.9/22.6  | 4104  | 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 | 4304  |
| (10719)                | 2000 10 30.8 | 02 21.32 +15 26.7 16.0 | -0.99 - 4.1 | 0.6/31.2  | 34749 | 1994 BH <sub>4</sub>   | 2000 10 31.7 | 02 24.85 +11 53.8 18.0 | -0.97 - 5.8 | 1.0/31.1 | 4888  |
| 2000 RX <sub>75</sub>  | 2000 10 30.8 | 02 21.51 +27 50.5 17.7 | -1.10 - 3.8 | 6.2/03.5  | 4778  | 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 | 4600  |
| 1993 FQ <sub>2</sub>   | 2000 10 30.8 | 02 21.57 +17 35.8 16.9 | -0.97 - 1.9 | 1.1/31.7  | 4886  | 1999 HE                | 2000 10 31.7 | 02 24.88 +10 00.1 18.9 | -0.97 - 4.8 | 1.6/30.6 | 35449 |
| 1998 EZ <sub>12</sub>  | 2000 10 30.8 | 02 21.68 +20 47.1 17.8 | -0.98 - 2.1 | 2.2/01.5  | 38776 | 1999 JY <sub>8</sub>   | 2000 10 31.7 | 02 24.92 +08 59.1 17.3 | -1.11 + 0.7 | 2.1/30.7 | 4452  |
| 1998 HK <sub>54</sub>  | 2000 10 30.9 | 02 21.72 +14 42.5 17.8 | -0.78 - 6.9 | 0.2/31.1  | 4913  | (16673)                | 2000 10 31.7 | 02 24.98 +19 34.4 15.5 | -0.99 - 2.1 | 2.5/02.0 | 2902  |
| 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  | 4355  | (16488)                | 2000 10 31.7 | 02 25.04 +19 40.9 15.8 | -0.94 - 9.2 | 2.6/02.4 | 2849  |
| 1998 BX <sub>12</sub>  | 2000 10 30.9 | 02 21.90 +08 32.2 17.8 | -0.97 - 4.3 | 1.9/29.5  | 4901  | 1999 RL <sub>133</sub> | 2000 10 31.7 | 02 25.14 +08 14.9 17.8 | -0.71 - 6.3 | 1.7/30.0 | 4946  |
| (18032)                | 2000 10 30.9 | 02 21.97 +27 39.4 17.6 | -0.89 - 6.1 | 4.0/04.0  | 4225  | 4067 P-L               | 2000 10 31.7 | 02 25.20 +16 46.6 18.3 | -0.82 - 3.9 | 0.7/01.4 | 5144  |
| 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 | (18230)                | 2000 10 31.7 | 02 25.22 +10 08.0 17.8 | -0.95 - 7.1 | 1.7/30.6 | 4281  |
| 1998 FK <sub>119</sub> | 2000 10 30.9 | 02 22.06 +12 41.3 17.9 | -0.86 - 9.7 | 0.5/30.5  | 4395  | 1999 JO <sub>24</sub>  | 2000 10 31.8 | 02 25.18 +17 14.6 16.8 | -1.11 - 2.3 | 1.2/01.5 | 4934  |
| (10678)                | 2000 10 30.9 | 02 22.10 +20 32.3 17.6 | -1.04 - 7.8 | 2.6/01.8  | 34738 | 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 GX <sub>31</sub>  | 2000 10 31.0 | 02 22.12 +08 37.9 17.8 | -1.07 - 2.4 | 2.4/29.8  | 4931  | 1999 JM <sub>23</sub>  | 2000 10 31.8 | 02 25.52 +12 00.3 18.3 | -1.12 - 2.1 | 1.0/31.3 | 4459  |
| 2000 QO <sub>149</sub> | 2000 10 31.0 | 02 22.14 +14 18.0 16.5 | -0.86 - 7.2 | 0.1/31.1  | 4667  | 1999 JD <sub>39</sub>  | 2000 10 31.8 | 02 25.60 +19 41.1 17.6 | -1.03 - 5.6 | 2.1/02.3 | 4935  |
| (16869)                | 2000 10 31.0 | 02 22.17 +11 51.2 16.5 | -0.93 - 8.1 | 1.1/30.4  | 2958  | 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 | 4884  |
| (11959)                | 2000 10 31.0 | 02 22.26 -05 21.6 18.1 | -0.84 - 4.7 | 5.9/25.6  | 36262 | 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 | 4911  |
| 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 | 4941  | 2000 RP <sub>39</sub>  | 2000 10 31.9 | 02 25.74 +15 05.4 17.8 | -1.07 - 3.6 | 0.3/01.1 | 4743  |

|                        |              |                        |             |           |       |                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|------------------------|--------------|------------------------|-------------|-----------|-------|
| 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 SB <sub>269</sub> | 2000 11 01.5 | 02 28.25 +01 28.1 18.9 | -0.77 - 7.5 | 4.4/28.6  | 4853  |
| 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  | 4354  | 1997 PH <sub>4</sub>   | 2000 11 01.5 | 02 28.26 -31 14.3 18.4 | -0.90 - 7.6 | 21.4/15.0 | 4349  |
| 1998 FD <sub>73</sub>  | 2000 11 01.0 | 02 25.94 +09 37.6 20.7 | -0.77 - 3.4 | 1.2/30.7  | 4909  | 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 |
| (11609)                | 2000 11 01.0 | 02 26.09 +10 51.5 16.6 | -0.82 - 3.9 | 1.2/31.1  | 35861 | 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  | 4909  |
| 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  | 4903  | 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  | 4375  |
| (17434)                | 2000 11 01.0 | 02 26.31 +08 10.2 17.5 | -0.77 - 5.3 | 2.2/30.3  | 4050  | 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 |
| 1990 TL <sub>7</sub>   | 2000 11 01.0 | 02 26.34 +14 19.5 18.0 | -0.84 - 4.6 | 0.1/01.0  | 4883  | 3552 T-3               | 2000 11 01.6 | 02 28.38 +13 29.7 18.2 | -0.82 - 3.2 | 0.4/01.3  | 4873  |
| 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  | 4395  | (17760)                | 2000 11 01.6 | 02 28.39 +14 10.1 17.1 | -1.03 - 3.8 | 0.2/01.5  | 4144  |
| 1998 EE <sub>11</sub>  | 2000 11 01.1 | 02 26.32 +13 40.6 19.0 | -0.86 - 3.4 | 0.2/31.9  | 3887  | 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  | 4513  |
| 1998 BC <sub>25</sub>  | 2000 11 01.1 | 02 26.33 +24 48.1 15.8 | -1.10 - 2.0 | 4.7/03.5  | 4360  | 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  | 4883  |
| 2000 RX <sub>71</sub>  | 2000 11 01.1 | 02 26.37 +09 22.7 16.3 | -0.90 - 9.8 | 2.3/30.6  | 4772  | 1991 PY <sub>3</sub>   | 2000 11 01.6 | 02 28.77 +16 02.3 18.1 | -0.94 - 4.7 | 0.5/02.0  | 33227 |
| 1998 DK <sub>15</sub>  | 2000 11 01.1 | 02 26.60 +13 25.2 17.6 | -1.05 - 3.4 | 0.5/31.9  | 31801 | 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  | 4408  |
| (17433)                | 2000 11 01.1 | 02 26.65 +12 57.3 18.0 | -0.88 - 1.4 | 0.5/31.8  | 4049  | 2765 P-L               | 2000 11 01.7 | 02 28.79 +15 40.6 18.2 | -0.90 - 3.6 | 0.4/02.0  | 5144  |
| 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 | (16932)                | 2000 11 01.7 | 02 28.96 -10 01.7 15.8 | -0.75 - 6.6 | 11.0/25.0 | 2977  |
| 1999 NV <sub>42</sub>  | 2000 11 01.1 | 02 26.75 +27 55.8 18.5 | -0.92 - 2.8 | 3.8/04.7  | 4944  | 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  | 4431  |
| 1993 QY <sub>9</sub>   | 2000 11 01.1 | 02 26.76 +05 12.8 18.5 | -1.02 - 5.1 | 3.9/29.9  | 4887  | (17758)                | 2000 11 01.7 | 02 29.12 +13 38.8 18.3 | -0.92 - 2.9 | 0.4/01.5  | 4143  |
| 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  | 4496  | 1996 VJ <sub>8</sub>   | 2000 11 01.7 | 02 29.17 +21 59.0 16.6 | -1.00 - 2.7 | 3.2/03.5  | 4894  |
| 2000 RF <sub>7</sub>   | 2000 11 01.2 | 02 26.73 +14 01.6 16.7 | -0.96 - 3.1 | 0.2/01.1  | 4718  | 1988 VP                | 2000 11 01.8 | 02 29.08 +07 17.1 15.4 | -1.12 + 1.9 | 3.0/31.5  | 4882  |
| 1998 HQ <sub>39</sub>  | 2000 11 01.2 | 02 26.79 +14 14.4 18.7 | -0.80 - 3.4 | 0.1/01.1  | 4912  | 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  | 4932  |
| 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  | 5018  | 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  | 4757  |
| 1992 YE <sub>1</sub>   | 2000 11 01.2 | 02 26.81 +07 59.6 16.5 | -0.94 - 2.1 | 2.8/30.7  | 4886  | 1999 JR <sub>98</sub>  | 2000 11 01.8 | 02 29.43 +02 10.4 17.4 | -0.84 - 5.6 | 4.7/29.5  | 4493  |
| 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  | 4913  | 1998 FS <sub>26</sub>  | 2000 11 01.8 | 02 29.52 -03 24.7 17.6 | -0.81 - 5.9 | 6.1/27.8  | 4906  |
| 3143 T-2               | 2000 11 01.2 | 02 27.03 +15 03.7 16.7 | -1.08 - 3.5 | 0.2/01.4  | 5147  | 1999 HH                | 2000 11 01.9 | 02 29.50 +16 40.2 17.7 | -1.14 + 0.3 | 0.7/02.3  | 4932  |
| (10975)                | 2000 11 01.2 | 02 27.09 +11 10.1 17.6 | -0.89 - 5.6 | 1.2/31.4  | 34816 | 1998 BL <sub>26</sub>  | 2000 11 01.9 | 02 29.50 +09 59.7 19.0 | -0.87 - 4.4 | 1.6/31.7  | 4902  |
| 1985 CV <sub>1</sub>   | 2000 11 01.3 | 02 27.16 +14 18.1 17.8 | -0.79 - 3.4 | 0.1/01.2  | 4881  | (16752)                | 2000 11 01.9 | 02 29.78 +10 10.4 16.6 | -0.95 - 5.4 | 2.1/31.8  | 2924  |
| 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  | 4892  | (11238)                | 2000 11 01.9 | 02 29.78 +20 13.3 17.5 | -1.13 - 4.1 | 2.2/03.3  | 35273 |
| 1998 GT <sub>6</sub>   | 2000 11 01.3 | 02 27.26 -06 48.4 18.1 | -0.90 - 2.6 | 6.4/26.8  | 1024  | 1999 NB <sub>50</sub>  | 2000 11 01.9 | 02 29.89 +29 10.1 18.8 | -0.95 - 5.7 | 4.1/06.1  | 36546 |
| 1999 JH <sub>69</sub>  | 2000 11 01.3 | 02 27.31 +05 56.9 18.6 | -0.87 - 7.8 | 2.9/29.9  | 4481  | 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  | 3877  |
| 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  | 4361  | 1998 EU <sub>10</sub>  | 2000 11 02.0 | 02 29.89 -04 30.7 18.6 | -0.87 - 4.9 | 6.5/27.7  | 4905  |
| 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  | 4940  | 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 |
| (17048)                | 2000 11 01.3 | 02 27.46 +12 31.1 16.6 | -1.03 - 5.7 | 1.0/31.8  | 3012  | (11359)                | 2000 11 02.0 | 02 30.01 +33 41.7 18.7 | -1.06 - 4.3 | 5.8/07.1  | 35580 |
| 1992 YU <sub>2</sub>   | 2000 11 01.3 | 02 27.51 +15 52.9 16.0 | -0.79 - 7.4 | 0.6/01.8  | 3869  | 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  | 4504  |
| 1998 DN <sub>2</sub>   | 2000 11 01.3 | 02 27.53 +44 22.5 18.1 | -1.61 + 3.9 | 10.7/07.3 | 4902  | 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  | 4882  |
| 1992 WY <sub>3</sub>   | 2000 11 01.3 | 02 27.55 -00 04.4 17.8 | -0.97 - 1.4 | 5.5/29.1  | 4886  | (11515)                | 2000 11 02.0 | 02 30.14 +02 43.3 16.9 | -0.79 - 2.9 | 3.9/30.0  | 35836 |
| 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  | 4914  | 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  | 5012  |
| 4550 P-L               | 2000 11 01.4 | 02 27.55 +18 46.2 17.9 | -1.09 - 1.8 | 2.1/02.3  | 5145  | (17636)                | 2000 11 02.0 | 02 30.33 +01 26.2 17.0 | -0.92 - 5.8 | 5.9/29.5  | 4108  |
| 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  | 4909  | 1981 EX <sub>29</sub>  | 2000 11 02.1 | 02 30.29 +35 38.7 18.6 | -1.08 - 4.3 | 6.6/08.0  | 4301  |
| 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  | 4386  | 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  | 4913  |
| (16829)                | 2000 11 01.4 | 02 27.67 +26 40.6 17.1 | -1.08 - 4.8 | 5.8/04.5  | 2946  | 4320 T-1               | 2000 11 02.1 | 02 30.62 +14 30.1 17.8 | -1.09 - 3.5 | 0.1/02.1  | 5146  |
| 1998 HO <sub>96</sub>  | 2000 11 01.4 | 02 27.69 +09 12.2 17.1 | -1.02 - 2.2 | 2.1/31.2  | 4407  | (11733)                | 2000 11 02.1 | 02 30.69 +05 12.8 17.2 | -0.73 - 5.7 | 2.8/30.4  | 35893 |
| 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  | 4913  | 1998 FM <sub>109</sub> | 2000 11 02.1 | 02 30.73 +19 34.2 19.2 | -0.90 - 5.5 | 1.6/03.5  | 4394  |
| 2000 RA <sub>74</sub>  | 2000 11 01.4 | 02 27.90 +21 33.7 17.9 | -1.19 + 1.8 | 2.8/02.8  | 4776  | 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  | 4894  |
| 2000 RD <sub>7</sub>   | 2000 11 01.4 | 02 27.96 +12 32.6 17.3 | -0.89 - 5.6 | 0.9/31.9  | 5036  | 5175 T-3               | 2000 11 02.2 | 02 30.66 -02 24.1 18.6 | -1.00 - 2.8 | 6.3/29.0  | 31826 |
| 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 | 4489  | 1990 QF <sub>9</sub>   | 2000 11 02.2 | 02 30.70 -07 11.8 18.0 | -0.81 - 5.1 | 6.8/26.8  | 4307  |
| 1999 JW <sub>25</sub>  | 2000 11 01.4 | 02 27.96 +14 15.4 17.0 | -1.07 - 1.1 | 0.1/01.4  | 4934  | (11018)                | 2000 11 02.2 | 02 30.75 +26 05.3 17.6 | -1.10 - 4.1 | 4.3/05.0  | 35216 |
| 1194 T-1               | 2000 11 01.5 | 02 27.95 +04 50.7 17.9 | -0.75 - 7.7 | 3.4/29.5  | 5146  | (17347)                | 2000 11 02.2 | 02 30.86 +15 35.6 16.9 | -0.88 - 1.6 | 0.3/02.4  | 3094  |
| 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  | 4942  | 1998 FK <sub>49</sub>  | 2000 11 02.2 | 02 30.88 +13 32.0 18.4 | -0.91 - 5.0 | 0.4/01.9  | 4907  |
| (17825)                | 2000 11 01.5 | 02 28.13 -07 48.1 18.7 | -0.80 - 1.7 | 6.7/27.0  | 4164  | 1075 T-2               | 2000 11 02.2 | 02 30.89 +25 03.9 19.3 | -1.19 - 3.5 | 3.9/04.7  | 3843  |
| 1998 HQ <sub>24</sub>  | 2000 11 01.5 | 02 28.19 +16 23.8 18.6 | -0.85 - 5.1 | 0.5/02.0  | 4912  | (11517)                | 2000 11 02.2 | 02 30.94 +15 40.8 17.1 | -0.83 - 3.9 | 0.3/02.5  | 35837 |
| 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  | 4933  | (16880)                | 2000 11 02.2 | 02 30.99 +10 22.6 15.8 | -1.03 - 2.5 | 2.1/01.3  | 2962  |
| 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  | 4483  | 2000 QE <sub>128</sub> | 2000 11 02.2 | 02 31.11 +16 45.5 17.2 | -1.17 - 1.5 | 0.9/02.7  | 4652  |

|                        |              |                        |             |           |              |
|------------------------|--------------|------------------------|-------------|-----------|--------------|
| 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  | 4886         |
| 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  | 4942         |
| (10905)                | 2000 11 02.3 | 02 31.47 +10 58.7 17.2 | -1.10 - 4.6 | 1.6/01.5  | <i>34798</i> |
| 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  | 4478         |
| 1998 HU <sub>47</sub>  | 2000 11 02.4 | 02 31.47 +09 37.4 16.9 | -1.00 - 0.7 | 1.9/01.3  | 4404         |
| (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         |
| 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  | <i>32273</i> |
| (10258)                | 2000 11 02.4 | 02 31.80 -07 30.1 16.3 | -0.77 - 3.1 | 7.1/27.4  | <i>34126</i> |
| (17831)                | 2000 11 02.4 | 02 31.85 +10 48.9 17.7 | -0.90 - 4.3 | 1.5/01.4  | 4166         |
| 2000 SE <sub>25</sub>  | 2000 11 02.4 | 02 31.89 +41 19.5 17.2 | -1.21 - 2.5 | 11.2/09.6 | 4808         |
| 1998 KP <sub>19</sub>  | 2000 11 02.4 | 02 31.89 +13 24.3 17.5 | -0.73 - 9.1 | 0.4/02.0  | 4413         |
| 2000 RL <sub>46</sub>  | 2000 11 02.5 | 02 31.89 +17 54.7 17.3 | -0.99 - 5.8 | 1.4/03.3  | 4749         |
| (17394)                | 2000 11 02.5 | 02 31.90 +16 08.6 17.2 | -0.84 - 3.5 | 0.4/02.8  | 4039         |
| 1998 HJ <sub>128</sub> | 2000 11 02.5 | 02 31.95 -06 54.6 16.4 | -0.81 - 6.9 | 8.4/26.9  | 4914         |
| 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  | 4936         |
| (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  | 4946         |
| 1989 ST <sub>9</sub>   | 2000 11 02.5 | 02 32.21 +16 39.9 17.6 | -1.07 - 3.5 | 0.8/03.0  | 4882         |
| 1995 WT <sub>15</sub>  | 2000 11 02.6 | 02 32.23 +15 49.3 17.2 | -0.89 - 3.3 | 0.3/02.8  | 4891         |
| 1998 HP <sub>53</sub>  | 2000 11 02.6 | 02 32.27 +10 37.6 18.5 | -0.83 - 4.1 | 1.4/01.5  | <i>38777</i> |
| (17618)                | 2000 11 02.6 | 02 32.28 +13 11.0 16.7 | -0.91 - 1.1 | 0.6/02.2  | 4103         |
| 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  | <i>26922</i> |
| 1999 NE <sub>30</sub>  | 2000 11 02.7 | 02 32.78 -02 20.3 17.2 | -0.87 - 3.2 | 6.3/29.3  | 4944         |
| 1998 FP <sub>111</sub> | 2000 11 02.7 | 02 32.80 +10 11.3 17.2 | -0.96 -16.4 | 1.9/01.1  | 4910         |
| 2000 RR <sub>54</sub>  | 2000 11 02.7 | 02 32.83 +32 20.1 16.5 | -1.12 - 4.2 | 7.2/07.1  | 4755         |
| 5002 T-3               | 2000 11 02.7 | 02 32.96 +05 44.6 19.0 | -0.89 - 2.8 | 3.1/31.5  | 5148         |
| 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  | <i>35430</i> |
| (17842)                | 2000 11 02.8 | 02 33.06 +16 15.6 17.3 | -1.00 - 2.4 | 0.5/03.1  | 4169         |
| 1998 FB <sub>91</sub>  | 2000 11 02.8 | 02 33.10 +11 34.6 17.7 | -0.98 - 2.1 | 1.2/02.0  | 4392         |
| 1999 RR <sub>130</sub> | 2000 11 02.8 | 02 33.18 +24 58.0 18.0 | -0.92 - 3.9 | 2.9/05.4  | 1457         |
| 1990 OJ                | 2000 11 02.8 | 02 33.20 +30 18.4 16.9 | -0.95 - 6.8 | 4.9/07.4  | 4307         |
| 9586 P-L               | 2000 11 02.8 | 02 33.22 +05 57.2 18.0 | -0.76 - 3.8 | 2.5/31.5  | <i>29649</i> |
| 1999 NZ <sub>29</sub>  | 2000 11 02.8 | 02 33.27 +13 31.8 19.1 | -0.80 - 4.0 | 0.4/02.5  | <i>35663</i> |
| 1999 JP <sub>131</sub> | 2000 11 02.8 | 02 33.41 +11 32.9 17.2 | -1.14 + 1.9 | 1.4/02.3  | 4500         |
| (17519)                | 2000 11 02.8 | 02 33.43 +31 26.2 17.2 | -0.99 - 5.6 | 5.1/07.5  | 4074         |
| (10703)                | 2000 11 02.8 | 02 33.47 -01 53.9 17.5 | -0.94 - 5.3 | 6.7/29.6  | <i>34745</i> |
| 1998 FG <sub>69</sub>  | 2000 11 02.9 | 02 33.40 +08 35.6 16.4 | -0.77 - 6.9 | 2.1/01.1  | 4909         |
| 1999 JY <sub>7</sub>   | 2000 11 02.9 | 02 33.40 +00 36.7 18.0 | -0.98 - 3.5 | 5.8/30.5  | 4451         |
| 1997 AY <sub>5</sub>   | 2000 11 02.9 | 02 33.43 +23 52.0 18.6 | -0.96 - 5.9 | 3.5/05.3  | 3879         |
| (16423)                | 2000 11 02.9 | 02 33.45 +20 54.2 16.2 | -1.06 - 7.4 | 2.4/04.5  | 2829         |
| (11443)                | 2000 11 02.9 | 02 33.46 +15 31.4 17.3 | -1.06 - 4.5 | 0.2/03.0  | <i>35817</i> |
| (10822)                | 2000 11 02.9 | 02 33.51 +13 38.6 15.9 | -1.07 - 3.6 | 0.6/02.6  | <i>34776</i> |
| (11081)                | 2000 11 02.9 | 02 33.61 +12 36.9 17.0 | -0.85 - 4.5 | 0.8/02.3  | <i>35232</i> |
| 1999 JT <sub>53</sub>  | 2000 11 02.9 | 02 33.66 +10 49.0 18.4 | -0.92 - 6.0 | 1.6/01.8  | 4937         |
| (10692)                | 2000 11 02.9 | 02 33.71 +23 04.0 18.1 | -1.11 - 4.3 | 3.0/04.9  | <i>34742</i> |
| 1999 JL <sub>68</sub>  | 2000 11 02.9 | 02 33.73 +09 00.8 18.1 | -1.01 - 4.4 | 2.3/01.5  | 4480         |
| 2000 QE <sub>151</sub> | 2000 11 03.0 | 02 33.88 +22 22.8 16.3 | -1.08 - 5.2 | 3.2/04.8  | 4668         |
| (18041)                | 2000 11 03.0 | 02 33.90 +12 15.4 17.3 | -0.79 - 3.2 | 0.8/02.3  | 4227         |
| 2000 RV <sub>54</sub>  | 2000 11 03.0 | 02 34.08 +29 56.0 16.9 | -0.94 - 3.3 | 4.7/07.0  | 4755         |
| 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  | 4899         |

|                        |              |                        |             |          |              |
|------------------------|--------------|------------------------|-------------|----------|--------------|
| 1999 JH <sub>58</sub>  | 2000 11 03.0 | 02 34.19 +18 00.2 16.6 | -0.99 - 3.2 | 1.2/04.0 | 4937         |
| (17401)                | 2000 11 03.0 | 02 34.20 +17 22.5 17.7 | -1.07 - 4.4 | 0.9/04.0 | 4041         |
| 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 | 4939         |
| (17406)                | 2000 11 03.1 | 02 34.19 +10 20.8 17.7 | -1.01 - 5.3 | 1.9/01.9 | 4042         |
| 1994 PW <sub>17</sub>  | 2000 11 03.1 | 02 34.23 +13 52.3 17.9 | -0.83 - 3.9 | 0.4/02.8 | 4889         |
| 1999 JK <sub>37</sub>  | 2000 11 03.1 | 02 34.32 +15 29.4 16.2 | -1.20 + 0.3 | 0.2/03.2 | 4935         |
| (11773)                | 2000 11 03.2 | 02 34.65 +26 27.6 18.2 | -0.96 - 3.6 | 3.4/06.1 | <i>35903</i> |
| 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 | 4833         |
| 2622 P-L               | 2000 11 03.2 | 02 34.84 +12 56.1 18.0 | -0.80 - 4.0 | 0.7/02.7 | 5144         |
| 2000 RD <sub>51</sub>  | 2000 11 03.2 | 02 34.95 +17 06.4 17.9 | -1.08 - 4.2 | 1.0/03.7 | 4752         |
| 1997 CQ <sub>11</sub>  | 2000 11 03.2 | 02 35.02 +17 11.3 17.8 | -0.88 - 3.9 | 0.7/03.8 | 4896         |
| 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 | 4914         |
| 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 | 5017         |
| 1998 FR <sub>73</sub>  | 2000 11 03.3 | 02 34.98 +15 22.7 15.6 | -1.07 - 0.2 | 0.1/03.3 | 3219         |
| 1999 RT <sub>116</sub> | 2000 11 03.4 | 02 35.38 +19 20.0 17.8 | -0.94 - 5.3 | 1.3/04.5 | 4946         |
| 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 | 4888         |
| 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 | 4936         |
| (17893)                | 2000 11 03.4 | 02 35.52 +21 15.7 17.7 | -1.16 - 3.4 | 2.5/04.8 | 4184         |
| 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 | 4756         |
| (11188)                | 2000 11 03.4 | 02 35.64 +05 26.0 17.4 | -0.70 - 5.5 | 2.7/31.7 | <i>35260</i> |
| 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 | 4901         |
| 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 | 4931         |
| 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 | <i>32056</i> |
| 1998 BT <sub>6</sub>   | 2000 11 03.5 | 02 35.96 +14 40.8 18.8 | -0.99 - 5.2 | 0.2/03.4 | <i>35311</i> |
| 1996 XP <sub>13</sub>  | 2000 11 03.5 | 02 36.04 +07 47.2 16.6 | -0.98 + 0.3 | 3.7/02.0 | <i>30690</i> |
| 1999 JR <sub>19</sub>  | 2000 11 03.5 | 02 36.09 +22 15.6 17.2 | -1.14 - 3.2 | 2.7/05.2 | 4456         |
| 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 | <i>30473</i> |
| 1998 HO <sub>100</sub> | 2000 11 03.5 | 02 36.13 +10 17.6 17.6 | -0.89 - 0.2 | 1.5/02.5 | 4408         |
| 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 | 4773         |
| 1981 EL <sub>26</sub>  | 2000 11 03.5 | 02 36.16 +26 03.8 19.6 | -1.15 - 3.0 | 3.8/06.1 | <i>35677</i> |
| 1987 ON                | 2000 11 03.6 | 02 36.31 -05 29.0 17.7 | -0.86 - 5.6 | 7.8/29.1 | 4881         |
| 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 | 4912         |
| 1998 HV <sub>18</sub>  | 2000 11 03.6 | 02 36.41 +17 40.8 17.9 | -0.95 - 6.0 | 0.9/04.3 | 4401         |
| 1981 EF <sub>19</sub>  | 2000 11 03.6 | 02 36.41 +21 14.1 17.6 | -0.96 - 3.7 | 2.7/05.1 | <i>22429</i> |
| (17698)                | 2000 11 03.6 | 02 36.44 +00 37.9 17.7 | -0.75 - 4.9 | 4.5/30.6 | 4126         |
| 1995 EY <sub>8</sub>   | 2000 11 03.6 | 02 36.45 +22 49.3 18.1 | -1.12 - 3.5 | 2.7/05.4 | 4890         |
| 1989 UB <sub>7</sub>   | 2000 11 03.6 | 02 36.53 +13 35.2 17.3 | -0.98 - 1.8 | 0.9/03.3 | 4306         |
| 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         |
| 1999 JZ <sub>120</sub> | 2000 11 03.6 | 02 36.63 +05 24.5 18.7 | -1.06 - 2.3 | 3.9/01.5 | 4498         |
| 2000 RC <sub>74</sub>  | 2000 11 03.7 | 02 36.65 +13 08.1 17.8 | -1.00 - 7.8 | 0.9/03.1 | 4776         |
| 1999 PG                | 2000 11 03.7 | 02 36.68 +05 53.8 18.7 | -0.89 - 1.1 | 3.1/01.7 | 4945         |
| (11670)                | 2000 11 03.7 | 02 36.71 +15 43.9 17.4 | -0.81 - 3.6 | 0.1/03.8 | <i>35876</i> |
| 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 | 4940         |
| 1999 SY <sub>4</sub>   | 2000 11 03.7 | 02 36.74 +17 39.5 16.9 | -0.80 - 2.2 | 0.7/04.3 | 1469         |
| 1999 RM <sub>130</sub> | 2000 11 03.7 | 02 36.82 +24 00.5 18.3 | -0.91 - 3.6 | 2.6/05.9 | 4946         |
| 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 | 4506         |
| 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 | <i>26923</i> |
| 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 | 4933         |
| 1998 HM <sub>124</sub> | 2000 11 03.7 | 02 36.99 +06 49.0 17.9 | -0.72 - 8.7 | 2.4/01.2 | 4913         |
| (18279)                | 2000 11 03.8 | 02 37.06 +05 19.4 18.1 | -0.83 - 6.0 | 3.2/01.1 | 4296         |
| 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 | <i>36907</i> |

|                       |              |                   |      |       |       |           |       |
|-----------------------|--------------|-------------------|------|-------|-------|-----------|-------|
| 1989 UE <sub>1</sub>  | 2000 11 03.9 | 02 37.43 +18 04.5 | 16.7 | -0.92 | - 5.3 | 1.4/04.6  | 3107  |
| 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  | 4883  |
| 1999 LG <sub>24</sub> | 2000 11 03.9 | 02 37.70 +06 06.1 | 18.6 | -0.97 | - 4.4 | 3.4/01.7  | 4943  |
| 1981 EZ <sub>11</sub> | 2000 11 04.0 | 02 37.79 +21 48.8 | 18.6 | -1.09 | - 4.4 | 2.5/05.5  | 4880  |
| 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  | 4749  |
| (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 | 17.1 | -1.07 | + 0.5 | 0.7/03.7  | 4942  |
| (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  | 4442  |
| (11073)               | 2000 11 04.0 | 02 38.04 +17 57.4 | 18.5 | -1.02 | - 4.5 | 0.9/04.7  | 35230 |
| 2000 OR <sub>22</sub> | 2000 11 04.0 | 02 38.14 +07 08.1 | 16.0 | -0.99 | - 4.1 | 4.1/02.1  | 4965  |
| 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 |
| 1993 QW               | 2000 11 04.0 | 02 38.21 -26 24.6 | 17.3 | -0.92 | - 5.1 | 17.9/22.3 | 4887  |
| (11079)               | 2000 11 04.1 | 02 38.18 -11 10.8 | 15.5 | -0.87 | - 0.5 | 11.8/28.6 | 35232 |
| 1999 KY <sub>15</sub> | 2000 11 04.1 | 02 38.28 +15 54.1 | 17.7 | -1.02 | - 6.4 | 0.2/04.2  | 4504  |
| (17531)               | 2000 11 04.1 | 02 38.31 +17 56.9 | 16.9 | -0.88 | - 4.9 | 0.9/04.8  | 4077  |
| 1999 NF <sub>23</sub> | 2000 11 04.1 | 02 38.40 +15 26.3 | 18.5 | -0.99 | - 5.3 | 0.0/04.2  | 35740 |
| 1981 ER <sub>11</sub> | 2000 11 04.1 | 02 38.41 +19 11.1 | 18.6 | -0.95 | - 4.7 | 1.3/05.1  | 35415 |
| 1996 VA <sub>31</sub> | 2000 11 04.1 | 02 38.42 +17 12.3 | 18.7 | -1.04 | - 1.4 | 0.7/04.5  | 4895  |
| 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  | 4755  |
| 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 | 4.1/06.8  | 2824  |
| (11179)               | 2000 11 04.1 | 02 38.62 +24 42.0 | 16.8 | -1.03 | - 3.5 | 3.6/06.4  | 35258 |
| 1996 BG <sub>17</sub> | 2000 11 04.2 | 02 38.61 +27 19.6 | 16.1 | -0.98 | - 1.4 | 5.2/06.9  | 4332  |
| (16742)               | 2000 11 04.2 | 02 38.73 +21 15.1 | 17.6 | -1.00 | - 7.0 | 2.7/05.8  | 2921  |
| 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  | 4380  |
| 1997 YO <sub>18</sub> | 2000 11 04.2 | 02 38.80 +25 21.9 | 19.2 | -1.05 | - 3.5 | 3.3/06.6  | 4900  |
| (15419)               | 2000 11 04.2 | 02 38.83 +00 57.9 | 15.9 | -0.74 | -10.9 | 6.1/30.5  | 885   |
| 1999 GA <sub>9</sub>  | 2000 11 04.2 | 02 38.88 +07 14.3 | 18.5 | -0.97 | - 3.0 | 3.0/02.4  | 4930  |
| 1999 FY <sub>25</sub> | 2000 11 04.2 | 02 38.89 +14 40.9 | 17.5 | -1.04 | - 7.2 | 0.3/04.1  | 4435  |
| 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  | 4939  |
| 1999 RH <sub>4</sub>  | 2000 11 04.3 | 02 39.07 +27 28.0 | 17.5 | -0.86 | - 4.6 | 3.5/07.6  | 36910 |
| 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  | 4441  |
| 9516 P-L              | 2000 11 04.3 | 02 39.15 +12 06.3 | 18.8 | -1.04 | - 5.6 | 1.4/03.5  | 5146  |
| (16649)               | 2000 11 04.3 | 02 39.15 +22 36.6 | 16.8 | -1.17 | - 1.1 | 3.3/05.8  | 2895  |
| 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  | 4460  |
| 1999 HW <sub>6</sub>  | 2000 11 04.3 | 02 39.34 +15 50.7 | 18.5 | -1.07 | - 4.7 | 0.1/04.5  | 4447  |
| 2000 TW <sub>28</sub> | 2000 11 04.4 | 02 39.37 +26 19.4 | 17.3 | -1.06 | - 4.3 | 5.0/07.1  | 4856  |
| 1999 JC <sub>76</sub> | 2000 11 04.4 | 02 39.48 +15 31.0 | 16.7 | -1.02 | - 7.4 | 0.0/04.4  | 4939  |
| (11776)               | 2000 11 04.4 | 02 39.54 +16 11.1 | 16.8 | -0.82 | - 3.9 | 0.2/04.6  | 35904 |
| 1999 RT <sub>42</sub> | 2000 11 04.4 | 02 39.55 +41 58.4 | 18.0 | -0.98 | - 3.5 | 7.3/12.1  | 36914 |
| 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  | 4914  |
| 2000 RH <sub>67</sub> | 2000 11 04.4 | 02 39.76 +09 09.3 | 18.1 | -0.89 | - 3.8 | 3.2/02.9  | 4764  |
| 1998 KW <sub>3</sub>  | 2000 11 04.5 | 02 39.75 +10 24.1 | 18.5 | -0.76 | - 4.4 | 1.4/03.2  | 4914  |
| (11322)               | 2000 11 04.5 | 02 40.04 +00 13.1 | 17.2 | -0.82 | - 5.8 | 6.1/31.4  | 35571 |
| 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  |
| 2000 RL <sub>72</sub> | 2000 11 04.6 | 02 40.23 +13 42.4 | 17.0 | -0.90 | - 5.5 | 0.8/04.1  | 4773  |
| 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  | 4885  |
| 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  | 4889  |

|                        |              |                   |      |       |       |           |       |
|------------------------|--------------|-------------------|------|-------|-------|-----------|-------|
| 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  |
| 2000 QN <sub>151</sub> | 2000 11 04.7 | 02 40.56 +29 25.7 | 16.7 | -1.01 | - 3.4 | 5.4/08.1  | 5018  |
| 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  | 4879  |
| 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 |
| (10462)                | 2000 11 04.7 | 02 40.76 +05 16.8 | 18.7 | -1.01 | - 5.2 | 3.6/02.2  | 34427 |
| (17554)                | 2000 11 04.7 | 02 40.77 +35 12.2 | 15.6 | -1.97 | +15.9 | 10.4/05.2 | 4084  |
| (16398)                | 2000 11 04.7 | 02 40.88 +08 25.3 | 16.5 | -0.99 | - 4.3 | 3.4/03.1  | 2821  |
| 1998 FC <sub>109</sub> | 2000 11 04.7 | 02 40.94 +20 00.2 | 17.2 | -0.95 | - 5.9 | 1.7/05.9  | 4394  |
| 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  |
| 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 |
| 1985 CX <sub>1</sub>   | 2000 11 04.8 | 02 41.17 +15 27.9 | 18.0 | -1.05 | - 6.1 | 0.1/04.8  | 4881  |
| 1981 EU <sub>11</sub>  | 2000 11 04.8 | 02 41.23 +31 24.9 | 19.5 | -1.10 | - 2.6 | 5.3/09.0  | 26917 |
| 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  | 4944  |
| (11067)                | 2000 11 04.9 | 02 41.35 +12 03.1 | 16.8 | -0.83 | - 4.3 | 1.3/04.0  | 35229 |
| 2000 RT <sub>46</sub>  | 2000 11 04.9 | 02 41.36 +23 04.8 | 16.8 | -1.01 | - 3.9 | 3.3/06.7  | 5047  |
| 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  | 4906  |
| (16688)                | 2000 11 04.9 | 02 41.47 +11 55.3 | 16.7 | -0.81 | - 4.0 | 1.4/04.0  | 2906  |
| 1992 ET <sub>15</sub>  | 2000 11 04.9 | 02 41.53 +18 07.3 | 18.3 | -1.08 | - 5.5 | 0.9/05.5  | 1876  |
| (17510)                | 2000 11 04.9 | 02 41.56 +11 45.3 | 17.1 | -1.02 | - 3.2 | 1.6/04.1  | 4071  |
| 1998 HU <sub>99</sub>  | 2000 11 04.9 | 02 41.64 +08 08.6 | 18.8 | -0.76 | - 5.5 | 2.2/02.9  | 4408  |
| 1998 CU <sub>3</sub>   | 2000 11 04.9 | 02 41.65 +16 28.7 | 18.2 | -1.05 | - 4.0 | 0.3/05.2  | 35705 |
| 1998 HM <sub>114</sub> | 2000 11 04.9 | 02 41.70 +02 02.9 | 18.2 | -0.84 | - 1.5 | 4.3/01.9  | 4913  |
| 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  | 4718  |
| 1981 EZ <sub>23</sub>  | 2000 11 05.0 | 02 41.79 +14 43.7 | 19.1 | -0.91 | - 5.2 | 0.3/04.8  | 32043 |
| (17828)                | 2000 11 05.0 | 02 41.84 +16 21.2 | 18.3 | -0.86 | - 3.8 | 0.2/05.2  | 4165  |
| 2000 SX <sub>155</sub> | 2000 11 05.0 | 02 41.89 +23 34.2 | 15.2 | -1.95 | +14.3 | 4.4/05.3  | 4843  |
| 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  | 4940  |
| 1995 VR <sub>12</sub>  | 2000 11 05.0 | 02 41.94 +10 41.9 | 19.4 | -0.85 | - 4.0 | 1.8/03.8  | 28860 |
| 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  | 4881  |
| 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  | 4943  |
| 1999 JY <sub>53</sub>  | 2000 11 05.2 | 02 42.72 +13 34.6 | 18.3 | -0.93 | - 5.5 | 0.8/04.7  | 35459 |
| 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  | 4888  |
| 1997 WE                | 2000 11 05.3 | 02 42.93 +17 01.9 | 17.0 | -1.15 | - 3.4 | 0.5/05.6  | 4898  |
| 2000 RF <sub>53</sub>  | 2000 11 05.3 | 02 42.95 +11 31.8 | 17.6 | -0.99 | - 3.8 | 1.9/04.3  | 4753  |
| 1993 UZ <sub>5</sub>   | 2000 11 05.3 | 02 42.96 +05 46.3 | 17.4 | -1.01 | - 4.1 | 4.0/03.0  | 31140 |
| (17844)                | 2000 11 05.3 | 02 43.15 +10 57.4 | 17.9 | -0.86 | - 3.5 | 1.6/04.2  | 4170  |
| (10697)                | 2000 11 05.3 | 02 43.18 -02 37.9 | 17.4 | -0.83 | - 7.1 | 6.8/31.2  | 34743 |
| 3157 T-3               | 2000 11 05.3 | 02 43.26 +13 51.5 | 17.8 | -1.12 | - 3.5 | 0.8/04.9  | 5147  |
| 1994 FP                | 2000 11 05.3 | 02 43.47 +49 43.1 | 17.1 | -1.96 | +14.2 | 17.6/06.1 | 4888  |
| (11000)                | 2000 11 05.4 | 02 43.35 +15 48.8 | 18.0 | -1.06 | - 4.0 | 0.0/05.4  | 35211 |
| 1996 XY <sub>11</sub>  | 2000 11 05.4 | 02 43.41 +13 13.0 | 18.8 | -0.88 | - 3.1 | 0.9/04.8  | 31793 |
| 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  | 4898  |
| 3470 T-3               | 2000 11 05.4 | 02 43.47 +23 45.3 | 18.2 | -1.10 | - 0.4 | 2.7/07.1  | 4873  |
| 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  | 4907  |
| 1997 YY                | 2000 11 05.4 | 02 43.68 +21 08.6 | 16.6 | -1.04 | - 7.6 | 2.5/06.9  | 4899  |
| 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  | 4751  |
| 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  | 4941  |
| 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  | 4933  |
| (11706)                | 2000 11 05.5 | 02 44.05 +16 38.1 | 18.2 | -0.87 | - 3.4 | 0.2/05.8  | 35886 |
| 1993 UB <sub>5</sub>   | 2000 11 05.6 | 02 44.09 +05 58.7 | 17.6 | -1.06 | - 1.9 | 4.5/03.6  | 4319  |
| 1999 RF <sub>159</sub> | 2000 11 05.6 | 02 44.09 +41 00.7 | 17.3 | -1.10 | - 0.4 | 7.3/11.4  | 40368 |

|                        |              |                        |             |          |       |                        |              |                        |             |          |       |
|------------------------|--------------|------------------------|-------------|----------|-------|------------------------|--------------|------------------------|-------------|----------|-------|
| 1992 EG <sub>31</sub>  | 2000 11 05.6 | 02 44.17 +01 44.7 17.6 | -0.77 - 5.0 | 4.6/01.9 | 4885  | (17861)                | 2000 11 06.4 | 02 47.57 +15 26.8 16.2 | -0.93 + 0.5 | 0.2/06.3 | 4175  |
| (17970)                | 2000 11 05.6 | 02 44.29 +19 17.3 18.2 | -1.13 - 3.2 | 1.3/06.4 | 4207  | (11012)                | 2000 11 06.4 | 02 47.64 +10 44.9 18.4 | -0.93 - 3.6 | 1.8/05.2 | 35214 |
| (11821)                | 2000 11 05.6 | 02 44.40 +24 03.2 17.3 | -0.94 - 1.4 | 2.6/07.5 | 36224 | 1993 UT <sub>7</sub>   | 2000 11 06.4 | 02 47.70 +07 36.2 18.5 | -0.97 - 4.2 | 4.0/04.5 | 4888  |
| 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 | 4753  | (17544)                | 2000 11 06.4 | 02 47.74 +23 27.6 16.5 | -1.18 - 3.5 | 3.2/08.1 | 4081  |
| (11308)                | 2000 11 05.6 | 02 44.50 +16 18.4 18.1 | -0.87 - 4.4 | 0.1/05.8 | 35567 | 1998 BC <sub>41</sub>  | 2000 11 06.4 | 02 47.77 +35 02.1 16.1 | -1.05 - 5.3 | 6.1/11.6 | 31798 |
| (11665)                | 2000 11 05.7 | 02 44.49 +12 53.2 18.9 | -0.73 - 6.8 | 0.8/04.8 | 35875 | 1999 JX <sub>103</sub> | 2000 11 06.5 | 02 48.14 -07 48.4 19.0 | -0.89 - 3.1 | 8.3/31.9 | 35468 |
| (10374)                | 2000 11 05.7 | 02 44.56 +12 20.0 15.8 | -1.07 - 7.2 | 1.6/04.8 | 34153 | 1998 DD                | 2000 11 06.6 | 02 48.21 +12 42.6 17.3 | -1.14 - 1.8 | 1.4/05.9 | 31739 |
| (11569)                | 2000 11 05.7 | 02 44.61 -02 56.4 17.0 | -0.73 - 5.7 | 5.2/31.5 | 35850 | 2825 P-L               | 2000 11 06.6 | 02 48.25 +15 42.8 18.9 | -0.80 - 3.8 | 0.1/06.5 | 36579 |
| 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 | 4312  | 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 | 4881  |
| 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 | 4908  | 1997 XK <sub>1</sub>   | 2000 11 06.6 | 02 48.40 +21 13.3 15.9 | -1.16 - 2.4 | 2.3/07.7 | 4899  |
| 1998 FY <sub>65</sub>  | 2000 11 05.7 | 02 44.96 +18 06.1 17.6 | -0.96 - 4.6 | 0.8/06.3 | 4908  | 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 | 4901  |
| (11700)                | 2000 11 05.8 | 02 44.92 +22 04.0 18.1 | -0.87 - 4.0 | 1.7/07.3 | 4878  | (11152)                | 2000 11 06.7 | 02 48.55 +25 12.7 14.9 | -0.95 - 3.7 | 5.0/09.0 | 3859  |
| 1988 XQ                | 2000 11 05.8 | 02 45.13 +27 23.7 15.0 | -0.76 -10.8 | 5.6/09.6 | 4882  | 2000 RU <sub>75</sub>  | 2000 11 06.7 | 02 48.66 -00 33.6 17.4 | -1.03 -21.1 | 7.4/31.8 | 4777  |
| 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 | (16871)                | 2000 11 06.7 | 02 48.81 +14 39.1 16.4 | -1.10 0.0   | 0.8/06.5 | 2959  |
| 1999 RC <sub>129</sub> | 2000 11 05.8 | 02 45.33 +35 38.9 17.1 | -1.00 - 2.4 | 6.5/10.7 | 40365 | 1998 HL <sub>100</sub> | 2000 11 06.7 | 02 48.85 +09 24.9 18.5 | -0.85 - 8.5 | 2.4/04.8 | 4913  |
| 1998 FW <sub>116</sub> | 2000 11 05.8 | 02 45.34 +19 26.6 17.4 | -0.82 - 7.1 | 1.1/06.9 | 4910  | 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 | 4937  |
| 2000 QM <sub>151</sub> | 2000 11 05.8 | 02 45.34 +19 22.1 15.6 | -0.83 - 6.0 | 1.2/06.8 | 4669  | 1981 EG <sub>9</sub>   | 2000 11 06.7 | 02 48.89 +19 05.4 19.3 | -0.81 - 4.2 | 0.8/07.5 | 29910 |
| 1996 TB <sub>19</sub>  | 2000 11 05.8 | 02 45.36 +16 08.3 17.4 | -0.89 - 5.8 | 0.1/05.9 | 3153  | 1995 BF <sub>1</sub>   | 2000 11 06.7 | 02 48.96 +23 04.1 16.7 | -1.13 - 5.4 | 2.7/08.4 | 4889  |
| 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 | 1999 NK <sub>20</sub>  | 2000 11 06.8 | 02 48.88 +12 26.6 19.4 | -1.02 - 3.8 | 1.3/05.9 | 2061  |
| 2000 SX <sub>261</sub> | 2000 11 05.9 | 02 45.45 +05 35.3 17.9 | -0.78 - 6.4 | 3.6/03.1 | 4852  | 1994 SC <sub>5</sub>   | 2000 11 06.8 | 02 49.07 +16 20.4 19.1 | -0.83 - 3.3 | 0.0/06.9 | 35691 |
| 1999 FR <sub>32</sub>  | 2000 11 05.9 | 02 45.48 +19 07.4 14.8 | -1.20 + 1.1 | 1.5/06.5 | 4929  | 1990 RK <sub>5</sub>   | 2000 11 06.8 | 02 49.20 +14 00.9 16.8 | -0.88 - 5.9 | 0.8/06.3 | 4883  |
| 1998 HJ <sub>148</sub> | 2000 11 05.9 | 02 45.48 +13 43.9 18.6 | -0.79 - 3.7 | 0.6/05.4 | 32025 | (17688)                | 2000 11 06.8 | 02 49.20 +27 45.3 15.9 | -1.01 - 1.9 | 4.7/09.4 | 4123  |
| 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 | 4887  | 1995 BZ <sub>11</sub>  | 2000 11 06.8 | 02 49.31 +07 57.6 18.1 | -1.03 - 3.5 | 3.8/05.1 | 4890  |
| (11182)                | 2000 11 05.9 | 02 45.64 -01 51.0 17.3 | -0.91 - 1.4 | 6.2/02.0 | 4878  | 2000 RT <sub>72</sub>  | 2000 11 06.9 | 02 49.34 +09 30.5 17.2 | -0.73 - 9.3 | 2.0/04.9 | 4773  |
| (17685)                | 2000 11 05.9 | 02 45.67 +17 07.2 17.7 | -0.88 - 4.7 | 0.4/06.3 | 4122  | 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 | 4581  |
| 1998 BH <sub>4</sub>   | 2000 11 06.0 | 02 45.91 +19 33.9 18.6 | -1.07 - 4.4 | 1.3/06.9 | 1017  | 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 | 4908  |
| 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 | (10871)                | 2000 11 06.9 | 02 49.65 +17 48.1 16.7 | -1.07 - 3.3 | 0.6/07.3 | 3859  |
| 1999 JL <sub>24</sub>  | 2000 11 06.0 | 02 46.17 +19 21.2 16.5 | -1.26 + 2.5 | 1.5/06.6 | 4934  | (17769)                | 2000 11 06.9 | 02 49.74 +20 33.3 17.2 | -1.13 - 0.9 | 1.8/07.8 | 4146  |
| (17695)                | 2000 11 06.1 | 02 46.15 +00 19.0 18.3 | -0.74 - 7.1 | 5.2/01.6 | 4125  | 1364 T-2               | 2000 11 06.9 | 02 49.75 +12 19.6 17.9 | -0.87 - 6.0 | 1.4/06.0 | 32092 |
| 1999 JZ <sub>61</sub>  | 2000 11 06.1 | 02 46.17 +24 29.3 18.0 | -1.00 - 7.4 | 2.8/08.4 | 36543 | (10479)                | 2000 11 06.9 | 02 49.76 +13 00.1 16.6 | -1.13 - 2.0 | 1.2/06.3 | 34431 |
| (11641)                | 2000 11 06.1 | 02 46.19 +33 08.2 18.1 | -0.98 - 5.1 | 5.7/10.7 | 35869 | 1999 JN <sub>99</sub>  | 2000 11 07.0 | 02 49.76 +03 57.5 19.2 | -0.86 - 6.8 | 4.3/03.8 | 4493  |
| 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 | 4931  | (17840)                | 2000 11 07.0 | 02 49.81 +05 42.9 17.0 | -0.72 - 7.5 | 3.1/04.0 | 4169  |
| 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 | 1999 JP <sub>92</sub>  | 2000 11 07.0 | 02 49.86 +03 01.9 17.4 | -0.96 - 4.1 | 5.1/04.0 | 4491  |
| 1999 JJ <sub>65</sub>  | 2000 11 06.2 | 02 46.48 +01 11.2 18.1 | -0.93 -13.3 | 5.7/01.6 | 4479  | 1995 HS <sub>2</sub>   | 2000 11 07.0 | 02 49.88 +11 55.4 19.6 | -1.00 - 3.4 | 1.6/06.1 | 34858 |
| 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 | 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 | 4412  |
| (17823)                | 2000 11 06.2 | 02 46.49 +18 00.2 17.2 | -1.07 - 2.7 | 0.8/06.6 | 4163  | (11813)                | 2000 11 07.0 | 02 49.90 +09 15.2 18.5 | -0.77 - 4.3 | 2.0/05.3 | 36222 |
| 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 | 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 |
| 1996 XW <sub>2</sub>   | 2000 11 06.2 | 02 46.64 +04 00.8 17.9 | -1.01 0.0   | 4.4/03.8 | 4895  | (11692)                | 2000 11 07.0 | 02 49.96 +10 42.8 18.7 | -0.79 - 3.6 | 1.5/05.7 | 35882 |
| 1981 ES <sub>2</sub>   | 2000 11 06.2 | 02 46.68 +26 16.9 18.9 | -1.08 - 6.6 | 4.1/08.9 | 26915 | 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 | 4472  |
| 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 | 3185  | 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 | 4938  |
| 1999 HQ                | 2000 11 06.2 | 02 46.79 +15 53.7 16.8 | -0.98 - 6.0 | 0.1/06.2 | 4932  | (17638)                | 2000 11 07.0 | 02 50.10 +19 46.8 18.3 | -1.09 - 4.3 | 1.5/07.9 | 4108  |
| 4573 P-L               | 2000 11 06.2 | 02 46.86 +22 21.3 18.1 | -0.91 - 1.1 | 2.0/07.6 | 30681 | (17558)                | 2000 11 07.0 | 02 50.13 +08 24.7 16.9 | -0.97 - 5.0 | 3.3/05.2 | 4085  |
| (11010)                | 2000 11 06.2 | 02 46.93 +08 07.1 17.6 | -0.98 - 6.7 | 3.1/04.2 | 35214 | 2000 RW <sub>77</sub>  | 2000 11 07.1 | 02 50.12 +10 57.6 16.9 | -0.91 - 2.2 | 2.0/05.9 | 4780  |
| 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 | 4929  | 1979 MC <sub>3</sub>   | 2000 11 07.1 | 02 50.14 +13 37.8 19.6 | -0.95 - 4.6 | 0.9/06.5 | 30778 |
| 1999 FS <sub>7</sub>   | 2000 11 06.3 | 02 47.09 +13 35.3 18.0 | -1.14 - 4.8 | 1.0/05.8 | 4928  | 1998 FX <sub>30</sub>  | 2000 11 07.1 | 02 50.33 +23 37.9 18.3 | -1.14 - 1.6 | 3.1/08.6 | 39189 |
| 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 | 4914  | 1981 ER <sub>12</sub>  | 2000 11 07.1 | 02 50.40 +31 40.5 19.4 | -0.93 - 2.4 | 4.3/10.8 | 26917 |
| (17950)                | 2000 11 06.3 | 02 47.21 +25 38.0 17.1 | -1.18 - 2.5 | 4.1/09.0 | 4201  | 1997 XV <sub>8</sub>   | 2000 11 07.1 | 02 50.48 +28 04.2 17.3 | -1.10 - 4.6 | 4.6/10.0 | 4899  |
| 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 | 4506  | 1999 JO <sub>79</sub>  | 2000 11 07.2 | 02 50.54 +16 07.9 19.1 | -1.03 - 3.8 | 0.1/07.2 | 35652 |
| 1999 HF <sub>3</sub>   | 2000 11 06.4 | 02 47.36 +20 11.1 17.4 | -0.99 - 4.6 | 1.5/07.4 | 35735 | 1145 T-1               | 2000 11 07.2 | 02 50.62 +22 42.8 18.6 | -1.05 - 4.3 | 2.4/08.7 | 32343 |
| 1999 NU <sub>7</sub>   | 2000 11 06.4 | 02 47.50 +16 18.0 18.4 | -0.81 - 4.2 | 0.0/06.5 | 36544 | 1993 FZ <sub>31</sub>  | 2000 11 07.2 | 02 50.70 +05 15.7 16.9 | -0.87 - 5.6 | 5.1/04.3 | 4314  |
| (17863)                | 2000 11 06.4 | 02 47.53 +16 39.6 16.1 | -0.96 0.0   | 0.2/06.6 | 4175  | (11423)                | 2000 11 07.2 | 02 50.78 +20 07.2 16.7 | -0.94 - 6.6 | 1.6/08.2 | 3859  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1998 FX <sub>60</sub>  | 2000 11 07.2 | 02 50.79 +19 53.1 18.2 | -0.93 - 3.1 | 1.2/08.1  | 4908  |
| (11268)                | 2000 11 07.2 | 02 50.83 +13 29.6 15.7 | -0.87 - 7.2 | 1.4/06.5  | 35558 |
| 1995 DF                | 2000 11 07.3 | 02 51.21 +08 45.5 18.4 | -1.07 - 4.2 | 3.0/05.6  | 4890  |
| 1999 HG <sub>2</sub>   | 2000 11 07.3 | 02 51.24 +16 01.7 18.1 | -1.05 - 6.0 | 0.1/07.3  | 4932  |
| (16426)                | 2000 11 07.3 | 02 51.30 +56 43.7 16.2 | -2.03 + 3.2 | 20.5/17.6 | 2830  |
| 1999 JP <sub>122</sub> | 2000 11 07.3 | 02 51.33 +09 26.2 18.6 | -0.99 - 1.9 | 2.4/06.0  | 4498  |
| 1997 EY <sub>34</sub>  | 2000 11 07.4 | 02 51.28 +11 37.7 18.0 | -0.87 - 3.2 | 1.7/06.3  | 3879  |
| 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 |
| 1993 YL                | 2000 11 07.4 | 02 51.37 +13 22.3 18.3 | -1.02 - 3.6 | 1.1/06.7  | 4888  |
| 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  | 4893  |
| (17495)                | 2000 11 07.4 | 02 51.40 +06 45.9 16.7 | -1.07 - 3.6 | 3.8/05.3  | 4067  |
| 1999 KO <sub>4</sub>   | 2000 11 07.4 | 02 51.48 +11 53.7 18.9 | -0.98 - 4.8 | 1.6/06.4  | 35470 |
| 1998 FB <sub>111</sub> | 2000 11 07.4 | 02 51.49 +25 57.2 18.6 | -0.84 - 4.1 | 2.5/09.9  | 4910  |
| 1981 EM <sub>29</sub>  | 2000 11 07.4 | 02 51.69 +25 32.2 19.8 | -1.09 - 5.4 | 3.4/09.7  | 26920 |
| 1998 FS <sub>51</sub>  | 2000 11 07.4 | 02 51.72 +06 19.8 18.6 | -0.87 - 4.4 | 3.5/05.0  | 38047 |
| (11550)                | 2000 11 07.4 | 02 51.77 +31 52.9 16.8 | -1.05 - 3.5 | 5.3/11.1  | 35845 |
| 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  |
| 1998 HZ <sub>117</sub> | 2000 11 07.5 | 02 52.06 +03 18.4 17.3 | -0.93 - 5.2 | 4.9/04.3  | 4913  |
| 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 |
| 1994 AV <sub>1</sub>   | 2000 11 07.6 | 02 52.14 +26 43.3 17.2 | -1.10 - 4.8 | 4.0/10.0  | 36513 |
| 1999 KH <sub>15</sub>  | 2000 11 07.6 | 02 52.23 +12 15.3 16.9 | -0.88 - 7.7 | 1.4/06.5  | 4503  |
| 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  | 4436  |
| (12115)                | 2000 11 07.6 | 02 52.27 +01 12.2 16.9 | -0.72 - 6.5 | 4.2/03.3  | 36305 |
| 2000 SM <sub>225</sub> | 2000 11 07.6 | 02 52.35 +01 51.2 17.7 | -0.96 - 4.9 | 6.8/04.0  | 4850  |
| 1999 NO <sub>23</sub>  | 2000 11 07.6 | 02 52.38 +19 46.3 18.9 | -0.90 - 4.5 | 1.1/08.5  | 4944  |
| (18161)                | 2000 11 07.6 | 02 52.41 +27 52.5 16.0 | -0.98 - 1.4 | 3.9/10.2  | 4262  |
| 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  | 4943  |
| 1969 GB                | 2000 11 07.6 | 02 52.52 +26 40.5 18.2 | -0.82 - 4.9 | 2.8/10.4  | 958   |
| 1997 AZ <sub>21</sub>  | 2000 11 07.7 | 02 52.64 +17 12.4 18.3 | -0.81 - 3.3 | 0.2/07.9  | 4896  |
| 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  | 3918  |
| 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  | 4944  |
| (18283)                | 2000 11 07.7 | 02 52.96 +07 09.4 17.4 | -1.03 - 0.9 | 4.1/06.0  | 4297  |
| 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  | 4850  |
| 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  | 3424  |
| (10756)                | 2000 11 07.8 | 02 53.07 +10 24.5 15.6 | -1.04 - 0.6 | 3.2/06.7  | 3858  |
| 1981 EA <sub>6</sub>   | 2000 11 07.8 | 02 53.11 +21 43.6 18.6 | -0.83 - 5.2 | 1.6/09.2  | 32209 |
| 2000 RC <sub>60</sub>  | 2000 11 07.8 | 02 53.12 +12 24.0 16.7 | -0.92 - 0.8 | 1.8/07.0  | 4758  |
| (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  | 4933  |
| 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 JX <sub>75</sub>  | 2000 11 07.9 | 02 53.53 +20 14.8 17.5 | -1.18 - 3.6 | 1.5/09.0  | 4939  |
| 1998 DX                | 2000 11 07.9 | 02 53.56 +06 50.7 16.9 | -1.07 - 1.3 | 4.1/06.1  | 4902  |
| 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 |
| 2554 P-L               | 2000 11 08.0 | 02 53.86 +16 08.3 16.2 | -0.74 - 2.0 | 0.1/07.9  | 5144  |
| (12041)                | 2000 11 08.0 | 02 53.91 +03 35.2 18.5 | -0.71 - 4.7 | 3.5/04.7  | 36284 |
| (11717)                | 2000 11 08.0 | 02 53.99 +17 17.5 16.9 | -0.82 - 3.3 | 0.2/08.2  | 35889 |
| 1981 DP                | 2000 11 08.0 | 02 54.05 +18 21.1 18.8 | -1.02 - 7.4 | 0.6/08.5  | 4879  |
| 1981 EV <sub>15</sub>  | 2000 11 08.1 | 02 54.22 +31 40.9 18.9 | -1.10 - 2.1 | 5.2/11.5  | 35415 |
| 1999 JJ <sub>46</sub>  | 2000 11 08.1 | 02 54.23 +10 34.5 18.6 | -0.99 - 4.9 | 2.3/06.7  | 4936  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 2000 QP <sub>151</sub> | 2000 11 08.1 | 02 54.27 +25 48.5 17.5 | -0.94 - 6.1 | 3.1/10.6  | 4669  |
| (16456)                | 2000 11 08.1 | 02 54.28 +13 20.2 16.1 | -0.97 - 1.4 | 1.7/07.5  | 2839  |
| 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  | 5036  |
| 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  | 4808  |
| 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  | 4894  |
| 1999 NP <sub>64</sub>  | 2000 11 08.2 | 02 54.74 -00 54.0 19.3 | -0.81 - 2.6 | 5.5/04.2  | 4944  |
| 1998 FO <sub>104</sub> | 2000 11 08.2 | 02 54.80 +14 39.7 16.3 | -0.96 - 9.7 | 0.8/07.7  | 4910  |
| 2081 T-2               | 2000 11 08.2 | 02 54.84 +21 01.7 18.5 | -1.04 - 4.5 | 1.7/09.0  | 32292 |
| (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  | 4894  |
| 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  | 4752  |
| 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  | 4758  |
| 1998 FZ <sub>83</sub>  | 2000 11 08.3 | 02 55.21 +24 09.9 16.9 | -1.02 - 1.7 | 2.4/10.0  | 4909  |
| (17845)                | 2000 11 08.4 | 02 55.30 +03 36.4 15.9 | -0.97 + 1.6 | 5.1/06.1  | 4170  |
| 2231 P-L               | 2000 11 08.4 | 02 55.38 +17 35.9 17.9 | -0.93 - 4.7 | 0.4/08.6  | 34263 |
| 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  | 4502  |
| 1996 XQ <sub>13</sub>  | 2000 11 08.4 | 02 55.45 +21 35.4 17.0 | -0.91 - 8.9 | 1.8/09.8  | 3878  |
| 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 |
| 1995 SK <sub>23</sub>  | 2000 11 08.4 | 02 55.74 +23 00.0 17.5 | -1.03 + 0.1 | 2.5/09.7  | 4890  |
| 1999 JH <sub>25</sub>  | 2000 11 08.5 | 02 55.72 +24 40.2 18.0 | -1.17 - 1.8 | 3.5/10.1  | 4460  |
| 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  | 4485  |
| 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  | 4504  |
| 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 56.19 +08 46.0 18.0 | -1.08 - 2.9 | 3.1/07.0  | 35459 |
| 1996 TG <sub>13</sub>  | 2000 11 08.6 | 02 56.40 +20 27.9 17.4 | -1.03 - 3.6 | 1.6/09.5  | 35697 |
| 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  | 4900  |
| 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 JV <sub>48</sub>  | 2000 11 08.7 | 02 56.86 +18 47.8 15.7 | -0.96 - 7.5 | 0.9/09.3  | 4936  |
| 1999 KN <sub>14</sub>  | 2000 11 08.8 | 02 57.02 +11 10.3 19.2 | -0.95 - 4.6 | 2.0/07.5  | 35044 |
| 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  | 4885  |
| (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 16.8 | -1.18 - 3.2 | 1.4/09.5  | 4752  |
| 1999 JH                | 2000 11 08.8 | 02 57.30 +43 01.6 18.2 | -2.25 +10.4 | 13.0/10.6 | 4449  |
| 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  | 4491  |
| 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  | 4938  |
| 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 |
| 1997 EJ <sub>55</sub>  | 2000 11 08.9 | 02 57.66 +18 41.6 18.5 | -0.81 - 3.2 | 0.5/09.4  | 36349 |
| 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  | 4903  |
| 1998 HK <sub>7</sub>   | 2000 11 09.0 | 02 57.80 +12 05.0 16.4 | -1.56 + 8.7 | 2.3/08.6  | 4399  |
| (17779)                | 2000 11 09.0 | 02 57.81 +16 38.9 17.5 | -0.86 - 4.0 | 0.1/09.0  | 4149  |
| 1999 JJ <sub>3</sub>   | 2000 11 09.0 | 02 58.16 +05 35.0 16.7 | -1.06 - 0.4 | 5.3/07.0  | 4449  |
| 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 |
| 1978 VW <sub>4</sub>   | 2000 11 09.1 | 02 58.10 +17 24.3 17.5 | -0.99 - 2.8 | 0.2/09.2  | 27930 |
| (17696)                | 2000 11 09.1 | 02 58.10 +30 01.0 17.1 | -0.98 - 1.5 | 4.5/11.9  | 4125  |
| 2000 RX <sub>77</sub>  | 2000 11 09.1 | 02 58.16 +05 17.4 17.0 | -0.82 - 6.1 | 4.4/06.1  | 4780  |
| 1999 LE                | 2000 11 09.1 | 02 58.41 +03 51.1 19.8 | -0.92 - 4.7 | 4.6/06.1  | 35385 |
| 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  | 4943  |
| 1998 ES                | 2000 11 09.1 | 02 58.46 +10 11.4 16.7 | -0.81 - 7.6 | 3.4/07.3  | 3197  |
| 1997 EN <sub>2</sub>   | 2000 11 09.1 | 02 58.55 +03 44.0 18.4 | -0.76 - 4.4 | 3.8/05.9  | 4896  |
| (17766)                | 2000 11 09.1 | 02 58.58 +27 14.1 17.8 | -1.12 - 0.5 | 3.4/11.2  | 4145  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| 1998 KN <sub>45</sub>  | 2000 11 09.2 | 02 58.63 +15 22.7 18.6 | -0.79 - 2.9 | 0.4/08.9  | 36536 |
| (10997)                | 2000 11 09.2 | 02 58.76 +25 50.1 18.1 | -0.99 - 3.8 | 2.7/11.3  | 35211 |
| 1998 FH <sub>18</sub>  | 2000 11 09.2 | 02 58.80 +14 04.2 17.9 | -1.01 - 4.7 | 1.1/08.6  | 1934  |
| 1996 RX <sub>3</sub>   | 2000 11 09.2 | 02 58.88 +08 11.8 18.9 | -0.95 - 5.9 | 3.5/07.2  | 4335  |
| (16874)                | 2000 11 09.2 | 02 58.99 +10 58.2 18.1 | -1.02 - 4.4 | 2.6/08.0  | 2960  |
| 1999 ND                | 2000 11 09.3 | 02 59.09 -09 02.1 18.2 | -0.90 0.0   | 8.6/04.1  | 4943  |
| 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  | 3913  |
| 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  | 4908  |
| 1979 MF <sub>2</sub>   | 2000 11 09.3 | 02 59.16 +15 25.5 18.0 | -1.09 - 4.9 | 0.7/09.0  | 34572 |
| 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 |
| (17641)                | 2000 11 09.4 | 02 59.39 +09 46.5 18.1 | -0.95 - 6.1 | 2.8/07.7  | 4109  |
| 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  | 4904  |
| 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  | 3233  |
| (11245)                | 2000 11 09.4 | 02 59.53 +12 19.7 18.5 | -0.98 - 4.4 | 1.6/08.4  | 35274 |
| 1996 MN                | 2000 11 09.4 | 02 59.55 +23 24.6 18.4 | -1.09 - 7.3 | 2.7/11.1  | 3876  |
| 1993 TM <sub>23</sub>  | 2000 11 09.4 | 02 59.65 +07 18.3 17.6 | -0.96 - 6.6 | 4.5/07.0  | 4887  |
| 1998 HF <sub>148</sub> | 2000 11 09.4 | 02 59.73 +14 47.2 17.7 | -0.79 - 3.8 | 0.7/09.0  | 4914  |
| 1998 HQ <sub>34</sub>  | 2000 11 09.4 | 02 59.75 +08 05.6 18.9 | -0.86 - 4.8 | 3.1/07.3  | 3231  |
| (18034)                | 2000 11 09.4 | 02 59.75 +15 15.1 16.9 | -0.85 - 4.1 | 0.6/09.1  | 4226  |
| 1998 JO <sub>1</sub>   | 2000 11 09.5 | 02 59.85 +16 21.6 17.9 | -0.80 - 2.9 | 0.2/09.4  | 4914  |
| 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  | 4934  |
| (11097)                | 2000 11 09.5 | 03 00.08 +17 02.8 16.5 | -0.83 - 2.5 | 0.0/09.6  | 35236 |
| 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  | 3879  |
| 1998 HF <sub>100</sub> | 2000 11 09.6 | 03 00.49 +09 53.8 17.3 | -0.91 - 3.6 | 2.3/08.1  | 4913  |
| 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  |
| 1999 JL <sub>85</sub>  | 2000 11 09.7 | 03 00.67 -24 41.6 16.7 | -0.75 -10.0 | 18.4/25.0 | 4940  |
| 1981 EY <sub>16</sub>  | 2000 11 09.7 | 03 00.68 +18 17.5 17.2 | -0.98 - 6.6 | 0.6/10.0  | 3861  |
| (17735)                | 2000 11 09.7 | 03 00.81 +24 45.5 17.2 | -1.00 - 6.5 | 3.8/11.7  | 4136  |
| 1999 GQ <sub>19</sub>  | 2000 11 09.7 | 03 01.01 +18 10.3 17.3 | -1.17 - 1.8 | 0.4/10.0  | 4931  |
| 1999 PQ <sub>1</sub>   | 2000 11 09.8 | 03 01.00 +18 28.9 19.2 | -0.87 - 3.1 | 0.4/10.1  | 2650  |
| 1999 JX <sub>77</sub>  | 2000 11 09.8 | 03 01.00 +05 01.7 17.5 | -1.01 - 5.7 | 5.0/07.0  | 4939  |
| 1998 BS <sub>33</sub>  | 2000 11 09.8 | 03 01.07 +07 06.0 18.1 | -0.98 - 3.4 | 3.6/07.6  | 4902  |
| 1999 RQ <sub>111</sub> | 2000 11 09.8 | 03 01.16 -02 32.0 17.5 | -0.80 - 4.7 | 6.1/04.9  | 2652  |
| 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  | 4397  |
| 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  | 4939  |
| 1998 FC <sub>107</sub> | 2000 11 09.8 | 03 01.34 +18 16.8 17.6 | -0.99 - 7.4 | 0.5/10.2  | 35707 |
| 1999 GQ <sub>33</sub>  | 2000 11 09.9 | 03 01.33 +06 42.1 17.4 | -1.10 - 2.2 | 4.5/07.9  | 4444  |
| 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  | 4944  |
| (10452)                | 2000 11 09.9 | 03 01.46 +11 41.8 15.2 | -0.99 - 7.4 | 2.6/08.6  | 34424 |
| 1998 MB <sub>16</sub>  | 2000 11 09.9 | 03 01.59 +14 16.7 18.0 | -0.88 - 2.7 | 0.9/09.3  | 32756 |
| 1998 HK <sub>133</sub> | 2000 11 09.9 | 03 01.59 +10 22.9 18.9 | -0.92 - 3.2 | 2.3/08.5  | 4914  |
| 1996 XM <sub>13</sub>  | 2000 11 10.0 | 03 02.04 +14 12.4 17.6 | -0.95 - 2.9 | 1.0/09.4  | 38770 |
| 2000 RP <sub>4</sub>   | 2000 11 10.0 | 03 02.12 +19 33.7 15.6 | -1.21 + 6.0 | 1.2/10.3  | 4715  |
| (17792)                | 2000 11 10.0 | 03 02.15 -07 27.6 16.6 | -0.77 - 9.9 | 10.3/02.3 | 4153  |
| 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  | 4895  |
| 1998 BM <sub>25</sub>  | 2000 11 10.1 | 03 02.15 +27 20.3 17.4 | -1.17 - 2.8 | 4.3/12.2  | 4902  |
| (17839)                | 2000 11 10.2 | 03 02.54 +15 51.3 15.3 | -0.78 - 9.6 | 0.5/09.8  | 4168  |
| 1992 PT <sub>4</sub>   | 2000 11 10.2 | 03 02.73 +00 59.4 17.8 | -0.98 - 3.2 | 6.0/06.8  | 4885  |
| (17370)                | 2000 11 10.2 | 03 02.76 +37 30.6 17.8 | -0.96 - 3.2 | 5.9/15.2  | 4033  |
| 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  |
| 1999 NL <sub>48</sub>  | 2000 11 10.2 | 03 02.86 +03 25.7 18.0 | -0.79 - 5.2 | 4.5/06.8  | 4944  |

|                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|-----------|-------|
| (17422)                | 2000 11 10.3 | 03 02.96 +18 05.3 17.3 | -1.11 - 0.8 | 0.3/10.5  | 4046  |
| 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 |
| 1999 LG <sub>27</sub>  | 2000 11 10.3 | 03 03.32 +26 37.6 17.9 | -0.97 - 7.8 | 3.2/12.9  | 4943  |
| (11615)                | 2000 11 10.4 | 03 03.52 +13 14.4 16.6 | -0.82 - 3.6 | 1.4/09.5  | 35862 |
| 1999 JT <sub>77</sub>  | 2000 11 10.4 | 03 03.54 +08 22.2 19.4 | -0.99 - 4.6 | 3.2/08.5  | 35464 |
| (16943)                | 2000 11 10.4 | 03 03.57 +06 18.7 15.1 | -1.11 + 4.6 | 5.0/09.0  | 2980  |
| 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  | 4907  |
| 1996 VH <sub>4</sub>   | 2000 11 10.4 | 03 03.74 +05 50.9 17.8 | -0.98 - 0.3 | 3.8/08.3  | 4894  |
| 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  | 4886  |
| 1995 YO                | 2000 11 10.5 | 03 03.93 +02 42.0 16.9 | -0.81 - 1.5 | 4.8/07.4  | 4891  |
| 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  | 3868  |
| 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  | 4939  |
| 2053 P-L               | 2000 11 10.5 | 03 04.03 +16 56.3 18.0 | -0.90 - 4.6 | 0.1/10.5  | 5144  |
| 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 04.10 +22 32.7 18.8 | -1.20 - 2.4 | 2.0/11.6  | 35424 |
| 1992 FL <sub>3</sub>   | 2000 11 10.5 | 03 04.18 +14 01.4 18.8 | -0.80 - 3.4 | 0.9/09.8  | 39151 |
| 1999 LD <sub>27</sub>  | 2000 11 10.5 | 03 04.23 +00 49.4 18.9 | -0.98 - 0.5 | 5.7/07.5  | 4507  |
| 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  |
| 1999 JO <sub>92</sub>  | 2000 11 10.6 | 03 04.54 +06 45.1 19.5 | -0.99 - 4.6 | 4.0/08.3  | 4491  |
| 1997 YL <sub>10</sub>  | 2000 11 10.6 | 03 04.61 +19 45.0 16.6 | -1.10 - 2.1 | 1.2/11.2  | 4355  |
| 2000 QL <sub>128</sub> | 2000 11 10.7 | 03 04.61 +17 26.4 16.1 | -0.90 + 0.2 | 0.0/10.7  | 4652  |
| (12131)                | 2000 11 10.7 | 03 04.80 +18 35.6 18.0 | -0.88 - 3.8 | 0.4/11.0  | 36310 |
| (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  | 4914  |
| (10953)                | 2000 11 10.7 | 03 05.03 +24 53.4 18.9 | -1.18 - 3.4 | 2.8/12.3  | 34810 |
| 1097 T-3               | 2000 11 10.8 | 03 05.00 +21 16.8 16.3 | -0.87 - 7.8 | 1.5/11.8  | 32344 |
| 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  | 4937  |
| (11680)                | 2000 11 10.8 | 03 05.09 +09 18.3 18.6 | -0.92 - 4.1 | 2.6/09.0  | 35879 |
| 2000 OU <sub>52</sub>  | 2000 11 10.8 | 03 05.10 +17 34.7 16.0 | -1.05 - 0.3 | 0.1/10.9  | 4589  |
| 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  | 4751  |
| 1999 JN <sub>45</sub>  | 2000 11 10.8 | 03 05.23 +16 23.2 18.5 | -1.05 - 6.5 | 0.4/10.6  | 35107 |
| (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 |
| 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 RZ <sub>75</sub>  | 2000 11 10.9 | 03 05.86 +37 44.0 16.7 | -1.17 - 1.9 | 7.4/15.3  | 4778  |
| 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 | 4892  |
| 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 |
| 5112 T-3               | 2000 11 11.0 | 03 06.04 +05 41.6 18.6 | -0.90 - 2.2 | 4.0/08.6  | 5148  |
| 1994 GY <sub>10</sub>  | 2000 11 11.0 | 03 06.09 +17 09.6 18.1 | -1.00 - 1.6 | 0.1/11.0  | 4889  |
| (12121)                | 2000 11 11.1 | 03 06.22 -01 05.3 18.1 | -0.88 - 5.4 | 6.1/06.5  | 36307 |
| (17960)                | 2000 11 11.1 | 03 06.27 +11 46.3 17.5 | -1.01 - 3.8 | 2.1/09.9  | 4204  |
| 1993 FY <sub>12</sub>  | 2000 11 11.1 | 03 06.30 +04 40.8 17.2 | -0.82 - 4.4 | 3.9/08.1  | 4886  |
| 1999 JZ <sub>65</sub>  | 2000 11 11.1 | 03 06.32 +14 38.0 19.1 | -1.04 - 4.3 | 1.0/10.5  | 35374 |
| 1998 CB <sub>3</sub>   | 2000 11 11.1 | 03 06.64 +22 21.9 16.6 | -1.01 - 3.9 | 2.3/12.3  | 3885  |
| 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  | 4894  |
| (17850)                | 2000 11 11.2 | 03 06.76 +09 25.3 16.7 | -0.84 - 9.3 | 3.1/09.0  | 4171  |
| (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 16.4 | -1.02 - 6.7 | 0.7/10.8  | 4942  |

|                        |              |                        |             |          |       |                        |              |                        |             |           |       |
|------------------------|--------------|------------------------|-------------|----------|-------|------------------------|--------------|------------------------|-------------|-----------|-------|
| (12600)                | 2000 11 11.2 | 03 06.90 +14 23.3 17.3 | -0.77 - 3.1 | 0.8/10.6 | 36769 | 1999 JD <sub>35</sub>  | 2000 11 12.1 | 03 10.32 +17 47.6 17.1 | -1.00 - 8.1 | 0.0/12.1  | 4464  |
| 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 | 4944  | 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  | 4911  |
| 1998 KC <sub>2</sub>   | 2000 11 11.2 | 03 06.96 +11 34.4 17.9 | -1.04 -15.5 | 2.4/09.5 | 4914  | (10821)                | 2000 11 12.1 | 03 10.60 +16 12.7 15.8 | -0.97 - 6.4 | 0.8/11.8  | 34776 |
| 1998 BY <sub>2</sub>   | 2000 11 11.2 | 03 07.04 +21 36.4 16.8 | -1.12 - 3.0 | 1.8/12.1 | 3884  | 1998 ED <sub>21</sub>  | 2000 11 12.2 | 03 10.67 +01 56.2 17.7 | -0.94 - 5.4 | 6.8/08.4  | 4905  |
| 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 | 4915  | 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  | 4895  |
| (10725)                | 2000 11 11.3 | 03 07.08 +13 32.3 15.9 | -1.11 + 1.0 | 1.9/10.7 | 34750 | 1998 FD <sub>2</sub>   | 2000 11 12.2 | 03 10.81 +11 35.5 18.9 | -0.95 - 3.9 | 2.3/10.9  | 4905  |
| 1999 GY <sub>34</sub>  | 2000 11 11.3 | 03 07.19 +11 27.1 17.9 | -1.07 - 6.7 | 2.6/09.9 | 4931  | 1999 JA <sub>26</sub>  | 2000 11 12.2 | 03 10.89 +16 22.2 17.8 | -1.03 - 5.2 | 0.6/11.9  | 4934  |
| (12531)                | 2000 11 11.3 | 03 07.22 +01 32.3 16.8 | -0.79 - 4.8 | 5.4/07.4 | 36750 | 1274 T-1               | 2000 11 12.2 | 03 10.96 +23 46.4 17.2 | -1.00 - 2.5 | 2.2/13.5  | 35479 |
| 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 | 4753  | 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  | 4933  |
| 1998 EO <sub>2</sub>   | 2000 11 11.3 | 03 07.42 +14 02.7 16.4 | -0.83 - 3.4 | 1.2/10.6 | 3197  | 1995 SX <sub>52</sub>  | 2000 11 12.2 | 03 11.05 +18 30.0 16.3 | -0.91 - 5.0 | 0.3/12.4  | 3874  |
| 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 | 4944  | 1999 NS <sub>9</sub>   | 2000 11 12.2 | 03 11.07 +03 14.8 17.5 | -0.84 - 3.4 | 4.5/09.1  | 4943  |
| 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 | 4893  | 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 RZ <sub>151</sub> | 2000 11 11.4 | 03 07.71 +27 18.6 18.8 | -0.89 - 2.2 | 2.8/13.6 | 1460  | 1998 FX <sub>113</sub> | 2000 11 12.2 | 03 11.14 +25 37.5 17.6 | -1.07 - 4.8 | 3.5/14.0  | 35438 |
| 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 | 4899  | 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 FN <sub>75</sub>  | 2000 11 11.5 | 03 07.84 +31 18.4 17.1 | -1.27 + 3.2 | 5.7/13.5 | 4909  | (10672)                | 2000 11 12.3 | 03 11.13 +36 07.4 15.8 | -0.95 - 6.3 | 5.9/17.3  | 34737 |
| (12104)                | 2000 11 11.5 | 03 07.84 +08 46.9 16.8 | -0.88 - 0.7 | 2.8/09.8 | 36302 | 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  | 4946  |
| 2000 SZ <sub>293</sub> | 2000 11 11.5 | 03 07.87 +38 28.4 17.1 | -1.46 + 4.6 | 8.2/14.3 | 4854  | 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 |
| 1998 HZ <sub>26</sub>  | 2000 11 11.5 | 03 08.07 +15 51.7 17.9 | -0.95 - 1.8 | 0.6/11.2 | 35333 | 2000 QK <sub>26</sub>  | 2000 11 12.4 | 03 11.47 +21 05.1 18.2 | -1.01 - 3.6 | 1.1/13.1  | 4607  |
| 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 | (15773)                | 2000 11 12.4 | 03 11.50 +12 50.6 18.6 | -0.87 - 4.1 | 1.7/11.3  | 1698  |
| 1979 PA                | 2000 11 11.5 | 03 08.21 +17 06.6 18.1 | -0.97 - 8.2 | 0.2/11.5 | 4879  | 2029 T-3               | 2000 11 12.4 | 03 11.57 +30 31.0 18.1 | -1.08 - 1.4 | 4.6/14.9  | 31609 |
| 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 | 1999 NT <sub>53</sub>  | 2000 11 12.4 | 03 11.60 +12 08.5 17.8 | -0.87 - 6.4 | 1.8/11.0  | 4944  |
| 1993 FS <sub>29</sub>  | 2000 11 11.5 | 03 08.26 +22 36.8 18.3 | -0.91 - 4.2 | 1.6/12.7 | 35424 | 1997 CX <sub>16</sub>  | 2000 11 12.4 | 03 11.64 +32 49.3 18.3 | -0.96 - 3.3 | 4.7/15.8  | 35939 |
| (10777)                | 2000 11 11.6 | 03 08.22 +06 31.3 17.8 | -0.99 - 4.1 | 4.2/09.2 | 34764 | 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  | 4931  |
| 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 | 4980  | 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  | 4913  |
| 1996 RC                | 2000 11 11.6 | 03 08.56 +12 43.5 18.8 | -1.03 - 4.8 | 2.0/10.6 | 28596 | 1999 NP <sub>11</sub>  | 2000 11 12.4 | 03 11.87 +36 35.7 18.0 | -1.08 - 3.8 | 6.5/16.8  | 36090 |
| 1997 AV <sub>2</sub>   | 2000 11 11.6 | 03 08.58 +15 57.6 18.3 | -1.01 - 3.1 | 0.6/11.3 | 29320 | (12171)                | 2000 11 12.5 | 03 12.00 +21 32.0 18.7 | -0.94 - 3.7 | 1.2/13.3  | 36321 |
| 1996 XL <sub>29</sub>  | 2000 11 11.6 | 03 08.62 +16 38.9 18.4 | -0.96 - 2.5 | 0.5/11.5 | 30786 | 2000 RH <sub>55</sub>  | 2000 11 12.5 | 03 12.27 +28 31.7 17.0 | -1.11 - 6.4 | 4.3/15.2  | 4756  |
| (17919)                | 2000 11 11.6 | 03 08.70 +17 03.7 16.4 | -1.09 - 7.8 | 0.3/11.6 | 4192  | 1992 GZ <sub>4</sub>   | 2000 11 12.5 | 03 12.32 +16 24.2 17.6 | -0.84 - 2.6 | 0.5/12.3  | 36067 |
| (17382)                | 2000 11 11.7 | 03 08.74 +40 01.6 17.3 | -1.24 - 1.6 | 8.7/16.8 | 4036  | 2000 RZ <sub>50</sub>  | 2000 11 12.6 | 03 12.41 +23 51.4 16.6 | -1.13 + 3.5 | 2.3/13.5  | 4752  |
| 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  | 1998 FP <sub>106</sub> | 2000 11 12.6 | 03 12.64 +19 46.5 19.3 | -0.97 - 5.1 | 0.6/13.1  | 32754 |
| 1998 FV <sub>53</sub>  | 2000 11 11.7 | 03 09.01 +26 39.2 18.1 | -1.06 - 3.0 | 3.6/13.7 | 35706 | 3464 T-3               | 2000 11 12.6 | 03 12.70 +21 27.3 18.4 | -1.05 - 2.8 | 1.7/13.4  | 31295 |
| (11427)                | 2000 11 11.8 | 03 09.14 +11 28.5 17.5 | -0.78 - 4.0 | 1.8/10.4 | 35598 | 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 |
| (11128)                | 2000 11 11.8 | 03 09.33 +17 30.4 17.8 | -1.04 - 3.2 | 0.1/11.8 | 35245 | 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  | 4934  |
| 2114 T-1               | 2000 11 11.8 | 03 09.40 +00 47.7 18.6 | -0.84 - 6.3 | 5.6/07.5 | 5146  | 1996 VD <sub>2</sub>   | 2000 11 12.7 | 03 12.86 +14 58.6 16.3 | -1.09 + 1.6 | 1.3/12.3  | 3878  |
| 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 | 4944  | 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  |
| 1996 PG <sub>5</sub>   | 2000 11 11.8 | 03 09.44 +13 12.3 18.5 | -1.05 - 5.6 | 1.7/10.9 | 4892  | 1998 BE <sub>1</sub>   | 2000 11 12.7 | 03 12.94 +10 09.8 17.0 | -1.09 - 1.6 | 3.4/11.3  | 31592 |
| 2716 P-L               | 2000 11 11.9 | 03 09.55 +12 59.1 18.8 | -1.04 - 4.5 | 2.1/10.9 | 27732 | 1998 DV <sub>15</sub>  | 2000 11 12.7 | 03 13.02 +16 21.8 18.0 | -0.98 - 5.3 | 0.7/12.4  | 3886  |
| 1998 BH <sub>25</sub>  | 2000 11 11.9 | 03 09.59 +16 03.4 17.8 | -1.03 - 3.1 | 0.6/11.6 | 35435 | 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  |
| 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 | 1999 NZ <sub>55</sub>  | 2000 11 12.7 | 03 13.14 +23 22.8 17.4 | -0.93 - 7.0 | 1.7/14.1  | 36547 |
| 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 | 1994 LT                | 2000 11 12.8 | 03 13.09 -15 05.2 17.0 | -1.54 +13.4 | 17.2/12.5 | 24409 |
| 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 NM <sub>37</sub>  | 2000 11 12.8 | 03 13.20 -03 10.1 19.3 | -0.92 - 1.9 | 6.7/08.5  | 35665 |
| 1998 FJ <sub>70</sub>  | 2000 11 12.0 | 03 09.93 +13 21.6 16.9 | -0.94 - 3.2 | 1.8/11.1 | 3890  | 1994 RN <sub>28</sub>  | 2000 11 12.8 | 03 13.37 +19 42.2 18.8 | -0.88 - 3.1 | 0.5/13.2  | 36071 |
| 1999 RO <sub>117</sub> | 2000 11 12.0 | 03 09.95 +26 09.0 18.2 | -0.99 - 6.4 | 2.8/14.0 | 3919  | 1981 EJ <sub>8</sub>   | 2000 11 12.8 | 03 13.41 +19 24.4 18.6 | -0.87 - 4.4 | 0.5/13.2  | 30649 |
| 1995 GB                | 2000 11 12.0 | 03 09.96 +13 14.3 18.6 | -1.02 - 3.7 | 1.5/11.1 | 35426 | 1999 JO <sub>50</sub>  | 2000 11 12.8 | 03 13.42 +10 39.3 16.2 | -0.88 -11.0 | 3.0/10.8  | 4936  |
| 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 | 4900  | 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  | 4905  |
| 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 RC <sub>121</sub> | 2000 11 12.8 | 03 13.55 +11 29.7 17.3 | -0.81 - 5.9 | 2.1/11.3  | 36434 |
| 1999 RJ <sub>102</sub> | 2000 11 12.0 | 03 10.16 +10 38.2 18.5 | -0.79 - 6.3 | 2.1/10.3 | 4946  | 1998 HB <sub>52</sub>  | 2000 11 12.9 | 03 13.50 +10 20.6 18.7 | -0.76 - 7.5 | 2.1/10.9  | 36897 |
| 4232 T-2               | 2000 11 12.0 | 03 10.23 +14 56.5 16.3 | -1.00 - 1.1 | 1.3/11.6 | 5147  | 1999 JH <sub>45</sub>  | 2000 11 12.9 | 03 13.69 +16 34.8 18.0 | -1.03 - 4.7 | 0.5/12.6  | 4936  |
| 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  | 1994 EV <sub>6</sub>   | 2000 11 12.9 | 03 13.69 +15 50.9 17.8 | -1.06 - 1.7 | 0.8/12.5  | 31964 |
| 1996 AB                | 2000 11 12.1 | 03 10.30 +21 32.9 16.8 | -0.84 - 3.6 | 1.3/13.0 | 3875  | 1991 SH <sub>1</sub>   | 2000 11 12.9 | 03 13.74 +08 23.9 17.5 | -1.03 0.0   | 3.2/11.4  | 4884  |
| 1999 NO <sub>3</sub>   | 2000 11 12.1 | 03 10.32 +03 34.4 17.7 | -0.90 - 5.1 | 5.1/08.8 | 4943  | (17796)                | 2000 11 12.9 | 03 13.75 +03 05.1 16.4 | -0.81 - 9.7 | 5.6/08.8  | 4155  |