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TWX 710-320-6842 ASTROGRAM CAM ** Brian G. Marsden, Director
Telephone 617-495-7244/7440/7444 ** Conrad M. Bardwell, Associate Director

EDITORIAL NOTICE.

The next MPCs will be published on or about December 27. No MPCs will be issued in November.

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ERRATA.

MPC	Line		
3154	-20	For 8.4+ 15+	read 8.4- 15-
9941	2	For 4-10-exposures	read 4-10-min exposures
9966	-17	For 850828	read 850528
10022	-16	Add	The key identification 1967 UN = 1981 RF5 was found independently by B. G. Marsden, and the remaining identifications were found independently by C. M. Bardwell. All the identifications were also found by K. Hurukawa.
10041	- 4	For 810929	read 810829
10043	-26	For the Association	read of the Association

* * * * *

CORRECTED OBSERVATIONS.

The following observations correct those previously published.

Object		Date	UT	R. A. (1950)	Decl.	Reference	Mag.	N Obs.
29		1985 05	11.33542	15 05 33.92	-25 39 07.9	MPC10006		1 675
29		1985 05	14.34444	15 02 30.97	-25 30 56.5	MPC10006		1 675
160		1985 05	11.33542	15 17 45.97	-22 25 11.9	MPC10007		1 675
160		1985 05	14.34444	15 14 57.29	-22 17 29.2	MPC10007		1 675
349		1985 05	11.33542	15 17 12.80	-22 29 08.8	MPC10007		1 675
349		1985 05	14.34444	15 14 27.96	-22 25 25.4	MPC10007		1 675
617		1985 05	11.33542	15 26 28.18	-24 10 40.9	MPC10008		1 675
617		1985 05	14.34444	15 24 39.16	-24 10 56.2	MPC10008		1 675
1457		1985 05	11.33542	15 10 07.83	-27 58 41.2	MPC10009	16	1 675
1457		1985 05	14.34444	15 07 24.00	-27 44 13.6	MPC10009		1 675
1653		1962 07	26.05469	19 23 04.71	-23 22 50.0	MPC 3154		2 822
1653		1962 07	26.08932	19 23 02.44	-23 22 50.0	MPC 3154		2 822
1958	VB1	1958 11	11.26946	03 05 03.53	+18 44 10.4	MPC 9739		760
1962	OD *	1962 07	26.05469	19 19 58.82	-23 50 45.8	MPC 3154		2 822
1962	OD	1962 07	26.08932	19 19 57.08	-23 50 48.9	MPC 3154		2 822
1982	TP	1985 05	11.33542	15 23 05.92	-26 02 47.6	MPC10010	17.5	1 675
1982	TP	1985 05	14.34444	15 20 12.07	-25 47 37.9	MPC10010		1 675
1983	TF2 *	1983 10	05.00235	00 02 09.78	-01 12 17.6	MPC 8486	18	3 010
1983	TF2	1983 10	05.02318	00 02 07.08	-01 12 20.1	MPC 8486		3 010

1985 JY1 * 1985 05 11.33542 15 00 45.59 -25 01 27.7 MPC10012 17.5 1 675
1985 JY1 1985 05 14.34444 14 57 45.32 -25 58 27.4 MPC10012 1 675
Note 1: time originally given as one hour later. 2: observations were originally interchanged. 3: time originally given as 80 min later.

* * * * *

IDENTIFICATION CHANGES.

Continuation to MPC 9981.

Object	Date	UT	R. A. (1950)	Decl.	Old desig.	Mag.	Obs.
1933 UB2 *	1933 10	20.11	03 12.6	+11 42	1933 UP	15.0	012
1971 TM3 *	1971 10	11.86116	01 12 03.34	+03 10 18.2	1971 SZ1	16.5	095
1976 KB2 *	1976 05	30.88811	15 05 25.12	-06 28 33.0	1976 JT2	17.0	095
1976 SB11*	1976 09	28.88331	00 15 11.69	-02 40 22.9	1976 SC8	17.5	095
1976 SB11	1976 10	25.79311	23 57 00.54	-04 04 20.7	1976 SC8	17.5	095
1977 TJ8 *	1977 10	13.83228	23 45 17.13	-06 11 03.1	1977 SM	16.5	095
1978 GC5 *	1978 04	07.92487	13 09 58.99	-08 27 21.1	1978 EF3	17.0	095
1978 JL3 *	1978 05	05.87200	13 46 15.05	-08 59 50.0	1978 GL4	16.9	095

* * * * *

OBSERVATIONS OF COMETS.

Observations are published here for the following observatory codes:

004 Toulouse. 0.38-m Brunner-Henry equatorial telescope. Observers Montangerand and Rossard. Position re-reduced by S. Roser.
006 Barcelona. 0.38-m astrograph. Observers J. M. Codina, J. Cepa, F. Sanchez, N. Torras and J. Nunez.
017 Hoher List. 0.3-m f/5 astrograph. Observer M. Geffert.
022 Pino Torinese. Observers G. Massone, W. Ferreri and G. De Sanctis.
024 Heidelberg-Konigstuhl. 0.4-m f/5 Bruce astrograph. Observers H. Mandel, U. Gorze and H. J. Schiffer. Measured by G. Klare and Mandel, reduced by U. Bastian and S. Roser.
027 Milan. 0.22-m equatorial telescope. Observers L. Gabba and L. Volta. Positions re-reduced by S. Roser.
046 Klet. Observers A. Mrkos and Z. Vavrova.
051 Cape. Observer J. Churms.
056 Skalnate Pleso. 0.3-m f/5 astrograph. Observers G. Cervak and P. Rychtarcik. Measured and reduced by Cervak, L. Kornos, Rychtarcik and J. Svoren.
061 Uzhgorod. Observers S. Ignatovich, I. Goroshchak and Polishchuk.
063 Turku-Tuorla. 0.70-m Schmidt. Observers T. Lappalainen, A. Niemi, A. Sillanpaa, J. Piironen and S. Haarala. Measured by Niemi.
069 Baldone, near Riga. Observers V. Ozolinya, I. Eglitis, I. Urgitis, I. Platajs and A. Alksnis.
071 Bulgarian National Observatory. Observers V. Ivanova, V. Shkodrov, T. Bonev, H. Kirova and A. Georgieva.
083 Golosseevo-Kiev. Observers E. M. Izhakevich, E. Sereda, S. Kaltygina, Y. Sizonenko, Y. Safronov and I. Ledovskaya.
086 Odessa. Observers E. Kramer and I. Shestaka.
090 Mainz. Observers R. Riemann and W. Landgraf. 0.2-m reflector. Long. and Parallax 8.25, -275, -325 (see MPC 7759).
091 St. Etienne. 0.41-m reflector. Observer R. Chanal. Long. and Parallax 4.21, -300, -302 (see MPC 7759).
092 Torun-Piwnice Observatory, 0.60/0.90/1.80-m Schmidt-Cassegrain telescope. Observers M. Antal and A. Woszczyk. Long. and Parallax 18.56, -257, -340 (see MPC 7759). Communicated by G. Sitarski.

095 Crimean Astrophysical Observatory and Sternberg Crimean Station. Observers N. S. Chernykh, L. G. Karachkina, V. P. Taraschuk, L. Zhuravleva, E. Pavlenko, V. Prokofeva and D. N. Ponomarev.
105 Moscow. Observer Y. Shokin.
114 Engelhardt Observatory, Zelenchukskaya Station. 0.4-m f/5 astrograph. Observers I. E. Tselevich, I. Zelishchev, N. Rizvanov and V. N. Kitkin.
119 Abastuman. Observer G. Majsuradze.
123 Byurakan. Observer L. Ahverdyan.
136 Engelhardt Observatory, Kasan. 0.30-m equatorial telescope. Observer W. Baranov. Position re-reduced by S. Roser.
168 Kourovskaya. Observers S. Timofeev, T. Levitskaya and N. Kalinina.
186 Kitab. Observers E. Rakhmatov, L. Bashtova, E. Mirmakhmudov, Y. Ivanov, S. Major and S. Shatokhina.
188 Shokin Majdanak. Observers Novikov and Y. A. Shokin.
190 Gissar. Observer S. Gerasimenko.
192 Tashkent. Observer I. I. Sikora. Re-reduction by L. I. Vashtova and A. A. Latinov. From Kiev Komet. Tsirk. No. 319.
210 Alma-Ata. Observers D. Gorodetskij, V. Solodovnikov, K. Churyumov, I. Ryabenko, et al.
217 Assah. 1-m Ritchey-Chretien reflector. Observer K. I. Churyumov.
293 Burlington remote site, New Jersey. Observer T. Handley.
323 Perth Observatory, Bickley. Observers M. P. Candy, P. Jekabsons and G. Kinnear.
324 Peking. Observers X.-l. Hao, D.-y. Tang and Z.-z. Dong.
330 Purple Mountain Observatory. Observers J.-x. Yang, S. L. Wei, D. C. Wang and Q. Wang.
334 Institute of Oceanology, Academia Sinica, Tsingtao. Observers S.-s. Sun, C.-z. Dong, Y.-j. Shao and L. Cheng.
371 Tokyo-Okayama. 1.88-m reflector. Observers H. Kosai and E. Watanabe.
372 Geisei. Observer T. Seki.
381 Tokyo-Kiso. Observers H. Kosai and T. Yamagata.
391 Sendai Observatory, Ayashi Station. Observer M. Koishikawa. Measured by Koishikawa, T. Tsumagari, S. Kasahara and A. Watanabe.
392 JCPM Sapporo Station. Observer H. Kaneda. Measured by K. Watanabe. 0.25-m reflector.
396 Asahikawa. Observer K. Tsuchiya. Measured by K. Watanabe. 0.31-m reflector.
397 Sapporo Science Center. Observer K. Watanabe. 0.6-m reflector.
413 Siding Spring Observatory, U.K. Schmidt Telescope Unit. Observers M. Hartley and A. Good.
474 Mt. John University Observatory. Observer A. C. Gilmore. Measured by P. M. Kilmartin (assisted by R. McIntosh and W. M. Kissling).
482 St. Andrews. Observer J. R. Stapleton.
493 Estacion Astronomica de Calar Alto. Observers U. Thiele, K. Birkle, et al. Measured by G. Klare. Reduction by S. Roser and U. Bastian.
494 Stakenbridge. Observer B. Manning.
500 Geocentric observations made at Asiago by C. Barbieri et al.
501 Herstmonceux. Observer D. P. H. Jones.
503 Cambridge. Observers A. N. Argue and J. D. Shanklin.
509 La Seyne-sur-mer. Observatoire Club Antares.
513 Lyons. Brunner and 0.32-m coude equatorial telescopes. Observers M. Luizet and J. Guillaume. Positions re-reduced by S. Roser.
544 Wilhelm-Foerster Observatory, Berlin. 0.32-m refractor. Observers Dreyhsig and Leder. Measured by Hotop. Communicated by B. Wedel.
552 Osservatorio S. Vittore. Observers C. Vacchi, G. Sassi and E. Colombini.
555 Cracow-Fort Skala. Observers M. Winiarski, M. Kurpinska-Winiarska and W. Waniak.
562 Figl Observatory, Vienna. Observers A. Schnell and H. Stockenhuber.

565 Osservatorio Brixia, Brescia. 0.26-m reflector. Observers G. Mattarozzi, M. Giorgio and U. Quadri.
567 Osservatorio Chaonis. Observers C. R. Baur and J. M. Baur.
571 Cavriana. Observers L. Lai, I. Ronchetti, M. Ruzza and G. Vesentini.
575 La Chaux de Fonds. Observer A. R. Behrend.
576 Burwash. 0.57-m reflector. Observer A. Young. Reduction by P. Birtwhistle and at the Royal Greenwich Observatory.
657 Victoria. Observers D. D. Balam, T. B. Lowe and J. B. Tatum. Measured by Tatum and Balam.
662 Lick Observatory. Measured by A. R. Klemola.
675 Palomar. Comet 1985k, 1.2-m Schmidt, observers R. Windhorst and C. Kowal, measured by Kowal. Comet 1985l, 0.46-m Schmidt, observers E. Helin, D. Schneeberger and S. Singer-Brewster, measured by M. Rudnyk.
688 Lowell Observatory, Anderson Mesa Station. 0.33-m photographic telescope. Observer B. A. Skiff. Measured by S. J. Bus and E. Bowell.
690 Lowell Observatory. 1.0-m reflector and 0.15-m Brashear refractor. Measured by E. Bowell.
691 University of Arizona, Kitt Peak. 0.91-m reflector, CCD in scanning mode. Observer T. Gehrels. Reductions by J. V. Scotti.
707 Chamberlin Observatory field station. Observers J. Briggs and P. L. Collins. Measured by E. Everhart.
754 Yerkes Observatory. 1.02-m refractor. Observer E. E. Barnard. Positions re-reduced by S. Roser.
788 Mount Cuba Observatory, Wilmington. Observers R. F. Stock, Jackson and Bock.
801 Oak Ridge Observatory. Observers R. E. McCrosky, G. Schwartz, C.-Y. Shao (assisted by C. M. Bardwell, D. W. E. Green and B. G. Marsden).
808 El Leoncito. 0.51-m double astrograph. Observer C. Lopez.
822 Cordoba. 0.30-m refractor. Observer C. D. Perrine. Positions re-reduced by S. Roser.
893 Sendai Observatory. Observer K. Aisawa. Measured by S. Kasahara.
976 Leamington Spa. 0.25-m reflector. Observer G. Johnstone. Reduction by P. Birtwhistle. Long. and Parallax 358.48, -261, -336 (see MPC 7759).
978 Condor Brow. 0.23-m f/4 reflector. Observer D. G. Buczynski.
984 Eastfield. Observer H. B. Ridley. Measured by D. G. Buczynski.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	N	Obs.
		Periodic Comet Gunn					
/1982 X	1985	09 21.43263	05 16 21.49	+23 00 21.0	18.9T	1	691
/1982 X	1985	10 19.44602	05 15 40.61	+23 28 17.9	19 T		691
/1982 X	1985	10 19.48378	05 15 39.98	+23 28 20.8			691
/1982 X	1985	10 19.50477	05 15 39.71	+23 28 21.7			691
		Periodic Comet Halley					
/1910 II	1909	12 05.32396	04 14 31.56	+15 38 51.7			690
/1910 II	1909	12 08.93689	03 58 58.07	+15 15 40.9			004
/1910 II	1909	12 08.96359	03 58 50.62	+15 15 31.0			004
/1910 II	1909	12 14.91366	03 32 30.84	+14 29 17.5			004
/1910 II	1909	12 14.94072	03 32 23.26	+14 29 04.8			004
/1910 II	1909	12 16.87431	03 23 49.74	+14 12 10.7			004
/1910 II	1909	12 30.90943	02 26 05.15	+11 58 23.9			004
/1910 II	1909	12 30.93123	02 26 00.74	+11 58 11.7			004
/1910 II	1909	12 31.90503	02 22 27.64	+11 49 00.3			004
/1910 II	1910	01 05.88463	02 05 28.86	+11 04 30.4			004
/1910 II	1910	01 05.89998	02 05 25.79	+11 04 18.4			004
/1910 II	1910	01 05.93789	02 05 18.19	+11 03 59.6			004
/1910 II	1910	01 06.90941	02 02 13.84	+10 55 46.3			004

/1910 II	1910	01	07.25347	02	01	09.24	+10	52	56.6	690
/1910 II	1910	01	08.21181	01	58	13.39	+10	45	06.7	690
/1910 II	1910	01	08.92762	01	56	04.49	+10	39	24.2	004
/1910 II	1910	01	14.74105	01	40	07.70	+09	56	54.4	513
/1910 II	1910	01	15.89485	01	37	15.75	+09	49	26.7	004
/1910 II	1910	01	15.92449	01	37	11.59	+09	49	14.5	004
/1910 II	1910	01	31.88010	01	06	19.32	+08	36	02.1	004
/1910 II	1910	02	01.87860	01	04	50.01	+08	33	20.2	004
/1910 II	1910	02	09.87152	00	54	25.87	+08	16	21.2	004
/1910 II	1910	02	19.64998	00	44	21.46	+08	07	30.6	136
/1910 II	1910	03	03.6270	00	34	21.86	+08	08	09.7	192
/1910 II	1910	04	16.49410	23	56	39.43	+08	02	55.4	690
/1910 II	1910	04	23.13848	23	52	46.46	+08	00	12.0	027
/1910 II	1910	04	23.14433	23	52	46.34	+08	00	16.7	027
/1910 II	1910	04	24.15292	23	52	30.83	+08	00	54.7	513
/1910 II	1910	04	30.12954	23	53	59.10	+08	16	53.4	027
/1910 II	1910	05	06.11652	00	04	02.13	+09	09	58.0	027
/1910 II	1910	05	09.10483	00	15	28.78	+10	04	44.8	027
/1910 II	1910	05	09.12862	00	15	35.66	+10	05	20.6	027
/1910 II	1910	05	09.15381	00	15	43.27	+10	05	55.3	004
/1910 II	1910	05	13.12188	00	46	37.28	+12	22	00.2	027
/1910 II	1910	05	26.86301	09	06	22.15	+06	22	00.7	027
/1910 II	1910	05	27.7339	09	18	05.78	+05	21	29.3	192
/1910 II	1910	05	29.85376	09	38	55.92	+03	31	28.5	027
/1910 II	1910	05	31.89245	09	52	31.60	+02	18	27.7	027
/1910 II	1910	06	01.88000	09	57	40.64	+01	50	37.8	027
/1910 II	1910	06	02.87530	10	02	10.34	+01	26	18.0	027
/1910 II	1910	06	06.89912	10	15	38.25	+00	12	59.7	004
/1910 II	1910	06	06.90054	10	15	38.80	+00	12	49.5	027
/1910 II	1910	06	07.89432	10	18	10.86	-00	01	00.3	027
/1910 II	1910	06	07.91809	10	18	14.32	-00	01	22.8	027
/1910 II	1910	06	08.86513	10	20	26.05	-00	13	18.4	027
/1910 II	1910	06	08.90127	10	20	31.49	-00	13	39.3	004
/1910 II	1910	06	15.89649	10	32	43.51	-01	21	17.7	004
/1910 II	1910	06	16.90471	10	34	06.08	-01	29	00.8	004
/1910 II	1910	06	18.88807	10	36	37.29	-01	43	11.9	004
/1910 II	1910	08	06.96013	11	16	42.31	-06	02	58.3	822
/1910 II	1910	08	07.95398	11	17	23.78	-06	08	08.4	822
/1910 II	1910	08	10.96019	11	19	27.72	-06	23	54.9	822
/1910 II	1910	08	11.95407	11	20	08.31	-06	29	16.9	822
/1910 II	1910	08	11.96334	11	20	09.06	-06	29	13.1	822
/1910 II	1910	08	12.95672	11	20	49.16	-06	34	32.4	822
/1910 II	1910	08	14.95275	11	22	10.32	-06	45	11.8	822
/1910 II	1910	08	15.95360	11	22	50.98	-06	50	29.6	822
/1910 II	1910	08	17.95795	11	24	11.73	-07	01	15.4	822
/1910 II	1910	08	22.96296	11	27	31.33	-07	28	15.5	822
/1910 II	1911	01	04.41755	11	53	15.88	-18	32	09.3	754
/1910 II	1911	02	22.25969	10	56	07.11	-16	23	37.6	754
/1910 II	1911	02	22.30351	10	56	03.30	-16	23	20.9	754
/1910 II	1911	02	27.25270	10	49	11.39	-15	46	59.3	754
/1910 II	1911	02	27.28546	10	49	08.48	-15	46	44.2	754
/1910 II	1911	03	01.19757	10	46	31.38	-15	31	49.0	754
/1910 II	1911	03	01.30525	10	46	22.45	-15	31	01.1	754
/1910 II	1911	05	21.24444	09	49	24.51	-05	35	28.0	662
/1910 II	1911	05	24.14544	09	49	23.23	-05	24	57.2	754
/1982i	1984	12	23.02819	05	55	30.69	+11	57	13.3	2 500
/1982i	1984	12	23.10319	05	55	24.86	+11	57	14.1	2 500
/1982i	1985	02	19.78049	05	00	24.02	+13	15	01.5	500
/1982i	1985	02	20.82678	04	59	50.16	+13	17	13.0	500

/1982i	1985	08	12.88403	05	59	14.61	+19	04	09.3				323
/1982i	1985	08	13.87986	05	59	48.35	+19	05	05.3				323
/1982i	1985	08	14.12674	05	59	56.25	+19	05	18.8				091
/1982i	1985	08	17.02398	06	01	31.64	+19	07	48.9				114
/1982i	1985	08	18.01382	06	02	03.48	+19	08	37.3				114
/1982i	1985	08	18.75764	06	02	26.74	+19	09	23.0	15	T		396
/1982i	1985	08	19.13472	06	02	38.82	+19	09	45.7				091
/1982i	1985	08	20.11389	06	03	08.90	+19	10	33.7				091
/1982i	1985	08	21.02973	06	03	37.15	+19	11	20.5				095
/1982i	1985	08	21.10278	06	03	39.28	+19	11	26.4				091
/1982i	1985	08	21.94896	06	04	04.76	+19	12	08.9				186
/1982i	1985	08	22.11389	06	04	09.61	+19	12	21.0				091
/1982i	1985	08	24.03356	06	05	05.52	+19	13	58.5				095
/1982i	1985	08	24.03891	06	05	06.22	+19	13	58.7				056
/1982i	1985	08	26.05808	06	06	02.26	+19	15	43.0				083
/1982i	1985	08	26.95970	06	06	27.03	+19	16	30.1				190
/1982i	1985	08	27.10495	06	06	30.95	+19	16	40.6				576
/1982i	1985	08	27.93429	06	06	52.96	+19	17	25.3				217
/1982i	1985	08	27.93430	06	06	52.96	+19	17	25.3				210
/1982i	1985	08	27.95330	06	06	53.71	+19	17	22.9				210
/1982i	1985	08	27.96146	06	06	53.62	+19	17	25.6				188
/1982i	1985	08	28.01742	06	06	55.05	+19	17	27.6				069
/1982i	1985	08	28.06198	06	06	56.31	+19	17	30.0				083
/1982i	1985	08	28.06504	06	06	56.35	+19	17	32.0				083
/1982i	1985	08	28.12569	06	06	58.03	+19	17	34.5				022
/1982i	1985	08	28.14201	06	06	58.31	+19	17	34.9				022
/1982i	1985	09	05.17086	06	10	04.96	+19	25	01.6				493
/1982i	1985	09	06.18354	06	10	24.76	+19	26	01.4				493
/1982i	1985	09	07.71632	06	10	53.33	+19	27	31.5			3	391
/1982i	1985	09	07.72431	06	10	52.80	+19	27	32.3	14	T		391
/1982i	1985	09	09.19795	06	11	17.92	+19	29	06.6				493
/1982i	1985	09	10.76489	06	11	41.92	+19	30	47.1				371
/1982i	1985	09	10.78136	06	11	42.45	+19	30	50.1	14	T		371
/1982i	1985	09	10.93264	06	11	44.24	+19	30	56.5				190
/1982i	1985	09	11.04852	06	11	45.91	+19	31	04.4				046
/1982i	1985	09	11.05847	06	11	46.11	+19	31	04.7				046
/1982i	1985	09	11.07230	06	11	46.31	+19	31	05.5				046
/1982i	1985	09	11.07954	06	11	46.44	+19	31	06.4				046
/1982i	1985	09	11.09444	06	11	46.60	+19	31	08.7				022
/1982i	1985	09	12.02081	06	11	59.19	+19	32	09.6				095
/1982i	1985	09	12.02440	06	11	59.29	+19	32	08.3				069
/1982i	1985	09	12.02775	06	11	59.21	+19	32	10.6				095
/1982i	1985	09	12.05486	06	11	59.72	+19	32	11.7				567
/1982i	1985	09	12.07222	06	11	59.93	+19	32	11.9				567
/1982i	1985	09	12.08264	06	11	59.89	+19	32	12.6				022
/1982i	1985	09	12.09722	06	12	00.13	+19	32	15.3				575
/1982i	1985	09	12.09861	06	12	00.16	+19	32	14.9				022
/1982i	1985	09	12.10373	06	12	00.20	+19	32	13.8				046
/1982i	1985	09	12.11362	06	12	00.30	+19	32	13.9				046
/1982i	1985	09	12.11389	06	12	00.36	+19	32	15.5				567
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/1982i	1985	09	12.36556	06	12	03.54	+19	32	33.1				801
/1982i	1985	09	12.78590	06	12	08.78	+19	33	01.1	14	T		371
/1982i	1985	09	12.93178	06	12	10.38	+19	33	11.4				210
/1982i	1985	09	12.94798	06	12	10.80	+19	33	11.0				210
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/1982i	1985	09	13.03591	06	12	11.77	+19	33	17.5				069
/1982i	1985	09	13.03681	06	12	11.73	+19	33	17.9				092
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/1982i	1985	09	13.09375	06	12	12.38	+19	33	21.5			544
/1982i	1985	09	13.09794	06	12	12.41	+19	33	22.4	14.0	T	046
/1982i	1985	09	13.10656	06	12	12.46	+19	33	21.9			046
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/1982i	1985	09	13.75959	06	12	20.02	+19	34	08.9			381
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/1982i	1985	09	14.10972	06	12	23.70	+19	34	32.5			046
/1982i	1985	09	14.11007	06	12	23.73	+19	34	33.0			576
/1982i	1985	09	14.11563	06	12	23.75	+19	34	32.6			046
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/1982i	1985	09	16.11134	06	12	42.15	+19	36	59.3		5	090
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/1982i	1985	09	20.73175	06	13	02.43	+19	43	06.7		381
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/1982i	1985	09	23.03583	06	12	59.42	+19	46	29.4			095
/1982i	1985	09	23.03757	06	12	59.53	+19	46	30.8			095
/1982i	1985	09	23.04389	06	12	59.45	+19	46	29.9			095
/1982i	1985	09	23.04895	06	12	59.50	+19	46	30.2			069
/1982i	1985	09	23.06289	06	12	59.43	+19	46	33.6			114
/1982i	1985	09	23.06775	06	12	59.40	+19	46	34.7			114
/1982i	1985	09	23.07082	06	12	59.42	+19	46	33.4			069
/1982i	1985	09	23.09125	06	12	59.32	+19	46	35.1			086
/1982i	1985	09	23.09167	06	12	59.32	+19	46	34.8			046
/1982i	1985	09	23.09653	06	12	59.40	+19	46	34.5			046
/1982i	1985	09	23.12882	06	12	59.25	+19	46	39.4			046
/1982i	1985	09	23.13194	06	12	59.18	+19	46	38.0			046
/1982i	1985	09	23.15903	06	12	59.01	+19	46	40.9			006
/1982i	1985	09	23.85833	06	12	56.21	+19	47	53.7			323
/1982i	1985	09	23.86846	06	12	56.36	+19	47	46.1			168
/1982i	1985	09	23.91189	06	12	56.09	+19	47	52.5			190
/1982i	1985	09	23.91707	06	12	55.82	+19	47	52.8			168
/1982i	1985	09	23.98056	06	12	55.66	+19	47	59.8			188
/1982i	1985	09	23.99704	06	12	55.59	+19	48	00.4			071
/1982i	1985	09	24.05524	06	12	55.32	+19	48	05.6			083
/1982i	1985	09	24.05526	06	12	55.26	+19	48	06.0			083
/1982i	1985	09	24.08941	06	12	55.27	+19	48	09.4			086
/1982i	1985	09	24.11667	06	12	54.96	+19	48	10.4			006
/1982i	1985	09	24.80146	06	12	50.96	+19	49	18.2		14 T	330

/1982i	1985	09	24.80843	06	12	50.91	+19	49	18.3	334
/1982i	1985	09	24.95139	06	12	49.94	+19	49	33.4	188
/1982i	1985	09	24.96284	06	12	49.90	+19	49	34.5	190
/1982i	1985	09	24.99316	06	12	49.62	+19	49	37.8	186
/1982i	1985	09	25.00090	06	12	49.56	+19	49	38.0	186
/1982i	1985	09	25.01340	06	12	49.48	+19	49	39.2	119
/1982i	1985	09	25.01775	06	12	49.37	+19	49	39.1	186
/1982i	1985	09	25.03698	06	12	49.35	+19	49	41.4	095
/1982i	1985	09	25.03698	06	12	49.27	+19	49	42.6	095
/1982i	1985	09	25.04667	06	12	49.27	+19	49	42.2	119
/1982i	1985	09	25.05623	06	12	49.36	+19	49	41.8	069
/1982i	1985	09	25.07394	06	12	49.07	+19	49	43.8	069
/1982i	1985	09	25.08921	06	12	49.03	+19	49	46.1	069
/1982i	1985	09	25.12436	06	12	48.76	+19	49	48.7	046
/1982i	1985	09	25.12737	06	12	48.71	+19	49	47.7	046
/1982i	1985	09	25.14115	06	12	48.57	+19	49	50.3	046
/1982i	1985	09	25.14404	06	12	48.54	+19	49	50.8	046
/1982i	1985	09	25.45736	06	12	46.16	+19	50	21.6	657
/1982i	1985	09	25.79722	06	12	43.35	+19	50	57.8	13.5T 391
/1982i	1985	09	25.80451	06	12	43.32	+19	50	58.8	391
/1982i	1985	09	25.81877	06	12	43.18	+19	50	58.8	334
/1982i	1985	09	25.84965	06	12	42.91	+19	51	07.7	323
/1982i	1985	09	25.93641	06	12	42.19	+19	51	11.2	186
/1982i	1985	09	25.97597	06	12	41.82	+19	51	15.8	188
/1982i	1985	09	25.97798	06	12	41.82	+19	51	15.9	186
/1982i	1985	09	25.99389	06	12	41.67	+19	51	17.4	186
/1982i	1985	09	26.00514	06	12	41.52	+19	51	18.6	186
/1982i	1985	09	26.03819	06	12	41.33	+19	51	22.8	095
/1982i	1985	09	26.04867	06	12	41.16	+19	51	22.6	095
/1982i	1985	09	26.71042	06	12	34.84	+19	52	33.5	391
/1982i	1985	09	26.75208	06	12	34.25	+19	52	37.0	391
/1982i	1985	09	26.97661	06	12	31.82	+19	52	59.8	186
/1982i	1985	09	26.97918	06	12	31.75	+19	52	58.6	190
/1982i	1985	09	26.98319	06	12	31.64	+19	53	00.1	186
/1982i	1985	09	26.99219	06	12	31.62	+19	53	00.2	186
/1982i	1985	09	27.00347	06	12	31.52	+19	53	01.0	13.4T 063
/1982i	1985	09	27.02500	06	12	31.31	+19	53	02.0	063
/1982i	1985	09	27.08998	06	12	30.50	+19	53	10.6	086
/1982i	1985	09	27.09123	06	12	30.56	+19	53	11.0	555
/1982i	1985	09	27.09409	06	12	30.51	+19	53	11.5	061
/1982i	1985	09	27.10521	06	12	30.31	+19	53	11.9	061
/1982i	1985	09	27.11458	06	12	30.35	+19	53	13.2	069
/1982i	1985	09	27.11921	06	12	30.25	+19	53	12.7	046
/1982i	1985	09	27.12153	06	12	30.15	+19	53	13.6	061
/1982i	1985	09	27.12228	06	12	30.25	+19	53	13.0	046
/1982i	1985	09	27.14068	06	12	29.87	+19	53	14.6	046
/1982i	1985	09	27.14369	06	12	29.81	+19	53	15.0	046
/1982i	1985	09	27.98356	06	12	19.60	+19	54	47.4	186
/1982i	1985	09	28.49410	06	12	12.46	+19	55	41.5	657
/1982i	1985	09	28.97685	06	12	05.34	+19	56	38.1	186
/1982i	1985	09	29.49444	06	11	56.88	+19	57	35.0	657
/1982i	1985	09	30.00015	06	11	48.03	+19	58	34.4	186
/1982i	1985	09	30.00027	06	11	48.00	+19	58	34.3	186
/1982i	1985	09	30.98748	06	11	29.00	+20	00	32.1	186
/1982i	1985	10	01.03621	06	11	28.08	+20	00	38.5	114
/1982i	1985	10	01.05183	06	11	27.71	+20	00	38.8	114
/1982i	1985	10	01.73507	06	11	13.03	+20	02	04.7	391
/1982i	1985	10	01.74653	06	11	12.72	+20	02	06.0	391
/1982i	1985	10	01.75382	06	11	12.54	+20	02	07.4	391

/1982i	1985	10	01.76597	06	11	12.29	+20	02	08.0			391
/1982i	1985	10	01.77465	06	11	12.03	+20	02	09.0			391
/1982i	1985	10	01.80444	06	11	11.32	+20	02	09.5			334
/1982i	1985	10	01.98371	06	11	07.28	+20	02	35.2			186
/1982i	1985	10	02.01770	06	11	06.45	+20	02	37.6			114
/1982i	1985	10	02.06060	06	11	05.47	+20	02	43.5			555
/1982i	1985	10	02.08266	06	11	04.95	+20	02	47.6			555
/1982i	1985	10	03.09016	06	10	39.76	+20	04	56.7			086
/1982i	1985	10	03.66666	06	10	24.31	+20	06	10.2	13.2	T	391
/1982i	1985	10	03.67361	06	10	24.10	+20	06	13.4			391
/1982i	1985	10	03.68750	06	10	23.63	+20	06	15.3			391
/1982i	1985	10	03.70833	06	10	23.27	+20	06	17.4			391
/1982i	1985	10	03.71528	06	10	22.86	+20	06	19.5			391
/1982i	1985	10	03.72917	06	10	22.59	+20	06	21.9			391
/1982i	1985	10	03.80429	06	10	20.50	+20	06	32.4			334
/1982i	1985	10	04.03818	06	10	13.53	+20	07	01.3			086
/1982i	1985	10	04.06736	06	10	12.82	+20	07	06.6			086
/1982i	1985	10	05.16149	06	09	39.05	+20	09	37.9		9	501
/1982i	1985	10	06.80759	06	08	41.14	+20	13	38.2			334
/1982i	1985	10	08.44451	06	07	34.19	+20	17	48.6			657
/1982i	1985	10	08.72847	06	07	21.68	+20	18	35.7	12	T	330
/1982i	1985	10	08.75833	06	07	20.35	+20	18	40.5			330
/1982i	1985	10	09.86985	06	06	27.92	+20	21	41.2			168
/1982i	1985	10	09.95156	06	06	23.98	+20	21	51.8			482
/1982i	1985	10	10.01221	06	06	20.95	+20	22	04.8			168
/1982i	1985	10	10.84094	06	05	37.97	+20	24	26.3			186
/1982i	1985	10	10.84718	06	05	37.66	+20	24	27.8			186
/1982i	1985	10	11.05164	06	05	26.50	+20	25	03.7			069
/1982i	1985	10	11.10833	06	05	23.44	+20	25	12.2			046
/1982i	1985	10	11.10903	06	05	23.40	+20	25	12.8			046
/1982i	1985	10	11.15000	06	05	21.03	+20	25	19.4			046
/1982i	1985	10	11.15174	06	05	20.95	+20	25	20.2			046
/1982i	1985	10	12.15682	06	04	23.76	+20	28	21.0			509
/1982i	1985	10	12.17764	06	04	22.46	+20	28	26.2			509
/1982i	1985	10	12.43889	06	04	06.87	+20	29	12.2			707
/1982i	1985	10	12.45243	06	04	06.09	+20	29	13.9			707
/1982i	1985	10	13.10243	06	03	25.81	+20	31	13.6			069
/1982i	1985	10	13.10759	06	03	25.44	+20	31	17.1			086
/1982i	1985	10	13.13767	06	03	23.42	+20	31	21.4			061
/1982i	1985	10	13.29041	06	03	13.89	+20	31	56.8			808
/1982i	1985	10	13.32157	06	03	11.76	+20	32	02.6			808
/1982i	1985	10	13.35066	06	03	09.82	+20	32	08.3			808
/1982i	1985	10	14.05069	06	02	23.15	+20	34	15.1			095
/1982i	1985	10	14.05833	06	02	22.68	+20	34	17.6			095
/1982i	1985	10	14.85636	06	01	26.76	+20	36	53.2			186
/1982i	1985	10	14.86605	06	01	25.96	+20	36	56.0			186
/1982i	1985	10	14.87471	06	01	25.26	+20	36	57.5			186
/1982i	1985	10	14.88302	06	01	24.80	+20	36	59.5			186
/1982i	1985	10	14.94813	06	01	19.97	+20	37	12.7			114
/1982i	1985	10	14.95757	06	01	19.30	+20	37	12.6			086
/1982i	1985	10	14.96363	06	01	18.87	+20	37	14.6			114
/1982i	1985	10	14.97468	06	01	17.98	+20	37	17.5			114
/1982i	1985	10	14.99534	06	01	16.46	+20	37	22.0			114
/1982i	1985	10	15.05811	06	01	11.93	+20	37	34.9			086
/1982i	1985	10	15.29880	06	00	54.12	+20	38	29.1			808
/1982i	1985	10	15.67743	06	00	25.38	+20	39	41.7			391
/1982i	1985	10	15.70243	06	00	23.46	+20	39	45.4			391
/1982i	1985	10	15.72257	06	00	21.85	+20	39	50.8			391
/1982i	1985	10	16.86750	05	58	49.78	+20	43	48.7			186

/1982i	1985	10	16.87928	05	58	48.85	+20	43	51.2		186
/1982i	1985	10	17.10109	05	58	30.03	+20	44	36.3		069
/1982i	1985	10	17.10897	05	58	29.31	+20	44	38.4		069
/1982i	1985	10	17.11568	05	58	28.73	+20	44	39.5		069
/1982i	1985	10	17.69965	05	57	38.18	+20	46	48.6		391
/1982i	1985	10	17.72188	05	57	36.33	+20	46	53.8		391
/1982i	1985	10	17.74201	05	57	34.39	+20	46	58.1		391
/1982i	1985	10	17.89074	05	57	21.19	+20	47	26.4		056
/1982i	1985	10	17.94282	05	57	16.18	+20	47	39.8		056
/1982i	1985	10	17.98368	05	57	12.64	+20	47	48.5		056
/1982i	1985	10	18.02396	05	57	09.03	+20	47	57.3		056
/1982i	1985	10	18.05903	05	57	05.85	+20	48	05.7		046
/1982i	1985	10	18.06076	05	57	05.70	+20	48	06.3		046
/1982i	1985	10	18.06424	05	57	05.65	+20	48	06.1		056
/1982i	1985	10	18.07615	05	57	04.20	+20	48	09.8		105
/1982i	1985	10	18.70035	05	56	06.29	+20	50	31.4		391
/1982i	1985	10	18.72708	05	56	03.80	+20	50	37.3		391
/1982i	1985	10	18.74618	05	56	01.94	+20	50	40.9		391
/1982i	1985	10	18.81419	05	55	55.44	+20	50	56.0		334
/1982i	1985	10	18.95347	05	55	41.86	+20	51	28.8		186
/1982i	1985	10	19.06415	05	55	31.07	+20	51	52.5		114
/1982i	1985	10	19.07255	05	55	30.22	+20	51	54.5		114
/1982i	1985	10	19.08916	05	55	28.56	+20	51	58.9		114
/1982i	1985	10	19.74995	05	54	22.77	+20	54	40.3		413
/1982i	1985	10	19.80254	05	54	17.54	+20	54	42.5		186
/1982i	1985	10	19.80323	05	54	17.49	+20	54	43.6		186
/1982i	1985	10	19.90451	05	54	06.99	+20	55	04.5		056
/1982i	1985	10	19.96181	05	54	01.06	+20	55	19.4		056
/1982i	1985	10	20.00417	05	53	56.75	+20	55	27.0		056
/1982i	1985	10	20.14231	05	53	42.20	+20	56	00.7	10.7T	503
/1982i	1985	10	20.67222	05	52	45.89	+20	58	09.1		391
/1982i	1985	10	20.69236	05	52	43.70	+20	58	13.4		391
/1982i	1985	10	20.70833	05	52	41.88	+20	58	17.6		391
/1982i	1985	10	20.84968	05	52	26.37	+20	58	50.1		186
/1982i	1985	10	20.85591	05	52	25.67	+20	58	52.1		186
/1982i	1985	10	20.86283	05	52	24.95	+20	58	53.1		186
/1982i	1985	10	20.89410	05	52	21.60	+20	58	58.1		056
/1982i	1985	10	20.95556	05	52	14.39	+20	59	16.1		056
/1982i	1985	10	21.00243	05	52	09.52	+20	59	26.6		494
/1982i	1985	10	21.01207	05	52	08.41	+20	59	28.1		046
/1982i	1985	10	21.01250	05	52	08.33	+20	59	28.7		494
/1982i	1985	10	21.01375	05	52	08.16	+20	59	28.0		046
/1982i	1985	10	21.02361	05	52	07.39	+20	59	29.6		056
/1982i	1985	10	21.02388	05	52	07.03	+20	59	31.2		046
/1982i	1985	10	21.02509	05	52	06.96	+20	59	31.4		046
/1982i	1985	10	21.04061	05	52	05.12	+20	59	35.0		069
/1982i	1985	10	21.04306	05	52	04.96	+20	59	36.3		576
/1982i	1985	10	21.04548	05	52	04.71	+20	59	36.8		494
/1982i	1985	10	21.08056	05	52	00.46	+20	59	45.1		056
/1982i	1985	10	21.14687	05	51	53.34	+21	00	01.5		056
/1982i	1985	10	21.85909	05	50	31.14	+21	02	57.4		334
/1982i	1985	10	21.89306	05	50	27.51	+21	03	02.6		056
/1982i	1985	10	21.90991	05	50	25.52	+21	03	08.9		114
/1982i	1985	10	21.92318	05	50	23.94	+21	03	10.9		114
/1982i	1985	10	21.96354	05	50	19.09	+21	03	21.9		114
/1982i	1985	10	21.97083	05	50	18.03	+21	03	24.0		056
/1982i	1985	10	22.03125	05	50	11.04	+21	03	38.2		056
/1982i	1985	10	22.04841	05	50	09.05	+21	03	41.6		046
/1982i	1985	10	22.04980	05	50	08.86	+21	03	42.9		046

/1982i	1985	10	22.05779	05	50	07.88	+21	03	45.3	046
/1982i	1985	10	22.05918	05	50	07.72	+21	03	44.4	046
/1982i	1985	10	22.09375	05	50	03.80	+21	03	52.4	056
/1982i	1985	10	22.67396	05	48	52.94	+21	06	20.9	391
/1982i	1985	10	22.68715	05	48	51.22	+21	06	22.1	391
/1982i	1985	10	22.71632	05	48	47.45	+21	06	31.2	391
/1982i	1985	10	22.81285	05	48	35.36	+21	06	54.5	334
/1982i	1985	10	23.73530	05	46	36.25	+21	10	51.2	391
/1982i	1985	10	23.75382	05	46	33.54	+21	10	56.8	391
/1982i	1985	10	24.73160	05	44	19.02	+21	15	10.1	391
/1982i	1985	10	24.75243	05	44	15.89	+21	15	15.2	391
/1982i	1985	10	24.77240	05	44	13.12	+21	15	21.4	391
/1982i	1985	10	25.74826	05	41	49.27	+21	19	41.2	391
/1982i	1985	10	25.76169	05	41	47.19	+21	19	44.0	391

Comet Cernis (1983 XII)

/1983 XII	1985	05	23.77168	21	41	35.10	-66	43	21.9	474
/1983 XII	1985	05	24.76116	21	40	45.22	-66	52	45.2	474
/1983 XII	1985	08	15.50391	18	43	05.33	-71	52	21.3	474
/1983 XII	1985	08	15.54818	18	42	59.99	-71	52	08.2	474
/1983 XII	1985	08	15.66007	18	42	47.60	-71	51	36.6	323

Comet Shoemaker (1983 XV)

/1983 XV	1985	05	23.59448	19	03	25.19	-70	28	31.7	474
/1983 XV	1985	05	23.63753	19	03	18.36	-70	28	51.5	474

Periodic Comet Giacobini-Zinner

/1984e	1985	06	22.31389	21	40	51.84	+44	30	43.9	293
/1984e	1985	06	22.32014	21	40	52.73	+44	30	54.5	293
/1984e	1985	06	22.32708	21	40	53.96	+44	31	09.0	293
/1984e	1985	06	24.94846	21	48	37.59	+45	55	20.8	022
/1984e	1985	06	24.97477	21	48	42.50	+45	56	15.6	022
/1984e	1985	07	21.94434	23	52	04.80	+58	13	03.2	022
/1984e	1985	07	21.96649	23	52	13.96	+58	13	31.2	022
/1984e	1985	07	21.97446	23	52	16.79	+58	13	39.4	022
/1984e	1985	07	24.93892	00	13	09.45	+58	59	02.1	022
/1984e	1985	07	24.95594	00	13	16.89	+58	59	13.6	022
/1984e	1985	08	02.94757	01	26	21.26	+59	39	37.5	006
/1984e	1985	08	02.97361	01	26	35.82	+59	39	27.0	006
/1984e	1985	08	08.94861	02	19	50.14	+58	18	52.5	006
/1984e	1985	08	08.98194	02	20	07.65	+58	18	10.9	006
/1984e	1985	08	19.63472	03	49	07.87	+51	36	30.4	397
/1984e	1985	08	19.66389	03	49	20.91	+51	34	59.0	397
/1984e	1985	08	20.99471	03	59	09.42	+50	21	48.7	022
/1984e	1985	09	05.02639	05	26	50.80	+32	14	35.3	022
/1984e	1985	09	05.02917	05	26	51.43	+32	14	25.0	022
/1984e	1985	09	05.03264	05	26	52.11	+32	14	07.6	022
/1984e	1985	09	06.12986	05	31	47.39	+30	42	40.7	006
/1984e	1985	09	06.17847	05	32	00.48	+30	38	39.9	006
/1984e	1985	09	07.09549	05	35	59.35	+29	21	41.9	022
/1984e	1985	09	10.04201	05	48	02.13	+25	12	53.9	567
/1984e	1985	09	10.04618	05	48	03.27	+25	12	33.3	567
/1984e	1985	09	10.13333	05	48	23.30	+25	05	12.6	006
/1984e	1985	09	10.15139	05	48	27.77	+25	03	42.1	006
/1984e	1985	09	10.18611	05	48	35.61	+25	00	48.2	006
/1984e	1985	09	11.00241	05	51	43.86	+23	51	35.7	482
/1984e	1985	09	11.03654	05	51	51.67	+23	48	46.6	046
/1984e	1985	09	11.03752	05	51	51.87	+23	48	41.2	046
/1984e	1985	09	11.05382	05	51	55.72	+23	47	19.6	562

/1984e	1985	09	11.06563	05	51	58.28	+23	46	20.2		562
/1984e	1985	09	11.07396	05	52	00.25	+23	45	38.8	A	022
/1984e	1985	09	11.07587	05	52	00.70	+23	45	29.8	B	022
/1984e	1985	09	11.13056	05	52	12.94	+23	40	53.9		006
/1984e	1985	09	11.14306	05	52	15.58	+23	39	50.6		006
/1984e	1985	09	11.14722	05	52	16.62	+23	39	28.3		006
/1984e	1985	09	11.15972	05	52	19.56	+23	38	24.2		006
/1984e	1985	09	11.17361	05	52	22.53	+23	37	16.3		006
/1984e	1985	09	11.18333	05	52	24.68	+23	36	27.7		006
/1984e	1985	09	11.18750	05	52	25.50	+23	36	06.7		006
/1984e	1985	09	11.19167	05	52	26.33	+23	35	47.1		006
/1984e	1985	09	11.68715	05	54	18.09	+22	53	52.5	9.0T	397
/1984e	1985	09	11.70799	05	54	22.60	+22	52	07.5		397
/1984e	1985	09	11.78854	05	54	40.68	+22	45	35.2		323
/1984e	1985	09	11.80417	05	54	44.23	+22	44	20.4		323
/1984e	1985	09	12.07500	05	55	43.92	+22	21	10.4	B	022
/1984e	1985	09	12.07778	05	55	44.56	+22	20	55.5	B	022
/1984e	1985	09	12.09140	05	55	47.28	+22	19	46.0		046
/1984e	1985	09	12.09308	05	55	47.77	+22	19	37.3		046
/1984e	1985	09	12.13194	05	55	56.62	+22	16	24.2		006
/1984e	1985	09	12.15000	05	56	00.63	+22	14	52.1		006
/1984e	1985	09	12.15625	05	56	01.90	+22	14	20.5		006
/1984e	1985	09	12.34911	05	56	43.98	+21	58	06.7		801
/1984e	1985	09	12.35510	05	56	45.20	+21	57	35.7		801
/1984e	1985	09	13.04375	05	59	13.86	+20	59	38.4		063
/1984e	1985	09	13.06042	05	59	17.68	+20	58	14.6		022
/1984e	1985	09	13.13104	05	59	32.36	+20	52	21.8		046
/1984e	1985	09	13.13197	05	59	32.60	+20	52	16.7		046
/1984e	1985	09	13.13958	05	59	34.09	+20	51	43.2		006
/1984e	1985	09	13.16736	05	59	39.90	+20	49	22.7		006
/1984e	1985	09	13.17986	05	59	42.64	+20	48	20.9		006
/1984e	1985	09	13.18819	05	59	44.26	+20	47	40.8		006
/1984e	1985	09	13.19167	05	59	44.96	+20	47	20.9		006
/1984e	1985	09	13.33193	06	00	15.38	+20	35	32.2		801
/1984e	1985	09	13.33653	06	00	16.31	+20	35	09.0		801
/1984e	1985	09	13.75267	06	01	43.65	+20	00	23.3	C	381
/1984e	1985	09	13.76652	06	01	47.28	+19	59	04.9	C	381
/1984e	1985	09	14.01076	06	02	37.56	+19	38	39.0		063
/1984e	1985	09	14.02002	06	02	39.60	+19	37	56.5		056
/1984e	1985	09	14.02083	06	02	39.57	+19	37	48.8		063
/1984e	1985	09	14.07326	06	02	50.54	+19	33	28.3		056
/1984e	1985	09	14.12361	06	03	00.79	+19	29	17.2		046
/1984e	1985	09	14.12465	06	03	01.01	+19	29	12.5		046
/1984e	1985	09	14.38681	06	03	55.10	+19	07	24.5		788
/1984e	1985	09	14.69653	06	04	58.66	+18	41	32.9	9.5T	397
/1984e	1985	09	14.70972	06	05	01.19	+18	40	28.8		397
/1984e	1985	09	14.97222	06	05	54.79	+18	18	38.9		071
/1984e	1985	09	15.04271	06	06	08.51	+18	12	49.0		056
/1984e	1985	09	15.09340	06	06	18.72	+18	08	34.9		056
/1984e	1985	09	15.09931	06	06	19.89	+18	08	06.3		022
/1984e	1985	09	15.13023	06	06	25.88	+18	05	35.3		046
/1984e	1985	09	15.13197	06	06	26.26	+18	05	25.9		046
/1984e	1985	09	15.26530	06	06	53.44	+17	54	21.6		801
/1984e	1985	09	15.26869	06	06	54.08	+17	54	04.7		801
/1984e	1985	09	16.00729	06	09	20.03	+16	53	05.1		056
/1984e	1985	09	16.04340	06	09	27.00	+16	50	08.3		056
/1984e	1985	09	17.04722	06	12	39.79	+15	27	55.4		063
/1984e	1985	09	17.06250	06	12	42.62	+15	26	41.6		063

/1984e	1985	09	17.14306	06	12	57.80	+15	20	07.5			006
/1984e	1985	09	17.15833	06	13	00.82	+15	18	54.6			006
/1984e	1985	09	17.17431	06	13	03.84	+15	17	36.4			006
/1984e	1985	09	17.18681	06	13	06.16	+15	16	38.2			006
/1984e	1985	09	17.35089	06	13	37.23	+15	03	16.6			801
/1984e	1985	09	17.35321	06	13	37.74	+15	03	05.9			801
/1984e	1985	09	18.10743	06	15	57.62	+14	02	03.3			071
/1984e	1985	09	18.16111	06	16	07.22	+13	57	44.0			571
/1984e	1985	09	18.45979	06	17	02.04	+13	33	40.2			657
/1984e	1985	09	18.79583	06	18	02.98	+13	07	05.1			323
/1984e	1985	09	19.01273	06	18	41.81	+12	49	23.5			056
/1984e	1985	09	19.02363	06	18	43.64	+12	48	31.8			555
/1984e	1985	09	19.06603	06	18	51.12	+12	45	09.1			056
/1984e	1985	09	19.12189	06	19	00.95	+12	40	43.4			046
/1984e	1985	09	19.12328	06	19	01.18	+12	40	35.2			046
/1984e	1985	09	19.12366	06	19	01.22	+12	40	35.5			555
/1984e	1985	09	19.39817	06	19	50.31	+12	18	42.3			657
/1984e	1985	09	19.98090	06	21	32.43	+11	32	41.6			056
/1984e	1985	09	20.01215	06	21	37.75	+11	30	09.4			056
/1984e	1985	09	20.01311	06	21	37.93	+11	30	06.2			555
/1984e	1985	09	20.05289	06	21	44.76	+11	26	59.6			071
/1984e	1985	09	20.11972	06	21	55.91	+11	21	45.8			555
/1984e	1985	09	20.13444	06	21	58.65	+11	20	34.2			046
/1984e	1985	09	20.13543	06	21	58.81	+11	20	27.6			046
/1984e	1985	09	20.99424	06	24	25.77	+10	13	21.4			056
/1984e	1985	09	21.09612	06	24	42.53	+10	05	25.8			071
/1984e	1985	09	21.11302	06	24	45.19	+10	04	07.2			555
/1984e	1985	09	21.11359	06	24	45.35	+10	03	59.2			046
/1984e	1985	09	21.11451	06	24	45.66	+10	03	57.6			046
/1984e	1985	09	21.12245	06	24	46.61	+10	03	21.7			555
/1984e	1985	09	22.01559	06	27	15.26	+08	54	28.4			071
/1984e	1985	09	22.42431	06	28	21.51	+08	23	15.5			657
/1984e	1985	09	23.09176	06	30	08.14	+07	32	42.0			071
/1984e	1985	09	23.11667	06	30	11.94	+07	30	48.2			046
/1984e	1985	09	23.11840	06	30	12.15	+07	30	40.8			046
/1984e	1985	09	23.81944	06	32	02.33	+06	38	30.8			323
/1984e	1985	09	24.05492	06	32	38.58	+06	20	41.2			071
/1984e	1985	09	24.84104	06	34	38.06	+05	22	45.4	9	T	330
/1984e	1985	09	25.13414	06	35	21.83	+05	01	12.7			046
/1984e	1985	09	25.13513	06	35	21.94	+05	01	08.3			046
/1984e	1985	09	25.44486	06	36	08.18	+04	38	36.9			657
/1984e	1985	09	25.80486	06	37	01.21	+04	12	56.7			323
/1984e	1985	09	25.86116	06	37	09.15	+04	08	35.3	9	T	330
/1984e	1985	09	25.86914	06	37	10.23	+04	08	00.9			330
/1984e	1985	09	26.13485	06	37	48.83	+03	49	15.5			051
/1984e	1985	09	26.14326	06	37	49.82	+03	48	39.7			051
/1984e	1985	09	27.11725	06	40	08.90	+02	39	04.1			555
/1984e	1985	09	27.12836	06	40	10.27	+02	38	20.2			555
/1984e	1985	09	27.13102	06	40	10.66	+02	38	06.4			046
/1984e	1985	09	27.13270	06	40	10.89	+02	37	59.8			046
/1984e	1985	09	27.15185	06	40	13.58	+02	36	37.7			046
/1984e	1985	09	27.15353	06	40	13.70	+02	36	32.4			046
/1984e	1985	09	28.50312	06	43	19.51	+01	02	44.4			657
/1984e	1985	10	08.46257	07	02	27.87	-09	17	21.6			657

Comet Shoemaker (1984f)

/1984f	1985	05	24.47296	12	33	23.08	-37	06	27.3			474
/1984f	1985	05	24.47667	12	33	22.44	-37	06	25.8			474

Comet Shoemaker (1984r)

/1984r	1985	09	20.40726	01	15	39.30	+07	20	24.4	17.9N	D	691
/1984r	1985	09	20.42376	01	15	37.93	+07	20	17.9			691
/1984r	1985	09	20.43825	01	15	37.36	+07	20	12.9			691
/1984r	1985	09	21.39148	01	14	38.06	+07	14	05.9			691
/1984r	1985	09	21.40753	01	14	37.05	+07	13	59.9			691
/1984r	1985	09	21.42234	01	14	36.09	+07	13	54.3			691

Periodic Comet Ashbrook-Jackson

/1985a	1985	08	05.57604	19	39	00.38	-39	26	56.1			323
/1985a	1985	08	07.57882	19	37	22.80	-39	20	15.0			323
/1985a	1985	08	08.60799	19	36	34.65	-39	16	29.7			323
/1985a	1985	08	13.63021	19	33	00.67	-38	55	16.3			323
/1985a	1985	08	14.62088	19	32	22.61	-38	50	29.0			474
/1985a	1985	08	14.63813	19	32	21.96	-38	50	24.1			474
/1985a	1985	08	14.70382	19	32	19.79	-38	50	07.0			323
/1985a	1985	08	16.64861	19	31	10.71	-38	40	18.8			323
/1985a	1985	09	05.55069	19	26	12.12	-36	29	59.3			323

Periodic Comet Hartley

/1985f	1985	08	14.32354	13	46	01.25	-25	08	18.6			474
/1985f	1985	08	14.36674	13	46	07.35	-25	09	16.6			474

Periodic Comet Giclas

/1985g	1985	09	12.33185	03	11	21.52	+05	11	01.8			801
/1985g	1985	09	14.37847	03	13	25.35	+05	08	56.9			707
/1985g	1985	09	17.38015	03	16	13.03	+05	05	01.5			801

Periodic Comet Whipple

/1985h	1985	09	17.12480	21	23	14.57	-07	49	08.2			801
/1985h	1985	09	20.21133	21	22	15.87	-08	04	46.6	18.7T		691
/1985h	1985	09	20.22056	21	22	15.64	-08	04	49.6			691
/1985h	1985	09	20.24050	21	22	15.29	-08	04	56.5			691

Periodic Comet Maury

/1985k	1985	08	23.30312	21	47	12.91	-02	34	46.1	16 T	E	675
/1985k	1985	08	23.35521	21	47	11.63	-02	35	12.2		E	675
/1985k	1985	09	13.20613	21	41	42.74	-05	51	49.1			801
/1985k	1985	09	13.30000	21	41	42.28	-05	52	41.8	16 T		675
/1985k	1985	09	13.34167	21	41	42.00	-05	52	59.8			675
/1985k	1985	09	14.19583	21	41	39.27	-06	00	21.1			293
/1985k	1985	09	14.21597	21	41	39.05	-06	00	35.0	16.8T		688
/1985k	1985	09	14.21806	21	41	38.89	-06	00	33.1			293
/1985k	1985	09	14.31875	21	41	38.44	-06	01	28.6			688
/1985k	1985	09	15.09826	21	41	36.54	-06	08	05.4			801
/1985k	1985	09	17.07593	21	41	35.27	-06	24	35.9			801
/1985k	1985	09	18.06021	21	41	36.56	-06	32	35.4			801
/1985k	1985	09	20.14810	21	41	44.23	-06	49	02.5	17.5N		691
/1985k	1985	09	20.19649	21	41	44.35	-06	49	24.0			691
/1985k	1985	09	20.20674	21	41	44.39	-06	49	29.7			691
/1985k	1985	09	21.14679	21	41	49.95	-06	56	39.3			691
/1985k	1985	09	21.17308	21	41	50.07	-06	56	51.3			691

Comet Hartley-Good (1985l)

/1985l	1985	09	13.58698	01	03	38.74	-27	42	49.4			413
/1985l	1985	09	14.29931	01	00	16.92	-27	47	04.0			293
/1985l	1985	09	14.30833	01	00	14.26	-27	47	07.0			293
/1985l	1985	09	14.37708	00	59	54.50	-27	47	33.4			675
/1985l	1985	09	16.64583	00	48	12.91	-27	57	35.4	11 T		392

/1985l	1985	09	17.22195	00	45	00.09	-27	59	18.3				801
/1985l	1985	09	17.23878	00	44	54.35	-27	59	21.4				801
/1985l	1985	09	17.68083	00	42	21.54	-28	00	07.8		13	N	474
/1985l	1985	09	17.68963	00	42	18.51	-28	00	09.0				474
/1985l	1985	09	18.67193	00	36	26.62	-28	01	33.4				474
/1985l	1985	09	18.67431	00	36	26.14	-28	01	38.1				323
/1985l	1985	09	18.67813	00	36	24.31	-28	01	32.7				474
/1985l	1985	09	19.71424	00	29	52.5	-28	01	46				372
/1985l	1985	09	19.72153	00	29	49.65	-28	01	46.5		11	T	372
/1985l	1985	09	20.44167	00	25	05.26	-28	00	25.7				474
/1985l	1985	09	20.44693	00	25	02.95	-28	00	26.3				474
/1985l	1985	09	20.65417	00	23	38.43	-28	00	12.0				391
/1985l	1985	09	20.66137	00	23	35.68	-28	00	12.5		11	T	893
/1985l	1985	09	20.67917	00	23	28.33	-28	00	11.2				372
/1985l	1985	09	23.78889	00	00	40.96	-27	41	22.9				323
/1985l	1985	09	25.77292	23	44	27.69	-27	16	33.5				323
/1985l	1985	10	01.58611	22	50	32.59	-24	46	26.4		12	T	391
/1985l	1985	10	01.59722	22	50	26.09	-24	46	08.0				391
/1985l	1985	10	03.26771	22	33	45.91	-23	38	32.8			F	657
/1985l	1985	10	03.50938	22	31	19.80	-23	27	49.9		12	T	391
/1985l	1985	10	03.53021	22	31	07.43	-23	26	49.2				391
/1985l	1985	10	04.27422	22	23	37.17	-22	52	30.1				657
/1985l	1985	10	05.28299	22	13	26.39	-22	02	33.7				657
/1985l	1985	10	07.75858	21	48	43.00	-19	45	19.1				051
/1985l	1985	10	08.27750	21	43	36.63	-19	14	41.6				657
/1985l	1985	10	12.23160	21	06	35.22	-15	01	37.2				657
/1985l	1985	10	13.82674	20	52	47.20	-13	14	58.0				494
/1985l	1985	10	13.84375	20	52	38.52	-13	13	49.3				494
/1985l	1985	10	13.84792	20	52	36.73	-13	13	32.7				984
/1985l	1985	10	14.83403	20	44	27.78	-12	07	26.2				984
/1985l	1985	10	18.84662	20	14	22.18	-07	44	38.8				978
/1985l	1985	10	19.53090	20	09	43.60	-07	01	38.6		7	T	372

Comet Thiele (1985m)

/1985m	1985	10	09.19444	05	55	18.39	+21	14	46.7		13	T	493
/1985m	1985	10	09.22083	05	55	14.46	+21	15	36.6				493
/1985m	1985	10	10.16528	05	52	50.87	+21	45	44.4				493
/1985m	1985	10	10.22222	05	52	41.76	+21	47	34.8				493
/1985m	1985	10	12.33056	05	46	34.53	+23	00	45.9				293
/1985m	1985	10	12.33542	05	46	33.64	+23	00	56.2				293
/1985m	1985	10	13.66244	05	42	05.13	+23	51	19.3		13	T	392
/1985m	1985	10	13.67361	05	42	03.42	+23	51	47.9				397
/1985m	1985	10	14.74865	05	38	01.31	+24	35	32.2				893
/1985m	1985	10	14.75727	05	37	59.79	+24	35	48.5				893
/1985m	1985	10	15.30903	05	35	46.20	+24	59	14.4		12.5	T	688
/1985m	1985	10	15.32361	05	35	42.50	+24	59	53.1				688
/1985m	1985	10	15.66638	05	34	16.06	+25	14	46.8				391
/1985m	1985	10	15.71354	05	34	04.23	+25	16	54.7				391
/1985m	1985	10	16.25640	05	31	40.84	+25	41	05.4				801
/1985m	1985	10	16.26575	05	31	38.32	+25	41	31.6				801
/1985m	1985	10	17.68229	05	24	49.67	+26	48	05.9				391
/1985m	1985	10	18.67431	05	19	30.06	+27	37	42.2				391
/1985m	1985	10	18.69028	05	19	24.34	+27	38	30.5				391
/1985m	1985	10	18.73785	05	19	08.14	+27	41	00.0				391
/1985m	1985	10	19.61597	05	13	58.20	+28	27	00.7		12.5	T	372
/1985m	1985	10	20.66250	05	07	12.43	+29	24	24.5				391
/1985m	1985	10	20.70069	05	06	56.40	+29	26	33.7				391
/1985m	1985	10	22.64340	04	52	24.07	+31	20	04.3				391
/1985m	1985	10	22.65938	04	52	16.17	+31	21	05.4				391

Periodic Comet Boethin

/1985n	1985	10	06.47812	18 54 20.7	-29 21 36			17	T	372
/1985n	1985	10	06.49792	18 54 20.9	-29 21 30			17	T	372
/1985n	1985	10	11.39899	19 00 21.27	-28 55 29.0			15	T	474
/1985n	1985	10	11.45174	19 00 25.50	-28 55 12.3					474
/1985n	1985	10	16.38728	19 07 23.56	-28 27 04.4					474
/1985n	1985	10	16.40557	19 07 25.33	-28 26 57.6			15	N	474

Periodic Comet Kojima

/1985o	1985	10	19.49512	07 51 49.12	+20 07 35.8			20	T	691
/1985o	1985	10	19.50941	07 51 50.12	+20 07 32.6					691

Note 1: 11" tail in p.a. 252 . 2: correction to MPC 9718-9719. 3: right ascension uncertain. 4: interference from clouds, bad guiding, poor image. 5: image weak but well defined. 6: image weak. 7: time uncertain by 10 seconds. 8: interference from clouds. 9: image faint. A: mean of three images. B: mean of two images. C: ends of trail. D: 200" tail in p.a. 58 . E: time erroneously given as 30 seconds earlier on MPC 9994. F: comet extremely diffuse, position uncertain.

* * * * *

OBSERVATIONS MADE WITH THE 0.9-m SCHMIDT AT CAUSSOLS.

Reduction by M. T. Dumoulin and R. Chemin. Contact: J.-L. Heudier, CERGA, Avenue Copernic, F-06130 Grasse, France.

Object	Date	UT	R. A. (1950)	Decl.	N	Obs.
1983 TF2	1983	10 07.95500	23 54 24.87	-01 22 32.2	1	010
1983 TF2	1983	10 07.96889	23 54 22.58	-01 22 33.0	1	010
1983 TF2	1983	10 07.97583	23 54 21.42	-01 22 33.9	1	010
1983 TF2	1983	10 07.98278	23 54 20.26	-01 22 35.5	1	010
1983 TF2	1983	10 08.96008	23 51 42.00	-01 26 00.5	1	010
1983 TF2	1983	10 08.97751	23 51 39.19	-01 26 01.4	1	010
1983 TF2	1983	10 09.01902	23 51 31.81	-01 26 04.6		010

Note 1: rereduction of averaged positions on MPC 8486.

OBSERVATIONS MADE AT PINO TORINESE BY W. FERRERI.

Observations with the 0.20-m astrograph. Reduced by G. de Sanctis using the AGK3 (positive declinations) or SAO (negative declinations) catalogues. Contact: V. Zappala, Osservatorio Astronomico di Torino, I-10025 Pino Torinese, Italy.

Object	Date	UT	R. A. (1950)	Decl.	Obs.
3	1985	02 24.95131	12 44 30.82	-01 22 12.6	022
3	1985	02 24.98524	12 44 29.81	-01 21 57.2	022
3	1985	03 17.93898	12 30 57.40	+01 38 18.3	022
3	1985	03 17.96115	12 30 56.37	+01 38 29.9	022
3	1985	03 17.96530	12 30 56.10	+01 38 32.6	022
3	1985	03 17.96946	12 30 55.89	+01 38 34.2	022
3	1985	03 23.92052	12 26 14.65	+02 32 37.9	022
3	1985	03 23.92398	12 26 14.46	+02 32 39.8	022
3	1985	03 23.94269	12 26 13.53	+02 32 50.1	022
3	1985	03 27.89973	12 23 04.24	+03 07 57.5	022
3	1985	03 27.92675	12 23 02.89	+03 08 11.3	022
3	1985	03 27.92951	12 23 02.79	+03 08 13.3	022
3	1985	04 10.91086	12 12 31.24	+05 00 01.8	022
3	1985	04 10.91432	12 12 31.08	+05 00 03.0	022
3	1985	04 10.93716	12 12 30.09	+05 00 12.7	022
3	1985	04 18.87655	12 07 30.31	+05 51 13.0	022
3	1985	04 18.90009	12 07 29.49	+05 51 21.0	022
3	1985	04 18.90425	12 07 29.36	+05 51 22.3	022

4	1985 03 27.93852	14 19 54.42	-01 02 46.9			022
4	1985 03 27.96830	14 19 53.41	-01 02 37.2			022
4	1985 03 27.97106	14 19 53.31	-01 02 35.7			022
4	1985 04 28.86473	13 53 30.87	+01 33 01.6			022
4	1985 04 28.86750	13 53 30.73	+01 33 02.9			022
4	1985 04 28.86957	13 53 30.53	+01 33 02.6			022
4	1985 05 14.97765	13 40 34.77	+01 46 52.1			022
4	1985 05 14.98042	13 40 34.57	+01 46 51.6			022
4	1985 05 14.98250	13 40 34.56	+01 46 51.8			022
6	1985 02 24.84015	05 56 05.52	+14 33 20.0			022
6	1985 02 24.86301	05 56 06.21	+14 33 30.4			022
6	1985 03 17.82264	06 12 03.60	+17 08 43.5			022
6	1985 03 17.84479	06 12 04.87	+17 08 51.6			022
7	1985 02 24.87063	05 25 29.55	+19 32 36.7			022
7	1985 02 24.89833	05 25 31.40	+19 32 36.4			022
12	1985 04 29.95593	14 51 56.86	-19 57 39.3			022
12	1985 04 29.97116	14 51 55.96	-19 57 31.1			022
39	1985 03 17.90781	10 56 30.17	+09 34 37.6			022
39	1985 03 17.93067	10 56 29.20	+09 34 47.1			022
39	1985 03 23.88659	10 52 23.37	+10 14 56.9			022
39	1985 03 23.89005	10 52 23.22	+10 14 58.0			022
39	1985 03 23.91429	10 52 22.24	+10 15 07.6			022
39	1985 03 27.86390	10 49 54.68	+10 39 20.3			022
39	1985 03 27.87844	10 49 54.17	+10 39 26.2			022
39	1985 03 27.88605	10 49 53.90	+10 39 29.1			022
39	1985 04 10.87414	10 43 21.38	+11 46 49.7			022
39	1985 04 10.87760	10 43 21.31	+11 46 50.1			022
39	1985 04 10.90392	10 43 20.78	+11 46 55.6			022
40	1985 02 24.90525	06 01 06.92	+25 21 53.6			022
40	1985 02 24.92742	06 01 07.48	+25 21 54.2			022
40	1985 03 17.87631	06 16 59.32	+25 32 01.9			022
40	1985 03 17.89985	06 17 00.85	+25 32 02.3			022
129	1985 05 14.86823	10 04 44.07	+19 44 19.1			022
129	1985 05 14.90978	10 04 46.07	+19 44 08.5			022
148	1985 06 24.87678	17 37 49.29	+08 33 51.6			022
148	1985 06 24.91625	17 37 47.21	+08 33 41.6			022
148	1985 07 21.91006	17 18 43.26	+05 25 30.7			022
148	1985 07 21.93291	17 18 42.54	+05 25 17.0			022
148	1985 07 24.88837	17 17 21.47	+04 57 16.1			022
148	1985 07 24.90672	17 17 20.99	+04 57 05.8			022
148	1985 08 20.87351	17 13 58.16	+00 12 14.1			022
148	1985 08 20.89775	17 13 58.65	+00 11 57.6			022
389	1984 10 29.87875	21 39 10.71	-04 38 22.7			022
389	1984 10 29.90230	21 39 11.35	-04 38 22.6			022
1036	1985 07 21.98624	01 20 04.62	+46 06 25.4			022
1036	1985 07 22.00009	01 20 08.31	+46 06 31.9			022
1627	1985 06 24.98586	21 40 13.54	+10 28 30.4			022
1627	1985 06 25.00595	21 40 19.52	+10 28 27.9			022
1627	1985 07 22.01330	23 53 21.40	+03 45 28.6			022
1627	1985 07 22.02853	23 53 25.05	+03 45 05.8			022

OBSERVATIONS MADE AT ZIMMERWALD BY P. WILD AND T. SCHILDKNECHT.
Films taken with the 0.4-m Schmidt. Measured by Wild and U. Hugentobler. Contact: P. Wild, Astronomisches Institut der Universitat, Sidlerstrasse 5, CH-3012 Berne, Switzerland.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	N	Obs.
1985 QD1 *	1985 08 21.05555		00 54 36.40	-10 45 57.9	16.5	1	026
1985 QD1	1985 08 22.06146		00 54 22.00	-10 50 01.8			026
1985 QD1	1985 09 13.00972		00 43 19.29	-12 26 02.1			026

1985	QD1		1985	09	17.00625	00	40	19.39	-12	42	10.5	026
1985	QD1		1985	09	18.98264	00	38	45.86	-12	49	38.4	026
1985	QD1		1985	09	22.06667	00	36	15.17	-13	00	25.7	026
1985	QD1		1985	09	25.08611	00	33	43.60	-13	09	49.4	026
1985	QD1		1985	10	14.88264	00	17	25.15	-13	34	03.7	026
1985	RS1	*	1985	09	12.01736	00	26	02.19	-00	09	24.1	17.0 2 026
1985	RS1		1985	09	16.98125	00	22	08.46	-00	24	43.8	026
1985	RS1		1985	09	19.04861	00	20	24.13	-00	31	29.8	026
1985	RS1		1985	09	22.04444	00	17	48.85	-00	41	24.7	026
1985	RS1		1985	09	25.10417	00	15	07.00	-00	51	26.8	026
1985	RS1		1985	10	12.89236	00	00	45.40	-01	36	34.4	026
1985	RS1		1985	10	16.92326	23	58	19.41	-01	41	06.2	026
1985	RT1	*	1985	09	12.01736	00	27	58.31	-00	19	30.1	16.8 2 026
1985	RT1		1985	09	16.98125	00	24	03.25	-00	29	33.2	026
1985	RT1		1985	09	19.04861	00	22	20.58	-00	33	56.8	026
1985	RT1		1985	09	22.04444	00	19	48.76	-00	40	23.7	026
1985	RT1		1985	09	25.10417	00	17	10.41	-00	47	00.3	026
1985	RT1		1985	10	12.89236	00	02	11.26	-01	19	38.2	026
1985	RT1		1985	10	16.92326	23	59	10.79	-01	24	13.1	026
1985	RU1	*	1985	09	12.01736	00	35	08.11	+01	03	35.9	15.5 1 026
1985	RU1		1985	09	16.98125	00	31	05.77	+00	59	39.3	026
1985	RU1		1985	09	19.04861	00	29	19.69	+00	57	41.2	026
1985	RU1		1985	09	22.04444	00	26	42.54	+00	54	40.4	026
1985	RU1		1985	09	25.10417	00	23	59.12	+00	51	26.4	026
1985	RU1		1985	10	12.89236	00	08	42.51	+00	36	16.2	026
1985	RU1		1985	10	16.92326	00	05	44.16	+00	35	10.3	026

Note 1: discoverer Schildknecht. 2: discoverer Wild.

OBSERVATIONS MADE AT TAUTENBURG BY F. BORNGEN AND K. KIRSCH.

Plates taken with the 1.34-m (134/200/400 cm) Schmidt. Reductions by Borngen, using the SAO Catalog. Contact: S. Marx, Karl Schwarzschild Observatorium, DDR-6901 Tautenburg, Democratic Republic of Germany.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
383	1981 09	24.00000	02 52 18.49	+12 50 50.5		033
383	1981 09	24.01806	02 52 18.31	+12 50 49.0	14.4	033
1269	1978 12	05.90590	02 51 54.95	+12 47 12.8	15.4	033
1269	1978 12	05.97292	02 51 52.83	+12 47 05.7		033
2461	1978 12	05.90590	02 54 27.58	+13 19 20.7	17.0	033
2461	1978 12	05.97292	02 54 25.18	+13 19 14.4		033
2482	1978 12	05.90590	02 58 25.28	+13 21 09.2	18.1	033
2482	1978 12	05.97292	02 58 22.57	+13 21 03.0		033
2500	1981 09	24.00000	02 53 30.70	+12 56 15.1		033
2500	1981 09	24.01806	02 53 30.21	+12 56 14.8	17.4	033
2525	1981 09	24.00000	02 51 33.56	+12 47 04.0		033
2525	1981 09	24.01806	02 51 33.32	+12 47 02.3	15.4	033
3084	1981 09	24.00000	02 58 18.38	+14 26 21.9		033
3084	1981 09	24.01806	02 58 18.20	+14 26 17.3	16.9	033
3302	1981 09	24.00000	02 51 22.31	+12 04 06.3		033
3302	1981 09	24.01806	02 51 22.05	+12 04 02.8	17.3	033
1978	XM1 *	1978 12	05.90590	02 50 26.84	+13 40 13.5	18.7 033
1978	XM1	1978 12	05.97292	02 50 24.67	+13 40 06.9	033
1978	XN1 *	1978 12	05.90590	02 56 05.84	+11 48 21.4	19.1 033
1978	XN1	1978 12	05.97292	02 56 02.85	+11 48 08.0	033
1978	XO1 *	1978 12	05.90590	02 56 27.75	+12 45 34.8	19.6 033
1978	XO1	1978 12	05.97292	02 56 25.11	+12 45 28.3	033
1978	XP1 *	1978 12	05.90590	02 56 38.98	+11 45 59.2	19.5 033
1978	XP1	1978 12	05.97292	02 56 37.07	+11 45 56.4	033
1978	XQ1 *	1978 12	05.90590	02 57 55.24	+12 06 29.4	19.0 033
1978	XQ1	1978 12	05.97292	02 57 52.47	+12 06 02.9	033

1978	XR1	*	1978	12	05.90590	02	57	58.81	+12	53	29.0	20.1	033
1978	XR1		1978	12	05.97292	02	57	56.22	+12	53	28.4		033
1978	XS1	*	1978	12	05.90590	02	58	18.78	+13	09	43.5	19.2	033
1978	XS1		1978	12	05.97292	02	58	16.45	+13	09	40.8		033
1978	XT1	*	1978	12	05.90590	02	58	38.09	+13	04	34.9	19.0	033
1978	XT1		1978	12	05.97292	02	58	36.18	+13	04	19.1		033
1978	XU1	*	1978	12	05.90590	02	59	39.65	+14	30	56.5	20.0	033
1978	XU1		1978	12	05.97292	02	59	36.99	+14	30	54.1		033
1978	XV1	*	1978	12	05.90590	03	00	20.78	+13	43	23.7	19.2	033
1978	XV1		1978	12	05.97292	03	00	18.69	+13	43	04.4		033
1981	SB8		1981	09	24.00000	02	49	18.31	+12	09	21.9		033
1981	SB8	*	1981	09	24.01806	02	49	17.99	+12	09	21.8	19.6	033
1981	SC8		1981	09	24.00000	02	49	55.60	+11	40	01.9		033
1981	SC8	*	1981	09	24.01806	02	49	55.77	+11	40	06.9	20.3	033
1981	SD8		1981	09	24.00000	02	51	37.39	+13	11	10.8		033
1981	SD8	*	1981	09	24.01806	02	51	37.21	+13	11	09.8	19.2	033
1981	SE8		1981	09	24.00000	02	52	06.96	+13	30	39.0		033
1981	SE8	*	1981	09	24.01806	02	52	06.51	+13	30	37.0	19.4	033
1981	SF8		1981	09	24.00000	02	52	38.99	+12	18	02.7		033
1981	SF8	*	1981	09	24.01806	02	52	38.49	+12	18	05.6	16.8	033
1981	SG8		1981	09	24.00000	02	52	43.03	+13	10	29.8		033
1981	SG8	*	1981	09	24.01806	02	52	42.75	+13	10	27.1	18.9	033
1981	SH8		1981	09	24.00000	02	52	58.15	+13	24	27.9		033
1981	SH8	*	1981	09	24.01806	02	52	57.77	+13	24	27.9	18.1	033
1981	SJ8		1981	09	24.00000	02	53	03.58	+11	59	30.7		033
1981	SJ8	*	1981	09	24.01806	02	53	03.76	+11	59	15.1	18.6	033
1981	SK8		1981	09	24.00000	02	53	36.22	+12	20	10.4		033
1981	SK8	*	1981	09	24.01806	02	53	36.07	+12	20	08.5	18.7	033
1981	SL8		1981	09	24.00000	02	53	36.43	+11	40	22.6		033
1981	SL8	*	1981	09	24.01806	02	53	36.21	+11	40	20.2	20.1	033
1981	SM8		1981	09	24.00000	02	54	25.10	+11	34	07.3		033
1981	SM8	*	1981	09	24.01806	02	54	24.81	+11	34	04.9	19.6	033
1981	SN8		1981	09	24.00000	02	54	29.85	+11	53	58.2		033
1981	SN8	*	1981	09	24.01806	02	54	29.96	+11	53	54.7	19.9	033
1981	SO8		1981	09	24.00000	02	55	56.98	+13	29	25.5		033
1981	SO8	*	1981	09	24.01806	02	55	57.18	+13	29	19.8	19.7	033
1981	SP8		1981	09	24.00000	02	56	14.64	+12	13	59.8		033
1981	SP8	*	1981	09	24.01806	02	56	14.30	+12	14	00.7	18.6	033
1981	SQ8		1981	09	24.00000	02	56	52.24	+12	54	00.5		033
1981	SQ8	*	1981	09	24.01806	02	56	52.05	+12	54	02.6	19.8	033
1981	SR8		1981	09	24.00000	02	56	52.36	+13	29	48.8		033
1981	SR8	*	1981	09	24.01806	02	56	52.17	+13	29	50.1	19.1	033
1981	SS8		1981	09	24.00000	02	57	06.04	+11	51	41.7		033
1981	SS8	*	1981	09	24.01806	02	57	06.19	+11	51	37.8	19.2	033
1981	ST8		1981	09	24.00000	02	57	47.20	+14	43	07.5		033
1981	ST8	*	1981	09	24.01806	02	57	46.82	+14	43	02.8	18.6	033
1981	SU8		1981	09	24.00000	02	58	11.33	+12	30	15.4		033
1981	SU8	*	1981	09	24.01806	02	58	11.16	+12	30	12.3	19.0	033
1981	SV8		1981	09	24.00000	02	58	32.54	+11	55	36.4		033
1981	SV8	*	1981	09	24.01806	02	58	32.22	+11	55	37.7	18.8	033
1981	SW8		1981	09	24.00000	02	58	50.51	+13	31	43.2		033
1981	SW8	*	1981	09	24.01806	02	58	50.54	+13	31	40.5	19.0	033
1981	SX8		1981	09	24.00000	02	59	08.04	+14	41	09.6		033
1981	SX8	*	1981	09	24.01806	02	59	07.79	+14	41	06.9	17.2	033
1981	SY8		1981	09	24.00000	02	59	34.00	+14	10	14.0		033
1981	SY8	*	1981	09	24.01806	02	59	34.10	+14	10	13.3	20.0	033
1981	SZ8		1981	09	24.00000	02	59	57.06	+12	40	51.1		033
1981	SZ8	*	1981	09	24.01806	02	59	56.81	+12	40	49.6	18.0	033
1981	SA9		1981	09	24.00000	03	00	39.10	+14	21	25.4		033

1981 SA9	*	1981	09	24.01806	03	00	39.10	+14	21	17.5	18.2 033
1981 SB9		1981	09	24.00000	03	00	40.19	+13	30	53.5	033
1981 SB9	*	1981	09	24.01806	03	00	39.69	+13	30	54.4	19.3 033
1981 SC9		1981	09	24.00000	03	01	40.79	+13	41	17.4	033
1981 SC9	*	1981	09	24.01806	03	01	41.34	+13	41	21.3	19.5 033

OBSERVATIONS MADE AT KLET BY A. MRKOS AND Z. VAVROVA.

Plates with the 0.6-m Maksutov reflector. Contact: A. Mrkos, Department of Astronomy and Astrophysics, Charles University, Svedska 8, C-15000 Prague 5, Czechoslovakia.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	N	Obs.
105	1985 09	18.89119	00 21 13.89	+06 06 08.2			046
105	1985 09	18.90531	00 21 13.24	+06 05 57.2			046
135	1985 09	10.95934	00 10 05.38	+02 06 56.4			046
135	1985 09	10.97352	00 10 04.62	+02 06 53.6			046
135	1985 09	11.92832	00 09 17.71	+02 03 45.0			046
135	1985 09	11.94348	00 09 16.95	+02 03 42.1			046
135	1985 09	12.92809	00 08 27.47	+02 00 21.9			046
135	1985 09	12.94215	00 08 26.70	+02 00 18.4			046
378	1985 09	19.85684	23 13 53.80	+05 57 29.1		1	046
378	1985 09	19.87096	23 13 53.23	+05 57 23.8			046
509	1985 09	18.85630	23 08 50.27	+12 35 13.3			046
509	1985 09	18.87123	23 08 49.69	+12 35 04.6			046
525	1985 09	09.88454	22 40 42.01	-01 11 47.5			046
525	1985 09	09.89866	22 40 41.24	-01 11 54.7			046
525	1985 09	10.88613	22 39 47.68	-01 20 05.8			046
525	1985 09	10.90025	22 39 47.01	-01 20 10.4			046
525	1985 09	11.85836	22 38 55.46	-01 28 07.2			046
525	1985 09	11.87248	22 38 54.66	-01 28 14.9			046
525	1985 09	12.89458	22 38 00.49	-01 36 44.2			046
525	1985 09	12.90870	22 37 59.80	-01 36 51.4			046
525	1985 09	13.89220	22 37 08.07	-01 45 03.8			046
525	1985 09	13.90638	22 37 07.29	-01 45 10.0			046
684	1985 09	09.84189	22 11 51.46	-10 55 00.8			046
684	1985 09	09.85601	22 11 50.76	-10 55 03.3			046
684	1985 09	10.84863	22 10 58.88	-10 57 07.7			046
684	1985 09	10.86275	22 10 58.06	-10 57 10.1			046
789	1985 09	09.91810	23 18 57.46	+12 21 01.6			046
789	1985 09	09.93216	23 18 56.79	+12 20 55.3			046
789	1985 09	10.92329	23 18 09.75	+12 13 59.7			046
789	1985 09	10.93787	23 18 09.05	+12 13 53.9			046
789	1985 09	13.85696	23 15 49.50	+11 52 27.2			046
789	1985 09	13.87113	23 15 48.84	+11 52 20.3			046
789	1985 09	18.85630	23 11 55.82	+11 12 36.8			046
789	1985 09	18.87123	23 11 55.15	+11 12 29.1			046
996	1985 09	09.84189	22 19 45.33	-10 35 52.9			046
996	1985 09	09.85601	22 19 44.66	-10 35 57.5			046
996	1985 09	10.84863	22 19 03.41	-10 39 42.6			046
996	1985 09	10.86275	22 19 02.74	-10 39 45.9			046
1077	1985 09	09.84189	22 16 14.22	-12 06 50.2			046
1077	1985 09	09.85601	22 16 13.54	-12 06 50.1			046
1077	1985 09	10.84863	22 15 22.28	-12 06 33.7			046
1077	1985 09	10.86275	22 15 21.52	-12 06 33.7			046
1454	1985 09	10.95934	00 08 38.32	+01 39 37.3			046
1454	1985 09	10.97352	00 08 37.45	+01 39 34.1			046
1454	1985 09	11.92832	00 07 45.86	+01 36 08.9			046
1454	1985 09	11.94348	00 07 44.84	+01 36 03.1			046
1454	1985 09	12.92809	00 06 50.51	+01 32 25.6			046
1454	1985 09	12.94215	00 06 49.80	+01 32 23.0			046

1788		1985	09	09.84189	22	21	17.38	-10	12	19.5	046
1788		1985	09	09.85601	22	21	16.84	-10	12	22.0	046
1788		1985	09	10.84863	22	20	36.68	-10	16	30.9	046
1788		1985	09	10.86275	22	20	36.14	-10	16	33.4	046
1918		1985	09	18.89119	00	17	51.35	+05	12	01.7	046
1918		1985	09	18.90531	00	17	50.72	+05	11	54.5	046
2630		1985	09	09.84189	22	14	36.18	-12	19	17.4	046
2630		1985	09	09.85601	22	14	35.56	-12	19	19.7	046
2630		1985	09	10.84863	22	13	52.94	-12	22	28.8	046
2630		1985	09	10.86275	22	13	52.10	-12	22	32.2	046
2825		1985	09	09.84189	22	17	01.54	-09	22	11.9	046
2825		1985	09	09.85601	22	17	00.68	-09	22	15.1	046
2825		1985	09	10.84863	22	16	03.32	-09	25	18.5	046
2825		1985	09	10.86275	22	16	02.50	-09	25	20.5	046
2860		1985	09	09.91810	23	20	10.21	+10	47	16.2	046
2860		1985	09	09.93216	23	20	09.08	+10	47	23.4	046
2860		1985	09	10.92329	23	18	38.03	+10	57	46.4	046
2860		1985	09	10.93787	23	18	36.68	+10	57	55.1	046
2860		1985	09	11.89406	23	17	08.05	+11	07	45.4	046
2860		1985	09	11.90818	23	17	06.62	+11	07	53.9	046
2860		1985	09	13.85696	23	14	04.76	+11	27	11.5	046
2860		1985	09	13.87113	23	14	03.38	+11	27	20.0	046
2860		1985	09	18.85630	23	06	16.05	+12	12	38.0	046
2860		1985	09	18.87123	23	06	14.54	+12	12	44.8	046
3097		1985	09	18.89119	00	19	00.64	+05	05	57.2	046
3097		1985	09	18.90531	00	19	00.24	+05	05	49.3	046
1948	RD	1985	09	10.95934	00	10	52.87	+00	27	07.1	046
1948	RD	1985	09	10.97352	00	10	52.00	+00	27	07.7	046
1948	RD	1985	09	11.92832	00	09	59.27	+00	27	24.8	046
1948	RD	1985	09	11.94348	00	09	58.28	+00	27	24.9	046
1948	RD	1985	09	12.92809	00	09	02.92	+00	27	38.1	046
1948	RD	1985	09	12.94215	00	09	02.00	+00	27	37.4	046
1983	CW1	1985	09	09.88454	22	44	18.27	+00	32	05.5	046
1983	CW1	1985	09	09.89866	22	44	17.61	+00	32	04.3	046
1983	CW1	1985	09	10.88613	22	43	23.70	+00	29	41.4	046
1983	CW1	1985	09	10.90025	22	43	22.94	+00	29	40.9	046
1983	CW1	1985	09	11.85836	22	42	31.06	+00	27	19.3	046
1983	CW1	1985	09	11.87248	22	42	30.17	+00	27	17.6	046
1983	CW1	1985	09	12.89458	22	41	35.14	+00	24	45.9	046
1983	CW1	1985	09	12.90870	22	41	34.46	+00	24	42.9	046
1983	CW1	1985	09	13.89220	22	40	42.04	+00	22	13.9	046
1983	CW1	1985	09	13.90638	22	40	41.36	+00	22	12.6	046
1984	ES1	1985	09	18.89119	00	24	41.16	+04	49	50.3	046
1984	ES1	1985	09	18.90531	00	24	40.44	+04	49	44.9	046
1985	QO	1985	09	10.95934	00	04	07.44	+01	45	26.0	16.7 046
1985	QO	1985	09	10.97352	00	04	06.82	+01	45	21.8	046
1985	QO	1985	09	11.92832	00	03	34.76	+01	40	28.6	046
1985	QO	1985	09	11.94348	00	03	34.11	+01	40	24.2	046
1985	QO	1985	09	12.92809	00	03	00.52	+01	35	19.1	046
1985	QO	1985	09	12.94215	00	02	59.95	+01	35	14.6	046
1985	QP	1985	09	10.95934	00	08	52.56	+00	32	22.6	16.6 046
1985	QP	1985	09	10.97352	00	08	51.86	+00	32	20.4	046
1985	QP	1985	09	11.92832	00	08	04.28	+00	30	29.6	046
1985	QP	1985	09	11.94348	00	08	03.62	+00	30	27.7	046
1985	QW	1985	09	09.88454	22	42	34.03	-01	13	39.0	16.6 046
1985	QW	1985	09	09.89866	22	42	33.55	-01	13	38.5	046
1985	QW	1985	09	10.88613	22	41	43.79	-01	20	56.8	046
1985	QW	1985	09	10.90025	22	41	42.96	-01	21	03.0	046
1985	QW	1985	09	11.85836	22	40	55.36	-01	28	10.1	046

1985	QW		1985	09	11.87248	22	40	54.44	-01	28	16.8		046
1985	QW		1985	09	12.89458	22	40	04.09	-01	35	53.1		046
1985	QW		1985	09	12.90870	22	40	03.26	-01	36	00.8		046
1985	QW		1985	09	13.89220	22	39	15.00	-01	43	25.0		046
1985	QW		1985	09	13.90638	22	39	14.23	-01	43	32.3		046
1985	QX		1985	09	10.88613	22	47	43.60	-00	02	38.9	16.6	046
1985	QX		1985	09	10.90025	22	47	43.00	-00	02	46.8		046
1985	QX		1985	09	11.85836	22	47	04.43	-00	10	46.5		046
1985	QX		1985	09	11.87248	22	47	03.83	-00	10	53.5		046
1985	QX		1985	09	12.89458	22	46	23.13	-00	19	23.9		046
1985	QX		1985	09	12.90870	22	46	22.32	-00	19	31.3		046
1985	QX		1985	09	13.89220	22	45	43.73	-00	27	47.3		046
1985	QX		1985	09	13.90638	22	45	43.24	-00	27	53.0		046
1985	QY		1985	09	09.88454	22	48	03.78	-00	26	59.8	16.4	046
1985	QY		1985	09	09.89866	22	48	03.08	-00	27	03.4		046
1985	QY		1985	09	10.88613	22	47	06.09	-00	29	15.4		046
1985	QY		1985	09	10.90025	22	47	05.34	-00	29	16.9		046
1985	QY		1985	09	11.85836	22	46	10.41	-00	31	27.7		046
1985	QY		1985	09	11.87248	22	46	09.58	-00	31	29.1		046
1985	QY		1985	09	13.89220	22	44	15.58	-00	36	07.0	2	046
1985	QY		1985	09	13.90638	22	44	14.55	-00	36	10.6	2	046
1985	RD		1985	09	10.95934	00	11	08.09	+01	06	00.4	16.4	046
1985	RD		1985	09	10.97352	00	11	07.39	+01	05	56.6		046
1985	RH1	*	1985	09	09.88454	22	43	32.76	-01	28	02.8	16.8	046
1985	RH1		1985	09	09.89866	22	43	31.76	-01	28	04.5		046
1985	RH1		1985	09	11.85836	22	41	36.88	-01	33	40.9		046
1985	RH1		1985	09	11.87248	22	41	35.78	-01	33	42.1		046
1985	RH1		1985	09	12.89458	22	40	37.47	-01	36	41.7		046
1985	RH1		1985	09	12.90870	22	40	36.42	-01	36	44.1		046
1985	RH1		1985	09	13.89220	22	39	40.83	-01	39	37.4		046
1985	RH1		1985	09	13.90638	22	39	39.84	-01	39	42.3		046
1985	RJ1	*	1985	09	09.88454	22	48	24.21	-00	05	40.9	17.0	046
1985	RJ1		1985	09	09.89866	22	48	23.72	-00	05	35.2		046
1985	RK1	*	1985	09	09.91810	23	18	06.58	+09	40	56.5	16.9	046
1985	RK1		1985	09	09.93216	23	18	05.86	+09	40	49.5		046
1985	RK1		1985	09	10.92329	23	17	11.16	+09	38	20.1		046
1985	RK1		1985	09	10.93787	23	17	10.35	+09	38	17.3		046
1985	RK1		1985	09	11.89406	23	16	17.79	+09	35	40.9		046
1985	RK1		1985	09	11.90818	23	16	16.93	+09	35	36.2		046
1985	RL1	*	1985	09	09.91810	23	19	24.54	+09	46	56.9	16.5	046
1985	RL1		1985	09	09.93216	23	19	23.93	+09	46	48.8		046
1985	RL1		1985	09	10.92329	23	18	40.91	+09	37	02.4		046
1985	RL1		1985	09	10.93787	23	18	40.24	+09	36	53.0		046
1985	RL1		1985	09	11.89406	23	17	59.13	+09	27	18.0		046
1985	RL1		1985	09	11.90818	23	17	58.53	+09	27	08.4		046
1985	RL1		1985	09	13.85696	23	16	34.08	+09	06	54.9		046
1985	RL1		1985	09	13.87113	23	16	33.44	+09	06	46.2		046
1985	RM1	*	1985	09	09.91810	23	22	02.68	+13	07	18.4	1	046
1985	RM1		1985	09	09.93216	23	22	01.60	+13	07	18.8	1	046
1985	RM1		1985	09	13.87113	23	17	51.40	+13	07	28.8	16.6	046
1985	RN1	*	1985	09	09.91810	23	24	16.07	+09	35	23.1	16.8	046
1985	RN1		1985	09	09.93216	23	24	15.28	+09	35	20.2		046
1985	RN1		1985	09	10.92329	23	23	18.81	+09	31	58.9		046
1985	RN1		1985	09	10.93787	23	23	18.02	+09	31	54.2		046
1985	RO1	*	1985	09	09.91810	23	24	37.76	+11	50	12.3	16.7	046
1985	RO1		1985	09	09.93216	23	24	37.08	+11	50	08.2		046
1985	RO1		1985	09	10.92329	23	23	52.06	+11	46	01.1		046
1985	RO1		1985	09	10.93787	23	23	50.94	+11	45	53.7		046
1985	RO1		1985	09	13.85696	23	21	38.12	+11	32	39.1		046

1985	RO1		1985	09	13.87113	23	21	37.28	+11	32	38.1	046
1985	RP1	*	1985	09	10.95934	00	07	11.86	-00	12	58.4	16.7 046
1985	RP1		1985	09	10.97352	00	07	11.08	-00	13	07.1	046
1985	RQ1	*	1985	09	13.85696	23	14	45.59	+09	18	50.4	17.0 046
1985	RQ1		1985	09	13.87113	23	14	44.99	+09	18	39.8	046
1985	SH	*	1985	09	18.85630	23	07	02.66	+09	47	00.5	1 046
1985	SH		1985	09	18.87123	23	07	02.00	+09	46	38.5	16.0 046
1985	SH		1985	09	19.85684	23	06	21.97	+09	20	19.1	046
1985	SH		1985	09	19.87096	23	06	21.36	+09	20	02.4	046
1985	SJ	*	1985	09	18.85630	23	08	05.07	+12	47	11.1	16.8 046
1985	SJ		1985	09	18.87123	23	08	04.18	+12	47	11.3	046
1985	SK	*	1985	09	18.85630	23	12	01.59	+13	45	37.1	16.8 046
1985	SK		1985	09	18.87123	23	12	00.68	+13	45	33.6	046
1985	SL	*	1985	09	18.85630	23	12	31.34	+13	02	26.4	16.7 046
1985	SL		1985	09	18.87123	23	12	30.45	+13	02	22.6	046
1985	SM	*	1985	09	18.89119	00	22	32.74	+06	13	10.6	16.7 046
1985	SM		1985	09	18.90531	00	22	31.80	+06	13	08.8	046
1985	SN	*	1985	09	18.92684	23	53	07.87	+08	44	15.2	16.7 046
1985	SN		1985	09	18.94102	23	53	07.18	+08	44	07.6	046
1985	SN		1985	09	19.90053	23	52	27.44	+08	36	44.8	046
1985	SN		1985	09	19.91459	23	52	26.54	+08	36	36.2	046
1985	SO	*	1985	09	18.92684	23	54	33.15	+05	07	53.2	16.4 046
1985	SO		1985	09	18.94102	23	54	31.46	+05	08	03.5	046
1985	SO		1985	09	19.90053	23	52	46.78	+05	19	10.0	046
1985	SO		1985	09	19.91459	23	52	45.21	+05	19	20.7	046
1985	SP	*	1985	09	18.92684	23	55	15.08	+05	41	30.2	16.4 046
1985	SP		1985	09	18.94102	23	55	14.53	+05	41	22.9	046
1985	SP		1985	09	19.90053	23	54	35.08	+05	33	12.0	046
1985	SP		1985	09	19.91459	23	54	34.56	+05	33	05.3	046

Note 1: near edge of plate. 2: uncertain.

OBSERVATIONS MADE AT BRORFELDE BY K. AUGUSTESEN, P. JENSEN AND H. J. FOGH OLSEN.

Contact: H. J. Fogh Olsen, Copenhagen University Observatory, Brorfelde, DK-4340 Tollose, Denmark.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
135	1985 09	11.95426	00 09 16.32	+02 03 42.1		054
135	1985 09	15.94801	00 05 51.02	+01 49 33.9		054
135	1985 09	17.92162	00 04 06.24	+01 42 05.5		054
135	1985 09	23.00553	23 59 31.92	+01 21 57.5		054
135	1985 10	10.84350	23 45 15.24	+00 16 13.7		054
135	1985 10	12.89732	23 44 00.18	+00 10 27.3		054
315	1985 09	11.95426	23 59 05.61	-01 18 33.0		054
646	1985 09	22.97752	23 53 25.65	+13 16 22.7		054
710	1985 09	17.99384	23 08 16.03	-06 52 10.5		054
710	1985 09	22.90276	23 04 53.36	-07 14 45.9		054
775	1985 09	17.89384	00 18 13.30	+15 44 13.6		054
775	1985 09	18.01190	00 18 07.84	+15 43 56.0		054
838	1985 09	11.97509	00 10 44.92	+16 55 57.6		054
838	1985 09	15.97301	00 08 01.24	+16 36 29.9		054
838	1985 09	17.89384	00 06 39.47	+16 25 48.8		054
838	1985 09	18.01190	00 06 34.33	+16 25 08.3		054
838	1985 09	22.97752	00 02 57.22	+15 53 42.6		054
1381	1985 09	17.99384	23 05 54.23	-06 07 16.8		054
1381	1985 09	22.90276	23 01 35.32	-06 16 32.8		054
1425	1985 09	23.00553	23 59 37.28	+02 00 20.2		054
1425	1985 10	10.84350	23 46 41.33	-00 42 28.1		054
1425	1985 10	12.89732	23 45 24.41	-00 59 44.5		054
1454	1985 10	10.84350	23 40 13.51	-00 20 33.9		054

1454			1985	10	12.89732	23	38	33.22	-00	27	38.3	054
1636			1985	09	11.95426	23	56	53.94	-01	18	12.6	054
1720			1985	09	17.99384	23	14	35.93	-05	54	06.4	054
1720			1985	09	22.90276	23	09	58.35	-06	24	31.2	054
1924			1985	09	23.00553	00	07	27.38	+01	46	13.1	054
2010			1985	09	17.99384	23	06	29.14	-07	11	50.8	054
2010			1985	09	22.90276	23	02	49.92	-07	29	07.4	054
2322			1985	09	15.94801	00	10	17.58	+02	25	29.7	054
2322			1985	09	17.92162	00	08	35.27	+02	11	43.3	054
2322			1985	09	23.00553	00	04	03.70	+01	35	03.0	054
2322			1985	10	10.84350	23	49	00.48	-00	31	01.8	054
2322			1985	10	12.89732	23	47	33.82	-00	43	42.8	054
2605			1985	09	17.99384	23	04	31.81	-05	03	36.7	054
3033			1985	09	17.99384	23	09	47.90	-05	54	32.0	054
3033			1985	09	22.90276	23	05	37.14	-06	32	54.8	16.7	054
3150			1985	09	17.99384	23	07	26.13	-06	40	15.3	16.2	054
3150			1985	09	22.90276	23	02	56.94	-06	35	46.5		054
1948	RD		1985	09	11.95426	00	09	57.86	+00	27	26.4	16.5	054
1948	RD		1985	09	15.94801	00	06	06.50	+00	27	53.1		054
1948	RD		1985	09	17.92162	00	04	07.70	+00	27	42.5		054
1948	RD		1985	09	23.00553	23	58	55.33	+00	26	33.4	15.8	054
1981	JY1		1985	09	17.99384	23	05	33.16	-05	51	17.6	16.7	054
1981	WE		1985	09	11.97509	00	08	52.75	+16	30	22.2	16.3	054
1981	WE		1985	09	15.97301	00	06	18.17	+15	53	34.1		054
1981	WE		1985	09	17.89384	00	05	00.66	+15	34	12.9		054
1981	WE		1985	09	18.01190	00	04	55.73	+15	32	59.3		054
1981	WE		1985	09	22.97752	00	01	30.40	+14	38	27.1		054
1985	FE3		1985	04	18.90810	10	51	50.61	+21	34	48.7	17.0	054
1985	QO		1985	09	11.95426	00	03	33.43	+01	40	22.6	16.5	054
1985	QO		1985	09	15.94801	00	01	15.17	+01	19	28.0		054
1985	QO		1985	09	17.92162	00	00	05.46	+01	08	55.8	16.6	054
1985	QO		1985	09	23.00553	23	57	04.11	+00	41	24.9		054
1985	QO		1985	10	10.84350	23	47	09.04	-00	51	09.9	16.8	054
1985	QO		1985	10	12.89732	23	46	10.24	-01	00	44.4		054
1985	QP		1985	09	11.95426	00	08	03.08	+00	30	29.6	16.5	054
1985	QP		1985	09	15.94801	00	04	32.71	+00	21	50.4		054
1985	QP		1985	09	17.92162	00	02	43.99	+00	17	08.6	16.6	054
1985	QP		1985	09	23.00553	23	57	57.08	+00	04	19.7	16.8	054
1985	QP		1985	10	10.84350	23	42	54.80	-00	33	23.2	17.0	054
1985	QP		1985	10	12.89732	23	41	37.45	-00	35	40.5		054
1985	QT		1985	09	15.94801	00	14	51.18	-00	45	00.5	16.3	054
1985	QT		1985	09	17.92162	00	13	06.76	-00	44	27.7		054
1985	QT		1985	09	23.00553	00	08	32.14	-00	43	12.9	16.3	054
1985	QT		1985	10	10.84350	23	52	52.96	-00	35	00.6	16.5	054
1985	QT		1985	10	12.89732	23	51	15.68	-00	33	14.8		054
1985	RA	*	1985	09	11.97509	00	16	31.09	+16	13	33.7	16.8	054
1985	RA		1985	09	15.97301	00	13	35.61	+16	06	22.0		054
1985	RA		1985	09	17.89384	00	12	06.61	+16	01	29.6	16.6	054
1985	RA		1985	09	18.01190	00	12	00.96	+16	01	08.2		054
1985	RA		1985	09	22.97752	00	08	01.57	+15	44	18.6		054
1985	RD	*	1985	09	11.95426	00	10	24.98	+01	01	59.4	16.5	054
1985	RD		1985	09	15.94801	00	07	26.22	+00	45	14.3		054
1985	RD		1985	09	17.92162	00	05	55.30	+00	36	40.0	16.7	054
1985	RE	*	1985	09	15.94801	00	01	25.25	+00	04	03.4		054
1985	RE		1985	09	17.92162	23	59	20.88	+00	00	21.4	16.8	054
1985	RF	*	1985	09	15.94801	00	10	01.15	+02	26	41.0	16.3	054
1985	RF		1985	09	17.92162	00	08	21.95	+02	11	08.0		054
1985	RF		1985	09	23.00553	00	04	00.98	+01	30	11.9	17.0	054

1985 RF	1985 10 12.89732	23 49 12.30	-00 55 41.1		17.0		054
1985 RT	1985 09 11.95426	23 59 48.46	+00 07 45.5		16.6		054
1985 RY	1985 10 12.81711	22 35 24.90	+25 55 34.2		13.0		054
1985 RE1 *	1985 09 11.97509	00 06 15.06	+16 47 02.7		17.0		054
1985 RE1	1985 09 15.97301	00 03 17.06	+16 36 29.9				054
1985 RF1 *	1985 09 11.97509	00 07 05.14	+16 03 07.7		17.0		054
1985 RF1	1985 09 15.97301	00 04 11.68	+15 58 27.8				054
1985 RG1 *	1985 09 15.94801	00 11 27.23	+00 43 07.9		17.0		054
1985 RG1	1985 09 17.92162	00 10 01.14	+00 37 05.2				054

OBSERVATION MADE AT ST. POLTEN.

Contact: A. Hanslmeier, Institut fur Astronomie, Universitatsplatz 5, A-8010 Graz, Austria.

Object	Date	UT	R. A. (1950)	Decl.			Obs.
896	1984 09 28.04263		00 21 58.02	+16 16 14.2			082

OBSERVATIONS MADE AT GEISEI BY T. SEKI.

Contact: T. Seki, Kamimachi 2-9-35, Kochi, Japan.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
1985 SB *	1985 09 20.69549		00 57 28.27	+09 27 01.7	16	372
1985 SB	1985 09 20.71111		00 57 27.48	+09 27 00.9		372

OBSERVATIONS MADE AT UENOHARA BY N. KAWASATO.

Contact: S. Nakano, 3-1-1005, 3 chome, Higashi-Jujo, Kita-Ku, Tokyo 114, Japan.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
1948 RD	1985 10 07.50729		23 45 08.23	+00 24 55.1	15	376
1948 RD	1985 10 07.56007		23 45 05.86	+00 24 57.6		376

OBSERVATIONS MADE AT THE TOKYO OBSERVATORY'S KISO STATION BY H. KOSAI.

Plates taken with the 1.05-m Schmidt, reduced using eight reference stars from the SAO Catalog. Contact: H. Kosai, Tokyo Astronomical Observatory, Mitaka, Tokyo 181, Japan.

Object	Date	UT	R. A. (1950)	Decl.			Obs.
1977 EJ5	1985 09 20.57612		21 59 16.71	-06 38 27.4			381
1982 VZ4	1985 09 20.53019		20 45 03.31	-12 13 39.8			381

OBSERVATIONS MADE AT MOUNT JOHN UNIVERSITY OBSERVATORY.

Plates taken with the 0.6-m f/14 Cassegrain reflector by A. C. Gilmore, measured by P. M. Kilmartin. Computational support from R. McIntosh and W. M. Kissling. Reductions using field plates from the Carter Observatory, AGK3, SAO Catalog and Cape Photographic Catalogue. Contact: A. C. Gilmore, P.O. Box 57, Lake Tekapo, New Zealand.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	N	Obs.
29	1985 08 15.32278		14 59 03.83	-23 28 27.3			474
29	1985 08 15.32909		14 59 04.20	-23 28 28.2			474
29	1985 08 16.30953		15 00 02.28	-23 30 51.0			474
29	1985 08 16.31606		15 00 02.66	-23 30 52.0			474
1547	1985 02 20.48689		09 58 24.27	-02 09 46.0		1	474
1547	1985 02 20.53039		09 58 21.53	-02 09 42.7		1	474
1547	1985 02 21.47175		09 57 23.58	-02 08 37.7		1	474
1566	1985 06 21.65859		20 43 23.33	-33 56 32.6		2	474
1566	1985 06 21.72236		20 43 11.77	-33 58 06.8		2	474
2100	1984 10 23.40718		20 09 17.65	-23 42 10.8			474
2100	1984 10 23.42818		20 09 20.20	-23 42 20.9		3	474
2146	1985 08 16.72563		01 26 51.75	-30 19 51.6			474
2183	1985 07 18.77650		21 28 06.62	-38 25 25.0			474
2183	1985 07 18.78611		21 28 06.56	-38 25 36.1			474

2183		1985	08	14.70873	21	17	39.24	-45 32 58.9		474
2183		1985	08	14.71822	21	17	38.80	-45 33 05.1		474
3305		1985	09	17.45120	16	11	07.27	-32 46 38.9		474
3305		1985	09	17.47458	16	11	10.08	-32 46 43.7		474
3314		1985	08	17.47123	18	39	42.73	-33 29 12.0		474
3314		1985	08	17.49588	18	39	42.26	-33 29 03.6		474
1975	TV2	1985	06	16.60558	16	42	17.48	-29 38 03.1		474
1975	TV2	1985	06	16.61924	16	42	16.52	-29 38 05.0		474
1978	LB	1985	08	15.70791	00	11	40.99	-25 10 29.3		474
1978	LB	1985	08	15.73007	00	11	40.48	-25 10 39.2		474
1978	PC	1985	08	13.70145	00	47	33.69	-35 04 14.2		474
1978	PC	1985	08	13.73409	00	47	33.09	-35 04 35.7		474
1980	CT	1985	08	15.58973	21	07	50.06	-31 30 34.5		474
1980	CT	1985	08	15.61844	21	07	48.06	-31 30 37.4		474
1981	VA	1985	05	24.31061	09	14	33.64	-09 55 42.7	4	474
1981	VA	1985	05	24.33650	09	14	31.62	-09 54 09.3	4	474
1981	YS	1985	08	15.65299	23	53	56.72	-22 55 46.2		474
1981	YS	1985	08	15.67828	23	53	55.97	-22 55 57.9		474
1983	PA	1985	03	20.49690	10	19	46.17	-16 41 20.9		474
1983	PA	1985	03	20.54186	10	19	43.83	-16 41 03.3		474
1984	HX	1985	08	13.62604	23	18	04.30	+01 15 29.0	5	474
1984	HX	1985	08	13.65492	23	18	03.13	+01 15 29.3	5	474
1984	JZ	1985	07	18.73953	20	49	45.06	-49 37 19.7		474
1984	JZ	1985	07	18.75833	20	49	43.93	-49 37 26.1		474
1985	JA	1985	05	25.49090	15	02	48.72	-00 45 19.7		474
1985	JA	1985	05	25.50942	15	02	47.92	-00 44 05.0		474
1985	KA	1985	08	14.41336	15	22	12.45	-11 52 24.4		474
1985	KA	1985	08	14.44328	15	22	14.80	-11 52 17.6		474
1985	NE	1985	08	17.52863	18	53	59.75	-32 17 03.9		474

Note 1: plates with the 0.25-m astrograph. 2: trailed image. 3: faint image. 4: image on star trail. 5: only three reference stars.

OBSERVATIONS MADE AT THE OSSERVATORIO S. VITTORE.

Plates taken by G. Sassi and C. Vacchi; blinked by Vacchi; measured by Vacchi, V. Goretti and E. Colombini. Reduced by Colombini from least-squares plate-constants solutions with five or more AGK3 or SAO reference stars. Contact: E. Colombini, Via S. Vittore 44, I-40136 Bologna, Italy.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
3317	1985 06	07.86667	16 51 42.00	+09 46 18.7	16.0	552
3317	1985 06	07.89444	16 51 41.11	+09 46 17.1		552
3317	1985 06	07.92014	16 51 40.22	+09 46 16.5		552
1981 PA	1985 09	19.05278	05 19 04.97	+52 25 02.3	17.0	552
1981 PA	1985 09	19.06597	05 19 07.94	+52 25 15.2		552
1982 UJ8	1985 08	09.84097	20 55 10.37	-06 53 00.1	16.2	552
1982 UJ8	1985 08	09.85208	20 55 09.73	-06 53 02.1		552
1982 UJ8	1985 08	09.86250	20 55 09.11	-06 53 03.6		552
1982 UJ8	1985 08	16.88403	20 48 35.61	-07 18 09.8	16.3	552
1982 UJ8	1985 08	16.90208	20 48 34.63	-07 18 14.8		552
1984 EZ	1985 08	09.92917	21 06 02.35	-09 36 00.0	16.8	552
1984 EZ	1985 08	09.94861	21 06 01.56	-09 36 10.6		552

OBSERVATIONS MADE AT THE OSSERVATORIO CHAONIS BY C. R. BAUR AND J. M. BAUR.

Plates taken with the 0.40-m f/4.5 reflector, blinked by G. Carniel. Measured and reduced by J. M. Baur using four or five SAO or AGK3 reference stars. Contact: J. M. Baur, Via Zara 20, I-33083 Chions, Italy.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
A922 WB	1985 09	11.91875	23 21 49.93	-00 07 31.1	16.4	567
A922 WB	1985 09	11.92708	23 21 49.17	-00 07 33.7		567

OBSERVATIONS MADE AT ELDAGSEN BY W. BONK.

Contact: W. Bonk, Nordstrasse 33, D-3257 Springe 3, Federal Republic of Germany.

Object		Date	UT	R. A. (1950)	Decl.	Obs.
702		1985 09	19.79722	00 53 53.02	+36 43 27.3	573
702		1985 09	19.80347	00 53 52.75	+36 43 27.9	573
702		1985 09	19.80972	00 53 52.48	+36 43 28.4	573
702		1985 09	19.81597	00 53 52.22	+36 43 28.9	573
702		1985 09	19.82222	00 53 51.95	+36 43 29.5	573
702		1985 10	06.75763	00 39 40.19	+36 23 36.6	573
702		1985 10	06.76458	00 39 39.85	+36 23 35.3	573
702		1985 10	06.77708	00 39 39.25	+36 23 32.9	573
702		1985 10	06.78333	00 39 38.95	+36 23 31.8	573
702		1985 10	06.79097	00 39 38.58	+36 23 30.3	573

OBSERVATIONS MADE WITH AT PALOMAR BY A. MAURY AND J. MUELLER.

Contact: C. Kowal, Dept. of Astrophysics, California Institute of Technology, Pasadena, CA 91109, U.S.A.

Object		Date	UT	R. A. (1950)	Decl.	Mag.	N Obs.
1985 SD	*	1985 09	22.33958	00 52 32.36	-02 04 55.7	16	1 675
1985 SD		1985 09	22.39514	00 52 19.15	-02 03 56.9		1 675

Note 1: discoverer Maury; sense of motion uncertain.

OBSERVATIONS MADE WITH THE 1.5-m REFLECTOR AND CCD AT PALOMAR BY J. GIBSON.

Coordination with J. G. Williams and with the Minor Planet Center. AGK3 and SAO reference stars, reduction using Palomar Sky Survey prints. Contact: J. Gibson, Jet Propulsion Laboratory, MS 264-700, Pasadena, CA 91109, U.S.A.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
1982 TA	1985 09	23.25069	21 52 32.02	-23 28 58.9		675
1982 TA	1985 09	23.26069	21 52 31.35	-23 29 00.1		675
1982 TA	1985 09	24.30208	21 51 26.31	-23 30 33.3		675
1982 TA	1985 09	24.30950	21 51 25.81	-23 30 37.3		675

OBSERVATIONS MADE AT PALOMAR BY C. S. SHOEMAKER AND E. M. SHOEMAKER.

Four-minute exposures with the 0.46-m Schmidt telescope. Assistance from F. Salazar, L. Salazar, P. Shoemaker and P. Kempchinsky. Film pairs scanned by C. Shoemaker with a stereomicroscope, measured by her with a Mann comparator at the U.S. Geological Survey. Reference stars from the SAO Catalog. Contact: C. S. Shoemaker, P.O. Box 984, Flagstaff, AZ 86002, U.S.A.

Object		Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
3305		1985 05	14.34444	15 16 34.45	-27 34 55.9		675
3306		1985 05	13.43958	15 58 03.63	-16 46 16.8		675
3306		1985 05	14.41458	15 57 11.68	-16 39 56.0		675
3306		1985 05	15.45555	15 56 15.20	-16 33 06.3		675
1985 RU	*	1985 09	15.32204	23 32 41.19	+23 52 23.4	16.5	675
1985 RU		1985 09	15.38055	23 32 36.84	+23 53 00.5		675
1985 RU		1985 09	21.39513	23 25 34.42	+24 48 09.9		675
1985 RY	*	1985 09	15.28541	22 52 16.80	+28 20 44.0	15	675
1985 RY		1985 09	15.31336	22 52 15.26	+28 20 39.5		675
1985 RZ	*	1985 09	15.47813	01 40 30.63	+25 57 24.5	17	675
1985 RZ		1985 09	17.44652	01 39 55.53	+26 18 56.5		675
1985 RZ		1985 09	17.47395	01 39 54.91	+26 19 14.7		675
1985 SE	*	1985 09	16.27604	22 57 26.21	+09 48 48.4	17	675
1985 SE		1985 09	16.30417	22 57 24.36	+09 48 54.7		675
1985 SE		1985 09	21.35295	22 52 28.23	+10 04 15.8		675
1985 SE		1985 09	21.33247	22 52 29.41	+10 04 11.0		675
1985 TB	*	1985 10	14.38297	01 31 10.98	+06 02 56.9	16.5	675
1985 TB		1985 10	14.41163	01 31 06.11	+06 04 04.9		675

OBSERVATIONS MADE WITH THE 0.46-m SCHMIDT AT PALOMAR.

Films taken in the course of the International Near-Earth Asteroid Survey (INAS) by E. F. Helin, S. Singer-Brewster and D. Schneeberger. Measured by Singer-Brewster. Contact: E. Helin, MS 183-501, Jet Propulsion Laboratory, Pasadena, CA 91109, U.S.A.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
1987	1985 09	12.20243	20 39 57.62	-03 55 15.8	14.5	675
1987	1985 09	13.22407	20 39 19.21	-03 43 41.2		675
1985 RR1 *	1985 09	13.27569	22 49 32.65	-04 22 24.3	15	675
1985 RR1	1985 09	13.29838	22 49 30.44	-04 22 03.8		675
1985 RR1	1985 09	14.29977	22 47 47.40	-04 05 38.1		675
1985 RR1	1985 09	14.32396	22 47 44.78	-04 05 12.9		675
1985 RD2 *	1985 09	13.29838	22 50 57.08	-06 06 01.3	15.5	675
1985 RE2 *	1985 09	13.29838	22 52 31.17	-06 00 39.0	15	675
1985 RE2	1985 09	14.32396	22 51 43.60	-06 02 39.6		675
1985 RF2 *	1985 09	13.29838	22 52 45.68	-05 56 54.9	17	675
1985 RF2	1985 09	14.32396	22 51 59.05	-06 04 05.8		675
1985 RG2 *	1985 09	13.29838	22 54 21.94	-05 48 07.9	16.5	675
1985 RG2	1985 09	14.32396	22 53 40.60	-06 01 14.4		675
1985 RH2 *	1985 09	13.29838	22 54 29.60	-06 03 40.3	17	675
1985 RH2	1985 09	14.32396	22 53 43.23	-06 09 01.0		675

OBSERVATIONS MADE WITH THE 1.2-M SCHMIDT AT PALOMAR.

Plates taken by J. Schombert, scanned by E. Helin, measured by M. Rudnyk. Contact: E. Helin, Jet Propulsion Laboratory, MS 183-501, Pasadena, CA 91109, U.S.A.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
922	1985 08	17.28264	21 36 06.12	-01 48 21.9		675
922	1985 08	17.34514	21 36 03.37	-01 48 43.0		675
1189	1985 08	17.28264	21 48 34.13	+00 01 55.3		675
1189	1985 08	17.34514	21 48 30.88	+00 01 51.0		675
1985 QA1 *	1985 08	17.28264	21 47 20.97	-01 48 44.6	15	675
1985 QA1	1985 08	17.34514	21 47 17.76	-01 49 05.2		675
1985 QB1 *	1985 08	17.28264	21 48 50.00	-01 43 54.1	16	675
1985 QB1	1985 08	17.34514	21 48 47.26	-01 44 13.9		675
1985 QC1 *	1985 08	17.28264	21 49 57.39	-01 35 46.7	15	675
1985 QC1	1985 08	17.34514	21 49 54.74	-01 36 12.4		675
1985 QF1 *	1985 08	17.28264	21 47 24.27	-00 10 21.2	16	675
1985 QF1	1985 08	17.34514	21 47 20.61	-00 10 23.4		675
1985 QG1 *	1985 08	17.28264	21 47 30.34	+00 29 18.7	17	675
1985 QG1	1985 08	17.34514	21 47 27.35	+00 28 50.7		675
1985 QH1 *	1985 08	17.28264	21 47 33.29	+00 22 10.8	17	675
1985 QH1	1985 08	17.34514	21 47 29.73	+00 22 09.7		675
1985 QJ1 *	1985 08	17.28264	21 49 12.38	+00 07 09.5	17.5	675
1985 QJ1	1985 08	17.34514	21 49 09.41	+00 06 47.3		675

OBSERVATIONS MADE WITH THE 0.33-M PHOTOGRAPHIC TELESCOPE AT THE LOWELL OBSERVATORY'S ANDERSON MESA STATION.

Observations made by B. A. Skiff and S. J. Bus, measured by Skiff, Bus and E. Bowell using a PDS scanning microdensitometer. See also MPC 9533. Contact: E. Bowell, Lowell Observatory, 1400 W. Mars Hill Road, Flagstaff, AZ 86001, U.S.A.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	N Obs.
5	1985 09	14.29306	00 09 23.41	-04 13 13.8		688
5	1985 09	14.40513	00 09 17.94	-04 13 59.9		688
5	1985 09	18.26042	00 06 11.86	-04 40 44.2		688
5	1985 09	18.30486	00 06 09.62	-04 41 02.4		688
11	1985 08	15.24236	21 42 23.55	-16 25 59.8		688
11	1985 08	15.28819	21 42 21.06	-16 26 19.5		688

30	1985	08	15.22708	20	53	14.73	-16	56	27.3	688
30	1985	08	15.27292	20	53	11.95	-16	56	35.3	688
38	1985	08	15.21181	20	13	37.08	-17	38	33.5	688
38	1985	08	15.25764	20	13	34.84	-17	38	36.1	688
51	1983	09	06.28194	23	35	41.46	-00	43	07.7	688
51	1983	09	06.31250	23	35	39.96	-00	43	24.9	688
51	1983	10	09.12292	23	10	42.13	-05	46	45.6	688
51	1983	10	09.15347	23	10	41.08	-05	46	58.9	688
53	1983	10	09.12292	23	22	24.21	-09	01	10.7	688
53	1983	10	09.15347	23	22	23.00	-09	01	19.8	688
59	1985	09	12.26667	22	52	44.84	-05	50	17.5	688
59	1985	09	12.34612	22	52	41.22	-05	51	00.5	688
114	1985	09	12.24097	21	57	00.47	-11	14	29.0	688
114	1985	09	12.32072	21	56	57.01	-11	14	54.3	688
125	1985	06	22.34028	19	21	21.22	-15	04	28.3	688
125	1985	06	22.37153	19	21	19.81	-15	04	30.8	688
125	1985	06	22.40208	19	21	18.34	-15	04	32.3	688
135	1985	09	14.29306	00	07	17.50	+01	55	38.4	688
135	1985	09	14.40513	00	07	11.38	+01	55	14.4	688
135	1985	09	18.26042	00	03	48.18	+01	40	49.4	688
135	1985	09	18.30486	00	03	45.67	+01	40	39.7	688
136	1985	05	21.29028	15	17	17.65	-05	05	32.4	688
136	1985	05	21.31319	15	17	16.30	-05	05	22.7	688
170	1985	09	14.31875	21	39	43.61	-00	01	43.4	688
171	1985	08	15.24236	21	49	34.57	-15	45	44.1	688
171	1985	08	15.28819	21	49	32.47	-15	45	56.0	688
184	1983	10	11.16944	00	57	02.25	+07	18	42.9	688
184	1983	10	11.20694	00	57	00.55	+07	18	33.6	688
203	1983	10	09.12292	23	21	20.11	-03	06	06.9	688
203	1983	10	09.15347	23	21	18.87	-03	06	12.1	688
214	1983	10	09.12292	23	16	53.06	-03	00	15.0	688
214	1983	10	09.15347	23	16	51.79	-03	00	20.7	688
242	1985	09	14.21597	21	44	32.12	-00	06	49.5	688
242	1985	09	14.31875	21	44	28.47	-00	07	31.2	688
243	1985	09	12.24097	21	41	53.76	-13	33	44.6	688
243	1985	09	12.32072	21	41	50.61	-13	33	58.9	688
251	1983	10	09.12292	23	31	59.05	-09	14	43.6	688
251	1983	10	09.15347	23	31	58.02	-09	14	53.6	688
272	1983	10	11.16944	00	55	46.86	+03	07	21.4	688
272	1983	10	11.20694	00	55	44.88	+03	07	12.7	688
289	1985	09	12.26667	22	45	15.79	-04	08	24.4	688
289	1985	09	12.34612	22	45	12.32	-04	09	03.5	688
315	1985	09	14.29306	23	57	15.15	-01	36	13.1	688
315	1985	09	14.40513	23	57	09.37	-01	37	03.9	688
315	1985	09	18.26042	23	54	01.35	-02	06	38.4	688
315	1985	09	18.30486	23	53	59.02	-02	06	59.0	688
331	1983	10	09.12292	23	25	15.12	-07	48	26.2	688
331	1983	10	09.15347	23	25	13.94	-07	48	28.3	688
421	1985	09	14.27083	23	46	21.15	+02	26	29.5	688
421	1985	09	14.37361	23	46	16.99	+02	25	25.1	688
421	1985	09	18.23819	23	43	51.97	+01	43	07.3	688
421	1985	09	18.28264	23	43	50.17	+01	42	37.4	688
426	1985	08	15.22708	21	04	17.41	-13	40	42.3	688
426	1985	08	15.27292	21	04	14.70	-13	40	40.8	688
453	1985	09	14.29306	00	01	41.60	-02	43	19.6	688
453	1985	09	14.40513	00	01	34.21	-02	43	47.0	688
453	1985	09	18.26042	23	57	26.69	-02	59	30.0	688
453	1985	09	18.30486	23	57	23.73	-02	59	40.8	688
525	1985	09	12.26667	22	38	33.92	-01	31	27.7	688

525	1985	09	12.34612	22	38	29.34	-01	32	07.4		688
533	1983	10	11.16944	00	42	25.22	+02	19	14.5		688
533	1983	10	11.20694	00	42	23.59	+02	19	01.3		688
580	1985	09	14.29306	00	18	51.64	-03	43	35.3		688
580	1985	09	14.40513	00	18	46.92	-03	44	09.3		688
580	1985	09	18.26042	00	16	09.34	-04	03	25.3		688
580	1985	09	18.30486	00	16	07.45	-04	03	38.3		688
603	1985	09	14.27083	23	33	11.89	-00	40	07.8		688
603	1985	09	14.37361	23	33	05.84	-00	40	29.7		688
603	1985	09	18.23819	23	29	28.36	-00	53	58.1		688
603	1985	09	18.28264	23	29	25.75	-00	54	07.7		688
658	1983	10	09.12292	23	08	16.50	-05	19	33.1	16.0	688
658	1983	10	09.15347	23	08	15.43	-05	19	39.5		688
691	1985	05	21.29028	15	04	37.65	-05	20	05.2		688
691	1985	05	21.31319	15	04	36.63	-05	20	05.1		688
708	1983	10	11.16944	00	47	25.64	+07	01	59.3		688
708	1983	10	11.20694	00	47	23.60	+07	01	49.0		688
745	1985	06	22.37153	19	23	57.35	-15	01	20.0		688
745	1985	06	22.40208	19	23	55.93	-15	01	25.6		688
759	1985	08	15.24236	21	40	41.74	-10	12	48.2		688
759	1985	08	15.28819	21	40	38.07	-10	12	24.1		688
778	1985	08	15.22708	20	57	42.75	-20	19	29.5		688
778	1985	08	15.27292	20	57	40.14	-20	19	32.6		688
808	1983	10	11.16944	00	57	15.48	+04	02	08.2		688
808	1983	10	11.20694	00	57	13.60	+04	01	52.5		688
822	1985	09	12.24097	21	44	13.39	-12	34	52.9		688
822	1985	09	12.32072	21	44	09.32	-12	35	14.0		688
830	1985	09	14.27083	23	35	58.82	-01	21	26.5		688
830	1985	09	14.37361	23	35	53.98	-01	21	49.1		688
830	1985	09	18.23819	23	32	59.53	-01	36	04.0		688
830	1985	09	18.28264	23	32	57.48	-01	36	14.4		688
842	1985	09	14.29306	23	59	04.09	-04	36	48.2		688
842	1985	09	14.40513	23	58	57.82	-04	36	50.1		688
842	1985	09	18.26042	23	55	29.74	-04	37	37.9		688
842	1985	09	18.30486	23	55	27.23	-04	37	38.2		688
889	1985	09	12.28924	23	36	06.84	-12	37	49.4		688
889	1985	09	12.36817	23	36	02.77	-12	38	36.4		688
894	1985	09	14.27083	23	35	47.06	+03	30	36.0		688
894	1985	09	14.37361	23	35	42.89	+03	29	42.4		688
894	1985	09	18.23819	23	33	09.21	+02	55	14.3		688
894	1985	09	18.28264	23	33	07.39	+02	54	50.4		688
922	1985	09	14.21597	21	20	06.90	-05	11	43.7		688
922	1985	09	14.31875	21	20	05.08	-05	12	27.5		688
951	1985	09	14.21597	21	45	44.62	-04	41	41.1		688
951	1985	09	14.31875	21	45	40.85	-04	42	12.0		688
991	1983	10	11.16944	00	44	28.80	+02	05	35.2	16.5	688
991	1983	10	11.20694	00	44	27.08	+02	05	26.9		688
1001	1985	06	22.34028	19	25	34.24	-16	16	40.5		688
1001	1985	06	22.37153	19	25	32.96	-16	16	38.5		688
1001	1985	06	22.40208	19	25	31.55	-16	16	36.0		688
1004	1985	08	15.22708	20	58	36.87	-15	46	15.1		688
1004	1985	08	15.27292	20	58	34.94	-15	46	26.1		688
1008	1983	10	11.16944	01	04	18.30	+05	57	11.0	15.8	688
1008	1983	10	11.20694	01	04	16.29	+05	57	07.1		688
1014	1983	09	06.28194	23	36	19.16	+01	01	15.9		688
1014	1983	09	06.31250	23	36	17.72	+01	01	09.3		688
1014	1983	10	09.12292	23	11	34.20	-01	46	52.0		688
1014	1983	10	09.15347	23	11	33.07	-01	46	58.0		688
1046	1985	09	14.29306	23	54	58.97	-04	04	28.1		688

1046	1985	09	14.40513	23	54	53.16	-04	04	46.8	688
1046	1985	09	18.26042	23	51	40.28	-04	15	39.9	15.5 688
1046	1985	09	18.30486	23	51	37.92	-04	15	47.3	688
1068	1985	08	15.24236	21	28	54.86	-14	36	19.3	688
1068	1985	08	15.28819	21	28	52.41	-14	36	26.1	688
1077	1985	09	14.24514	22	12	36.52	-12	04	42.2	688
1077	1985	09	14.34792	22	12	31.67	-12	04	36.6	688
1156	1983	10	09.12292	23	07	19.09	-08	13	44.8	688
1156	1983	10	09.15347	23	07	17.81	-08	13	52.4	688
1189	1985	09	14.21597	21	27	42.90	-01	15	13.8	688
1189	1985	09	14.31875	21	27	39.42	-01	15	35.4	688
1190	1983	10	09.12292	23	14	08.97	-07	36	55.8	688
1190	1983	10	09.15347	23	14	07.53	-07	36	59.6	688
1202	1985	08	15.22708	21	15	11.19	-20	56	03.1	688
1202	1985	08	15.27292	21	15	09.26	-20	56	12.2	688
1209	1985	09	14.24514	22	36	58.39	-19	11	50.3	688
1211	1985	06	22.34028	19	33	12.23	-12	52	03.9	688
1211	1985	06	22.37153	19	33	11.00	-12	52	10.0	688
1211	1985	06	22.40208	19	33	09.83	-12	52	18.4	688
1321	1985	08	15.21181	20	28	35.49	-20	51	04.5	688
1321	1985	08	15.25764	20	28	33.14	-20	50	58.9	688
1332	1985	09	14.24514	22	21	26.76	-12	36	18.8	688
1332	1985	09	14.34792	22	21	22.37	-12	36	35.0	688
1434	1985	09	14.29306	00	17	58.25	-05	52	46.7	688
1434	1985	09	14.40513	00	17	53.75	-05	53	41.1	688
1435	1983	10	11.16944	00	51	45.02	+04	47	33.1	16.8 688
1435	1983	10	11.20694	00	51	43.00	+04	47	15.8	688
1454	1985	09	14.29306	00	05	33.96	+01	27	19.5	688
1454	1985	09	14.40513	00	05	27.37	+01	26	54.0	688
1454	1985	09	18.26042	00	01	45.22	+01	11	34.7	688
1454	1985	09	18.30486	00	01	42.40	+01	11	22.6	688
1462	1985	09	12.24097	21	35	47.66	-15	29	45.0	688
1462	1985	09	12.32072	21	35	44.92	-15	29	54.8	688
1555	1985	08	15.24236	21	51	56.90	-11	38	53.1	688
1555	1985	08	15.28819	21	51	54.24	-11	38	52.5	688
1605	1985	09	14.27083	23	28	10.82	-02	47	49.0	688
1605	1985	09	14.37361	23	28	06.36	-02	48	37.3	688
1605	1985	09	18.23819	23	25	25.59	-03	18	37.8	688
1605	1985	09	18.28264	23	25	23.71	-03	18	59.0	688
1614	1985	09	12.28924	23	38	38.03	-06	02	16.6	16.5 688
1614	1985	09	12.36817	23	38	34.31	-06	02	57.0	688
1636	1985	09	14.29306	23	55	00.58	-01	38	50.9	688
1636	1985	09	14.40513	23	54	54.68	-01	39	50.3	688
1636	1985	09	18.26042	23	51	40.87	-02	14	37.5	688
1636	1985	09	18.30486	23	51	38.39	-02	15	02.7	688
1648	1985	08	15.24236	21	41	32.08	-15	58	23.9	688
1648	1985	08	15.28819	21	41	29.44	-15	58	47.4	688
1673	1985	06	22.34028	19	26	32.39	-17	01	53.4	688
1673	1985	06	22.37153	19	26	30.89	-17	01	54.7	688
1673	1985	06	22.40208	19	26	29.81	-17	01	55.5	688
1733	1985	09	14.29306	00	20	03.41	-00	43	03.7	688
1733	1985	09	14.40513	00	19	57.58	-00	43	58.2	688
1733	1985	09	18.30486	00	16	36.14	-01	16	52.2	688
1749	1985	09	14.27083	23	47	30.68	+00	51	49.9	688
1749	1985	09	14.37361	23	47	27.72	+00	51	34.2	688
1749	1985	09	18.23819	23	45	32.31	+00	41	51.4	17.2 688
1749	1985	09	18.28264	23	45	30.83	+00	41	46.2	688
1754	1985	09	12.26667	22	52	14.29	-07	28	54.7	688
1754	1985	09	12.34612	22	52	11.36	-07	29	23.2	688

1761	1983	10	11.16944	00	44	36.36	+01	21	09.8		688
1761	1983	10	11.20694	00	44	34.42	+01	20	58.8		688
1790	1985	09	14.27083	23	38	08.54	-03	53	14.5		688
1790	1985	09	14.37361	23	38	01.92	-03	53	41.3		688
1790	1985	09	18.23819	23	34	01.62	-04	10	11.6		688
1790	1985	09	18.28264	23	33	58.74	-04	10	24.0		688
1805	1983	10	09.12292	23	22	14.15	-07	45	29.3		688
1805	1983	10	09.15347	23	22	13.10	-07	45	33.3		688
1841	1983	10	09.15347	23	20	20.90	-07	11	09.7		688
1846	1985	09	14.29306	23	57	06.78	-02	44	45.5	1	688
1846	1985	09	14.40513	23	56	59.92	-02	45	17.7		688
1846	1985	09	18.26042	23	53	16.93	-03	03	55.0		688
1846	1985	09	18.30486	23	53	14.13	-03	04	07.8		688
1860	1985	09	14.24514	22	37	10.05	-18	25	43.4		688
1860	1985	09	14.34792	22	37	05.93	-18	26	28.5		688
2051	1985	09	12.24097	21	38	29.34	-12	09	37.1		688
2051	1985	09	12.32072	21	38	26.44	-12	09	55.4		688
2066	1983	10	11.16944	00	58	25.73	-00	09	03.3		688
2066	1983	10	11.20694	00	58	23.58	-00	09	13.2		688
2073	1985	09	14.24514	22	31	31.99	-14	03	30.4		688
2073	1985	09	14.34792	22	31	26.97	-14	03	54.5		688
2084	1985	09	14.29306	00	07	02.67	-03	40	13.7		688
2084	1985	09	14.40513	00	06	57.09	-03	41	09.5		688
2084	1985	09	18.26042	00	03	52.46	-04	13	18.6		688
2084	1985	09	18.30486	00	03	50.12	-04	13	41.7		688
2093	1985	09	12.24097	21	55	36.76	-13	12	41.8		688
2093	1985	09	12.32072	21	55	33.79	-13	13	15.5		688
2142	1985	09	12.26667	22	39	48.49	-08	34	23.7	1	688
2142	1985	09	12.34612	22	39	44.87	-08	34	43.9		688
2177	1983	10	11.16944	00	58	45.30	+04	48	20.3		688
2177	1983	10	11.20694	00	58	43.44	+04	48	10.7		688
2188	1985	09	12.24097	21	47	04.76	-14	22	43.7		688
2188	1985	09	12.32072	21	47	01.83	-14	23	03.3		688
2199	1985	08	15.21181	20	27	37.92	-15	13	18.8		688
2199	1985	08	15.25764	20	27	36.11	-15	13	49.5		688
2227	1985	09	14.27083	23	33	20.65	-01	43	46.0		688
2227	1985	09	14.37361	23	33	14.79	-01	44	43.0		688
2227	1985	09	18.23819	23	29	47.58	-02	20	32.8	16.2	688
2227	1985	09	18.28264	23	29	45.00	-02	20	57.6		688
2233	1985	09	12.24097	21	38	11.19	-07	45	47.5		688
2233	1985	09	12.32072	21	38	07.87	-07	46	10.8		688
2233	1985	09	14.21597	21	36	53.68	-07	55	15.7		688
2233	1985	09	14.31875	21	36	49.59	-07	55	45.6		688
2242	1985	09	14.27083	23	34	58.64	-01	55	20.3		688
2242	1985	09	14.37361	23	34	52.08	-01	55	50.2		688
2242	1985	09	18.23819	23	30	56.05	-02	14	45.5	16.8	688
2242	1985	09	18.28264	23	30	53.38	-02	14	59.1		688
2274	1985	09	18.26042	00	05	33.42	+01	19	57.2	17.5	688
2274	1985	09	18.30486	00	05	30.85	+01	19	44.3		688
2410	1985	06	22.34028	19	10	52.64	-20	27	48.9		688
2410	1985	06	22.37153	19	10	50.74	-20	27	52.3		688
2410	1985	06	22.40208	19	10	48.84	-20	27	57.4		688
2447	1985	08	15.22708	21	02	00.22	-14	06	50.5		688
2447	1985	08	15.27292	21	01	58.03	-14	07	22.0		688
2468	1983	09	06.31250	23	17	00.26	+04	40	49.2		688
2492	1983	10	09.12292	23	21	07.10	-04	43	06.1		688
2492	1983	10	09.15347	23	21	06.02	-04	43	12.7		688
2497	1985	08	15.22708	21	04	20.55	-14	14	38.8		688
2529	1985	09	12.26667	22	35	09.71	-03	09	43.2		688

2529		1985	09	12.34612	22	35	05.97	-03	10	16.3	688
2563		1985	09	14.29306	00	01	25.27	-02	35	07.0	688
2563		1985	09	14.40513	00	01	20.36	-02	35	40.4	688
2563		1985	09	18.26042	23	58	41.75	-02	53	59.6	688
2563		1985	09	18.30486	23	58	39.78	-02	54	13.0	688
2592		1985	09	14.27083	23	28	30.66	-02	17	21.6	688
2592		1985	09	14.37361	23	28	25.88	-02	17	51.8	688
2592		1985	09	18.23819	23	25	39.40	-02	36	54.9	17.0 688
2592		1985	09	18.28264	23	25	37.40	-02	37	06.6	688
2597		1985	08	15.22708	21	15	33.79	-16	28	50.3	688
2597		1985	08	15.27292	21	15	31.65	-16	29	00.1	688
2624		1985	08	15.24236	21	40	32.39	-12	36	15.1	688
2624		1985	08	15.28819	21	40	30.54	-12	36	25.4	688
2626		1983	10	09.12292	23	20	52.47	-04	07	38.0	688
2626		1983	10	09.15347	23	20	51.44	-04	07	44.1	688
2630		1985	09	14.24514	22	11	32.53	-12	32	34.5	688
2630		1985	09	14.34792	22	11	28.43	-12	32	51.1	688
2709		1983	09	06.28194	23	30	10.00	+01	41	34.0	688
2709		1983	09	06.31250	23	30	08.16	+01	41	24.2	688
2715		1983	10	11.16944	00	45	48.43	+06	13	35.5	688
2746		1985	06	22.34028	19	16	26.80	-15	40	56.2	688
2746		1985	06	22.37153	19	16	24.74	-15	40	58.1	688
2839		1985	09	12.28924	23	34	02.54	-11	20	06.9	688
2907		1985	09	12.24097	21	53	48.41	-07	53	28.8	688
2907		1985	09	12.32072	21	53	45.61	-07	54	04.0	688
2919		1983	10	11.16944	00	54	59.60	+04	39	58.2	17.0 688
2919		1983	10	11.20694	00	54	57.83	+04	39	47.2	688
2960		1985	09	14.24514	22	31	31.05	-13	36	39.9	688
2960		1985	09	14.34792	22	31	25.43	-13	37	21.3	688
2963		1983	10	11.16944	00	50	59.91	+02	54	26.9	17.0 688
2963		1983	10	11.20694	00	50	57.87	+02	54	15.4	688
2980		1983	10	09.12292	23	20	26.81	-06	00	32.1	688
2980		1983	10	09.15347	23	20	25.85	-06	00	43.2	688
3031		1985	09	12.26667	22	35	15.35	-05	27	41.4	17.0 688
3031		1985	09	12.34612	22	35	10.62	-05	28	01.3	688
3035		1985	09	12.24097	21	37	19.50	-12	15	58.0	688
3035		1985	09	12.32072	21	37	16.49	-12	16	18.8	688
3067		1985	09	12.26667	22	40	46.48	-09	27	21.4	688
3067		1985	09	12.34612	22	40	41.26	-09	27	36.2	688
3111		1985	08	15.24236	21	47	32.44	-16	29	47.8	688
3111		1985	08	15.28819	21	47	29.66	-16	30	06.2	688
3121		1985	06	22.34028	19	29	57.12	-17	07	01.4	688
3121		1985	06	22.37153	19	29	55.62	-17	07	09.8	688
3124		1985	09	12.24097	21	53	21.95	-11	51	46.1	688
3124		1985	09	12.32072	21	53	18.94	-11	52	16.8	688
3188		1985	08	15.24236	21	28	32.28	-17	35	10.2	16.8 688
3188		1985	08	15.28819	21	28	29.30	-17	35	13.1	688
3287		1985	05	21.29028	15	24	53.35	-08	54	19.6	17.0 688
3287		1985	05	21.31319	15	24	51.82	-08	54	00.3	688
1931	TJ1	1985	09	12.26667	22	53	56.76	-08	41	10.6	17.0 688
1931	TJ1	1985	09	12.34612	22	53	51.98	-08	41	42.6	688
1934	CU	1985	09	14.24514	22	20	32.81	-14	04	12.0	17.0 688
1934	CU	1985	09	14.34792	22	20	27.52	-14	04	57.5	688
1940	EF	1985	09	14.29306	23	58	45.75	-05	30	45.1	17.2 688
1940	EF	1985	09	14.40513	23	58	40.19	-05	31	23.9	688
1940	EF	1985	09	18.26042	23	55	39.66	-05	52	00.8	17.0 688
1940	EF	1985	09	18.30486	23	55	37.42	-05	52	17.6	688
1941	UL	1985	08	15.24236	21	45	33.67	-17	00	35.2	16.2 688
1941	UL	1985	08	15.28819	21	45	31.37	-17	00	47.6	688

1948	RD		1985	09	14.29306	00	07	44.17	+00	27	52.3	15.5	688
1948	RD		1985	09	14.40513	00	07	37.22	+00	27	52.4		688
1948	RD		1985	09	18.26042	00	03	47.23	+00	27	40.9	15.0	688
1948	RD		1985	09	18.30486	00	03	44.28	+00	27	40.8		688
1971	UX		1985	09	14.27083	23	34	24.90	-00	54	28.0	16.8	688
1971	UX		1985	09	14.37361	23	34	19.38	-00	55	03.4		688
1971	UX		1985	09	18.23819	23	31	08.33	-01	16	45.1	16.8	688
1971	UX		1985	09	18.28264	23	31	05.93	-01	17	01.2		688
1971	UG1		1985	08	22.35208	00	13	45.94	+01	54	10.1	17.2	688
1971	UG1		1985	08	22.43264	00	13	44.03	+01	53	54.1		688
1971	UG1		1985	09	14.29306	00	00	13.97	+00	08	49.5	17.0	688
1971	UG1		1985	09	14.40513	00	00	09.10	+00	08	11.3		688
1971	UG1		1985	09	18.26042	23	57	13.47	-00	14	03.9	16.8	688
1971	UG1		1985	09	18.30486	23	57	11.25	-00	14	19.3		688
1972	RT3		1985	09	14.24514	22	25	20.22	-14	53	21.9	16.5	688
1972	RT3		1985	09	14.34792	22	25	16.05	-14	53	49.5		688
1974	ST		1985	08	15.24236	21	36	08.88	-16	48	42.4	16.0	688
1974	ST		1985	08	15.28819	21	36	06.77	-16	48	54.8		688
1975	TZ2		1983	10	09.12292	23	30	07.11	-08	14	15.8	16.5	688
1975	TZ2		1983	10	09.15347	23	30	06.13	-08	14	30.3		688
1976	GJ2		1985	05	21.29028	15	10	17.90	-07	45	15.2	16.5	688
1976	GJ2		1985	05	21.31319	15	10	16.80	-07	45	00.6		688
1981	EX19		1985	09	12.26667	22	44	09.48	-06	31	32.1	16.8	688
1981	EX19		1985	09	12.34612	22	44	05.72	-06	31	57.8		688
1982	BD3		1985	09	14.29306	23	54	59.06	-05	36	16.4	17.2	688
1982	BD3		1985	09	18.26042	23	52	13.78	-06	00	44.4	17.8	688
1982	BD3		1985	09	18.30486	23	52	11.88	-06	01	01.2		688
1982	TR		1985	09	14.27083	23	34	56.69	+01	47	00.0	16.8	688
1982	TR		1985	09	14.37361	23	34	50.05	+01	46	34.8		688
1982	TR		1985	09	18.23819	23	30	51.03	+01	29	57.7	16.8	688
1982	TR		1985	09	18.28264	23	30	48.26	+01	29	46.5	16.8	688
1982	UP		1985	09	12.32072	21	42	36.82	-10	04	59.2	17.5	688
1983	AG2		1985	09	12.24097	21	45	34.57	-09	42	06.2	17.2	688
1983	AG2		1985	09	12.32072	21	45	28.19	-09	41	46.8		688
1983	AT2		1985	09	14.29306	00	08	43.67	-03	31	38.9	16.8	688
1983	AT2		1985	09	14.40513	00	08	36.90	-03	32	01.0		688
1983	AT2		1985	09	18.26042	00	04	54.27	-03	44	14.6	17.0	688
1983	AT2		1985	09	18.30486	00	04	51.55	-03	44	23.2		688
1983	BN		1985	09	12.28924	23	59	03.17	-10	13	40.3	16.8	688
1983	RV1		1983	09	06.28194	23	16	28.53	-00	07	15.6	16.8	688
1983	RV1		1983	09	06.31250	23	16	26.95	-00	07	33.4		688
1983	RE4		1983	10	09.12292	23	13	55.10	-08	05	24.7	17.0	688
1983	RE4		1983	10	09.15347	23	13	54.09	-08	05	38.3		688
1983	TR2		1983	10	11.16944	00	55	54.41	+02	45	58.0	16.5	688
1983	TR2		1983	10	11.20694	00	55	52.06	+02	45	59.3		688
1983	TS2		1983	10	11.16944	00	57	48.41	+05	15	07.0	16.8	688
1983	TS2		1983	10	11.20694	00	57	46.23	+05	14	49.6		688
1984	CW		1985	09	12.32072	21	42	44.21	-10	38	15.0	16.8	688
1984	EM		1985	09	14.27083	23	40	16.89	-02	29	53.8	17.0	688
1984	EM		1985	09	14.37361	23	40	10.87	-02	30	37.7		688
1984	EM		1985	09	18.23819	23	36	33.91	-02	59	34.8	17.0	688
1984	EM		1985	09	18.28264	23	36	31.20	-02	59	56.2		688
1985	GX1	*	1985	04	14.25926	13	59	40.23	-11	43	59.7	17.0	4 688
1985	GX1		1985	04	14.34641	13	59	34.49	-11	44	00.4		688
1985	JF		1985	05	21.29028	15	07	55.34	-04	27	04.8	17.0	688
1985	JF		1985	05	21.31319	15	07	54.37	-04	26	57.4		688
1985	JG		1985	05	21.29028	15	06	07.02	-09	43	19.0	16.5	688
1985	JG		1985	05	21.31319	15	06	05.36	-09	43	27.7		688
1985	JJ		1985	05	21.31319	15	12	06.90	-06	09	14.4	17.0	688

1985	JK	1985	05	21.31319	15	11	37.91	-08	44	19.5	17.2	688
1985	JL	1985	05	21.29028	15	18	16.85	-11	29	16.7	16.8	688
1985	JL	1985	05	21.31319	15	18	15.41	-11	29	18.9		688
1985	JM	1985	05	21.29028	15	18	33.75	-10	03	49.5	17.0	3 688
1985	JM	1985	05	21.31319	15	18	32.35	-10	03	35.5		688
1985	PB	1985	09	12.24097	21	36	34.60	-14	27	08.6	16.8	688
1985	PB	1985	09	12.32072	21	36	31.40	-14	27	39.9		688
1985	PC	1985	09	12.24097	21	37	07.27	-11	10	52.6	17.2	688
1985	PC	1985	09	12.32072	21	37	04.87	-11	11	18.7		688
1985	PE	1985	09	12.24097	21	45	31.88	-12	58	59.0	17.2	688
1985	PE	1985	09	12.32072	21	45	29.44	-12	59	38.9		688
1985	PF	1985	09	12.32072	21	46	55.12	-14	14	25.0	17.0	688
1985	PG	1985	09	12.24097	21	44	13.16	-10	48	29.5	17.2	688
1985	PG	1985	09	12.32072	21	44	10.66	-10	49	11.3		688
1985	PH	1985	09	14.31875	21	34	41.65	-06	07	32.8	17.0	688
1985	PK	1985	09	12.24097	21	46	39.85	-11	25	35.7	17.5	688
1985	PK	1985	09	12.32072	21	46	36.46	-11	25	36.3		688
1985	PL	1985	09	14.21597	21	41	33.58	-05	39	57.5	16.8	688
1985	PL	1985	09	14.31875	21	41	28.91	-05	39	33.4		688
1985	PM	1985	09	12.32072	21	51	30.90	-12	16	16.2	16.8	688
1985	PO	1985	09	12.32072	21	56	59.17	-13	49	57.0	17.2	688
1985	PP	1985	09	12.24097	21	57	19.90	-15	14	11.1	17.2	688
1985	PP	1985	09	12.32072	21	57	16.30	-15	14	42.6		688
1985	PS	1985	09	14.24514	22	25	40.37	-14	10	40.5	17.0	688
1985	PS	1985	09	14.34792	22	25	37.67	-14	11	44.5		688
1985	PT	1985	09	14.24514	22	23	01.08	-19	19	37.9	16.8	688
1985	PW	1985	09	14.24514	22	28	57.71	-12	04	59.5	16.8	688
1985	PW	1985	09	14.34792	22	28	53.50	-12	05	20.5		688
1985	PX	1985	09	14.24514	22	27	50.28	-12	43	07.8	17.2	688
1985	PX	1985	09	14.34792	22	27	45.99	-12	43	52.6		688
1985	PZ	1985	09	14.24514	22	30	19.74	-12	56	34.8	17.0	688
1985	PZ	1985	09	14.34792	22	30	14.72	-12	57	21.4		688
1985	PA1	1985	09	12.26667	22	39	54.29	-07	28	30.2	17.0	688
1985	PA1	1985	09	12.34612	22	39	51.18	-07	29	26.3		688
1985	PB1	1985	09	12.26667	22	34	34.67	-02	02	18.2	16.8	688
1985	PB1	1985	09	12.34612	22	34	30.95	-02	03	01.6		688
1985	PD1	1985	09	12.26667	22	40	51.64	-03	33	13.2	17.0	688
1985	PD1	1985	09	12.34612	22	40	46.77	-03	33	22.2		688
1985	PE1	1985	09	14.27083	23	30	14.01	+02	33	31.8	16.5	688
1985	PE1	1985	09	14.37361	23	30	08.07	+02	33	11.8		688
1985	PE1	1985	09	18.23819	23	26	42.87	+02	20	09.2	16.5	688
1985	PE1	1985	09	18.28264	23	26	40.32	+02	19	59.6		688
1985	PF1	1985	09	14.27083	23	34	59.17	-02	05	49.0	16.5	688
1985	PF1	1985	09	14.37361	23	34	53.95	-02	06	33.5		688
1985	PF1	1985	09	18.23819	23	31	56.86	-02	34	26.6	16.8	688
1985	PF1	1985	09	18.28264	23	31	54.53	-02	34	46.1		688
1985	PG1	1985	09	14.27083	23	50	41.26	+03	26	00.2	16.8	688
1985	PG1	1985	09	14.37361	23	50	36.87	+03	25	10.2		688
1985	PG1	1985	09	18.23819	23	47	59.89	+02	53	18.9	16.8	688
1985	PG1	1985	09	18.28264	23	47	58.16	+02	52	56.1		688
1985	QA	1985	09	12.24097	21	58	30.38	-09	50	12.9	17.5	2 688
1985	QA	1985	09	12.32072	21	58	28.09	-09	51	02.0		688
1985	QB	1985	09	14.24514	22	12	56.04	-18	45	30.9	17.0	688
1985	QB	1985	09	14.34792	22	12	52.35	-18	46	25.2		688
1985	QD	1985	09	12.26667	22	55	59.00	-05	18	51.1	16.5	688
1985	QD	1985	09	12.34612	22	55	53.92	-05	19	05.4		688
1985	QG	1985	09	12.28924	23	43	24.41	-10	40	43.5	17.0	688
1985	QG	1985	09	12.36817	23	43	20.28	-10	41	25.7		688
1985	QH	1985	09	12.28924	23	41	18.83	-11	28	33.5	16.2	688

1985	QH		1985	09	12.36817	23	41	13.79	-11	28	51.7		688
1985	QJ		1985	09	12.28924	23	49	47.77	-13	13	15.9	16.8	688
1985	QJ		1985	09	12.36817	23	49	44.09	-13	13	48.7	1	688
1985	QK		1985	09	12.28924	23	47	45.44	-08	52	27.3	16.8	688
1985	QK		1985	09	12.36817	23	47	40.39	-08	52	36.2		688
1985	QL		1985	09	12.28924	23	50	58.44	-10	14	27.1	16.5	688
1985	QN		1985	09	14.27083	23	53	53.19	-04	02	03.1	16.8	688
1985	QN		1985	09	14.29306	23	53	52.42	-04	02	13.4	16.8	688
1985	QN		1985	09	14.37361	23	53	48.11	-04	02	40.4		688
1985	QN		1985	09	14.40513	23	53	46.77	-04	02	53.0		688
1985	QN		1985	09	18.23819	23	50	45.33	-04	25	40.5	16.8	688
1985	QN		1985	09	18.26042	23	50	44.41	-04	25	52.3	16.8	688
1985	QN		1985	09	18.28264	23	50	43.13	-04	25	55.8		688
1985	QN		1985	09	18.30486	23	50	42.20	-04	26	08.5		688
1985	QO		1985	09	14.29306	00	02	13.09	+01	28	14.4	16.8	688
1985	QO		1985	09	14.40513	00	02	09.06	+01	27	38.6		688
1985	QO		1985	09	18.26042	23	59	53.52	+01	07	07.9	16.8	688
1985	QO		1985	09	18.30486	23	59	51.85	+01	06	52.7		688
1985	QP		1985	09	14.29306	00	06	01.74	+00	25	37.0	17.0	688
1985	QP		1985	09	14.40513	00	05	55.52	+00	25	22.0		688
1985	QP		1985	09	18.26042	00	02	25.26	+00	16	20.7	17.0	688
1985	QP		1985	09	18.30486	00	02	22.63	+00	16	14.5		688
1985	QQ		1985	09	14.29306	00	11	43.27	-02	59	08.9	16.2	688
1985	QQ		1985	09	14.40513	00	11	36.19	-02	59	21.9		688
1985	QQ		1985	09	18.26042	00	07	38.90	-03	06	44.3	16.2	688
1985	QQ		1985	09	18.30486	00	07	35.88	-03	06	49.3		688
1985	QR		1985	09	14.29306	00	19	14.76	-04	38	57.0	1	688
1985	QR		1985	09	14.40513	00	19	10.60	-04	39	49.9	1	688
1985	QR		1985	09	18.26042	00	16	39.46	-05	11	18.0	17.0	688
1985	QR		1985	09	18.30486	00	16	37.58	-05	11	42.6		688
1985	QS		1985	09	14.29306	00	17	23.95	-02	09	24.9	16.2	688
1985	QS		1985	09	14.40513	00	17	17.25	-02	09	37.2		688
1985	QS		1985	09	18.26042	00	13	32.24	-02	16	05.7	16.2	688
1985	QS		1985	09	18.30486	00	13	29.34	-02	16	09.8		688
1985	QT		1985	09	14.29306	00	16	17.49	-00	45	32.1	16.2	688
1985	QT		1985	09	14.40513	00	16	11.50	-00	45	30.2		688
1985	QT		1985	09	18.26042	00	12	48.75	-00	44	23.4	16.2	688
1985	QT		1985	09	18.30486	00	12	46.22	-00	44	22.6		688
1985	QE1	*	1985	08	22.32292	23	53	38.14	-08	38	03.5	17.2 4	688
1985	QE1		1985	08	22.40347	23	53	34.36	-08	38	05.2		688
1985	QE1		1985	09	12.28924	23	38	48.37	-10	08	44.5	16.5	688
1985	QE1		1985	09	12.36817	23	38	44.00	-10	09	04.2		688
1985	RD		1985	09	14.29306	00	08	41.18	+00	52	18.8	17.5	688
1985	RD		1985	09	14.40513	00	08	36.00	+00	51	48.7		688
1985	RD		1985	09	18.26042	00	05	39.57	+00	35	13.2	17.0	688
1985	RD		1985	09	18.30486	00	05	37.36	+00	35	00.6		688
1985	RG	*	1985	09	14.27083	23	33	29.32	-03	35	11.0	17.5 4	688
1985	RG		1985	09	14.37361	23	33	23.70	-03	35	38.4		688
1985	RG		1985	09	18.23819	23	30	07.22	-03	53	24.1	17.2	688
1985	RG		1985	09	18.28264	23	30	05.05	-03	53	37.0		688
1985	RH	*	1985	09	14.27083	23	33	32.88	-02	04	03.6	17.2 4	688
1985	RH		1985	09	14.37361	23	33	26.05	-02	04	11.3		688
1985	RH		1985	09	18.23819	23	29	25.26	-02	08	16.7	17.0	688
1985	RH		1985	09	18.28264	23	29	22.50	-02	08	20.3		688
1985	RJ		1985	08	15.31111	23	52	54.91	+07	23	01.7	17.5	688
1985	RJ		1985	08	15.38542	23	52	53.81	+07	22	26.4		688
1985	RJ	*	1985	09	14.27083	23	39	08.75	+01	43	33.0	17.2 4	688
1985	RJ		1985	09	14.37361	23	39	04.34	+01	42	02.3	2	688
1985	RJ		1985	09	18.23819	23	36	33.88	+00	48	23.6	17.5	688

1985	RJ		1985	09	18.28264	23	36	32.04	+00	47	47.1	1	688
1985	RK		1985	08	15.31111	00	01	30.61	+01	22	51.5	17.2	688
1985	RK		1985	08	15.38542	00	01	29.01	+01	23	04.2		688
1985	RK	*	1985	09	14.27083	23	39	28.99	+01	33	17.4	16.8 4	688
1985	RK		1985	09	14.37361	23	39	22.64	+01	33	08.6	1	688
1985	RK		1985	09	18.23819	23	35	26.90	+01	26	47.8	16.8	688
1985	RK		1985	09	18.28264	23	35	24.19	+01	26	42.8		688
1985	RL	*	1985	09	14.27083	23	41	38.26	-04	20	06.9	16.5 4	688
1985	RL		1985	09	14.37361	23	41	33.27	-04	20	44.7		688
1985	RL		1985	09	18.23819	23	38	35.46	-04	43	36.0	16.8	688
1985	RL		1985	09	18.28264	23	38	33.30	-04	43	51.2		688
1985	RM		1985	08	15.31111	00	02	45.55	+03	06	20.3	17.5	688
1985	RM		1985	08	15.38542	00	02	44.09	+03	06	05.8		688
1985	RM	*	1985	09	14.27083	23	47	35.01	+00	54	25.5	17.0 4	688
1985	RM		1985	09	14.37361	23	47	30.75	+00	53	48.6		688
1985	RM		1985	09	18.23819	23	44	56.74	+00	31	18.0	17.0	688
1985	RM		1985	09	18.28264	23	44	54.83	+00	30	59.7		688
1985	RN		1985	08	15.31111	23	59	30.38	+03	38	54.5	17.5	688
1985	RN		1985	08	15.38542	23	59	30.43	+03	38	45.6		688
1985	RN	*	1985	09	14.27083	23	48	01.57	+00	51	31.7	16.8 4	688
1985	RN		1985	09	14.37361	23	47	56.86	+00	50	39.3		688
1985	RN		1985	09	18.23819	23	45	16.32	+00	17	12.8	17.0	688
1985	RN		1985	09	18.28264	23	45	14.04	+00	16	49.7		688
1985	RO	*	1985	09	14.27083	23	51	08.09	-04	08	37.7	16.8 4	688
1985	RO		1985	09	14.37361	23	51	02.61	-04	09	01.1		688
1985	RO		1985	09	18.23819	23	47	47.91	-04	23	26.3	16.8	688
1985	RO		1985	09	18.28264	23	47	45.60	-04	23	35.5		688
1985	RP		1985	08	22.35208	00	09	16.78	+01	22	52.1	17.2	688
1985	RP		1985	08	22.43264	00	09	16.42	+01	22	16.4		688
1985	RP	*	1985	09	14.29306	00	01	40.81	-02	37	22.6	16.8 4	688
1985	RP		1985	09	14.40513	00	01	36.25	-02	38	50.7		688
1985	RP		1985	09	18.26042	23	59	15.31	-03	28	40.4	16.8	688
1985	RP		1985	09	18.30486	23	59	13.41	-03	29	15.6		688
1985	RQ	*	1985	09	14.29306	00	11	05.87	-04	57	04.9	17.0 4	688
1985	RQ		1985	09	14.40513	00	10	59.93	-04	56	55.7		688
1985	RQ		1985	09	18.26042	00	07	43.55	-04	51	39.2	17.0	688
1985	RQ		1985	09	18.30486	00	07	41.02	-04	51	36.1		688
1985	RR		1985	08	22.35208	00	21	16.69	-01	01	03.0	16.8	688
1985	RR		1985	08	22.43264	00	21	16.27	-01	01	11.7		688
1985	RR	*	1985	09	14.29306	00	12	26.99	-02	22	46.8	16.5 4	688
1985	RR		1985	09	14.40513	00	12	21.89	-02	23	20.1		688
1985	RR		1985	09	18.26042	00	09	38.54	-02	42	09.6	16.2	688
1985	RR		1985	09	18.30486	00	09	36.38	-02	42	22.8		688
1985	RS	*	1985	09	14.29306	23	57	03.94	-01	26	24.1	17.2 4	688
1985	RS		1985	09	14.40513	23	56	57.63	-01	26	41.0		688
1985	RS		1985	09	18.26042	23	53	20.45	-01	35	58.7	17.2 1	688
1985	RS		1985	09	18.30486	23	53	17.87	-01	36	03.6		688
1985	RT		1985	08	22.35208	00	11	56.31	+00	22	14.5	17.5 1	688
1985	RT		1985	08	22.43264	00	11	54.98	+00	22	18.1		688
1985	RT	*	1985	09	14.29306	23	57	46.40	+00	02	39.8	17.5 4	688
1985	RT		1985	09	14.40513	23	57	39.69	+00	02	22.1		688
1985	RT		1985	09	18.26042	23	54	09.71	-00	06	54.8	17.0	688
1985	RT		1985	09	18.30486	23	54	07.01	-00	07	03.0		688
1985	RH1		1985	08	20.28542	23	03	40.16	-00	52	51.2	16.8	688
1985	RH1		1985	08	20.38160	23	03	35.06	-00	52	51.6		688
1985	RH1		1985	09	12.26667	22	41	13.24	-01	34	48.8	17.0	688
1985	RH1		1985	09	12.34612	22	41	08.10	-01	35	02.5		688
1985	RV1	*	1985	09	12.24097	21	34	56.65	-11	39	51.6	17.0 4	688
1985	RV1		1985	09	12.32072	21	34	54.24	-11	40	04.7		688

1985	RW1	*	1985	09	12.24097	21 55 10.81	-15 33 26.2		17.0	4	688
1985	RW1		1985	09	12.32072	21 55 07.40	-15 33 58.2				688
1985	RX1	*	1985	09	12.28924	23 34 08.43	-08 47 41.6		17.0	4	688
1985	RX1		1985	09	12.36817	23 34 03.84	-08 47 42.6				688
1985	RY1	*	1985	09	12.28924	23 36 25.08	-11 41 51.3		17.2	4	688
1985	RY1		1985	09	12.36817	23 36 20.02	-11 42 19.5				688
1985	RZ1	*	1985	09	12.28924	23 37 25.51	-06 20 25.9		16.2	4	688
1985	RZ1		1985	09	12.36817	23 37 21.14	-06 20 40.9				688
1985	RA2	*	1985	09	12.28924	23 43 59.32	-14 09 32.0		16.2	4	688
1985	RA2		1985	09	12.36817	23 43 54.74	-14 10 09.6				688
1985	RB2	*	1985	09	12.28924	23 57 18.28	-07 53 37.3		16.8	4	688
1985	RB2		1985	09	12.36817	23 57 13.70	-07 53 57.6				688
1985	RC2	*	1985	09	14.21597	21 33 27.28	-06 58 29.8		17.0	4	688
1985	RC2		1985	09	14.31875	21 33 23.84	-06 58 49.9				688
1985	SC	*	1985	09	18.26042	00 12 35.90	-06 17 32.9		16.8	4	688
1985	SC		1985	09	18.30486	00 12 33.26	-06 17 40.4			3	688
1985	TB		1985	10	20.28125	01 13 37.82	+10 13 44.3		15.5		688
1985	TB		1985	10	20.33264	01 13 27.46	+10 16 04.9				688
1985	TD	*	1985	10	15.17708	00 16 08.94	+00 11 02.0		16.8	4	688
1985	TD		1985	10	15.24375	00 16 06.05	+00 09 34.0				688

Note 1: right ascension uncertain. 2: declination uncertain. 3 = 1 + 2.
4: discoverer Bowell.

OBSERVATIONS MADE AT THE U.S. NAVAL OBSERVATORY'S FLAGSTAFF STATION.

Plates taken with the 1.55-m astrometric reflector by H. Guetter and R. Walker, measured by L. H. Wasserman. Secondary reference star net from AGK3 primary net. Contact: E. Bowell, Lowell Observatory, 1400 W. Mars Hill Road, Flagstaff, AZ 86001, U.S.A.

Object	Date	UT	R. A. (1950)	Decl.	Obs.
129	1985 04	03.20632	09 51 08.51	+20 13 53.5	689
129	1985 04	03.20681	09 51 08.50	+20 13 53.6	689
129	1985 04	03.20729	09 51 08.49	+20 13 53.7	689
129	1985 04	03.20931	09 51 08.47	+20 13 54.0	689
129	1985 04	03.20958	09 51 08.46	+20 13 54.1	689
129	1985 04	03.20986	09 51 08.46	+20 13 54.2	689
129	1985 04	03.21211	09 51 08.43	+20 13 54.5	689
129	1985 04	03.21287	09 51 08.42	+20 13 54.6	689
129	1985 04	03.21363	09 51 08.41	+20 13 54.7	689
129	1985 04	04.19806	09 50 57.65	+20 16 33.5	689
129	1985 04	04.19833	09 50 57.65	+20 16 33.5	689
129	1985 04	04.19861	09 50 57.65	+20 16 33.5	689
129	1985 04	04.20052	09 50 57.62	+20 16 33.9	689
129	1985 04	04.20091	09 50 57.62	+20 16 33.9	689
129	1985 04	04.20131	09 50 57.62	+20 16 34.0	689
129	1985 04	06.17698	09 50 40.60	+20 21 19.7	689
129	1985 04	06.17760	09 50 40.59	+20 21 19.8	689
129	1985 04	06.17823	09 50 40.59	+20 21 19.9	689
129	1985 04	06.18175	09 50 40.56	+20 21 20.3	689
129	1985 04	06.18250	09 50 40.55	+20 21 20.4	689
129	1985 04	06.18326	09 50 40.54	+20 21 20.5	689
129	1985 04	07.18810	09 50 34.22	+20 23 29.1	689
129	1985 04	07.18854	09 50 34.22	+20 23 29.2	689
129	1985 04	07.18895	09 50 34.22	+20 23 29.3	689
129	1985 04	07.19816	09 50 34.15	+20 23 30.3	689
129	1985 04	07.19875	09 50 34.15	+20 23 30.4	689
129	1985 04	07.19929	09 50 34.14	+20 23 30.5	689
129	1985 04	08.18402	09 50 29.53	+20 25 25.7	689
129	1985 04	08.18510	09 50 29.53	+20 25 25.7	689
129	1985 04	08.18564	09 50 29.53	+20 25 25.8	689

129	1985 04 08.18815	09 50 29.51	+20 25 26.1		689
129	1985 04 08.18870	09 50 29.51	+20 25 26.1		689
129	1985 04 08.18927	09 50 29.51	+20 25 26.2		689
129	1985 04 09.16015	09 50 26.49	+20 27 09.4		689
129	1985 04 09.16056	09 50 26.49	+20 27 09.4		689
129	1985 04 09.16097	09 50 26.49	+20 27 09.4		689
129	1985 04 09.16417	09 50 26.47	+20 27 09.8		689
129	1985 04 09.16472	09 50 26.47	+20 27 09.8		689
129	1985 04 09.16528	09 50 26.47	+20 27 09.9		689
129	1985 04 10.22593	09 50 24.73	+20 28 50.6		689
129	1985 04 10.22634	09 50 24.73	+20 28 50.7		689
129	1985 04 10.22676	09 50 24.72	+20 28 50.7		689
129	1985 04 10.22887	09 50 24.73	+20 28 50.9		689
129	1985 04 10.22942	09 50 24.72	+20 28 50.9		689
129	1985 04 10.22997	09 50 24.72	+20 28 51.0		689

OBSERVATIONS MADE AT THE LOWELL OBSERVATORY.
Plates with the 0.33-m photographic telescope. Observer C. W. Tombaugh. Measured by S. J. Bus using a PDS scanning microdensitometer. SAO reference stars, global solutions. Contact: E. L. G. Bowell, Lowell Observatory, 1400 W. Mars Hill Road, Flagstaff, AZ 86001, U.S.A.

Object	Date	UT	R. A. (1950)	Decl.	Obs.
1930 XR	1930 12 13.14236		02 20 48.91	+22 19 14.2	690
1930 XR	1930 12 14.15312		02 20 13.93	+22 20 50.2	690

OBSERVATIONS MADE AT THE LOWELL OBSERVATORY.
Plates taken with the 0.46-m astrographic refractor by A. A. Hoag and B. A. Skiff, measured by E. Bowell, S. J. Bus and L. H. Wasserman using a PDS scanning microdensitometer. AGK3, SAO or Perth 70 reference stars, global solutions. Contact: E. Bowell, Lowell Observatory, 1400 W. Mars Hill Road, Flagstaff, AZ 86001, U.S.A.

Object	Date	UT	R. A. (1950)	Decl.	Obs.
4	1985 07 24.20382		14 02 43.90	-06 25 45.5	690
4	1985 07 24.20556		14 02 44.03	-06 25 46.5	690
4	1985 07 24.20764		14 02 44.17	-06 25 47.7	690
14	1985 08 01.35556		22 20 48.38	-22 28 00.1	690
14	1985 08 01.35764		22 20 48.30	-22 28 00.7	690
14	1985 08 01.35938		22 20 48.21	-22 28 01.4	690
14	1985 08 01.36319		22 20 48.01	-22 28 03.2	690
14	1985 08 01.36493		22 20 47.93	-22 28 03.5	690
14	1985 08 03.38819		22 19 17.92	-22 42 34.6	690
14	1985 08 03.39029		22 19 17.83	-22 42 35.8	690
14	1985 08 03.39444		22 19 17.66	-22 42 37.7	690
14	1985 08 05.33194		22 17 47.84	-22 56 26.4	690
14	1985 08 05.33403		22 17 47.76	-22 56 27.3	690
14	1985 08 05.33611		22 17 47.66	-22 56 28.0	690
14	1985 08 05.36250		22 17 46.40	-22 56 39.6	690
14	1985 08 05.36458		22 17 46.28	-22 56 40.5	690
14	1985 08 05.36667		22 17 46.19	-22 56 41.5	690
29	1985 05 10.27014		15 06 39.03	-25 41 48.8	690
29	1985 05 10.27222		15 06 38.92	-25 41 48.5	690
29	1985 05 10.27431		15 06 38.80	-25 41 48.4	690
29	1985 05 10.27708		15 06 38.59	-25 41 47.5	690
29	1985 05 10.27917		15 06 38.51	-25 41 47.7	690
29	1985 05 10.28125		15 06 38.35	-25 41 47.3	690
129	1985 03 31.13576		09 51 51.92	+20 04 27.9	690
129	1985 03 31.13750		09 51 51.90	+20 04 27.9	690
129	1985 03 31.13958		09 51 51.89	+20 04 28.8	690
129	1985 03 31.14306		09 51 51.89	+20 04 29.1	690

129		1985	03	31.14514	09	51	51.80	+20	04	29.5	690
129		1985	03	31.14722	09	51	51.75	+20	04	30.1	690
129		1985	04	04.13576	09	50	58.38	+20	16	24.2	690
129		1985	04	04.13855	09	50	58.34	+20	16	24.9	690
129		1985	04	04.14271	09	50	58.28	+20	16	25.6	690
129		1985	04	04.14687	09	50	58.27	+20	16	26.0	690
129		1985	04	04.14965	09	50	58.23	+20	16	26.2	690
129		1985	04	04.15243	09	50	58.20	+20	16	26.8	690
230		1985	08	19.43924	23	09	21.38	+11	45	36.1	690
230		1985	08	19.44167	23	09	21.28	+11	45	35.9	690
230		1985	08	19.44375	23	09	21.19	+11	45	35.8	690
230		1985	08	19.45139	23	09	20.86	+11	45	35.3	690
230		1985	08	19.45347	23	09	20.78	+11	45	35.4	690
230		1985	08	19.45556	23	09	20.68	+11	45	35.0	690
230		1985	08	24.38889	23	05	49.54	+11	35	26.8	690
230		1985	08	24.39097	23	05	49.43	+11	35	26.4	690
230		1985	08	24.39306	23	05	49.33	+11	35	25.9	690
230		1985	08	24.39653	23	05	49.19	+11	35	25.5	690
230		1985	08	24.39861	23	05	49.10	+11	35	25.1	690
230		1985	08	24.40069	23	05	49.00	+11	35	24.9	690
230		1985	08	28.32222	23	02	44.74	+11	22	20.8	690
230		1985	08	28.32431	23	02	44.63	+11	22	20.2	690
230		1985	08	28.32639	23	02	44.53	+11	22	19.8	690
230		1985	08	28.33333	23	02	44.17	+11	22	18.3	690
230		1985	08	28.33542	23	02	44.06	+11	22	17.8	690
230		1985	08	28.33750	23	02	43.95	+11	22	17.3	690
230		1985	08	29.28264	23	01	57.90	+11	18	29.1	690
230		1985	08	29.28472	23	01	57.78	+11	18	28.5	690
230		1985	08	29.28681	23	01	57.68	+11	18	28.0	690
230		1985	08	29.29201	23	01	57.44	+11	18	26.6	690
230		1985	08	29.29375	23	01	57.34	+11	18	26.2	690
230		1985	08	29.29583	23	01	57.22	+11	18	25.5	690
275		1985	04	12.25729	13	48	18.61	-02	51	22.7	690
275		1985	04	12.25903	13	48	18.52	-02	51	21.9	690
275		1985	04	12.26146	13	48	18.40	-02	51	21.1	690
275		1985	04	12.26562	13	48	18.17	-02	51	19.9	690
275		1985	04	12.26979	13	48	17.96	-02	51	17.9	690

OBSERVATIONS MADE WITH THE SPACEWATCH CAMERA 0.91-M TELESCOPE ON KITT PEAK.

Observations made by T. Gehrels with a CCD in scanning mode. Reductions by J. V. Scotti using reference stars from the 1984 SAO Catalog. For further details see MPC 9198. Contact: T. Gehrels, Space Sciences Building, University of Arizona, Tucson, AZ 85721, U.S.A.

Object		Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
1982 TA		1985	09 20.26088	21 55 45.59	-23 23 27.9	19.8V	691
1982 TA		1985	09 20.26782	21 55 45.09	-23 23 29.1		691
1982 TA		1985	09 20.29132	21 55 43.44	-23 23 32.7		691
1982 TA		1985	09 21.23247	21 54 41.60	-23 25 25.5		691
1982 TA		1985	09 21.23828	21 54 41.21	-23 25 25.9		691
1982 TA		1985	09 21.25895	21 54 39.86	-23 25 27.9		691
1984 QA		1985	09 21.34777	23 46 04.66	-20 33 58.8	17.2V	691
1984 QA		1985	09 21.36436	23 46 01.03	-20 34 23.1		691
1984 QA		1985	09 21.38095	23 45 57.44	-20 34 47.7		691
1985 RV	*	1985	09 12.22834	00 25 27.38	+22 48 35.2		691
1985 RV		1985	09 12.25429	00 25 26.19	+22 48 30.2		691
1985 RV		1985	09 12.27821	00 25 24.97	+22 48 26.2		691
1985 RV		1985	09 13.24480	00 24 39.09	+22 45 18.6		691
1985 RV		1985	09 13.26207	00 24 37.95	+22 45 13.6		691
1985 RV		1985	09 13.28623	00 24 36.69	+22 45 09.0		691

1985	RV		1985	09	14.23072	00	23	50.61	+22	41	39.0	691
1985	RV		1985	09	14.25478	00	23	49.44	+22	41	33.6	691
1985	RV		1985	09	14.27959	00	23	48.09	+22	41	28.2	691
1985	RV		1985	09	20.45473	00	18	28.13	+22	10	30.3	18.2V 691
1985	RV		1985	09	20.46227	00	18	27.69	+22	10	27.3	691
1985	RV		1985	09	20.47725	00	18	26.87	+22	10	21.4	691
1985	RV		1985	09	22.21039	00	16	54.21	+21	59	13.1	18.0V 691
1985	RV		1985	09	22.22696	00	16	53.39	+21	59	06.9	691
1985	RV		1985	09	22.24310	00	16	52.51	+21	59	00.3	691
1985	RV		1985	10	07.19288	00	03	52.81	+19	47	36.7	691
1985	RV		1985	10	07.20631	00	03	52.15	+19	47	28.3	691
1985	RV		1985	10	07.22545	00	03	51.20	+19	47	16.0	691
1985	RW	*	1985	09	13.16140	20	54	56.05	+17	44	47.7	18.5V 691
1985	RW		1985	09	13.18475	20	54	55.33	+17	44	30.9	691
1985	RW		1985	09	13.20832	20	54	54.52	+17	44	13.9	691
1985	RW		1985	09	14.15609	20	54	26.38	+17	32	41.4	691
1985	RW		1985	09	14.17909	20	54	25.67	+17	32	24.3	691
1985	RW		1985	09	14.20228	20	54	24.91	+17	32	08.1	691
1985	RW		1985	09	16.12088	20	53	33.77	+17	08	21.2	691
1985	RW		1985	09	16.12477	20	53	33.68	+17	08	18.3	691
1985	RW		1985	09	16.13310	20	53	33.45	+17	08	12.2	691
1985	RW		1985	09	16.15402	20	53	32.84	+17	07	57.1	691
1985	RW		1985	09	16.15781	20	53	32.77	+17	07	53.8	691
1985	RW		1985	09	17.11294	20	53	10.39	+16	55	53.7	691
1985	RW		1985	09	17.14105	20	53	09.71	+16	55	32.2	691
1985	RW		1985	09	17.15480	20	53	09.34	+16	55	22.4	691
1985	RW		1985	10	07.15486	20	53	00.11	+12	40	45.5	691
1985	RW		1985	10	07.16546	20	53	00.45	+12	40	38.3	691
1985	RX	*	1985	09	14.37356	01	26	09.98	+30	16	54.1	691
1985	RX		1985	09	14.39973	01	26	09.26	+30	17	12.7	691
1985	RX		1985	09	14.42516	01	26	08.59	+30	17	30.7	691
1985	RX		1985	09	17.25472	01	24	52.84	+30	50	05.9	691
1985	RX		1985	09	21.44316	01	22	28.24	+31	34	09.5	18.7V 691
1985	RX		1985	09	21.45648	01	22	27.68	+31	34	17.1	691
1985	RX		1985	09	21.47608	01	22	26.88	+31	34	28.7	691
1985	RX		1985	09	22.26661	01	21	56.41	+31	42	12.2	18.5V 691
1985	RX		1985	09	22.28102	01	21	55.82	+31	42	20.4	691
1985	RX		1985	09	22.28958	01	21	55.45	+31	42	24.9	691
1985	RX		1985	10	09.21936	01	06	48.15	+33	32	09.9	691
1985	RX		1985	10	09.24726	01	06	46.32	+33	32	15.2	691
1985	RA1	*	1985	09	13.24086	00	28	57.33	+22	43	12.3	691
1985	RA1		1985	09	13.26503	00	28	56.27	+22	43	13.0	691
1985	RA1		1985	09	13.28924	00	28	55.13	+22	43	14.6	691
1985	RA1		1985	09	14.23373	00	28	12.59	+22	43	42.4	691
1985	RA1		1985	09	14.25779	00	28	11.54	+22	43	42.9	691
1985	RA1		1985	09	14.28265	00	28	10.31	+22	43	43.6	691
1985	RA1		1985	09	16.22868	00	26	39.36	+22	43	44.7	691
1985	RA1		1985	09	16.25867	00	26	37.86	+22	43	44.3	691
1985	RA1		1985	09	20.48699	00	23	06.96	+22	39	12.7	17.3V 691
1985	RA1		1985	09	20.49951	00	23	06.29	+22	39	11.3	691
1985	RA1		1985	09	20.51052	00	23	05.71	+22	39	09.9	691
1985	RA1		1985	09	22.31619	00	21	32.53	+22	35	24.2	17.4V 691
1985	RA1		1985	09	22.32686	00	21	31.94	+22	35	22.8	691
1985	RA1		1985	09	22.35280	00	21	30.49	+22	35	18.8	691
1985	RB1	*	1985	09	14.22086	00	09	36.13	+22	46	52.6	691
1985	RB1		1985	09	14.24487	00	09	34.98	+22	46	50.5	691
1985	RB1		1985	09	14.26973	00	09	33.84	+22	46	47.1	691
1985	RB1		1985	09	16.21601	00	08	05.61	+22	42	25.1	691
1985	RB1		1985	09	16.24600	00	08	04.19	+22	42	20.6	691

1985	RB1		1985	09	21.19369	00	04	14.75	+22	28	21.5	18.7V	691
1985	RB1		1985	09	21.19899	00	04	14.47	+22	28	20.6		691
1985	RB1		1985	09	21.22455	00	04	13.26	+22	28	16.1		691
1985	TA	*	1985	10	12.44394	03	16	32.88	-07	20	46.5	17.4V	691
1985	TA		1985	10	12.46666	03	16	32.32	-07	20	58.6		691
1985	TA		1985	10	12.48917	03	16	31.74	-07	21	10.7		691
1985	TA		1985	10	16.37850	03	14	40.45	-07	53	57.9		691
1985	TA		1985	10	16.38963	03	14	40.05	-07	54	03.5		691
1985	TA		1985	10	16.50948	03	14	35.75	-07	55	00.8		691
1985	TA		1985	10	19.36385	03	12	55.11	-08	16	34.5		691
1985	TA		1985	10	19.37693	03	12	54.60	-08	16	39.9		691
1985	TA		1985	10	19.39856	03	12	53.70	-08	16	49.2		691

OBSERVATIONS MADE AT KITT PEAK.

Positions from CCD images, obtained by J. D. Neill and H. C. Ford with the #1 0.91-m telescope. Contact: J. D. Neill, Space Telescope Science Institute, Homewood Campus, Baltimore, MD 21218, U.S.A.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
1377	1985	10 13.29583	01 16 44.82	+12 09 55.2	16.8	695
1377	1985	10 13.34167	01 16 42.18	+12 09 32.4		695
1377	1985	10 14.35347	01 15 44.19	+12 01 11.7		695

OBSERVATIONS MADE AT THE GOETHE LINK OBSERVATORY.

Plates measured and reduced at Indiana University under the direction of D. Owings in response to requests from the Minor Planet Center. Contact: F. K. Edmondson, Swain Hall West 319A, Indiana University, Bloomington, IN 47401, U.S.A.

Object	Date	UT	R. A. (1950)	Decl.	Obs.
3260	1954	09 27.25275	23 51 29.53	+08 03 40.1	760
3260	1954	09 27.28956	23 51 27.41	+08 03 25.0	760
1954	SG1	1954 09 27.25275	23 32 53.86	+11 31 25.0	760
1954	SG1	1954 09 27.28956	23 32 52.04	+11 31 13.7	760
1956	ET	1956 03 09.19630	11 21 24.03	+08 20 58.5	760
1956	EV	1956 03 09.19630	11 07 36.22	+08 17 16.4	760
1956	GD	1956 04 12.12617	12 02 56.56	+05 58 53.9	760
1956	GD	1956 04 12.16298	12 02 54.52	+05 59 10.0	760
1956	JA	1956 05 04.21845	13 37 12.61	-06 53 12.6	760
1956	LA	1956 06 10.13251	15 04 51.26	-01 57 21.9	760
1956	LA	1956 06 10.17418	15 04 50.26	-01 57 18.4	760
1956	RG	1956 09 05.16703	22 11 07.59	-02 42 03.1	760
1956	RG	1956 09 05.20870	22 11 05.32	-02 42 14.5	760
1956	SA	1956 09 27.13392	22 17 43.23	-01 16 26.6	760
1956	SA	1956 09 27.17697	22 17 42.11	-01 16 20.0	760
1956	TJ	1956 10 09.17435	01 20 29.30	-03 03 30.2	760
1956	TJ	1956 10 09.21671	01 20 27.80	-03 03 23.6	760
1956	TS	1956 10 11.21534	00 29 56.07	-00 04 58.7	760
1956	TU	1956 10 11.28553	02 32 52.12	+06 43 15.4	760
1956	TU	1956 10 11.36324	02 32 49.50	+06 42 28.4	760
1956	UA	1956 10 27.07867	23 40 14.88	+16 30 04.1	760
1956	UA	1956 10 27.18284	23 40 14.02	+16 28 47.8	760
1956	UG	1956 10 28.28053	01 45 37.86	+29 12 39.4	760
1956	UG	1956 10 28.36733	01 45 33.63	+29 12 05.9	760
1956	UH	1956 10 28.28053	01 48 03.70	+28 07 44.2	760
1956	UH	1956 10 28.36733	01 47 58.48	+28 07 06.7	760
1956	UM	1956 10 29.19926	01 39 53.45	+08 12 12.2	760
1956	UO	1956 10 29.19926	01 33 08.15	+08 52 08.7	760
1956	UO	1956 10 29.24556	01 33 06.05	+08 51 49.1	760
1956	US	1956 10 28.16457	01 34 53.09	+24 23 29.0	760
1956	US	1956 10 28.20762	01 34 50.59	+24 23 21.0	760

1956 XF		1956 12 14.13548	02	41	03.70	-26	06	38.8			760
1956 XF		1956 12 14.21291	02	41	00.77	-26	06	15.3			760

OBSERVATIONS MADE AT OAK RIDGE OBSERVATORY BY R. E. McCROSKY, C.-Y. SHAO AND G. SCHWARTZ.

Plates with the 1.5-m reflector, reduced using the Astrographic Catalogue. Coordination and verification by, and assistance with identifications from, C. M. Bardwell and B. G. Marsden. Contact: R. E. McCrosky, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, Cambridge, MA 02138, U.S.A.

Object		Date	UT	R. A. (1950)			Decl.			Mag.	N	Obs.
A922 WB		1985 09 13.25119	23	20	24.65	-00	10	11.2				801
1966 AA		1985 08 14.16322	22	14	10.80	+06	56	12.9				801
1966 AA		1985 09 15.12395	21	46	10.98	+05	31	44.7				801
1971 UX		1985 09 17.20682	23	31	59.05	-01	10	55.0				801
1975 XY1		1985 07 18.18567	19	36	50.92	+05	05	44.2				801
1975 XY1		1985 09 18.03189	19	03	45.35	+02	16	07.7				801
1978 EA3		1985 08 14.18520	22	47	15.37	+00	23	37.1				801
1978 EA3		1985 09 12.11275	22	28	07.99	-02	49	40.2				801
1980 RN1		1985 07 19.23755	19	22	48.56	-01	25	42.3				801
1980 RN1		1985 09 15.07796	19	05	26.24	-07	47	10.9				801
1982 BD3		1985 09 13.26682	23	55	40.88	-05	29	55.6				801
1982 HR		1985 09 15.23928	22	58	37.42	-03	22	25.3				801
1983 AG2		1985 09 17.09245	21	39	34.52	-09	21	05.1				801
1983 AT2		1985 09 13.29233	00	09	39.24	-03	28	29.8				801
1983 CA3		1985 09 12.23418	23	34	22.38	+05	57	28.2				801
1985 HC		1985 09 15.03352	15	58	30.20	+01	50	47.2				801
1985 RC1	*	1985 09 12.23418	23	34	11.85	+05	53	58.1		19		801
1985 RD1	*	1985 09 13.26682	23	56	23.03	-05	41	07.4		18		801
1985 SF	*	1985 09 17.12480	21	23	44.40	-07	46	26.1		18.5		801
1985 SG	*	1985 09 17.12480	21	23	56.43	-07	42	23.4		19	1	801
1985 TB		1985 10 22.20069	01	07	12.50	+11	44	10.2			5	801
1985 TB		1985 10 22.29792	01	06	52.39	+11	48	39.4			6	801
1985 TB		1985 10 24.30139	00	59	50.37	+13	26	50.2			6	801
1985 TB		1985 10 24.31458	00	59	46.54	+13	27	37.0			2	801
6092 P-L		1985 08 13.23993	21	44	13.20	+00	54	33.9				801
6092 P-L		1985 09 17.04874	21	20	42.46	-03	43	24.4				801

Note 1: measured in one direction only. 2: poor, trailed image, obtained with 0.40-m astrograph. 3: measured inkdot on middle of trail. 4: end of trail. 5 = 2 + 3. 6 = 2 + 4.

OBSERVATIONS MADE AT THE EUROPEAN SOUTHERN OBSERVATORY.

Observations with the CCD camera on the Danish 1.5-m reflector by H. U. Noergaard-Nielsen, L. Hansen and P. R. Christensen. Contact: H. U. Noergaard-Nielsen, Copenhagen University Observatory, Ostervoldgade 3 DK-1350 Copenhagen K, Denmark.

Object		Date	UT	R. A. (1950)			Decl.			Mag.	Obs.
1985 SA		1985 09 16.19358	22	51	23.3	-17	51	02			809
1985 SA	*	1985 09 16.25267	22	51	20.4	-17	51	24		15.4V	809
1985 SA		1985 09 17.09829	22	50	43.0	-17	56	37			809
1985 SA		1985 09 17.13000	22	50	41.5	-17	56	50			809
1985 SA		1985 09 19.11609	22	49	15.6	-18	08	18			809
1985 SA		1985 09 19.12299	22	49	15.3	-18	08	20			809
1985 SA		1985 09 20.11911	22	48	33.8	-18	13	42			809
1985 SA		1985 09 20.13988	22	48	32.7	-18	13	47			809
1985 SA		1985 09 21.17813	22	47	50.7	-18	19	02			809
1985 SA		1985 09 21.19054	22	47	50.2	-18	19	06			809
1985 SA		1985 09 22.17288	22	47	11.9	-18	23	47			809
1985 SA		1985 09 22.19356	22	47	11.1	-18	23	53			809

1985 SA 1985 09 23.22330 22 46 32.2 -18 28 28 809
1985 SA 1985 09 23.23198 22 46 31.8 -18 28 30 809

OBSERVATIONS MADE AT THE EUROPEAN SOUTHERN OBSERVATORY BY H. DEBEHOGNE.
Plates taken with the GPO 0.4-m astrograph at La Silla, reduced with assistance from G. Peeters. Contact: H. Debehogne, Observatoire Royal de Belgique, Avenue Circulaire 3, B-1180 Brussels, Belgium.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
39	1985	02 14.21875	11 19 40.54	+05 34 12.2		809
39	1985	02 14.22431	11 19 40.31	+05 34 14.4		809
39	1985	02 14.22986	11 19 40.08	+05 34 16.8		809
39	1985	02 16.27153	11 18 23.67	+05 48 50.7		809
39	1985	02 16.27708	11 18 23.46	+05 48 53.1		809
39	1985	02 16.28264	11 18 23.25	+05 48 55.5		809
57	1985	02 14.20000	11 12 05.93	-08 12 31.1		809
57	1985	02 14.20555	11 12 05.73	-08 12 29.2		809
57	1985	02 14.21111	11 12 05.55	-08 12 27.3		809
80	1985	02 14.20000	11 18 49.72	-07 07 29.9		809
80	1985	02 14.20555	11 18 49.45	-07 07 28.3		809
80	1985	02 14.21111	11 18 49.18	-07 07 26.8		809
123	1985	02 09.08125	09 40 26.48	+11 08 50.5		809
123	1985	02 09.08680	09 40 26.13	+11 08 51.3		809
123	1985	02 09.09236	09 40 25.78	+11 08 51.9		809
129	1985	02 12.10139	10 23 11.13	+14 30 52.7		809
129	1985	02 12.10764	10 23 10.85	+14 30 55.8		809
129	1985	02 12.11389	10 23 10.55	+14 30 59.5		809
129	1985	02 14.13472	10 21 38.76	+14 49 12.5		809
129	1985	02 14.14028	10 21 38.48	+14 49 15.4		809
129	1985	02 14.14583	10 21 38.21	+14 49 18.4		809
129	1985	02 16.12986	10 20 05.80	+15 07 17.1		809
129	1985	02 16.13542	10 20 05.50	+15 07 19.6		809
129	1985	02 16.14097	10 20 05.25	+15 07 22.7		809
129	1985	02 17.13542	10 19 18.19	+15 16 23.2		809
129	1985	02 17.14097	10 19 17.91	+15 16 25.9		809
129	1985	02 17.14653	10 19 17.65	+15 16 28.7		809
129	1985	02 18.12708	10 18 30.84	+15 25 21.1		809
129	1985	02 18.13264	10 18 30.53	+15 25 24.3		809
129	1985	02 18.13819	10 18 30.29	+15 25 26.8		809
129	1985	02 19.14861	10 17 41.65	+15 34 34.8		809
129	1985	02 19.15417	10 17 41.34	+15 34 37.7		809
129	1985	02 19.15972	10 17 41.08	+15 34 40.8		809
129	1985	02 20.16285	10 16 52.50	+15 43 44.0		809
129	1985	02 20.16771	10 16 52.25	+15 43 46.6		809
129	1985	02 20.17257	10 16 52.03	+15 43 49.2		809
129	1985	02 21.16319	10 16 03.82	+15 52 41.0		809
129	1985	02 21.16875	10 16 03.53	+15 52 44.0		809
129	1985	02 21.17430	10 16 03.27	+15 52 47.1		809
129	1985	02 24.11805	10 13 39.29	+16 18 56.4		809
129	1985	02 24.12222	10 13 39.11	+16 18 58.4		809
129	1985	02 24.12639	10 13 38.88	+16 19 00.6		809
129	1985	02 25.16910	10 12 47.67	+16 28 08.5		809
129	1985	02 25.17430	10 12 47.43	+16 28 11.3		809
129	1985	02 25.17951	10 12 47.15	+16 28 13.9		809
129	1985	02 26.09479	10 12 02.58	+16 36 09.6		809
129	1985	02 26.09965	10 12 02.32	+16 36 12.1		809
129	1985	02 26.10451	10 12 02.06	+16 36 14.8		809
232	1985	02 09.08125	09 34 10.30	+12 11 35.8		809
232	1985	02 09.08680	09 34 10.02	+12 11 38.3		809
232	1985	02 09.09236	09 34 09.71	+12 11 40.5		809

232	1985	02	10.06424	09	33	17.91	+12	19	17.0	809
232	1985	02	10.07083	09	33	17.55	+12	19	20.3	809
232	1985	02	10.07743	09	33	17.16	+12	19	23.3	809
232	1985	02	11.05903	09	32	24.56	+12	27	05.6	809
232	1985	02	11.06458	09	32	24.25	+12	27	08.2	809
232	1985	02	11.07014	09	32	23.94	+12	27	10.7	809
232	1985	02	13.03333	09	30	38.16	+12	42	40.8	809
232	1985	02	13.03889	09	30	37.85	+12	42	42.8	809
232	1985	02	13.04444	09	30	37.54	+12	42	45.9	809
232	1985	02	15.02986	09	28	50.59	+12	58	30.8	809
232	1985	02	15.03542	09	28	50.30	+12	58	33.6	809
232	1985	02	15.04097	09	28	50.00	+12	58	36.1	809
232	1985	02	16.05139	09	27	55.76	+13	06	37.3	809
232	1985	02	16.05694	09	27	55.45	+13	06	40.0	809
232	1985	02	16.06250	09	27	55.13	+13	06	42.6	809
232	1985	02	17.05660	09	27	02.08	+13	14	35.2	809
232	1985	02	17.06146	09	27	01.80	+13	14	37.6	809
232	1985	02	17.06632	09	27	01.52	+13	14	40.1	809
232	1985	02	18.05313	09	26	09.11	+13	22	28.1	809
232	1985	02	18.05799	09	26	08.84	+13	22	30.3	809
232	1985	02	18.06285	09	26	08.53	+13	22	32.9	809
232	1985	02	19.05174	09	25	16.62	+13	30	18.6	809
232	1985	02	19.05660	09	25	16.34	+13	30	21.2	809
232	1985	02	19.06146	09	25	16.09	+13	30	23.4	809
232	1985	02	20.04965	09	24	24.69	+13	38	08.6	809
232	1985	02	20.05417	09	24	24.44	+13	38	10.7	809
232	1985	02	20.05833	09	24	24.23	+13	38	12.1	809
260	1985	02	12.03333	08	26	43.39	+14	02	54.0	809
260	1985	02	12.03889	08	26	43.14	+14	02	55.2	809
260	1985	02	12.04444	08	26	42.91	+14	02	56.3	809
260	1985	02	14.03125	08	25	26.33	+14	10	19.6	809
260	1985	02	14.03681	08	25	26.11	+14	10	20.4	809
260	1985	02	14.04236	08	25	25.90	+14	10	21.9	809
300	1985	02	12.15938	10	34	58.29	+10	00	46.1	809
300	1985	02	12.16424	10	34	58.09	+10	00	47.3	809
300	1985	02	12.16910	10	34	57.88	+10	00	48.6	809
303	1985	02	13.15347	11	06	02.39	+06	48	04.1	809
303	1985	02	13.15903	11	06	02.16	+06	48	05.2	809
303	1985	02	13.16458	11	06	01.92	+06	48	06.3	809
303	1985	02	15.15486	11	04	37.27	+06	53	15.9	809
303	1985	02	15.15972	11	04	37.05	+06	53	16.8	809
303	1985	02	15.16458	11	04	36.79	+06	53	17.3	809
303	1985	02	16.23194	11	03	50.08	+06	56	10.4	809
303	1985	02	16.23750	11	03	49.82	+06	56	11.2	809
303	1985	02	16.24306	11	03	49.61	+06	56	12.2	809
303	1985	02	17.29375	11	03	02.78	+06	59	05.7	809
303	1985	02	17.29930	11	03	02.53	+06	59	06.7	809
303	1985	02	17.30486	11	03	02.27	+06	59	08.0	809
303	1985	02	18.24444	11	02	20.03	+07	01	45.2	809
303	1985	02	18.25000	11	02	19.73	+07	01	46.1	809
303	1985	02	18.25556	11	02	19.47	+07	01	47.0	809
303	1985	02	19.27153	11	01	33.00	+07	04	40.4	809
303	1985	02	19.27708	11	01	32.72	+07	04	41.2	809
303	1985	02	19.28264	11	01	32.47	+07	04	42.4	809
303	1985	02	20.26181	11	00	47.20	+07	07	31.5	809
303	1985	02	20.26736	11	00	46.93	+07	07	32.4	809
303	1985	02	20.27292	11	00	46.66	+07	07	33.7	809
303	1985	02	21.30972	10	59	58.16	+07	10	35.6	809
303	1985	02	21.31528	10	59	57.91	+07	10	36.5	809

303	1985	02	21.32083	10	59	57.65	+07	10	37.5	809
303	1985	02	22.24167	10	59	14.22	+07	13	20.6	809
303	1985	02	22.24722	10	59	13.93	+07	13	21.7	809
303	1985	02	22.25278	10	59	13.64	+07	13	23.0	809
303	1985	02	24.22465	10	57	39.41	+07	19	16.3	809
303	1985	02	24.22951	10	57	39.14	+07	19	17.1	809
303	1985	02	24.23438	10	57	38.92	+07	19	17.9	809
303	1985	02	26.23056	10	56	02.24	+07	25	20.8	809
303	1985	02	26.23611	10	56	01.97	+07	25	21.6	809
303	1985	02	26.24167	10	56	01.71	+07	25	22.8	809
303	1985	02	27.28646	10	55	10.60	+07	28	33.8	809
303	1985	02	27.29236	10	55	10.29	+07	28	34.6	809
303	1985	02	27.29792	10	55	10.00	+07	28	35.8	809
303	1985	02	28.31875	10	54	20.13	+07	31	42.4	809
303	1985	02	28.32431	10	54	19.79	+07	31	43.7	809
306	1985	02	10.08715	09	57	01.51	+13	10	14.4	809
306	1985	02	10.09271	09	57	01.16	+13	10	16.7	809
306	1985	02	10.09826	09	57	00.84	+13	10	19.6	809
468	1985	02	12.15938	10	30	10.32	+09	54	00.1	809
468	1985	02	12.16424	10	30	10.13	+09	54	01.1	809
468	1985	02	12.16910	10	30	09.91	+09	54	02.7	809
468	1985	02	14.17639	10	28	43.41	+10	02	23.7	809
468	1985	02	14.18194	10	28	43.19	+10	02	25.2	809
468	1985	02	14.18750	10	28	42.93	+10	02	26.6	809
468	1985	02	15.10313	10	28	03.10	+10	06	16.9	809
468	1985	02	15.10799	10	28	02.88	+10	06	17.9	809
468	1985	02	15.11285	10	28	02.67	+10	06	19.0	809
468	1985	02	16.20972	10	27	14.41	+10	10	57.0	809
468	1985	02	16.21528	10	27	14.12	+10	10	58.7	809
468	1985	02	16.22083	10	27	13.87	+10	11	00.1	809
468	1985	02	17.20000	10	26	30.63	+10	15	09.5	809
468	1985	02	17.20579	10	26	30.36	+10	15	11.0	809
468	1985	02	17.21157	10	26	30.15	+10	15	12.4	809
468	1985	02	18.16771	10	25	47.69	+10	19	15.8	809
468	1985	02	18.17257	10	25	47.44	+10	19	17.5	809
468	1985	02	18.17760	10	25	47.20	+10	19	18.9	809
468	1985	02	19.19306	10	25	01.83	+10	23	38.3	809
468	1985	02	19.19896	10	25	01.58	+10	23	39.9	809
468	1985	02	19.20382	10	25	01.38	+10	23	40.9	809
468	1985	02	20.20139	10	24	16.74	+10	27	55.7	809
468	1985	02	20.20694	10	24	16.49	+10	27	56.6	809
468	1985	02	20.21250	10	24	16.28	+10	27	58.2	809
468	1985	02	21.20833	10	23	31.42	+10	32	12.1	809
468	1985	02	21.21389	10	23	31.16	+10	32	13.3	809
468	1985	02	21.21944	10	23	30.93	+10	32	14.8	809
468	1985	02	24.16076	10	21	18.81	+10	44	43.5	809
468	1985	02	24.16563	10	21	18.57	+10	44	44.5	809
468	1985	02	24.17049	10	21	18.35	+10	44	45.7	809
468	1985	02	25.22326	10	20	31.00	+10	49	10.9	809
468	1985	02	25.22847	10	20	30.77	+10	49	12.1	809
468	1985	02	25.23368	10	20	30.54	+10	49	13.3	809
468	1985	02	25.26042	10	20	29.23	+10	49	20.6	809
468	1985	02	25.26632	10	20	28.90	+10	49	22.0	809
468	1985	02	25.27222	10	20	28.61	+10	49	23.6	809
468	1985	02	26.17083	10	19	48.47	+10	53	09.0	809
468	1985	02	26.17639	10	19	48.26	+10	53	10.4	809
468	1985	02	26.18194	10	19	48.02	+10	53	11.5	809
468	1985	02	27.20625	10	19	02.13	+10	57	27.8	809
468	1985	02	27.21181	10	19	01.89	+10	57	29.2	809

468	1985	02	27.21736	10	19	01.64	+10	57	30.3	809
468	1985	02	28.20972	10	18	17.56	+11	01	35.8	809
468	1985	02	28.21528	10	18	17.27	+11	01	37.3	809
468	1985	02	28.22083	10	18	17.00	+11	01	38.6	809
482	1985	02	13.17847	11	11	40.11	-01	49	02.5	809
482	1985	02	13.18437	11	11	39.89	-01	48	59.9	809
482	1985	02	13.19028	11	11	39.67	-01	48	57.6	809
482	1985	02	15.17188	11	10	33.27	-01	36	21.0	809
482	1985	02	15.17674	11	10	33.07	-01	36	19.0	809
482	1985	02	15.18160	11	10	32.89	-01	36	17.1	809
482	1985	02	17.31736	11	09	17.51	-01	21	58.6	809
482	1985	02	17.32292	11	09	17.29	-01	21	56.3	809
482	1985	02	17.32847	11	09	17.11	-01	21	53.6	809
482	1985	02	18.26528	11	08	42.98	-01	15	24.9	809
482	1985	02	18.27083	11	08	42.77	-01	15	22.6	809
482	1985	02	18.27639	11	08	42.57	-01	15	20.2	809
482	1985	02	19.29271	11	08	04.75	-01	08	08.5	809
482	1985	02	19.29861	11	08	04.52	-01	08	06.2	809
482	1985	02	19.30417	11	08	04.29	-01	08	03.7	809
482	1985	02	20.28333	11	07	27.23	-01	00	58.5	809
482	1985	02	20.28889	11	07	27.01	-01	00	56.4	809
482	1985	02	20.29444	11	07	26.79	-01	00	54.0	809
491	1985	02	19.34722	11	24	03.94	-01	07	07.6	809
491	1985	02	19.35278	11	24	03.73	-01	07	05.5	809
491	1985	02	19.35833	11	24	03.57	-01	07	03.2	809
491	1985	02	20.32500	11	23	30.56	-00	59	27.1	809
491	1985	02	20.33055	11	23	30.36	-00	59	25.1	809
491	1985	02	20.33611	11	23	30.16	-00	59	22.4	809
491	1985	02	21.37153	11	22	54.02	-00	51	07.3	809
491	1985	02	21.37708	11	22	53.79	-00	51	04.6	809
491	1985	02	21.38264	11	22	53.58	-00	51	02.4	809
572	1985	02	11.12639	10	10	01.13	-01	22	48.0	809
572	1985	02	11.13194	10	10	00.85	-01	22	45.7	809
572	1985	02	11.13750	10	10	00.54	-01	22	43.3	809
641	1985	02	16.33333	12	00	10.31	+02	30	48.3	809
641	1985	02	16.34028	12	00	10.03	+02	30	50.0	809
641	1985	02	16.34722	12	00	09.74	+02	30	51.7	809
641	1985	02	20.34653	11	57	26.02	+02	49	02.0	809
641	1985	02	20.35521	11	57	25.66	+02	49	04.8	809
641	1985	02	20.36458	11	57	25.26	+02	49	08.0	809
685	1985	02	13.17847	11	18	24.45	-01	23	46.3	809
685	1985	02	13.18437	11	18	24.16	-01	23	45.0	809
685	1985	02	13.19028	11	18	23.86	-01	23	43.4	809
685	1985	02	15.17188	11	16	53.61	-01	16	02.5	809
685	1985	02	15.17674	11	16	53.37	-01	16	01.3	809
685	1985	02	15.18160	11	16	53.13	-01	16	00.0	809
685	1985	02	17.31736	11	15	10.25	-01	06	55.4	809
685	1985	02	17.32292	11	15	09.97	-01	06	54.0	809
685	1985	02	17.32847	11	15	09.70	-01	06	52.7	809
685	1985	02	18.26528	11	14	23.05	-01	02	38.3	809
685	1985	02	18.27083	11	14	22.77	-01	02	36.8	809
685	1985	02	18.27639	11	14	22.45	-01	02	35.0	809
685	1985	02	19.29271	11	13	30.75	-00	57	50.5	809
685	1985	02	19.29861	11	13	30.43	-00	57	49.0	809
685	1985	02	19.30417	11	13	30.13	-00	57	47.6	809
685	1985	02	20.28333	11	12	39.32	-00	53	03.2	809
685	1985	02	20.28889	11	12	39.03	-00	53	01.4	809
685	1985	02	20.29444	11	12	38.73	-00	52	59.4	809
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685	1985	02	22.26944	11	10	53.55	-00 42 58.3	809
685	1985	02	22.27517	11	10	53.22	-00 42 56.5	809
685	1985	02	24.24167	11	09	05.12	-00 32 22.4	809
685	1985	02	24.24583	11	09	04.88	-00 32 20.9	809
685	1985	02	24.25000	11	09	04.63	-00 32 19.4	809
685	1985	02	26.24965	11	07	11.78	-00 21 03.2	809
685	1985	02	26.25451	11	07	11.51	-00 21 01.5	809
685	1985	02	26.25937	11	07	11.23	-00 20 59.6	809
685	1985	02	27.30729	11	06	10.91	-00 14 53.1	809
685	1985	02	27.31285	11	06	10.59	-00 14 50.9	809
685	1985	02	27.31875	11	06	10.25	-00 14 48.6	809
685	1985	02	28.33333	11	05	11.46	-00 08 45.4	809
685	1985	02	28.33889	11	05	11.13	-00 08 43.4	809
794	1985	02	14.21875	11	18	55.83	+04 42 12.5	809
794	1985	02	14.22431	11	18	55.62	+04 42 14.3	809
794	1985	02	14.22986	11	18	55.40	+04 42 15.8	809
794	1985	02	16.27153	11	17	43.34	+04 52 14.7	809
794	1985	02	16.27708	11	17	43.15	+04 52 16.3	809
794	1985	02	16.28264	11	17	42.97	+04 52 18.0	809
794	1985	02	17.34167	11	17	04.19	+04 57 36.9	809
794	1985	02	17.34722	11	17	03.99	+04 57 38.7	809
794	1985	02	17.35278	11	17	03.81	+04 57 40.8	809
794	1985	02	18.28472	11	16	29.17	+05 02 25.4	809
794	1985	02	18.29028	11	16	28.97	+05 02 27.1	809
794	1985	02	18.29583	11	16	28.79	+05 02 28.9	809
794	1985	02	19.32014	11	15	49.88	+05 07 46.7	809
794	1985	02	19.32569	11	15	49.69	+05 07 48.2	809
794	1985	02	19.33125	11	15	49.44	+05 07 49.7	809
794	1985	02	20.30347	11	15	11.94	+05 12 55.4	809
794	1985	02	20.30903	11	15	11.72	+05 12 57.3	809
794	1985	02	20.31458	11	15	11.48	+05 12 59.2	809
794	1985	02	21.35139	11	14	30.88	+05 18 30.7	809
794	1985	02	21.35694	11	14	30.65	+05 18 32.2	809
794	1985	02	21.36250	11	14	30.47	+05 18 33.9	809
794	1985	02	22.32986	11	13	51.92	+05 23 46.4	809
794	1985	02	22.33403	11	13	51.76	+05 23 47.6	809
794	1985	02	22.33819	11	13	51.57	+05 23 48.9	809
794	1985	02	23.34931	11	13	10.75	+05 29 18.3	809
794	1985	02	23.35347	11	13	10.58	+05 29 19.1	809
794	1985	02	23.35764	11	13	10.43	+05 29 20.5	809
794	1985	02	24.25590	11	12	33.77	+05 34 16.9	809
794	1985	02	24.26042	11	12	33.58	+05 34 18.4	809
794	1985	02	24.26458	11	12	33.40	+05 34 19.5	809
794	1985	02	26.27326	11	11	09.87	+05 45 29.0	809
794	1985	02	26.27778	11	11	09.68	+05 45 30.6	809
794	1985	02	26.28229	11	11	09.47	+05 45 32.3	809
794	1985	02	27.32865	11	10	25.24	+05 51 24.5	809
794	1985	02	27.33524	11	10	24.98	+05 51 26.8	809
794	1985	02	27.33970	11	10	24.78	+05 51 28.4	809
794	1985	02	28.34653	11	09	41.80	+05 57 09.6	809
794	1985	02	28.35208	11	09	41.55	+05 57 11.7	809
808	1985	02	10.10590	10	03	24.88	+07 15 46.8	809
808	1985	02	10.11076	10	03	24.62	+07 15 48.6	809
808	1985	02	10.11562	10	03	24.41	+07 15 50.6	809
808	1985	02	19.09132	09	55	54.87	+08 12 28.8	809
808	1985	02	19.09687	09	55	54.56	+08 12 31.0	809
808	1985	02	19.10174	09	55	54.31	+08 12 33.2	809
808	1985	02	20.08680	09	55	04.90	+08 18 58.4	809
808	1985	02	20.09097	09	55	04.70	+08 19 00.3	809

808	1985	02	20.09514	09	55	04.46	+08	19	01.5	809
808	1985	02	21.09722	09	54	14.53	+08	25	32.6	809
808	1985	02	21.10278	09	54	14.27	+08	25	34.8	809
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902	1985	02	12.10139	10	24	39.42	+14	15	57.8	809
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902	1985	02	12.11389	10	24	38.71	+14	16	00.7	809
902	1985	02	14.13472	10	22	35.64	+14	23	42.6	809
902	1985	02	14.14028	10	22	35.29	+14	23	44.0	809
902	1985	02	14.14583	10	22	34.92	+14	23	45.1	809
902	1985	02	16.12986	10	20	32.49	+14	31	11.9	809
902	1985	02	16.13542	10	20	32.16	+14	31	13.5	809
902	1985	02	16.14097	10	20	31.80	+14	31	14.0	809
902	1985	02	17.13542	10	19	30.02	+14	34	56.2	809
902	1985	02	17.14097	10	19	29.69	+14	34	57.0	809
902	1985	02	17.14653	10	19	29.34	+14	34	58.4	809
902	1985	02	18.12708	10	18	28.17	+14	38	34.2	809
902	1985	02	18.13264	10	18	27.81	+14	38	35.2	809
902	1985	02	18.13819	10	18	27.48	+14	38	36.7	809
902	1985	02	19.14861	10	17	24.30	+14	42	16.0	809
902	1985	02	19.15417	10	17	23.95	+14	42	17.3	809
902	1985	02	19.15972	10	17	23.59	+14	42	18.3	809
902	1985	02	20.16285	10	16	20.90	+14	45	52.6	809
902	1985	02	20.16771	10	16	20.60	+14	45	53.6	809
902	1985	02	20.17257	10	16	20.30	+14	45	54.5	809
902	1985	02	21.16319	10	15	18.34	+14	49	23.1	809
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902	1985	02	21.17430	10	15	17.71	+14	49	25.7	809
902	1985	02	24.11805	10	12	14.56	+14	59	18.0	809
902	1985	02	24.12222	10	12	14.28	+14	59	18.8	809
902	1985	02	24.12639	10	12	14.03	+14	59	19.7	809
902	1985	02	25.16910	10	11	09.64	+15	02	42.8	809
902	1985	02	25.17430	10	11	09.30	+15	02	43.6	809
902	1985	02	25.17951	10	11	08.98	+15	02	44.6	809
902	1985	02	26.09479	10	10	13.03	+15	05	35.9	809
902	1985	02	26.09965	10	10	12.75	+15	05	36.7	809
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1018	1985	02	16.33333	11	54	55.33	+02	42	43.4	809
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1018	1985	02	16.34722	11	54	54.81	+02	42	46.0	809
1100	1985	02	13.15347	11	05	12.77	+04	57	41.5	809
1100	1985	02	13.15903	11	05	12.50	+04	57	43.1	809
1100	1985	02	13.16458	11	05	12.28	+04	57	44.4	809
1100	1985	02	16.23194	11	03	04.67	+05	09	52.8	809
1100	1985	02	16.23750	11	03	04.42	+05	09	54.3	809
1100	1985	02	16.24306	11	03	04.18	+05	09	55.6	809
1100	1985	02	17.29375	11	02	18.49	+05	14	15.1	809
1100	1985	02	17.29930	11	02	18.27	+05	14	16.6	809
1100	1985	02	17.30486	11	02	18.04	+05	14	18.2	809
1245	1985	02	13.15347	11	07	39.14	+06	10	39.6	809
1245	1985	02	13.15903	11	07	38.90	+06	10	41.1	809
1245	1985	02	13.16458	11	07	38.67	+06	10	42.6	809
1245	1985	02	15.15486	11	06	19.52	+06	20	45.1	809
1245	1985	02	15.15972	11	06	19.32	+06	20	46.8	809
1245	1985	02	15.16458	11	06	19.11	+06	20	48.3	809

1245	1985	02	16.23194	11	05	35.33	+06	26	18.7	809
1245	1985	02	16.23750	11	05	35.07	+06	26	20.7	809
1245	1985	02	16.24306	11	05	34.84	+06	26	22.4	809
1245	1985	02	17.29375	11	04	50.85	+06	31	52.5	809
1245	1985	02	17.29930	11	04	50.61	+06	31	54.0	809
1245	1985	02	17.30486	11	04	50.36	+06	31	56.0	809
1245	1985	02	18.24444	11	04	10.52	+06	36	55.3	809
1245	1985	02	18.25000	11	04	10.27	+06	36	57.1	809
1245	1985	02	18.25556	11	04	10.05	+06	36	58.8	809
1245	1985	02	19.27153	11	03	26.24	+06	42	25.4	809
1245	1985	02	19.27708	11	03	25.97	+06	42	27.1	809
1245	1985	02	19.28264	11	03	25.73	+06	42	29.0	809
1245	1985	02	20.26181	11	02	42.90	+06	47	46.8	809
1245	1985	02	20.26736	11	02	42.67	+06	47	48.8	809
1245	1985	02	20.27292	11	02	42.43	+06	47	50.8	809
1245	1985	02	21.30972	11	01	56.45	+06	53	31.4	809
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1245	1985	02	21.32083	11	01	55.98	+06	53	35.0	809
1245	1985	02	22.24167	11	01	14.82	+06	58	39.4	809
1245	1985	02	22.24722	11	01	14.58	+06	58	41.2	809
1245	1985	02	22.25278	11	01	14.34	+06	58	43.1	809
1245	1985	02	26.23056	10	58	12.27	+07	20	58.6	809
1245	1985	02	26.23611	10	58	12.02	+07	21	00.2	809
1245	1985	02	26.24167	10	58	11.73	+07	21	01.8	809
1283	1985	02	09.08125	09	34	51.33	+10	43	31.5	809
1283	1985	02	09.08680	09	34	51.06	+10	43	33.3	809
1283	1985	02	09.09236	09	34	50.80	+10	43	35.3	809
1309	1985	02	11.12639	10	12	37.62	-02	28	06.9	809
1309	1985	02	11.13194	10	12	37.39	-02	28	05.6	809
1309	1985	02	11.13750	10	12	37.13	-02	28	03.5	809
1405	1985	02	10.10590	10	09	48.21	+07	51	30.9	809
1405	1985	02	10.11076	10	09	47.84	+07	51	31.2	809
1405	1985	02	10.11562	10	09	47.49	+07	51	31.6	809
1405	1985	02	11.08125	10	08	43.11	+07	53	35.8	809
1405	1985	02	11.08680	10	08	42.75	+07	53	36.3	809
1405	1985	02	11.09236	10	08	42.38	+07	53	37.1	809
1405	1985	02	12.07986	10	07	35.94	+07	55	47.9	809
1405	1985	02	12.08542	10	07	35.52	+07	55	48.9	809
1405	1985	02	12.09097	10	07	35.11	+07	55	50.1	809
1405	1985	02	14.07222	10	05	20.76	+08	00	26.4	809
1405	1985	02	14.07778	10	05	20.36	+08	00	26.9	809
1405	1985	02	14.08333	10	05	19.98	+08	00	28.0	809
1405	1985	02	15.07049	10	04	12.63	+08	02	50.3	809
1405	1985	02	15.07535	10	04	12.29	+08	02	50.8	809
1405	1985	02	15.08021	10	04	11.94	+08	02	51.7	809
1405	1985	02	16.09097	10	03	02.87	+08	05	21.3	809
1405	1985	02	16.09653	10	03	02.51	+08	05	21.9	809
1405	1985	02	16.10208	10	03	02.13	+08	05	23.0	809
1405	1985	02	17.09722	10	01	53.98	+08	07	52.4	809
1405	1985	02	17.10278	10	01	53.60	+08	07	52.9	809
1405	1985	02	17.10833	10	01	53.24	+08	07	53.8	809
1405	1985	02	18.09063	10	00	46.24	+08	10	23.9	809
1405	1985	02	18.09549	10	00	45.93	+08	10	24.0	809
1405	1985	02	18.10035	10	00	45.63	+08	10	24.9	809
1405	1985	02	19.09132	09	59	38.01	+08	12	58.3	809
1405	1985	02	19.09687	09	59	37.66	+08	12	59.4	809
1405	1985	02	19.10174	09	59	37.34	+08	13	00.2	809
1405	1985	02	20.08680	09	58	30.52	+08	15	32.6	809
1405	1985	02	20.09097	09	58	30.22	+08	15	33.4	809

1405	1985	02	20.09514	09	58	29.93	+08	15	33.9		809
1405	1985	02	21.09722	09	57	22.28	+08	18	12.3		809
1405	1985	02	21.10278	09	57	21.89	+08	18	13.0		809
1405	1985	02	21.10833	09	57	21.54	+08	18	13.9		809
1405	1985	02	24.08680	09	54	03.58	+08	26	02.7		809
1405	1985	02	24.09097	09	54	03.29	+08	26	03.6		809
1405	1985	02	24.09514	09	54	03.04	+08	26	04.2		809
1466	1985	02	12.05903	09	23	08.09	+09	40	48.9		809
1466	1985	02	12.06458	09	23	07.74	+09	40	52.5		809
1466	1985	02	12.07014	09	23	07.42	+09	40	56.5		809
1481	1985	02	12.14271	10	31	15.90	+11	24	21.0		809
1481	1985	02	12.14757	10	31	15.69	+11	24	22.0		809
1481	1985	02	12.15243	10	31	15.48	+11	24	23.0		809
1481	1985	02	14.15417	10	29	42.01	+11	31	55.5		809
1481	1985	02	14.16042	10	29	41.75	+11	31	57.0		809
1481	1985	02	14.16667	10	29	41.45	+11	31	58.8		809
1481	1985	02	16.17083	10	28	05.97	+11	39	37.6		809
1481	1985	02	16.17639	10	28	05.70	+11	39	38.6		809
1481	1985	02	16.18160	10	28	05.42	+11	39	40.3		809
1481	1985	02	17.18194	10	27	17.21	+11	43	27.7		809
1481	1985	02	17.18750	10	27	16.94	+11	43	29.0		809
1481	1985	02	17.19306	10	27	16.66	+11	43	30.3		809
1481	1985	02	18.14653	10	26	30.37	+11	47	09.7		809
1481	1985	02	18.15208	10	26	30.10	+11	47	11.0		809
1481	1985	02	18.15764	10	26	29.82	+11	47	12.3		809
1497	1985	02	12.15938	10	32	36.25	+08	18	06.7		809
1497	1985	02	12.16424	10	32	36.03	+08	18	08.1		809
1497	1985	02	12.16910	10	32	35.81	+08	18	09.3		809
1497	1985	02	14.17639	10	31	03.00	+08	26	36.5		809
1497	1985	02	14.18194	10	31	02.73	+08	26	37.9		809
1497	1985	02	14.18750	10	31	02.46	+08	26	39.4		809
1497	1985	02	15.10313	10	30	19.47	+08	30	34.0		809
1497	1985	02	15.10799	10	30	19.22	+08	30	35.3		809
1497	1985	02	15.11285	10	30	18.98	+08	30	36.6		809
1497	1985	02	16.20972	10	29	26.82	+08	35	20.9		809
1497	1985	02	16.21528	10	29	26.52	+08	35	22.4		809
1497	1985	02	16.22083	10	29	26.22	+08	35	23.9		809
1497	1985	02	17.20000	10	28	39.36	+08	39	39.3		809
1497	1985	02	17.20579	10	28	39.07	+08	39	40.7		809
1497	1985	02	17.21157	10	28	38.80	+08	39	42.3		809
1497	1985	02	18.16771	10	27	52.72	+08	43	54.6		809
1497	1985	02	18.17257	10	27	52.48	+08	43	55.8		809
1497	1985	02	18.17760	10	27	52.24	+08	43	57.3		809
1497	1985	02	19.19306	10	27	02.73	+08	48	26.1		809
1497	1985	02	19.19896	10	27	02.46	+08	48	27.8		809
1497	1985	02	19.20382	10	27	02.22	+08	48	29.1		809
1547	1985	02	11.12639	10	08	12.20	-02	11	44.6		809
1547	1985	02	11.13194	10	08	11.86	-02	11	45.5		809
1547	1985	02	11.13750	10	08	11.51	-02	11	45.6		809
1633	1985	02	10.08715	09	59	24.03	+14	30	31.5		809
1633	1985	02	10.09271	09	59	23.78	+14	30	33.2		809
1633	1985	02	10.09826	09	59	23.51	+14	30	35.0		809
1633	1985	02	11.10347	09	58	36.98	+14	35	46.4		809
1633	1985	02	11.10903	09	58	36.70	+14	35	48.3		809
1633	1985	02	11.11458	09	58	36.45	+14	35	50.3		809
1679	1985	02	15.23194	11	25	31.61	-02	30	11.1	16.9	809
1679	1985	02	15.24028	11	25	31.36	-02	30	07.4		809
1679	1985	02	15.24861	11	25	31.10	-02	30	04.2		809
1679	1985	02	17.37674	11	24	25.21	-02	15	15.7		809

1679	1985	02	17.38160	11	24	25.06	-02	15	13.6	809
1679	1985	02	17.38646	11	24	24.90	-02	15	11.6	809
1679	1985	02	18.30486	11	23	55.42	-02	08	33.8	809
1679	1985	02	18.31042	11	23	55.24	-02	08	31.4	809
1679	1985	02	18.31597	11	23	55.07	-02	08	29.0	809
1679	1985	02	19.34722	11	23	20.89	-02	00	54.8	809
1679	1985	02	19.35278	11	23	20.69	-02	00	52.3	809
1679	1985	02	19.35833	11	23	20.52	-02	00	49.8	809
1679	1985	02	20.32500	11	22	47.89	-01	53	33.2	809
1679	1985	02	20.33055	11	22	47.70	-01	53	30.6	809
1679	1985	02	20.33611	11	22	47.50	-01	53	28.2	809
1679	1985	02	21.37153	11	22	11.73	-01	45	31.4	809
1679	1985	02	21.37708	11	22	11.53	-01	45	28.9	809
1679	1985	02	21.38264	11	22	11.34	-01	45	26.2	809
1679	1985	02	23.36319	11	21	00.79	-01	29	47.3	809
1679	1985	02	23.36736	11	21	00.66	-01	29	45.3	809
1679	1985	02	23.37153	11	21	00.51	-01	29	43.4	809
1679	1985	02	24.28542	11	20	27.16	-01	22	19.8	809
1679	1985	02	24.28958	11	20	27.01	-01	22	17.9	809
1679	1985	02	24.29375	11	20	26.86	-01	22	16.1	809
1679	1985	02	26.28854	11	19	12.15	-01	05	45.9	809
1679	1985	02	26.29340	11	19	11.98	-01	05	43.5	809
1679	1985	02	26.29826	11	19	11.80	-01	05	41.2	809
1679	1985	02	27.35347	11	18	31.54	-00	56	44.5	809
1679	1985	02	27.35799	11	18	31.37	-00	56	42.2	809
1679	1985	02	27.36250	11	18	31.20	-00	56	39.9	809
1679	1985	02	28.35972	11	17	52.59	-00	48	07.7	809
1679	1985	02	28.36528	11	17	52.39	-00	48	04.8	809
1705	1985	02	13.17847	11	12	47.46	-00	37	38.6	809
1705	1985	02	13.18437	11	12	47.26	-00	37	36.7	809
1705	1985	02	13.19028	11	12	46.95	-00	37	34.9	809
1705	1985	02	15.17188	11	11	17.10	-00	26	10.0	809
1705	1985	02	15.17674	11	11	16.87	-00	26	08.1	809
1705	1985	02	15.18160	11	11	16.64	-00	26	06.2	809
1705	1985	02	17.31736	11	09	35.34	-00	13	03.1	809
1705	1985	02	17.32292	11	09	35.06	-00	13	01.1	809
1705	1985	02	17.32847	11	09	34.78	-00	12	59.1	809
1705	1985	02	18.26528	11	08	49.26	-00	07	03.7	809
1705	1985	02	18.27083	11	08	48.98	-00	07	01.6	809
1705	1985	02	18.27639	11	08	48.71	-00	06	59.7	809
1705	1985	02	19.29271	11	07	58.30	-00	00	24.7	809
1705	1985	02	19.29861	11	07	58.00	-00	00	22.4	809
1705	1985	02	19.30417	11	07	57.72	-00	00	20.2	809
1705	1985	02	20.28333	11	07	08.34	+00	06	07.0	809
1705	1985	02	20.28889	11	07	08.13	+00	06	09.2	809
1705	1985	02	20.29444	11	07	07.86	+00	06	11.4	809
1828	1985	02	15.23194	11	28	44.17	-03	42	10.8	809
1828	1985	02	15.24028	11	28	43.90	-03	42	07.8	809
1828	1985	02	15.24861	11	28	43.61	-03	42	04.8	809
1828	1985	02	17.37674	11	27	33.42	-03	29	27.8	809
1828	1985	02	17.38160	11	27	33.23	-03	29	25.9	809
1828	1985	02	17.38646	11	27	33.07	-03	29	24.1	809
1828	1985	02	18.30486	11	27	01.74	-03	23	45.2	809
1828	1985	02	18.31042	11	27	01.53	-03	23	43.0	809
1828	1985	02	18.31597	11	27	01.33	-03	23	40.8	809
1906	1985	02	12.10139	10	27	28.69	+14	24	22.8	809
1906	1985	02	12.10764	10	27	28.35	+14	24	24.8	809
1906	1985	02	12.11389	10	27	28.01	+14	24	26.4	809
1906	1985	02	14.13472	10	25	23.70	+14	32	12.9	809

1906	1985	02	14.14028	10	25	23.40	+14	32	14.6	809
1906	1985	02	14.14583	10	25	23.12	+14	32	15.4	809
1906	1985	02	16.12986	10	23	19.03	+14	39	48.6	809
1906	1985	02	16.13542	10	23	18.72	+14	39	50.0	809
1906	1985	02	16.14097	10	23	18.32	+14	39	51.3	809
1906	1985	02	17.13542	10	22	15.59	+14	43	35.1	809
1906	1985	02	17.14097	10	22	15.20	+14	43	36.6	809
1906	1985	02	17.14653	10	22	14.80	+14	43	37.7	809
1906	1985	02	18.12708	10	21	12.72	+14	47	16.5	809
1906	1985	02	18.13264	10	21	12.36	+14	47	17.7	809
1906	1985	02	18.13819	10	21	11.96	+14	47	18.9	809
1906	1985	02	19.14861	10	20	07.69	+14	51	00.8	809
1906	1985	02	19.15417	10	20	07.29	+14	51	01.9	809
1906	1985	02	19.15972	10	20	06.94	+14	51	03.3	809
1906	1985	02	20.16285	10	19	02.99	+14	54	41.0	809
1906	1985	02	20.16771	10	19	02.72	+14	54	41.7	809
1906	1985	02	20.17257	10	19	02.39	+14	54	43.2	809
1906	1985	02	21.16319	10	17	59.15	+14	58	13.6	809
1906	1985	02	21.16875	10	17	58.83	+14	58	14.8	809
1906	1985	02	21.17430	10	17	58.49	+14	58	16.0	809
1906	1985	02	24.11805	10	14	51.06	+15	08	17.2	809
1906	1985	02	24.12222	10	14	50.80	+15	08	18.3	809
1906	1985	02	24.12639	10	14	50.51	+15	08	19.1	809
1906	1985	02	25.16910	10	13	44.49	+15	11	42.0	809
1906	1985	02	25.17430	10	13	44.17	+15	11	43.0	809
1906	1985	02	25.17951	10	13	43.85	+15	11	44.1	809
1906	1985	02	26.09479	10	12	46.31	+15	14	37.0	809
1906	1985	02	26.09965	10	12	46.02	+15	14	37.6	809
1906	1985	02	26.10451	10	12	45.73	+15	14	38.4	809
1906	1985	02	27.09861	10	11	43.51	+15	17	42.3	809
1906	1985	02	27.10417	10	11	43.17	+15	17	43.7	809
1906	1985	02	28.09514	10	10	41.60	+15	20	41.0	809
1906	1985	02	28.10069	10	10	41.30	+15	20	41.4	809
2041	1985	02	15.25625	11	34	51.23	+05	02	00.5	809
2041	1985	02	15.26458	11	34	50.92	+05	02	03.0	809
2041	1985	02	15.27292	11	34	50.60	+05	02	05.6	809
2041	1985	02	16.30972	11	34	14.10	+05	07	01.4	809
2041	1985	02	16.31667	11	34	13.86	+05	07	04.0	809
2041	1985	02	16.32361	11	34	13.59	+05	07	06.6	809
2041	1985	02	17.36076	11	33	36.24	+05	12	06.3	809
2041	1985	02	17.36563	11	33	36.05	+05	12	07.7	809
2041	1985	02	17.37049	11	33	35.88	+05	12	09.1	809
2041	1985	02	18.32535	11	33	00.73	+05	16	50.0	809
2041	1985	02	18.33160	11	33	00.47	+05	16	51.7	809
2041	1985	02	18.33785	11	33	00.20	+05	16	53.7	809
2041	1985	02	22.31458	11	30	26.67	+05	37	00.8	809
2041	1985	02	22.31875	11	30	26.52	+05	37	02.2	809
2041	1985	02	22.32292	11	30	26.35	+05	37	03.8	809
2041	1985	02	24.30139	11	29	06.20	+05	47	21.8	809
2041	1985	02	24.30556	11	29	06.03	+05	47	23.4	809
2041	1985	02	24.30972	11	29	05.81	+05	47	24.5	809
2144	1985	02	15.25625	11	34	31.33	+04	40	55.3	809
2144	1985	02	15.26458	11	34	31.01	+04	40	57.8	809
2144	1985	02	15.27292	11	34	30.70	+04	41	00.4	809
2144	1985	02	16.30972	11	33	54.05	+04	46	10.1	809
2144	1985	02	16.31667	11	33	53.79	+04	46	12.1	809
2144	1985	02	16.32361	11	33	53.54	+04	46	14.2	809
2144	1985	02	17.36076	11	33	15.66	+04	51	30.3	809
2144	1985	02	17.36563	11	33	15.49	+04	51	31.6	809

2144		1985	02	17.37049	11	33	15.30	+04	51	33.2	809
2144		1985	02	18.32535	11	32	39.67	+04	56	30.0	809
2144		1985	02	18.33160	11	32	39.40	+04	56	32.0	809
2144		1985	02	18.33785	11	32	39.18	+04	56	34.0	809
2144		1985	02	19.36753	11	31	59.61	+05	01	58.8	809
2144		1985	02	19.37396	11	31	59.39	+05	02	01.0	809
2144		1985	02	19.37951	11	31	59.17	+05	02	02.6	809
2144		1985	02	20.37465	11	31	20.09	+05	07	21.6	809
2144		1985	02	20.37917	11	31	19.90	+05	07	23.2	809
2144		1985	02	20.38333	11	31	19.74	+05	07	24.6	809
2144		1985	02	22.31458	11	30	01.47	+05	17	57.8	809
2144		1985	02	22.31875	11	30	01.30	+05	17	59.0	809
2144		1985	02	22.32292	11	30	01.14	+05	18	00.9	809
2144		1985	02	23.39167	11	29	16.43	+05	23	57.0	809
2144		1985	02	23.39444	11	29	16.34	+05	23	57.9	809
2144		1985	02	23.39653	11	29	16.24	+05	23	58.5	809
2144		1985	02	24.30139	11	28	37.95	+05	29	03.2	809
2144		1985	02	24.30556	11	28	37.76	+05	29	05.1	809
2144		1985	02	24.30972	11	28	37.57	+05	29	06.9	809
2144		1985	02	26.30729	11	27	10.86	+05	40	28.4	809
2144		1985	02	26.31215	11	27	10.65	+05	40	29.9	809
2144		1985	02	26.31701	11	27	10.43	+05	40	31.6	809
2158		1985	02	11.05903	09	32	17.80	+12	56	09.4	809
2158		1985	02	11.06458	09	32	17.57	+12	56	10.9	809
2158		1985	02	11.07014	09	32	17.32	+12	56	12.1	809
2158		1985	02	13.03333	09	30	44.32	+13	04	14.2	809
2158		1985	02	13.03889	09	30	44.05	+13	04	14.8	809
2158		1985	02	13.04444	09	30	43.75	+13	04	15.6	809
2158		1985	02	15.02986	09	29	10.09	+13	12	23.4	809
2158		1985	02	15.03542	09	29	09.88	+13	12	24.4	809
2158		1985	02	15.04097	09	29	09.63	+13	12	26.0	809
2158		1985	02	16.05139	09	28	22.08	+13	16	33.4	809
2158		1985	02	16.05694	09	28	21.83	+13	16	34.4	809
2158		1985	02	16.06250	09	28	21.53	+13	16	35.4	809
2158		1985	02	17.05660	09	27	35.04	+13	20	37.6	809
2158		1985	02	17.06146	09	27	34.78	+13	20	38.8	809
2158		1985	02	17.06632	09	27	34.53	+13	20	40.0	809
2158		1985	02	18.05313	09	26	48.53	+13	24	39.8	809
2158		1985	02	18.05799	09	26	48.30	+13	24	40.9	809
2158		1985	02	18.06285	09	26	48.03	+13	24	42.0	809
2158		1985	02	19.05174	09	26	02.27	+13	28	38.4	809
2158		1985	02	19.05660	09	26	02.00	+13	28	40.0	809
2158		1985	02	19.06146	09	26	01.81	+13	28	41.5	809
2180		1985	02	14.20000	11	11	17.12	-07	48	44.7	809
2180		1985	02	14.20555	11	11	16.90	-07	48	43.5	809
2180		1985	02	14.21111	11	11	16.70	-07	48	42.4	809
2209		1985	02	13.15347	11	03	52.35	+06	30	45.3	809
2209		1985	02	13.15903	11	03	52.09	+06	30	47.2	809
2209		1985	02	13.16458	11	03	51.85	+06	30	48.6	809
2209		1985	02	15.15486	11	02	29.58	+06	41	16.1	809
2209		1985	02	15.15972	11	02	29.37	+06	41	17.6	809
2209		1985	02	15.16458	11	02	29.15	+06	41	19.0	809
2209		1985	02	16.23194	11	01	43.55	+06	47	03.0	809
2209		1985	02	16.23750	11	01	43.31	+06	47	04.9	809
2209		1985	02	16.24306	11	01	43.09	+06	47	06.8	809
2209		1985	02	17.29375	11	00	57.31	+06	52	49.8	809
2209		1985	02	17.29930	11	00	57.08	+06	52	51.8	809
2209		1985	02	17.30486	11	00	56.84	+06	52	54.0	809
2209		1985	02	18.24444	11	00	15.50	+06	58	03.4	809

2209	1985	02	18.25000	11	00	15.22	+06	58	05.1	809
2209	1985	02	18.25556	11	00	14.94	+06	58	06.8	809
2209	1985	02	19.27153	10	59	29.35	+07	03	46.3	809
2209	1985	02	19.27708	10	59	29.11	+07	03	48.0	809
2209	1985	02	19.28264	10	59	28.86	+07	03	50.2	809
2209	1985	02	20.26181	10	58	44.40	+07	09	20.3	809
2209	1985	02	20.26736	10	58	44.17	+07	09	22.0	809
2209	1985	02	20.27292	10	58	43.91	+07	09	23.8	809
2209	1985	02	21.30972	10	57	56.28	+07	15	16.6	809
2209	1985	02	21.31528	10	57	56.05	+07	15	18.5	809
2209	1985	02	21.32083	10	57	55.78	+07	15	20.3	809
2209	1985	02	22.24167	10	57	13.01	+07	20	36.5	809
2209	1985	02	22.24722	10	57	12.76	+07	20	38.5	809
2209	1985	02	22.25278	10	57	12.51	+07	20	40.5	809
2209	1985	02	24.22465	10	55	39.70	+07	32	01.4	809
2209	1985	02	24.22951	10	55	39.47	+07	32	03.2	809
2209	1985	02	24.23438	10	55	39.23	+07	32	04.9	809
2209	1985	02	26.23056	10	54	03.90	+07	43	40.6	809
2209	1985	02	26.23611	10	54	03.63	+07	43	42.4	809
2209	1985	02	26.24167	10	54	03.35	+07	43	44.3	809
2209	1985	02	27.28646	10	53	12.87	+07	49	49.7	809
2209	1985	02	27.29236	10	53	12.58	+07	49	51.7	809
2209	1985	02	27.29792	10	53	12.30	+07	49	53.7	809
2209	1985	02	28.31875	10	52	23.01	+07	55	48.9	809
2209	1985	02	28.32431	10	52	22.73	+07	55	51.1	809
2230	1985	02	14.21875	11	21	58.92	+04	39	04.8	809
2230	1985	02	14.22431	11	21	58.69	+04	39	06.3	809
2230	1985	02	14.22986	11	21	58.47	+04	39	08.1	809
2230	1985	02	16.27153	11	20	40.72	+04	49	16.1	809
2230	1985	02	16.27708	11	20	40.50	+04	49	17.9	809
2230	1985	02	16.28264	11	20	40.27	+04	49	19.7	809
2230	1985	02	17.34167	11	19	58.21	+04	54	46.2	809
2230	1985	02	17.34722	11	19	58.01	+04	54	47.7	809
2230	1985	02	17.35278	11	19	57.80	+04	54	49.4	809
2230	1985	02	18.28472	11	19	20.24	+04	59	40.0	809
2230	1985	02	18.29028	11	19	20.03	+04	59	42.0	809
2230	1985	02	18.29583	11	19	19.84	+04	59	43.5	809
2230	1985	02	19.32014	11	18	37.65	+05	05	08.5	809
2230	1985	02	19.32569	11	18	37.43	+05	05	10.5	809
2230	1985	02	19.33125	11	18	37.20	+05	05	12.4	809
2230	1985	02	20.30347	11	17	56.36	+05	10	24.5	809
2230	1985	02	20.30903	11	17	56.13	+05	10	26.0	809
2230	1985	02	20.31458	11	17	55.90	+05	10	27.9	809
2230	1985	02	21.35139	11	17	11.53	+05	16	05.1	809
2230	1985	02	21.35694	11	17	11.29	+05	16	06.8	809
2230	1985	02	21.36250	11	17	11.05	+05	16	08.6	809
2230	1985	02	22.32986	11	16	29.05	+05	21	27.9	809
2230	1985	02	22.33403	11	16	28.86	+05	21	29.7	809
2230	1985	02	22.33819	11	16	28.66	+05	21	31.7	809
2230	1985	02	23.34931	11	15	44.04	+05	27	09.6	809
2230	1985	02	23.35347	11	15	43.85	+05	27	10.9	809
2230	1985	02	23.35764	11	15	43.67	+05	27	12.3	809
2230	1985	02	24.25590	11	15	03.72	+05	32	15.7	809
2230	1985	02	24.26042	11	15	03.52	+05	32	17.2	809
2230	1985	02	24.26458	11	15	03.32	+05	32	18.3	809
2230	1985	02	26.27326	11	13	32.04	+05	43	42.3	809
2230	1985	02	26.27778	11	13	31.83	+05	43	44.1	809
2230	1985	02	26.28229	11	13	31.61	+05	43	45.9	809
2230	1985	02	27.32865	11	12	43.44	+05	49	46.1	809

2230	1985	02	27.33524	11	12	43.13	+05	49	48.4	809
2230	1985	02	27.33970	11	12	42.93	+05	49	50.1	809
2230	1985	02	28.34653	11	11	56.02	+05	55	39.6	809
2230	1985	02	28.35208	11	11	55.80	+05	55	41.5	809
2354	1985	02	09.08125	09	33	05.08	+11	35	05.5	809
2354	1985	02	09.08680	09	33	04.80	+11	35	07.4	809
2354	1985	02	09.09236	09	33	04.52	+11	35	09.6	809
2354	1985	02	10.06424	09	32	13.65	+11	40	08.9	809
2354	1985	02	10.07083	09	32	13.33	+11	40	11.1	809
2354	1985	02	10.07743	09	32	13.01	+11	40	12.5	809
2354	1985	02	11.05903	09	31	21.66	+11	45	16.2	809
2354	1985	02	11.06458	09	31	21.33	+11	45	17.9	809
2354	1985	02	11.07014	09	31	21.03	+11	45	19.2	809
2354	1985	02	13.03333	09	29	38.45	+11	55	27.4	809
2354	1985	02	13.03889	09	29	38.18	+11	55	29.2	809
2354	1985	02	13.04444	09	29	37.90	+11	55	30.8	809
2354	1985	02	15.02986	09	27	54.83	+12	05	44.6	809
2354	1985	02	15.03542	09	27	54.52	+12	05	46.4	809
2354	1985	02	15.04097	09	27	54.24	+12	05	48.3	809
2354	1985	02	16.05139	09	27	02.37	+12	11	01.8	809
2354	1985	02	16.05694	09	27	02.10	+12	11	03.1	809
2354	1985	02	16.06250	09	27	01.83	+12	11	04.3	809
2354	1985	02	17.05660	09	26	10.67	+12	16	09.6	809
2354	1985	02	17.06146	09	26	10.41	+12	16	11.8	809
2354	1985	02	17.06632	09	26	10.21	+12	16	13.4	809
2354	1985	02	18.05313	09	25	20.07	+12	21	15.4	809
2354	1985	02	18.05799	09	25	19.80	+12	21	16.6	809
2354	1985	02	18.06285	09	25	19.51	+12	21	18.5	809
2354	1985	02	19.05174	09	24	29.80	+12	26	20.4	809
2354	1985	02	19.05660	09	24	29.57	+12	26	21.8	809
2354	1985	02	19.06146	09	24	29.32	+12	26	23.3	809
2354	1985	02	20.04965	09	23	40.05	+12	31	22.2	809
2354	1985	02	20.05417	09	23	39.79	+12	31	23.4	809
2354	1985	02	20.05833	09	23	39.62	+12	31	24.5	809
2354	1985	02	21.05486	09	22	50.55	+12	36	24.2	809
2354	1985	02	21.06042	09	22	50.21	+12	36	26.0	809
2354	1985	02	21.06597	09	22	49.94	+12	36	27.5	809
2354	1985	02	22.05555	09	22	01.80	+12	41	23.0	809
2354	1985	02	22.06111	09	22	01.51	+12	41	24.7	809
2354	1985	02	22.06701	09	22	01.18	+12	41	26.4	809
2354	1985	02	24.03125	09	20	27.71	+12	51	04.0	809
2354	1985	02	24.03542	09	20	27.53	+12	51	05.2	809
2354	1985	02	24.03958	09	20	27.34	+12	51	06.6	809
2354	1985	02	25.03542	09	19	40.95	+12	55	55.2	809
2354	1985	02	25.04097	09	19	40.75	+12	55	57.1	809
2354	1985	02	25.04653	09	19	40.48	+12	55	58.7	809
2354	1985	02	26.02049	09	18	56.06	+13	00	36.6	809
2354	1985	02	26.02604	09	18	55.84	+13	00	38.5	809
2354	1985	02	26.03090	09	18	55.59	+13	00	39.4	809
2354	1985	02	27.02639	09	18	11.12	+13	05	20.0	809
2354	1985	02	27.03194	09	18	10.80	+13	05	22.1	809
2354	1985	02	28.02222	09	17	27.33	+13	09	57.8	809
2354	1985	02	28.02778	09	17	27.12	+13	09	58.4	809
2379	1985	02	16.33333	11	55	19.43	+00	44	30.9	809
2379	1985	02	16.34028	11	55	19.22	+00	44	32.6	809
2379	1985	02	16.34722	11	55	18.98	+00	44	33.8	809
2379	1985	02	20.34653	11	53	14.94	+00	58	25.8	809
2379	1985	02	20.35521	11	53	14.68	+00	58	27.4	809
2379	1985	02	20.36458	11	53	14.38	+00	58	29.2	809

2379	1985	02	21.33125	11	52	42.55	+01 02 03.3	809
2379	1985	02	21.33750	11	52	42.34	+01 02 04.2	809
2379	1985	02	21.34305	11	52	42.14	+01 02 05.0	809
2379	1985	02	22.28611	11	52	10.43	+01 05 37.7	809
2379	1985	02	22.29167	11	52	10.25	+01 05 39.0	809
2379	1985	02	22.29722	11	52	10.07	+01 05 40.2	809
2379	1985	02	23.37708	11	51	32.95	+01 09 47.9	809
2379	1985	02	23.38125	11	51	32.81	+01 09 49.0	809
2379	1985	02	23.38542	11	51	32.68	+01 09 49.9	809
2379	1985	02	24.31632	11	51	00.11	+01 13 28.0	809
2379	1985	02	24.32187	11	50	59.89	+01 13 29.2	809
2379	1985	02	24.32674	11	50	59.73	+01 13 30.2	809
2379	1985	02	26.32500	11	49	47.82	+01 21 30.3	809
2379	1985	02	26.33069	11	49	47.62	+01 21 31.7	809
2379	1985	02	26.33625	11	49	47.41	+01 21 33.0	809
2379	1985	02	28.37292	11	48	31.71	+01 29 54.7	809
2379	1985	02	28.37847	11	48	31.55	+01 29 56.5	809
2482	1985	02	12.14271	10	31	02.79	+13 09 03.1	809
2482	1985	02	12.14757	10	31	02.58	+13 09 04.5	809
2482	1985	02	12.15243	10	31	02.36	+13 09 06.0	809
2482	1985	02	14.15417	10	29	29.45	+13 20 17.0	809
2482	1985	02	14.16042	10	29	29.16	+13 20 18.8	809
2482	1985	02	14.16667	10	29	28.87	+13 20 20.7	809
2482	1985	02	16.17083	10	27	53.61	+13 31 32.8	809
2482	1985	02	16.17639	10	27	53.34	+13 31 34.6	809
2482	1985	02	16.18160	10	27	53.08	+13 31 36.2	809
2482	1985	02	17.18194	10	27	04.93	+13 37 10.7	809
2482	1985	02	17.18750	10	27	04.65	+13 37 12.4	809
2482	1985	02	17.19306	10	27	04.35	+13 37 14.1	809
2482	1985	02	18.14653	10	26	18.21	+13 42 33.1	809
2482	1985	02	18.15208	10	26	17.97	+13 42 35.0	809
2482	1985	02	18.15764	10	26	17.73	+13 42 36.7	809
2482	1985	02	19.16875	10	25	28.35	+13 48 13.5	809
2482	1985	02	19.17430	10	25	28.09	+13 48 15.4	809
2482	1985	02	19.17986	10	25	27.81	+13 48 17.3	809
2482	1985	02	20.18160	10	24	38.66	+13 53 47.8	809
2482	1985	02	20.18750	10	24	38.38	+13 53 49.7	809
2482	1985	02	20.19306	10	24	38.11	+13 53 51.6	809
2482	1985	02	21.18368	10	23	49.43	+13 59 16.5	809
2482	1985	02	21.18958	10	23	49.14	+13 59 18.4	809
2482	1985	02	21.19514	10	23	48.86	+13 59 20.3	809
2482	1985	02	24.14583	10	21	23.31	+14 15 12.1	809
2482	1985	02	24.15000	10	21	23.10	+14 15 13.5	809
2482	1985	02	24.15417	10	21	22.87	+14 15 14.7	809
2482	1985	02	25.20660	10	20	30.95	+14 20 48.0	809
2482	1985	02	25.21146	10	20	30.73	+14 20 49.1	809
2482	1985	02	25.21632	10	20	30.49	+14 20 50.9	809
2482	1985	02	26.14687	10	19	44.90	+14 25 41.1	809
2482	1985	02	26.15174	10	19	44.65	+14 25 42.9	809
2482	1985	02	26.15660	10	19	44.44	+14 25 44.3	809
2498	1985	02	13.15347	11	08	09.48	+05 19 07.7	809
2498	1985	02	13.15903	11	08	09.24	+05 19 08.8	809
2498	1985	02	13.16458	11	08	09.00	+05 19 10.4	809
2498	1985	02	15.15486	11	06	48.10	+05 26 53.0	809
2498	1985	02	15.15972	11	06	47.90	+05 26 54.2	809
2498	1985	02	15.16458	11	06	47.69	+05 26 55.5	809
2498	1985	02	16.23194	11	06	02.97	+05 31 12.0	809
2498	1985	02	16.23750	11	06	02.70	+05 31 13.4	809
2498	1985	02	16.24306	11	06	02.49	+05 31 14.7	809

2498	1985	02	17.29375	11	05	17.63	+05	35	31.5	809
2498	1985	02	17.29930	11	05	17.37	+05	35	32.8	809
2498	1985	02	17.30486	11	05	17.12	+05	35	34.0	809
2498	1985	02	18.24444	11	04	36.52	+05	39	27.4	809
2498	1985	02	18.25000	11	04	36.27	+05	39	28.7	809
2498	1985	02	18.25556	11	04	36.01	+05	39	30.1	809
2498	1985	02	19.27153	11	03	51.28	+05	43	47.5	809
2498	1985	02	19.27708	11	03	51.04	+05	43	48.8	809
2498	1985	02	19.28264	11	03	50.78	+05	43	50.4	809
2498	1985	02	20.26181	11	03	07.17	+05	48	01.2	809
2498	1985	02	20.26736	11	03	06.94	+05	48	02.6	809
2498	1985	02	20.27292	11	03	06.70	+05	48	03.8	809
2498	1985	02	21.30972	11	02	19.85	+05	52	33.4	809
2498	1985	02	21.31528	11	02	19.61	+05	52	34.5	809
2498	1985	02	21.32083	11	02	19.39	+05	52	35.5	809
2498	1985	02	22.24167	11	01	37.34	+05	56	37.7	809
2498	1985	02	22.24722	11	01	37.09	+05	56	39.1	809
2498	1985	02	22.25278	11	01	36.85	+05	56	40.5	809
2644	1985	02	16.33333	11	52	42.90	+00	55	49.8	809
2644	1985	02	16.34028	11	52	42.59	+00	55	51.3	809
2644	1985	02	16.34722	11	52	42.29	+00	55	52.7	809
2644	1985	02	20.34653	11	49	56.35	+01	08	50.0	809
2644	1985	02	20.35521	11	49	55.97	+01	08	51.7	809
2644	1985	02	20.36458	11	49	55.56	+01	08	53.8	809
2644	1985	02	21.33125	11	49	11.65	+01	12	24.9	809
2644	1985	02	21.33750	11	49	11.37	+01	12	26.2	809
2644	1985	02	21.34305	11	49	11.11	+01	12	27.3	809
2644	1985	02	22.28611	11	48	26.74	+01	16	00.0	809
2644	1985	02	22.29167	11	48	26.50	+01	16	01.1	809
2644	1985	02	22.29722	11	48	26.26	+01	16	02.2	809
2644	1985	02	23.37708	11	47	33.84	+01	20	17.0	809
2644	1985	02	23.38125	11	47	33.67	+01	20	18.1	809
2644	1985	02	23.38542	11	47	33.49	+01	20	19.0	809
2644	1985	02	24.31632	11	46	47.20	+01	24	06.8	809
2644	1985	02	24.32187	11	46	46.91	+01	24	08.4	809
2644	1985	02	24.32674	11	46	46.65	+01	24	09.7	809
2675	1985	02	12.14271	10	36	01.19	+11	41	16.1	809
2675	1985	02	12.14757	10	36	00.93	+11	41	17.5	809
2675	1985	02	12.15243	10	36	00.65	+11	41	19.0	809
2694	1985	02	10.10590	10	03	18.08	+09	02	46.8	809
2694	1985	02	10.11076	10	03	17.72	+09	02	48.5	809
2694	1985	02	10.11562	10	03	17.45	+09	02	50.0	809
2742	1985	02	11.10347	10	06	41.83	+13	41	39.5	809
2742	1985	02	11.10903	10	06	41.57	+13	41	41.2	809
2742	1985	02	11.11458	10	06	41.28	+13	41	43.1	809
2742	1985	02	13.05833	10	05	06.46	+13	52	19.3	809
2742	1985	02	13.06389	10	05	06.22	+13	52	20.9	809
2742	1985	02	13.06944	10	05	05.97	+13	52	22.0	809
2742	1985	02	14.09375	10	04	15.53	+13	57	58.3	809
2742	1985	02	14.09931	10	04	15.24	+13	57	59.8	809
2742	1985	02	14.10486	10	04	14.92	+13	58	01.3	809
2748	1985	02	15.25625	11	32	14.06	+03	40	14.4	809
2748	1985	02	15.26458	11	32	13.72	+03	40	16.1	809
2748	1985	02	15.27292	11	32	13.35	+03	40	17.6	809
2941	1985	02	12.10139	10	28	59.64	+13	51	40.3	17.0 809
2941	1985	02	12.10764	10	28	59.24	+13	51	42.0	809
2941	1985	02	12.11389	10	28	58.84	+13	51	44.1	809
2941	1985	02	14.13472	10	26	49.44	+14	01	25.7	809
2941	1985	02	14.14028	10	26	49.08	+14	01	27.5	809

2941	1985	02	14.14583	10	26	48.73	+14	01	29.0	809
2941	1985	02	16.12986	10	24	38.80	+14	10	55.6	809
2941	1985	02	16.13542	10	24	38.44	+14	10	57.4	809
2941	1985	02	16.14097	10	24	38.07	+14	10	59.2	809
2941	1985	02	17.13542	10	23	32.08	+14	15	40.3	809
2941	1985	02	17.14097	10	23	31.73	+14	15	41.9	809
2941	1985	02	17.14653	10	23	31.36	+14	15	43.4	809
2941	1985	02	18.12708	10	22	25.93	+14	20	17.5	809
2941	1985	02	18.13264	10	22	25.56	+14	20	19.4	809
2941	1985	02	18.13819	10	22	25.20	+14	20	20.8	809
2941	1985	02	19.14861	10	21	17.38	+14	25	00.6	809
2941	1985	02	19.15417	10	21	16.99	+14	25	02.1	809
2941	1985	02	19.15972	10	21	16.63	+14	25	03.4	809
2941	1985	02	20.16285	10	20	09.12	+14	29	36.4	809
2941	1985	02	20.16771	10	20	08.79	+14	29	37.7	809
2941	1985	02	20.17257	10	20	08.45	+14	29	39.0	809
2941	1985	02	21.16319	10	19	01.78	+14	34	04.9	809
2941	1985	02	21.16875	10	19	01.41	+14	34	06.7	809
2941	1985	02	21.17430	10	19	01.03	+14	34	08.6	809
2941	1985	02	24.11805	10	15	43.63	+14	46	45.5	809
2941	1985	02	24.12222	10	15	43.34	+14	46	46.5	809
2941	1985	02	24.12639	10	15	43.05	+14	46	47.3	809
2941	1985	02	24.14583	10	15	41.67	+14	46	53.1	17.3 809
2941	1985	02	24.15000	10	15	41.40	+14	46	54.0	809
2941	1985	02	24.15417	10	15	41.12	+14	46	55.2	809
2941	1985	02	25.16910	10	14	33.52	+14	51	03.5	809
2941	1985	02	25.17430	10	14	33.17	+14	51	04.9	809
2941	1985	02	25.17951	10	14	32.83	+14	51	06.2	809
2941	1985	02	26.09479	10	13	32.52	+14	54	42.5	809
2941	1985	02	26.09965	10	13	32.19	+14	54	44.0	809
2941	1985	02	26.10451	10	13	31.89	+14	54	45.4	809
2941	1985	02	26.14687	10	13	28.94	+14	54	56.7	809
2941	1985	02	26.15174	10	13	28.63	+14	54	58.0	809
2941	1985	02	26.15660	10	13	28.32	+14	54	59.4	809
2941	1985	02	27.09861	10	12	26.67	+14	58	36.8	809
2941	1985	02	27.10417	10	12	26.27	+14	58	37.5	809
2941	1985	02	27.18611	10	12	20.73	+14	58	56.9	809
2941	1985	02	27.19167	10	12	20.35	+14	58	58.1	809
2941	1985	02	27.19722	10	12	19.99	+14	58	59.1	809
2941	1985	02	28.09514	10	11	21.92	+15	02	19.4	809
2941	1985	02	28.10069	10	11	21.55	+15	02	20.6	809
2941	1985	02	28.18958	10	11	15.61	+15	02	40.4	809
2941	1985	02	28.19514	10	11	15.25	+15	02	41.8	809
2941	1985	02	28.20069	10	11	14.89	+15	02	43.2	809
2943	1985	02	09.08125	09	39	37.22	+10	44	41.4	809
2943	1985	02	09.08680	09	39	36.84	+10	44	41.8	809
2943	1985	02	09.09236	09	39	36.46	+10	44	42.1	809
2946	1985	02	13.15347	11	11	51.50	+04	53	03.3	809
2946	1985	02	13.15903	11	11	51.21	+04	53	05.0	809
2946	1985	02	13.16458	11	11	50.92	+04	53	06.6	809
3008	1985	02	16.33333	11	52	00.74	+00	51	06.5	17.8 809
3008	1985	02	16.34028	11	52	00.54	+00	51	08.1	809
3008	1985	02	16.34722	11	52	00.34	+00	51	09.8	809
3008	1985	02	20.34653	11	49	53.47	+01	06	01.6	809
3008	1985	02	20.35521	11	49	53.20	+01	06	03.5	809
3008	1985	02	20.36458	11	49	52.89	+01	06	05.4	809
3008	1985	02	21.33125	11	49	19.69	+01	09	58.6	809
3008	1985	02	21.33750	11	49	19.49	+01	10	00.1	809
3008	1985	02	21.34305	11	49	19.31	+01	10	01.5	809

3008		1985	02	22.28611	11	48	46.13	+01	13	52.9	809
3008		1985	02	22.29167	11	48	45.91	+01	13	54.4	809
3008		1985	02	22.29722	11	48	45.70	+01	13	55.9	809
3008		1985	02	23.37708	11	48	06.41	+01	18	28.2	809
3008		1985	02	23.38125	11	48	06.28	+01	18	29.0	809
3008		1985	02	23.38542	11	48	06.13	+01	18	29.8	809
3008		1985	02	24.31632	11	47	31.67	+01	22	30.9	809
3008		1985	02	24.32187	11	47	31.48	+01	22	32.3	809
3008		1985	02	24.32674	11	47	31.31	+01	22	33.5	809
3008		1985	02	26.32500	11	46	14.66	+01	31	26.3	809
3008		1985	02	26.33069	11	46	14.45	+01	31	28.0	809
3008		1985	02	26.33625	11	46	14.24	+01	31	29.5	809
3008		1985	02	27.38264	11	45	32.86	+01	36	16.0	809
3008		1985	02	27.38819	11	45	32.64	+01	36	17.5	809
3008		1985	02	27.39348	11	45	32.43	+01	36	18.9	809
3008		1985	02	28.37292	11	44	52.93	+01	40	51.3	809
3008		1985	02	28.37847	11	44	52.73	+01	40	53.0	809
1975	TZ2	1985	02	12.05903	09	20	08.28	+11	06	52.3	17.8 809
1975	TZ2	1985	02	12.06458	09	20	07.99	+11	06	54.1	809
1975	TZ2	1985	02	12.07014	09	20	07.70	+11	06	56.3	809
1975	TZ2	1985	02	14.05208	09	18	20.50	+11	20	02.0	809
1975	TZ2	1985	02	14.05764	09	18	20.20	+11	20	03.8	809
1975	TZ2	1985	02	14.06319	09	18	19.92	+11	20	06.0	809
1975	TZ2	1985	02	15.05174	09	17	27.03	+11	26	37.7	809
1975	TZ2	1985	02	15.05660	09	17	26.78	+11	26	39.3	809
1975	TZ2	1985	02	15.06146	09	17	26.53	+11	26	41.0	809
1975	TZ2	1985	02	16.07083	09	16	33.01	+11	33	20.3	809
1975	TZ2	1985	02	16.07639	09	16	32.72	+11	33	22.1	809
1975	TZ2	1985	02	16.08194	09	16	32.42	+11	33	24.2	809
1975	TZ2	1985	02	17.07396	09	15	40.32	+11	39	55.2	809
1975	TZ2	1985	02	17.08021	09	15	39.99	+11	39	57.7	809
1975	TZ2	1985	02	17.08646	09	15	39.68	+11	40	00.2	809
1975	TZ2	1985	02	18.07014	09	14	48.55	+11	46	25.3	809
1975	TZ2	1985	02	18.07569	09	14	48.28	+11	46	27.3	809
1975	TZ2	1985	02	18.08125	09	14	47.99	+11	46	29.4	809
1975	TZ2	1985	02	19.07014	09	13	57.21	+11	52	55.1	809
1975	TZ2	1985	02	19.07569	09	13	56.92	+11	52	57.2	809
1975	TZ2	1985	02	19.08125	09	13	56.63	+11	52	59.6	809
1975	TZ2	1985	02	20.06667	09	13	06.75	+11	59	21.5	809
1975	TZ2	1985	02	20.07222	09	13	06.46	+11	59	23.7	809
1975	TZ2	1985	02	20.07778	09	13	06.16	+11	59	25.6	809
1975	TZ2	1985	02	21.07500	09	12	16.44	+12	05	49.5	809
1975	TZ2	1985	02	21.08056	09	12	16.16	+12	05	51.4	809
1975	TZ2	1985	02	21.08611	09	12	15.88	+12	05	53.7	809
1975	TZ2	1985	02	22.08148	09	11	27.00	+12	12	13.2	809
1975	TZ2	1985	02	22.08750	09	11	26.70	+12	12	15.5	809
1975	TZ2	1985	02	22.09352	09	11	26.39	+12	12	17.8	809
1975	TZ2	1985	02	24.04514	09	09	53.15	+12	24	32.8	809
1975	TZ2	1985	02	24.04930	09	09	52.95	+12	24	34.4	809
1975	TZ2	1985	02	24.05347	09	09	52.75	+12	24	36.0	809
1975	TZ2	1985	02	25.05347	09	09	06.37	+12	30	47.0	809
1975	TZ2	1985	02	25.05903	09	09	06.09	+12	30	49.3	809
1975	TZ2	1985	02	25.06458	09	09	05.84	+12	30	51.0	809
1975	TZ2	1985	02	25.07153	09	09	05.53	+12	30	53.1	809
1975	TZ2	1985	02	25.07708	09	09	05.26	+12	30	55.3	809
1975	TZ2	1985	02	25.08264	09	09	04.99	+12	30	57.4	809
1975	TZ2	1985	02	27.14653	09	07	32.29	+12	43	30.6	809
1975	TZ2	1985	02	27.15243	09	07	32.02	+12	43	32.5	809
1975	TZ2	1985	02	27.15833	09	07	31.77	+12	43	34.4	809

1979	FV1	1985	02	14.15417	10	24	42.86	+13	25	17.0	17.7 809
1979	FV1	1985	02	14.16042	10	24	42.56	+13	25	18.2	809
1979	FV1	1985	02	14.16667	10	24	42.26	+13	25	19.3	809
1979	FV1	1985	02	16.17083	10	23	10.62	+13	30	46.3	809
1979	FV1	1985	02	16.17639	10	23	10.36	+13	30	47.4	809
1979	FV1	1985	02	16.18160	10	23	10.12	+13	30	48.4	809
1979	FV1	1985	02	17.18194	10	22	23.86	+13	33	30.8	809
1979	FV1	1985	02	17.18750	10	22	23.60	+13	33	31.8	809
1979	FV1	1985	02	17.19306	10	22	23.35	+13	33	32.8	809
1979	FV1	1985	02	18.14653	10	21	39.17	+13	36	06.1	809
1979	FV1	1985	02	18.15208	10	21	38.92	+13	36	06.9	809
1979	FV1	1985	02	18.15764	10	21	38.66	+13	36	07.7	809
1979	FV1	1985	02	19.16875	10	20	51.44	+13	38	49.6	809
1979	FV1	1985	02	19.17430	10	20	51.19	+13	38	50.5	809
1979	FV1	1985	02	19.17986	10	20	50.92	+13	38	51.4	809
1979	FV1	1985	02	20.18160	10	20	04.05	+13	41	31.3	809
1979	FV1	1985	02	20.18750	10	20	03.78	+13	41	32.2	809
1979	FV1	1985	02	20.19306	10	20	03.51	+13	41	33.1	809
1979	FV1	1985	02	21.18368	10	19	17.11	+13	44	09.4	809
1979	FV1	1985	02	21.18958	10	19	16.83	+13	44	10.4	809
1979	FV1	1985	02	21.19514	10	19	16.57	+13	44	11.2	809
1979	FV1	1985	02	24.14583	10	16	58.27	+13	51	44.3	809
1979	FV1	1985	02	24.15000	10	16	58.08	+13	51	44.8	809
1979	FV1	1985	02	24.15417	10	16	57.89	+13	51	45.5	809
1979	FV1	1985	02	26.14687	10	15	24.79	+13	56	39.0	809
1979	FV1	1985	02	26.15174	10	15	24.56	+13	56	39.6	809
1979	FV1	1985	02	26.15660	10	15	24.34	+13	56	40.3	809
1979	FV1	1985	02	27.18611	10	14	36.51	+13	59	07.7	809
1979	FV1	1985	02	27.19167	10	14	36.24	+13	59	08.6	809
1979	FV1	1985	02	27.19722	10	14	36.00	+13	59	09.4	809
1979	FV1	1985	02	28.18958	10	13	50.12	+14	01	27.3	809
1979	FV1	1985	02	28.19514	10	13	49.88	+14	01	28.0	809
1979	FV1	1985	02	28.20069	10	13	49.62	+14	01	28.8	809
1979	SY9	1985	02	13.15347	11	05	42.39	+06	39	32.6	18.1 809
1979	SY9	1985	02	13.15903	11	05	42.12	+06	39	34.4	809
1979	SY9	1985	02	13.16458	11	05	41.85	+06	39	36.1	809
1979	SY9	1985	02	15.15486	11	04	05.60	+06	49	26.8	809
1979	SY9	1985	02	15.15972	11	04	05.37	+06	49	27.9	809
1979	SY9	1985	02	15.16458	11	04	05.14	+06	49	29.3	809
1979	SY9	1985	02	16.23194	11	03	11.88	+06	54	54.3	809
1979	SY9	1985	02	16.23750	11	03	11.60	+06	54	55.9	809
1979	SY9	1985	02	16.24306	11	03	11.33	+06	54	57.7	809
1979	SY9	1985	02	17.29375	11	02	18.07	+07	00	22.0	809
1979	SY9	1985	02	17.29930	11	02	17.77	+07	00	23.9	809
1979	SY9	1985	02	17.30486	11	02	17.47	+07	00	25.6	809
1979	SY9	1985	02	18.24444	11	01	29.42	+07	05	18.6	809
1979	SY9	1985	02	18.25000	11	01	29.12	+07	05	20.3	809
1979	SY9	1985	02	18.25556	11	01	28.84	+07	05	22.0	809
1979	SY9	1985	02	19.27153	11	00	35.77	+07	10	43.9	809
1979	SY9	1985	02	19.27708	11	00	35.47	+07	10	45.6	809
1979	SY9	1985	02	19.28264	11	00	35.19	+07	10	47.4	809
1979	SY9	1985	02	20.26181	10	59	43.69	+07	15	59.6	809
1979	SY9	1985	02	20.26736	10	59	43.40	+07	16	01.2	809
1979	SY9	1985	02	20.27292	10	59	43.12	+07	16	02.9	809
1979	SY9	1985	02	22.24167	10	57	57.86	+07	26	36.9	809
1979	SY9	1985	02	22.24722	10	57	57.56	+07	26	38.7	809
1979	SY9	1985	02	22.25278	10	57	57.26	+07	26	40.5	809
1979	SY9	1985	02	24.22465	10	56	09.96	+07	37	23.6	809
1979	SY9	1985	02	24.22951	10	56	09.69	+07	37	25.4	809

1979	SY9	1985	02	24.23438	10	56	09.43	+07	37	27.3	809
1979	SY9	1985	02	26.23056	10	54	19.73	+07	48	20.8	809
1979	SY9	1985	02	26.23611	10	54	19.39	+07	48	22.8	809
1979	SY9	1985	02	26.24167	10	54	19.09	+07	48	24.6	809
1979	SY9	1985	02	27.28646	10	53	21.11	+07	54	06.3	809
1979	SY9	1985	02	27.29236	10	53	20.77	+07	54	08.2	809
1979	SY9	1985	02	27.29792	10	53	20.47	+07	54	10.1	809
1979	SY9	1985	02	28.31875	10	52	23.85	+07	59	43.3	809
1979	SY9	1985	02	28.32431	10	52	23.54	+07	59	45.2	809
1985	CD	1985	02	12.15938	10	31	15.72	+08	51	22.7	17.4 809
1985	CD	1985	02	12.16424	10	31	15.52	+08	51	26.1	809
1985	CD	1985	02	12.16910	10	31	15.32	+08	51	29.6	809
1985	CD	1985	02	14.17639	10	29	50.23	+09	15	44.9	809
1985	CD	1985	02	14.18194	10	29	50.00	+09	15	48.6	809
1985	CD	1985	02	14.18750	10	29	49.75	+09	15	52.6	809
1985	CD	1985	02	15.10313	10	29	09.96	+09	27	06.2	809
1985	CD	1985	02	15.10799	10	29	09.74	+09	27	09.7	809
1985	CD	1985	02	15.11285	10	29	09.54	+09	27	13.4	809
1985	CD	1985	02	16.20972	10	28	20.68	+09	40	46.1	809
1985	CD	1985	02	16.21528	10	28	20.43	+09	40	49.9	809
1985	CD	1985	02	16.22083	10	28	20.19	+09	40	54.2	809
1985	CD	1985	02	17.20000	10	27	36.15	+09	53	06.5	809
1985	CD	1985	02	17.20579	10	27	35.88	+09	53	10.8	809
1985	CD	1985	02	17.21157	10	27	35.65	+09	53	15.0	809
1985	CD	1985	02	18.16771	10	26	52.04	+10	05	14.0	809
1985	CD	1985	02	18.17257	10	26	51.82	+10	05	17.7	809
1985	CD	1985	02	18.17760	10	26	51.58	+10	05	21.4	809
1985	CD	1985	02	19.19306	10	26	04.78	+10	18	09.2	809
1985	CD	1985	02	19.19896	10	26	04.51	+10	18	13.7	809
1985	CD	1985	02	19.20382	10	26	04.31	+10	18	17.3	809
1985	CD	1985	02	20.20139	10	25	17.96	+10	30	54.2	809
1985	CD	1985	02	20.20694	10	25	17.70	+10	30	58.5	809
1985	CD	1985	02	20.21250	10	25	17.46	+10	31	02.7	809
1985	CD	1985	02	21.20833	10	24	30.59	+10	43	40.1	809
1985	CD	1985	02	21.21389	10	24	30.31	+10	43	44.5	809
1985	CD	1985	02	21.21944	10	24	30.03	+10	43	49.1	809
1985	CD	1985	02	24.13194	10	22	12.41	+11	20	50.9	809
1985	CD	1985	02	24.13611	10	22	12.20	+11	20	54.3	809
1985	CD	1985	02	24.14028	10	22	11.98	+11	20	57.0	809
1985	CD	1985	02	24.16076	10	22	10.96	+11	21	12.6	809
1985	CD	1985	02	24.16563	10	22	10.71	+11	21	16.4	809
1985	CD	1985	02	24.17049	10	22	10.45	+11	21	20.2	809
1985	CD	1985	02	25.18993	10	21	21.85	+11	34	16.8	809
1985	CD	1985	02	25.19479	10	21	21.62	+11	34	20.9	809
1985	CD	1985	02	25.19965	10	21	21.36	+11	34	25.0	809
1985	CD	1985	02	25.22326	10	21	20.20	+11	34	41.9	809
1985	CD	1985	02	25.22847	10	21	19.94	+11	34	45.9	809
1985	CD	1985	02	25.23368	10	21	19.71	+11	34	49.8	809
1985	CD	1985	02	26.11285	10	20	38.16	+11	45	59.3	809
1985	CD	1985	02	26.11736	10	20	37.93	+11	46	02.7	809
1985	CD	1985	02	26.12188	10	20	37.72	+11	46	06.2	809
1985	CD	1985	02	27.11354	10	19	50.59	+11	58	38.1	809
1985	CD	1985	02	27.11944	10	19	50.30	+11	58	42.9	809
1985	CD	1985	02	28.11111	10	19	03.41	+12	11	12.4	809
1985	CD	1985	02	28.11667	10	19	03.16	+12	11	15.7	809
1985	CV	1985	02	14.15417	10	25	17.44	+12	38	07.9	17.0 809
1985	CV	1985	02	14.16042	10	25	17.13	+12	38	11.6	809
1985	CV	1985	02	14.16667	10	25	16.79	+12	38	15.6	809
1985	CV	1985	02	16.17083	10	23	35.51	+12	58	59.4	809

1985	CV		1985	02	16.17639	10	23	35.23	+12	59	02.9				809
1985	CV		1985	02	16.18160	10	23	34.98	+12	59	06.1				809
1985	CV		1985	02	17.18194	10	22	43.90	+13	09	24.8				809
1985	CV		1985	02	17.18750	10	22	43.59	+13	09	28.2				809
1985	CV		1985	02	17.19306	10	22	43.31	+13	09	31.7				809
1985	CV		1985	02	18.14653	10	21	54.34	+13	19	19.1				809
1985	CV		1985	02	18.15208	10	21	54.05	+13	19	22.7				809
1985	CV		1985	02	18.15764	10	21	53.77	+13	19	26.3				809
1985	CV		1985	02	19.16875	10	21	01.65	+13	29	47.0				809
1985	CV		1985	02	19.17430	10	21	01.36	+13	29	50.4				809
1985	CV		1985	02	19.17986	10	21	01.07	+13	29	53.8				809
1985	CV		1985	02	20.18160	10	20	09.31	+13	40	06.3				809
1985	CV		1985	02	20.18750	10	20	09.00	+13	40	10.0				809
1985	CV		1985	02	20.19306	10	20	08.73	+13	40	13.3				809
1985	CV		1985	02	21.18368	10	19	17.48	+13	50	16.3				809
1985	CV		1985	02	21.18958	10	19	17.16	+13	50	20.0				809
1985	CV		1985	02	21.19514	10	19	16.85	+13	50	23.3				809
1985	CV		1985	02	24.11805	10	16	46.26	+14	19	33.4			17.5	809
1985	CV		1985	02	24.12222	10	16	46.04	+14	19	36.0				809
1985	CV		1985	02	24.12639	10	16	45.83	+14	19	38.4				809
1985	CV		1985	02	24.14583	10	16	44.80	+14	19	50.3				809
1985	CV		1985	02	24.15000	10	16	44.58	+14	19	52.9				809
1985	CV		1985	02	24.15417	10	16	44.36	+14	19	55.1				809
1985	CV		1985	02	25.16910	10	15	52.36	+14	29	51.3				809
1985	CV		1985	02	25.17430	10	15	52.08	+14	29	54.3				809
1985	CV		1985	02	25.17951	10	15	51.82	+14	29	57.3				809
1985	CV		1985	02	26.09479	10	15	05.40	+14	38	49.5				809
1985	CV		1985	02	26.09965	10	15	05.15	+14	38	52.2				809
1985	CV		1985	02	26.10451	10	15	04.92	+14	38	55.0				809
1985	CV		1985	02	26.14687	10	15	02.60	+14	39	20.6				809
1985	CV		1985	02	26.15174	10	15	02.36	+14	39	23.2				809
1985	CV		1985	02	26.15660	10	15	02.11	+14	39	25.7				809
1985	CV		1985	02	27.09861	10	14	14.63	+14	48	28.3				809
1985	CV		1985	02	27.10417	10	14	14.33	+14	48	30.9				809
1985	CV		1985	02	27.18611	10	14	10.08	+14	49	17.9				809
1985	CV		1985	02	27.19167	10	14	09.77	+14	49	20.9				809
1985	CV		1985	02	27.19722	10	14	09.47	+14	49	24.0				809
1985	CV		1985	02	28.09514	10	13	24.63	+14	57	53.9				809
1985	CV		1985	02	28.10069	10	13	24.35	+14	57	57.0				809
1985	CV		1985	02	28.18958	10	13	19.79	+14	58	47.1				809
1985	CV		1985	02	28.19514	10	13	19.51	+14	58	50.3				809
1985	CV		1985	02	28.20069	10	13	19.23	+14	58	53.6				809
1985	CO1	*	1985	02	09.08125	09	34	34.17	+11	22	30.0			17.5	809
1985	CO1		1985	02	09.08680	09	34	33.85	+11	22	31.9				809
1985	CO1		1985	02	09.09236	09	34	33.53	+11	22	34.6				809
1985	CO1		1985	02	10.06424	09	33	38.97	+11	28	56.0				809
1985	CO1		1985	02	10.07083	09	33	38.61	+11	28	58.5				809
1985	CO1		1985	02	10.07743	09	33	38.24	+11	29	01.4				809
1985	CO1		1985	02	11.05903	09	32	42.94	+11	35	28.9				809
1985	CO1		1985	02	11.06458	09	32	42.63	+11	35	31.3				809
1985	CO1		1985	02	11.07014	09	32	42.31	+11	35	33.8				809
1985	CO1		1985	02	13.03333	09	30	51.94	+11	48	31.6				809
1985	CO1		1985	02	13.03889	09	30	51.64	+11	48	33.9				809
1985	CO1		1985	02	13.04444	09	30	51.34	+11	48	36.2				809
1985	CO1		1985	02	15.02986	09	29	00.45	+12	01	45.2				809
1985	CO1		1985	02	15.03542	09	29	00.17	+12	01	47.4				809
1985	CO1		1985	02	15.04097	09	28	59.84	+12	01	49.6				809
1985	CO1		1985	02	17.05660	09	27	08.77	+12	15	07.8				809
1985	CO1		1985	02	17.06146	09	27	08.48	+12	15	09.6				809

1985	CO1		1985	02	17.06632	09	27	08.20	+12	15	11.7	809
1985	CO1		1985	02	18.05313	09	26	14.65	+12	21	40.6	809
1985	CO1		1985	02	18.05799	09	26	14.37	+12	21	42.8	809
1985	CO1		1985	02	18.06285	09	26	14.11	+12	21	44.8	809
1985	CO1		1985	02	19.05174	09	25	21.04	+12	28	11.0	809
1985	CO1		1985	02	19.05660	09	25	20.78	+12	28	12.7	809
1985	CO1		1985	02	19.06146	09	25	20.49	+12	28	14.4	809
1985	CO1		1985	02	20.04965	09	24	28.19	+12	34	38.1	809
1985	CO1		1985	02	20.05417	09	24	27.98	+12	34	40.1	809
1985	CO1		1985	02	20.05833	09	24	27.76	+12	34	42.0	809
1985	CO1		1985	02	21.05486	09	23	35.85	+12	41	05.8	809
1985	CO1		1985	02	21.06042	09	23	35.58	+12	41	07.5	809
1985	CO1		1985	02	21.06597	09	23	35.29	+12	41	09.7	809
1985	CO1		1985	02	22.05555	09	22	44.54	+12	47	27.8	809
1985	CO1		1985	02	22.06111	09	22	44.25	+12	47	29.8	809
1985	CO1		1985	02	22.06701	09	22	43.94	+12	47	32.0	809
1985	CO1		1985	02	24.03125	09	21	06.24	+12	59	48.9	809
1985	CO1		1985	02	24.03542	09	21	06.04	+12	59	50.2	809
1985	CO1		1985	02	24.03958	09	21	05.83	+12	59	51.8	809
1985	CO1		1985	02	25.03542	09	20	17.94	+13	05	59.4	809
1985	CO1		1985	02	25.04097	09	20	17.67	+13	06	01.2	809
1985	CO1		1985	02	25.04653	09	20	17.40	+13	06	03.5	809
1985	CO1		1985	02	26.02049	09	19	31.66	+13	11	56.7	809
1985	CO1		1985	02	26.02604	09	19	31.42	+13	11	58.8	809
1985	CO1		1985	02	26.03090	09	19	31.20	+13	12	00.5	809
1985	CO1		1985	02	27.02639	09	18	45.80	+13	17	56.2	809
1985	CO1		1985	02	27.03194	09	18	45.54	+13	17	58.4	809
1985	CO1		1985	02	28.02222	09	18	01.67	+13	23	45.3	809
1985	CO1		1985	02	28.02778	09	18	01.42	+13	23	47.2	809
1985	CP1	*	1985	02	10.06424	09	27	55.97	+12	22	54.0	17.6 809
1985	CP1		1985	02	10.07083	09	27	55.65	+12	22	56.5	809
1985	CP1		1985	02	10.07743	09	27	55.32	+12	22	59.0	809
1985	CP1		1985	02	11.05903	09	27	04.45	+12	29	05.0	809
1985	CP1		1985	02	11.06458	09	27	04.16	+12	29	07.4	809
1985	CP1		1985	02	11.07014	09	27	03.90	+12	29	09.3	809
1985	CP1		1985	02	13.03333	09	25	22.33	+12	41	27.2	809
1985	CP1		1985	02	13.03889	09	25	22.05	+12	41	29.0	809
1985	CP1		1985	02	13.04444	09	25	21.76	+12	41	30.7	809
1985	CP1		1985	02	15.02986	09	23	39.70	+12	53	56.2	809
1985	CP1		1985	02	15.03542	09	23	39.40	+12	53	58.2	809
1985	CP1		1985	02	15.04097	09	23	39.12	+12	54	00.3	809
1985	CP1		1985	02	16.05139	09	22	47.46	+13	00	19.6	809
1985	CP1		1985	02	16.05694	09	22	47.20	+13	00	21.4	809
1985	CP1		1985	02	16.06250	09	22	46.93	+13	00	23.5	809
1985	CP1		1985	02	17.05660	09	21	56.42	+13	06	35.8	809
1985	CP1		1985	02	17.06146	09	21	56.20	+13	06	37.7	809
1985	CP1		1985	02	17.06632	09	21	55.94	+13	06	39.6	809
1985	CP1		1985	02	18.05313	09	21	06.26	+13	12	46.3	809
1985	CP1		1985	02	18.05799	09	21	06.01	+13	12	48.2	809
1985	CP1		1985	02	18.06285	09	21	05.78	+13	12	50.2	809
1985	CP1		1985	02	19.05174	09	20	16.40	+13	18	58.3	809
1985	CP1		1985	02	19.05660	09	20	16.15	+13	18	59.5	809
1985	CP1		1985	02	19.06146	09	20	15.92	+13	19	01.0	809
1985	CP1		1985	02	20.04965	09	19	27.21	+13	25	05.8	809
1985	CP1		1985	02	20.05417	09	19	26.98	+13	25	07.3	809
1985	CP1		1985	02	20.05833	09	19	26.78	+13	25	08.6	809
1985	CP1		1985	02	21.05486	09	18	38.22	+13	31	13.0	809
1985	CP1		1985	02	21.06042	09	18	37.93	+13	31	14.7	809
1985	CP1		1985	02	21.06597	09	18	37.66	+13	31	16.4	809

1985	CP1		1985	02	22.05555	09	17	50.14	+13	37	15.4			809
1985	CP1		1985	02	22.06111	09	17	49.86	+13	37	17.4			809
1985	CP1		1985	02	22.06701	09	17	49.57	+13	37	19.5			809
1985	CP1		1985	02	24.03125	09	16	17.58	+13	49	02.7			809
1985	CP1		1985	02	24.03542	09	16	17.39	+13	49	04.0			809
1985	CP1		1985	02	24.03958	09	16	17.20	+13	49	05.4			809
1985	CP1		1985	02	25.03542	09	15	31.69	+13	54	56.7			809
1985	CP1		1985	02	25.04097	09	15	31.43	+13	54	59.0			809
1985	CP1		1985	02	25.04653	09	15	31.19	+13	55	00.9			809
1985	CQ1	*	1985	02	10.06424	09	28	51.77	+11	01	58.5		17.4	809
1985	CQ1		1985	02	10.07083	09	28	51.33	+11	02	00.5			809
1985	CQ1		1985	02	10.07743	09	28	50.90	+11	02	02.4			809
1985	CQ1		1985	02	11.05903	09	27	46.68	+11	06	58.7			809
1985	CQ1		1985	02	11.06458	09	27	46.34	+11	07	00.3			809
1985	CQ1		1985	02	11.07014	09	27	45.96	+11	07	02.0			809
1985	CQ1		1985	02	13.03333	09	25	38.37	+11	16	56.0			809
1985	CQ1		1985	02	13.03889	09	25	38.00	+11	16	57.6			809
1985	CQ1		1985	02	13.04444	09	25	37.61	+11	16	59.3			809
1985	CQ1		1985	02	15.02986	09	23	30.13	+11	27	00.2			809
1985	CQ1		1985	02	15.03542	09	23	29.77	+11	27	01.7			809
1985	CQ1		1985	02	15.04097	09	23	29.40	+11	27	03.4			809
1985	CQ1		1985	02	16.05139	09	22	25.20	+11	32	08.0			809
1985	CQ1		1985	02	16.05694	09	22	24.83	+11	32	09.2			809
1985	CQ1		1985	02	16.06250	09	22	24.46	+11	32	11.2			809
1985	CQ1		1985	02	17.05660	09	21	22.08	+11	37	09.5			809
1985	CQ1		1985	02	17.06146	09	21	21.77	+11	37	10.9			809
1985	CQ1		1985	02	17.06632	09	21	21.46	+11	37	12.3			809
1985	CQ1		1985	02	18.05313	09	20	20.19	+11	42	06.3			809
1985	CQ1		1985	02	18.05799	09	20	19.90	+11	42	07.6			809
1985	CQ1		1985	02	18.06285	09	20	19.60	+11	42	08.9			809
1985	CQ1		1985	02	19.05174	09	19	18.98	+11	47	02.1			809
1985	CQ1		1985	02	19.05660	09	19	18.66	+11	47	03.6			809
1985	CQ1		1985	02	19.06146	09	19	18.35	+11	47	05.1			809
1985	CQ1		1985	02	20.04965	09	18	18.81	+11	51	55.1			809
1985	CQ1		1985	02	20.05417	09	18	18.54	+11	51	56.4			809
1985	CQ1		1985	02	20.05833	09	18	18.29	+11	51	57.6			809
1985	CQ1		1985	02	21.05486	09	17	19.06	+11	56	46.3			809
1985	CQ1		1985	02	21.06042	09	17	18.72	+11	56	48.0			809
1985	CQ1		1985	02	21.06597	09	17	18.37	+11	56	49.6			809
1985	CQ1		1985	02	22.05555	09	16	20.59	+12	01	34.7			809
1985	CQ1		1985	02	22.06111	09	16	20.28	+12	01	36.3			809
1985	CQ1		1985	02	22.06701	09	16	19.95	+12	01	37.8			809
1985	CQ1		1985	02	24.03125	09	14	28.65	+12	10	51.4			809
1985	CQ1		1985	02	24.03542	09	14	28.42	+12	10	52.6			809
1985	CQ1		1985	02	24.03958	09	14	28.19	+12	10	53.8			809
1985	CQ1		1985	02	25.03542	09	13	33.60	+12	15	30.7			809
1985	CQ1		1985	02	25.04097	09	13	33.29	+12	15	32.3			809
1985	CQ1		1985	02	25.04653	09	13	32.99	+12	15	33.8			809
1985	CQ1		1985	02	26.02049	09	12	40.79	+12	19	57.8			809
1985	CQ1		1985	02	26.02604	09	12	40.48	+12	19	59.4			809
1985	CQ1		1985	02	26.03090	09	12	40.20	+12	20	00.7			809
1985	CQ1		1985	02	27.02639	09	11	48.17	+12	24	27.4			809
1985	CQ1		1985	02	27.03194	09	11	47.90	+12	24	28.8			809
1985	CR1	*	1985	02	10.08715	10	02	01.18	+14	31	23.4		17.5	809
1985	CR1		1985	02	10.09271	10	02	00.91	+14	31	25.0			809
1985	CR1		1985	02	10.09826	10	02	00.65	+14	31	26.9			809
1985	CR1		1985	02	11.10347	10	01	13.27	+14	36	46.6			809
1985	CR1		1985	02	11.10903	10	01	13.00	+14	36	48.3			809
1985	CR1		1985	02	11.11458	10	01	12.73	+14	36	50.1			809

1985	CR1		1985	02	14.09375	09	58	50.22	+14	52	32.3	809
1985	CR1		1985	02	14.09931	09	58	49.95	+14	52	34.3	809
1985	CR1		1985	02	14.10486	09	58	49.68	+14	52	36.2	809
1985	CR1		1985	02	16.11042	09	57	12.56	+15	03	03.7	809
1985	CR1		1985	02	16.11597	09	57	12.30	+15	03	05.4	809
1985	CR1		1985	02	16.12153	09	57	12.03	+15	03	07.5	809
1985	CR1		1985	02	17.11771	09	56	23.66	+15	08	17.0	809
1985	CR1		1985	02	17.12257	09	56	23.43	+15	08	18.2	809
1985	CR1		1985	02	17.12743	09	56	23.20	+15	08	20.0	809
1985	CR1		1985	02	19.12847	09	54	46.14	+15	18	32.0	809
1985	CR1		1985	02	19.13403	09	54	45.88	+15	18	33.9	809
1985	CR1		1985	02	19.13958	09	54	45.63	+15	18	35.5	809
1985	CR1		1985	02	20.14236	09	53	57.15	+15	23	37.2	809
1985	CR1		1985	02	20.14792	09	53	56.91	+15	23	39.0	809
1985	CR1		1985	02	20.15347	09	53	56.64	+15	23	40.9	809
1985	CR1		1985	02	21.12569	09	53	09.93	+15	28	30.2	809
1985	CR1		1985	02	21.13125	09	53	09.66	+15	28	31.7	809
1985	CR1		1985	02	21.13681	09	53	09.39	+15	28	33.6	809
1985	CR1		1985	02	22.17222	09	52	19.86	+15	33	37.0	809
1985	CR1		1985	02	22.17812	09	52	19.60	+15	33	38.9	809
1985	CR1		1985	02	22.18403	09	52	19.33	+15	33	40.7	809
1985	CR1		1985	02	24.10104	09	50	48.92	+15	42	49.5	809
1985	CR1		1985	02	24.10590	09	50	48.69	+15	42	50.5	809
1985	CR1		1985	02	24.11076	09	50	48.46	+15	42	52.3	809
1985	CR1		1985	02	25.14375	09	50	00.38	+15	47	40.8	809
1985	CR1		1985	02	25.14931	09	50	00.11	+15	47	42.2	809
1985	CR1		1985	02	25.15486	09	49	59.85	+15	47	43.8	809
1985	CR1		1985	02	27.16667	09	48	28.02	+15	56	47.5	809
1985	CR1		1985	02	27.17222	09	48	27.74	+15	56	49.3	809
1985	CR1		1985	02	27.17778	09	48	27.46	+15	56	51.0	809
1985	CR1		1985	02	28.16944	09	47	43.24	+16	01	10.9	809
1985	CR1		1985	02	28.17500	09	47	43.01	+16	01	12.2	809
1985	CR1		1985	02	28.18056	09	47	42.78	+16	01	13.7	809
1985	CS1	*	1985	02	10.10590	10	09	17.59	+07	23	35.7	17.7 809
1985	CS1		1985	02	10.11076	10	09	17.34	+07	23	37.5	809
1985	CS1		1985	02	10.11562	10	09	17.06	+07	23	39.2	809
1985	CS1		1985	02	11.08125	10	08	22.97	+07	30	28.4	809
1985	CS1		1985	02	11.08680	10	08	22.66	+07	30	30.6	809
1985	CS1		1985	02	11.09236	10	08	22.35	+07	30	32.8	809
1985	CS1		1985	02	12.07986	10	07	26.13	+07	37	38.8	809
1985	CS1		1985	02	12.08542	10	07	25.82	+07	37	41.2	809
1985	CS1		1985	02	12.09097	10	07	25.50	+07	37	43.6	809
1985	CS1		1985	02	14.07222	10	05	30.53	+07	52	20.0	809
1985	CS1		1985	02	14.07778	10	05	30.21	+07	52	22.5	809
1985	CS1		1985	02	14.08333	10	05	29.87	+07	52	25.0	809
1985	CS1		1985	02	15.07049	10	04	31.56	+07	59	52.1	809
1985	CS1		1985	02	15.07535	10	04	31.24	+07	59	54.2	809
1985	CS1		1985	02	15.08021	10	04	30.95	+07	59	56.5	809
1985	CS1		1985	02	16.09097	10	03	30.69	+08	07	39.6	809
1985	CS1		1985	02	16.09653	10	03	30.35	+08	07	42.4	809
1985	CS1		1985	02	16.10208	10	03	30.01	+08	07	45.0	809
1985	CS1		1985	02	17.09722	10	02	30.23	+08	15	27.3	809
1985	CS1		1985	02	17.10278	10	02	29.90	+08	15	29.5	809
1985	CS1		1985	02	17.10833	10	02	29.55	+08	15	32.1	809
1985	CS1		1985	02	18.09063	10	01	30.27	+08	23	13.6	809
1985	CS1		1985	02	18.09549	10	01	29.96	+08	23	15.8	809
1985	CS1		1985	02	18.10035	10	01	29.69	+08	23	18.0	809
1985	CS1		1985	02	19.09132	10	00	29.52	+08	31	04.9	809
1985	CS1		1985	02	19.09687	10	00	29.17	+08	31	07.8	809

1985	CS1		1985	02	19.10174	10	00	28.87	+08	31	10.2	809
1985	CS1		1985	02	20.08680	09	59	28.88	+08	38	59.3	809
1985	CS1		1985	02	20.09097	09	59	28.64	+08	39	01.6	809
1985	CS1		1985	02	20.09514	09	59	28.40	+08	39	03.7	809
1985	CS1		1985	02	21.09722	09	58	27.31	+08	47	06.1	809
1985	CS1		1985	02	21.10278	09	58	26.96	+08	47	08.8	809
1985	CS1		1985	02	21.10833	09	58	26.64	+08	47	11.7	809
1985	CS1		1985	02	24.08680	09	55	25.34	+09	11	11.9	809
1985	CS1		1985	02	24.09097	09	55	25.09	+09	11	14.0	809
1985	CS1		1985	02	24.09514	09	55	24.85	+09	11	15.9	809
1985	CS1		1985	02	25.12674	09	54	22.36	+09	19	37.1	809
1985	CS1		1985	02	25.13160	09	54	22.08	+09	19	39.3	809
1985	CS1		1985	02	25.13646	09	54	21.80	+09	19	41.8	809
1985	CS1		1985	02	26.07743	09	53	25.41	+09	27	18.9	809
1985	CS1		1985	02	26.08229	09	53	25.09	+09	27	21.3	809
1985	CS1		1985	02	26.08715	09	53	24.79	+09	27	23.6	809
1985	CS1		1985	02	27.08299	09	52	25.31	+09	35	27.4	809
1985	CS1		1985	02	27.08889	09	52	24.95	+09	35	30.2	809
1985	CS1		1985	02	28.07639	09	51	26.67	+09	43	29.0	809
1985	CS1		1985	02	28.08194	09	51	26.40	+09	43	31.8	809
1985	CT1	*	1985	02	11.03750	08	27	51.15	+12	40	13.3	17.8 809
1985	CT1		1985	02	11.04306	08	27	50.87	+12	40	13.8	809
1985	CT1		1985	02	11.04861	08	27	50.59	+12	40	14.3	809
1985	CT1		1985	02	12.03333	08	27	01.47	+12	41	37.1	809
1985	CT1		1985	02	12.03889	08	27	01.16	+12	41	37.5	809
1985	CT1		1985	02	12.04444	08	27	00.85	+12	41	37.9	809
1985	CT1		1985	02	14.03125	08	25	25.33	+12	44	26.3	809
1985	CT1		1985	02	14.03681	08	25	25.05	+12	44	26.8	809
1985	CT1		1985	02	14.04236	08	25	24.77	+12	44	27.3	809
1985	CT1		1985	02	16.03437	08	23	54.42	+12	47	16.4	809
1985	CT1		1985	02	16.03924	08	23	54.20	+12	47	17.3	809
1985	CT1		1985	02	16.04410	08	23	53.99	+12	47	18.2	809
1985	CT1		1985	02	17.03646	08	23	11.17	+12	48	42.2	809
1985	CT1		1985	02	17.04201	08	23	10.89	+12	48	42.9	809
1985	CT1		1985	02	17.04826	08	23	10.63	+12	48	43.0	809
1985	CT1		1985	02	18.03437	08	22	29.56	+12	50	06.3	809
1985	CT1		1985	02	18.03924	08	22	29.36	+12	50	06.9	809
1985	CT1		1985	02	18.04410	08	22	29.16	+12	50	07.7	809
1985	CT1		1985	02	19.03368	08	21	49.66	+12	51	29.5	809
1985	CT1		1985	02	19.03854	08	21	49.48	+12	51	30.1	809
1985	CT1		1985	02	19.04340	08	21	49.30	+12	51	30.4	809
1985	CT1		1985	02	20.03142	08	21	11.46	+12	52	53.4	809
1985	CT1		1985	02	20.03646	08	21	11.25	+12	52	53.6	809
1985	CT1		1985	02	20.04201	08	21	11.04	+12	52	54.1	809
1985	CT1		1985	02	21.03403	08	20	34.69	+12	54	14.5	809
1985	CT1		1985	02	21.03958	08	20	34.52	+12	54	14.8	809
1985	CT1		1985	02	21.04514	08	20	34.32	+12	54	15.6	809
1985	CT1		1985	02	22.03542	08	19	59.88	+12	55	34.6	809
1985	CT1		1985	02	22.04097	08	19	59.67	+12	55	35.1	809
1985	CT1		1985	02	22.04653	08	19	59.46	+12	55	35.4	809
1985	CT1		1985	02	24.01736	08	18	56.34	+12	58	08.5	809
1985	CT1		1985	02	24.02153	08	18	56.20	+12	58	08.9	809
1985	CT1		1985	02	24.02569	08	18	56.06	+12	58	09.3	809
1985	CT1		1985	02	25.01667	08	18	27.09	+12	59	23.4	809
1985	CT1		1985	02	25.02257	08	18	26.95	+12	59	23.9	809
1985	CT1		1985	02	25.02847	08	18	26.80	+12	59	24.4	809
1985	CU1	*	1985	02	11.08125	10	12	17.57	+07	49	43.5	17.8 809
1985	CU1		1985	02	11.08680	10	12	17.02	+07	49	39.9	809
1985	CU1		1985	02	11.09236	10	12	16.46	+07	49	36.4	809

1985	CU1		1985	02	12.07986	10	10	38.99	+07	39	45.7	809
1985	CU1		1985	02	12.08542	10	10	38.44	+07	39	42.0	809
1985	CU1		1985	02	12.09097	10	10	37.89	+07	39	38.4	809
1985	CU1		1985	02	14.07222	10	07	21.61	+07	20	08.1	809
1985	CU1		1985	02	14.07778	10	07	21.08	+07	20	04.7	809
1985	CU1		1985	02	14.08333	10	07	20.55	+07	20	01.3	809
1985	CU1		1985	02	15.07049	10	05	42.70	+07	10	26.7	809
1985	CU1		1985	02	15.07535	10	05	42.22	+07	10	23.6	809
1985	CU1		1985	02	15.08021	10	05	41.73	+07	10	20.6	809
1985	CU1		1985	02	16.09097	10	04	01.68	+07	00	39.0	809
1985	CU1		1985	02	16.09653	10	04	01.15	+07	00	35.5	809
1985	CU1		1985	02	16.10208	10	04	00.62	+07	00	32.5	809
1985	CU1		1985	02	17.09722	10	02	22.28	+06	51	05.4	809
1985	CU1		1985	02	17.10278	10	02	21.72	+06	51	02.2	809
1985	CU1		1985	02	17.10833	10	02	21.15	+06	50	59.1	809
1985	CU1		1985	02	18.09063	10	00	44.76	+06	41	46.0	809
1985	CU1		1985	02	18.09549	10	00	44.26	+06	41	43.3	809
1985	CU1		1985	02	18.10035	10	00	43.80	+06	41	40.6	809
1985	CU1		1985	02	19.10938	09	59	05.14	+06	32	17.9	809
1985	CU1		1985	02	19.11424	09	59	04.67	+06	32	15.2	809
1985	CU1		1985	02	19.11910	09	59	04.18	+06	32	12.7	809
1985	CU1		1985	02	20.10243	09	57	28.78	+06	23	09.6	809
1985	CU1		1985	02	20.10729	09	57	28.31	+06	23	06.9	809
1985	CU1		1985	02	20.11215	09	57	27.84	+06	23	04.1	809
1985	CU1		1985	02	22.10903	09	54	16.69	+06	05	03.7	809
1985	CU1		1985	02	22.11458	09	54	16.15	+06	05	00.9	809
1985	CU1		1985	02	22.12014	09	54	15.62	+06	04	58.0	809
1985	CU1		1985	02	24.05972	09	51	14.25	+05	47	52.1	809
1985	CU1		1985	02	24.06319	09	51	13.95	+05	47	50.2	809
1985	CU1		1985	02	24.06701	09	51	13.62	+05	47	48.6	809
1985	CU1		1985	02	25.09236	09	49	39.66	+05	38	57.3	809
1985	CU1		1985	02	25.09792	09	49	39.13	+05	38	54.4	809
1985	CU1		1985	02	25.10347	09	49	38.61	+05	38	51.5	809
1985	CU1		1985	02	26.03993	09	48	14.20	+05	30	51.9	809
1985	CU1		1985	02	26.04479	09	48	13.73	+05	30	49.5	809
1985	CU1		1985	02	26.04965	09	48	13.29	+05	30	47.1	809
1985	CU1		1985	02	27.05104	09	46	44.57	+05	22	23.6	809
1985	CU1		1985	02	27.05590	09	46	44.13	+05	22	21.0	809
1985	CU1		1985	02	28.04167	09	45	18.39	+05	14	09.5	809
1985	CU1		1985	02	28.04722	09	45	17.91	+05	14	06.8	809
1985	CV1	*	1985	02	11.10347	10	05	50.06	+14	49	55.8	18.0 809
1985	CV1		1985	02	11.10903	10	05	49.78	+14	49	57.2	809
1985	CV1		1985	02	11.11458	10	05	49.51	+14	49	59.0	809
1985	CV1		1985	02	13.05833	10	04	17.97	+14	58	10.6	809
1985	CV1		1985	02	13.06389	10	04	17.70	+14	58	12.4	809
1985	CV1		1985	02	13.06944	10	04	17.43	+14	58	13.8	809
1985	CV1		1985	02	14.09375	10	03	28.60	+15	02	32.6	809
1985	CV1		1985	02	14.09931	10	03	28.34	+15	02	34.5	809
1985	CV1		1985	02	14.10486	10	03	28.05	+15	02	35.8	809
1985	CV1		1985	02	16.11042	10	01	51.81	+15	10	58.6	809
1985	CV1		1985	02	16.11597	10	01	51.54	+15	11	00.0	809
1985	CV1		1985	02	16.12153	10	01	51.25	+15	11	01.3	809
1985	CV1		1985	02	17.11771	10	01	03.28	+15	15	08.4	809
1985	CV1		1985	02	17.12257	10	01	03.05	+15	15	09.7	809
1985	CV1		1985	02	17.12743	10	01	02.83	+15	15	11.0	809
1985	CV1		1985	02	19.12847	09	59	26.14	+15	23	20.3	809
1985	CV1		1985	02	19.13403	09	59	25.86	+15	23	21.7	809
1985	CV1		1985	02	19.13958	09	59	25.58	+15	23	23.1	809
1985	CV1		1985	02	20.14236	09	58	37.31	+15	27	23.4	809

1985	CV1		1985	02	20.14792	09	58	37.04	+15	27	24.8	809
1985	CV1		1985	02	20.15347	09	58	36.78	+15	27	25.7	809
1985	CV1		1985	02	21.12569	09	57	50.14	+15	31	15.9	809
1985	CV1		1985	02	21.13125	09	57	49.87	+15	31	17.2	809
1985	CV1		1985	02	21.13681	09	57	49.60	+15	31	18.8	809
1985	CV1		1985	02	22.17222	09	57	00.03	+15	35	19.0	809
1985	CV1		1985	02	22.17812	09	56	59.74	+15	35	20.6	809
1985	CV1		1985	02	22.18403	09	56	59.46	+15	35	22.1	809
1985	CV1		1985	02	24.10104	09	55	28.69	+15	42	36.8	809
1985	CV1		1985	02	24.10590	09	55	28.49	+15	42	38.0	809
1985	CV1		1985	02	24.11076	09	55	28.27	+15	42	38.9	809
1985	CV1		1985	02	25.14375	09	54	39.84	+15	46	26.1	809
1985	CV1		1985	02	25.14931	09	54	39.57	+15	46	27.8	809
1985	CV1		1985	02	25.15486	09	54	39.31	+15	46	29.1	809
1985	CV1		1985	02	28.16944	09	52	21.10	+15	57	01.5	809
1985	CV1		1985	02	28.17500	09	52	20.86	+15	57	02.5	809
1985	CV1		1985	02	28.18056	09	52	20.63	+15	57	03.4	809
1985	CW1	*	1985	02	11.12639	10	08	40.99	-02	16	39.4	18.1 809
1985	CW1		1985	02	11.13194	10	08	40.80	-02	16	38.0	809
1985	CW1		1985	02	11.13750	10	08	40.59	-02	16	36.7	809
1985	CX1	*	1985	02	12.05903	09	18	42.16	+10	42	58.1	18.1 809
1985	CX1		1985	02	12.06458	09	18	41.81	+10	42	59.8	809
1985	CX1		1985	02	12.07014	09	18	41.47	+10	43	01.5	809
1985	CX1		1985	02	14.05208	09	16	39.07	+10	53	34.3	809
1985	CX1		1985	02	14.05764	09	16	38.72	+10	53	36.3	809
1985	CX1		1985	02	14.06319	09	16	38.37	+10	53	38.3	809
1985	CX1		1985	02	15.05174	09	15	38.07	+10	58	55.1	809
1985	CX1		1985	02	15.05660	09	15	37.77	+10	58	56.7	809
1985	CX1		1985	02	15.06146	09	15	37.47	+10	58	58.2	809
1985	CX1		1985	02	16.07083	09	14	36.28	+11	04	23.1	809
1985	CX1		1985	02	16.07639	09	14	35.94	+11	04	24.9	809
1985	CX1		1985	02	16.08194	09	14	35.59	+11	04	26.9	809
1985	CX1		1985	02	17.07396	09	13	36.19	+11	09	45.4	809
1985	CX1		1985	02	17.08021	09	13	35.83	+11	09	47.6	809
1985	CX1		1985	02	17.08646	09	13	35.46	+11	09	49.9	809
1985	CX1		1985	02	18.07014	09	12	37.29	+11	15	05.2	809
1985	CX1		1985	02	18.07569	09	12	36.94	+11	15	07.2	809
1985	CX1		1985	02	18.08125	09	12	36.60	+11	15	09.2	809
1985	CX1		1985	02	22.08148	09	08	49.61	+11	36	23.5	809
1985	CX1		1985	02	22.08750	09	08	49.27	+11	36	25.3	809
1985	CX1		1985	02	22.09352	09	08	48.94	+11	36	27.0	809
1985	CX1		1985	02	25.07153	09	06	12.23	+11	51	50.6	809
1985	CX1		1985	02	25.07708	09	06	11.94	+11	51	52.4	809
1985	CX1		1985	02	25.08264	09	06	11.64	+11	51	54.2	809
1985	CY1	*	1985	02	12.07986	10	06	56.11	+06	46	06.0	17.9 809
1985	CY1		1985	02	12.08542	10	06	55.88	+06	46	09.8	809
1985	CY1		1985	02	12.09097	10	06	55.67	+06	46	13.5	809
1985	CY1		1985	02	14.07222	10	05	41.69	+07	07	57.3	809
1985	CY1		1985	02	14.07778	10	05	41.50	+07	08	00.9	809
1985	CY1		1985	02	14.08333	10	05	41.27	+07	08	04.5	809
1985	CY1		1985	02	15.07049	10	05	03.95	+07	19	03.1	809
1985	CY1		1985	02	15.07535	10	05	03.74	+07	19	06.6	809
1985	CY1		1985	02	15.08021	10	05	03.55	+07	19	09.8	809
1985	CY1		1985	02	16.09097	10	04	24.97	+07	30	29.0	809
1985	CY1		1985	02	16.09653	10	04	24.78	+07	30	32.7	809
1985	CY1		1985	02	16.10208	10	04	24.55	+07	30	36.4	809
1985	CY1		1985	02	17.09722	10	03	46.43	+07	41	49.3	809
1985	CY1		1985	02	17.10278	10	03	46.19	+07	41	53.3	809
1985	CY1		1985	02	17.10833	10	03	45.97	+07	41	57.0	809

1985	CY1		1985	02	18.09063	10	03	08.28	+07	53	06.4	809
1985	CY1		1985	02	18.09549	10	03	08.07	+07	53	09.4	809
1985	CY1		1985	02	18.10035	10	03	07.88	+07	53	12.5	809
1985	CY1		1985	02	19.09132	10	02	29.78	+08	04	30.0	809
1985	CY1		1985	02	19.09687	10	02	29.55	+08	04	33.6	809
1985	CY1		1985	02	19.10174	10	02	29.37	+08	04	37.3	809
1985	CY1		1985	02	20.08680	10	01	51.55	+08	15	52.2	809
1985	CY1		1985	02	20.09097	10	01	51.40	+08	15	55.2	809
1985	CY1		1985	02	20.09514	10	01	51.24	+08	15	58.3	809
1985	CY1		1985	02	21.09722	10	01	12.90	+08	27	25.4	809
1985	CY1		1985	02	21.10278	10	01	12.69	+08	27	29.2	809
1985	CY1		1985	02	21.10833	10	01	12.48	+08	27	33.0	809
1985	CY1		1985	02	24.08680	09	59	20.06	+09	01	41.2	809
1985	CY1		1985	02	24.09097	09	59	19.91	+09	01	44.1	809
1985	CY1		1985	02	24.09514	09	59	19.75	+09	01	46.7	809
1985	CY1		1985	02	25.12674	09	58	41.56	+09	13	31.1	809
1985	CY1		1985	02	25.13160	09	58	41.39	+09	13	34.3	809
1985	CY1		1985	02	25.13646	09	58	41.21	+09	13	37.7	809
1985	CY1		1985	02	26.07743	09	58	07.03	+09	24	22.2	809
1985	CY1		1985	02	26.08229	09	58	06.83	+09	24	25.6	809
1985	CY1		1985	02	26.08715	09	58	06.64	+09	24	29.1	809
1985	CY1		1985	02	27.08299	09	57	30.90	+09	35	46.3	809
1985	CY1		1985	02	27.08889	09	57	30.70	+09	35	49.6	809
1985	CY1		1985	02	28.07639	09	56	55.88	+09	46	56.9	809
1985	CY1		1985	02	28.08194	09	56	55.70	+09	47	00.7	809
1985	CZ1	*	1985	02	12.07986	10	13	14.80	+06	25	28.7	17.2 809
1985	CZ1		1985	02	12.08542	10	13	14.46	+06	25	29.3	809
1985	CZ1		1985	02	12.09097	10	13	14.13	+06	25	30.0	809
1985	CZ1		1985	02	14.07222	10	11	10.82	+06	29	51.3	809
1985	CZ1		1985	02	14.07778	10	11	10.46	+06	29	52.1	809
1985	CZ1		1985	02	14.08333	10	11	10.10	+06	29	52.8	809
1985	CZ1		1985	02	15.07049	10	10	07.97	+06	32	12.3	809
1985	CZ1		1985	02	15.07535	10	10	07.66	+06	32	12.8	809
1985	CZ1		1985	02	15.08021	10	10	07.38	+06	32	13.2	809
1985	CZ1		1985	02	16.09097	10	09	03.41	+06	34	40.5	809
1985	CZ1		1985	02	16.09653	10	09	03.03	+06	34	41.2	809
1985	CZ1		1985	02	16.10208	10	09	02.69	+06	34	41.8	809
1985	CZ1		1985	02	17.09722	10	07	59.33	+06	37	11.4	809
1985	CZ1		1985	02	17.10278	10	07	58.96	+06	37	12.4	809
1985	CZ1		1985	02	17.10833	10	07	58.61	+06	37	13.4	809
1985	CZ1		1985	02	18.09063	10	06	56.14	+06	39	43.8	809
1985	CZ1		1985	02	18.09549	10	06	55.83	+06	39	44.5	809
1985	CZ1		1985	02	18.10035	10	06	55.52	+06	39	45.2	809
1985	CZ1		1985	02	19.10938	10	05	51.14	+06	42	23.9	809
1985	CZ1		1985	02	19.11424	10	05	50.84	+06	42	24.9	809
1985	CZ1		1985	02	19.11910	10	05	50.54	+06	42	25.5	809
1985	CZ1		1985	02	20.12118	10	04	46.70	+06	45	07.2	809
1985	CZ1		1985	02	20.12604	10	04	46.39	+06	45	07.7	809
1985	CZ1		1985	02	20.13194	10	04	46.02	+06	45	08.8	809
1985	CZ1		1985	02	22.13125	10	02	39.14	+06	50	38.7	809
1985	CZ1		1985	02	22.13681	10	02	38.80	+06	50	39.3	809
1985	CZ1		1985	02	22.14236	10	02	38.43	+06	50	40.5	809
1985	CZ1		1985	02	24.07292	10	00	37.39	+06	56	05.9	809
1985	CZ1		1985	02	24.07708	10	00	37.11	+06	56	06.2	809
1985	CZ1		1985	02	24.08194	10	00	36.77	+06	56	07.2	809
1985	CZ1		1985	02	25.11007	09	59	32.83	+06	59	03.1	809
1985	CZ1		1985	02	25.11528	09	59	32.48	+06	59	04.0	809
1985	CZ1		1985	02	25.12049	09	59	32.16	+06	59	05.1	809
1985	CZ1		1985	02	26.06007	09	58	34.49	+07	01	45.5	809

1985	CZ1		1985	02	26.06493	09	58	34.19	+07	01	46.5	809
1985	CZ1		1985	02	26.06979	09	58	33.92	+07	01	46.8	809
1985	CZ1		1985	02	27.06875	09	57	33.02	+07	04	40.1	809
1985	CZ1		1985	02	27.07431	09	57	32.69	+07	04	40.8	809
1985	CZ1		1985	02	28.05833	09	56	33.56	+07	07	30.1	809
1985	CZ1		1985	02	28.06458	09	56	33.18	+07	07	30.6	809
1985	CA2	*	1985	02	12.10139	10	28	24.12	+13	38	30.8	17.5 809
1985	CA2		1985	02	12.10764	10	28	23.75	+13	38	33.8	809
1985	CA2		1985	02	12.11389	10	28	23.41	+13	38	37.1	809
1985	CA2		1985	02	14.13472	10	26	29.03	+13	56	11.4	809
1985	CA2		1985	02	14.14028	10	26	28.71	+13	56	14.4	809
1985	CA2		1985	02	14.14583	10	26	28.39	+13	56	17.3	809
1985	CA2		1985	02	16.12986	10	24	33.46	+14	13	30.3	809
1985	CA2		1985	02	16.13542	10	24	33.12	+14	13	33.0	809
1985	CA2		1985	02	16.14097	10	24	32.78	+14	13	35.8	809
1985	CA2		1985	02	17.13542	10	23	34.33	+14	22	11.6	809
1985	CA2		1985	02	17.14097	10	23	34.00	+14	22	14.5	809
1985	CA2		1985	02	17.14653	10	23	33.67	+14	22	17.6	809
1985	CA2		1985	02	18.12708	10	22	35.70	+14	30	43.5	809
1985	CA2		1985	02	18.13264	10	22	35.37	+14	30	46.3	809
1985	CA2		1985	02	18.13819	10	22	35.05	+14	30	49.0	809
1985	CA2		1985	02	19.14861	10	21	34.82	+14	39	27.0	809
1985	CA2		1985	02	19.15417	10	21	34.49	+14	39	30.0	809
1985	CA2		1985	02	19.15972	10	21	34.15	+14	39	33.0	809
1985	CA2		1985	02	20.16285	10	20	34.22	+14	48	03.0	809
1985	CA2		1985	02	20.16771	10	20	33.93	+14	48	05.4	809
1985	CA2		1985	02	20.17257	10	20	33.64	+14	48	07.9	809
1985	CA2		1985	02	21.16319	10	19	34.36	+14	56	27.6	809
1985	CA2		1985	02	21.16875	10	19	34.03	+14	56	30.5	809
1985	CA2		1985	02	21.17430	10	19	33.69	+14	56	33.3	809
1985	CA2		1985	02	24.11805	10	16	37.94	+15	20	44.0	809
1985	CA2		1985	02	24.12222	10	16	37.69	+15	20	46.0	809
1985	CA2		1985	02	24.12639	10	16	37.45	+15	20	48.0	809
1985	CA2		1985	02	25.16910	10	15	35.49	+15	29	07.3	809
1985	CA2		1985	02	25.17430	10	15	35.19	+15	29	10.3	809
1985	CA2		1985	02	25.17951	10	15	34.89	+15	29	12.8	809
1985	CA2		1985	02	26.09479	10	14	41.11	+15	36	24.6	809
1985	CA2		1985	02	26.09965	10	14	40.82	+15	36	27.2	809
1985	CA2		1985	02	26.10451	10	14	40.52	+15	36	29.7	809
1985	CA2		1985	02	27.09861	10	13	42.26	+15	44	09.3	809
1985	CA2		1985	02	27.10417	10	13	41.95	+15	44	12.4	809
1985	CA2		1985	02	28.09514	10	12	44.41	+15	51	44.1	809
1985	CA2		1985	02	28.10069	10	12	44.08	+15	51	46.6	809
1985	CB2	*	1985	02	12.14271	10	31	01.41	+11	16	31.4	17.6 809
1985	CB2		1985	02	12.14757	10	31	01.20	+11	16	33.9	809
1985	CB2		1985	02	12.15243	10	31	00.99	+11	16	36.2	809
1985	CB2		1985	02	14.15417	10	29	36.81	+11	30	40.8	809
1985	CB2		1985	02	14.16042	10	29	36.56	+11	30	43.2	809
1985	CB2		1985	02	14.16667	10	29	36.29	+11	30	45.9	809
1985	CB2		1985	02	16.17083	10	28	10.04	+11	45	01.3	809
1985	CB2		1985	02	16.17639	10	28	09.78	+11	45	03.9	809
1985	CB2		1985	02	16.18160	10	28	09.54	+11	45	06.3	809
1985	CB2		1985	02	17.18194	10	27	25.84	+11	52	12.8	809
1985	CB2		1985	02	17.18750	10	27	25.60	+11	52	15.1	809
1985	CB2		1985	02	17.19306	10	27	25.36	+11	52	17.5	809
1985	CB2		1985	02	18.14653	10	26	43.40	+11	59	06.7	809
1985	CB2		1985	02	18.15208	10	26	43.15	+11	59	09.1	809
1985	CB2		1985	02	18.15764	10	26	42.91	+11	59	11.5	809
1985	CB2		1985	02	19.16875	10	25	57.97	+12	06	24.3	809

1985	CB2		1985	02	19.17430	10	25	57.73	+12	06	27.0	809
1985	CB2		1985	02	19.17986	10	25	57.48	+12	06	29.4	809
1985	CB2		1985	02	20.18160	10	25	12.84	+12	13	40.3	809
1985	CB2		1985	02	20.18750	10	25	12.59	+12	13	42.8	809
1985	CB2		1985	02	20.19306	10	25	12.36	+12	13	45.2	809
1985	CB2		1985	02	21.18368	10	24	28.02	+12	20	49.3	809
1985	CB2		1985	02	21.18958	10	24	27.77	+12	20	51.8	809
1985	CB2		1985	02	21.19514	10	24	27.52	+12	20	54.2	809
1985	CB2		1985	02	24.13194	10	22	15.26	+12	41	48.2	809
1985	CB2		1985	02	24.13611	10	22	15.05	+12	41	50.0	809
1985	CB2		1985	02	24.14028	10	22	14.86	+12	41	51.9	809
1985	CB2		1985	02	25.18993	10	21	27.45	+12	49	16.0	809
1985	CB2		1985	02	25.19479	10	21	27.21	+12	49	18.0	809
1985	CB2		1985	02	25.19965	10	21	26.98	+12	49	20.2	809
1985	CB2		1985	02	26.11285	10	20	45.95	+12	55	44.9	809
1985	CB2		1985	02	26.11736	10	20	45.73	+12	55	46.7	809
1985	CB2		1985	02	26.12188	10	20	45.55	+12	55	48.9	809
1985	CB2		1985	02	27.11354	10	20	00.77	+13	02	43.7	809
1985	CB2		1985	02	27.11944	10	20	00.50	+13	02	46.3	809
1985	CB2		1985	02	28.11111	10	19	16.27	+13	09	39.0	809
1985	CB2		1985	02	28.11667	10	19	15.98	+13	09	41.2	809
1985	CC2	*	1985	02	12.14271	10	31	16.56	+12	53	49.1	17.3 809
1985	CC2		1985	02	12.14757	10	31	16.32	+12	53	51.2	809
1985	CC2		1985	02	12.15243	10	31	16.07	+12	53	53.4	809
1985	CC2		1985	02	14.15417	10	29	27.64	+13	09	10.6	809
1985	CC2		1985	02	14.16042	10	29	27.28	+13	09	13.3	809
1985	CC2		1985	02	14.16667	10	29	26.94	+13	09	16.0	809
1985	CC2		1985	02	16.17083	10	27	35.05	+13	24	40.0	809
1985	CC2		1985	02	16.17639	10	27	34.74	+13	24	42.3	809
1985	CC2		1985	02	16.18160	10	27	34.45	+13	24	44.6	809
1985	CC2		1985	02	17.18194	10	26	37.50	+13	32	25.8	809
1985	CC2		1985	02	17.18750	10	26	37.19	+13	32	28.3	809
1985	CC2		1985	02	17.19306	10	26	36.87	+13	32	30.8	809
1985	CC2		1985	02	18.14653	10	25	42.27	+13	39	50.4	809
1985	CC2		1985	02	18.15208	10	25	41.95	+13	39	52.7	809
1985	CC2		1985	02	18.15764	10	25	41.63	+13	39	55.5	809
1985	CC2		1985	02	19.16875	10	24	43.04	+13	47	40.6	809
1985	CC2		1985	02	19.17430	10	24	42.70	+13	47	43.1	809
1985	CC2		1985	02	19.17986	10	24	42.35	+13	47	45.5	809
1985	CC2		1985	02	20.18160	10	23	44.05	+13	55	23.0	809
1985	CC2		1985	02	20.18750	10	23	43.67	+13	55	25.8	809
1985	CC2		1985	02	20.19306	10	23	43.34	+13	55	28.4	809
1985	CC2		1985	02	21.18368	10	22	45.27	+14	03	00.3	809
1985	CC2		1985	02	21.18958	10	22	44.91	+14	03	03.0	809
1985	CC2		1985	02	21.19514	10	22	44.55	+14	03	05.5	809
1985	CC2		1985	02	24.14583	10	19	50.85	+14	25	06.9	809
1985	CC2		1985	02	24.15000	10	19	50.63	+14	25	08.5	809
1985	CC2		1985	02	24.15417	10	19	50.42	+14	25	10.2	809
1985	CC2		1985	02	25.20660	10	18	48.29	+14	32	51.7	809
1985	CC2		1985	02	25.21146	10	18	48.01	+14	32	53.9	809
1985	CC2		1985	02	25.21632	10	18	47.72	+14	32	56.0	809
1985	CC2		1985	02	26.14687	10	17	53.24	+14	39	40.0	809
1985	CC2		1985	02	26.15174	10	17	52.97	+14	39	41.7	809
1985	CC2		1985	02	26.15660	10	17	52.69	+14	39	43.5	809
1985	CC2		1985	02	27.18611	10	16	52.47	+14	47	03.8	809
1985	CC2		1985	02	27.19167	10	16	52.15	+14	47	06.0	809
1985	CC2		1985	02	27.19722	10	16	51.81	+14	47	08.3	809
1985	CC2		1985	02	28.18958	10	15	54.27	+14	54	05.7	809
1985	CC2		1985	02	28.19514	10	15	53.95	+14	54	07.9	809

1985	CC2		1985	02	28.20069	10	15	53.63	+14	54	10.2	809
1985	CD2	*	1985	02	12.15938	10	28	47.64	+08	51	16.5	18.2 809
1985	CD2		1985	02	12.16424	10	28	47.42	+08	51	17.8	809
1985	CD2		1985	02	12.16910	10	28	47.17	+08	51	18.9	809
1985	CD2		1985	02	14.17639	10	27	16.35	+08	59	37.9	809
1985	CD2		1985	02	14.18194	10	27	16.10	+08	59	39.5	809
1985	CD2		1985	02	14.18750	10	27	15.85	+08	59	40.8	809
1985	CD2		1985	02	15.10313	10	26	33.55	+09	03	32.6	809
1985	CD2		1985	02	15.10799	10	26	33.33	+09	03	33.9	809
1985	CD2		1985	02	15.11285	10	26	33.11	+09	03	35.1	809
1985	CD2		1985	02	16.20972	10	25	41.46	+09	08	17.4	809
1985	CD2		1985	02	16.21528	10	25	41.20	+09	08	18.9	809
1985	CD2		1985	02	16.22083	10	25	40.92	+09	08	20.3	809
1985	CD2		1985	02	17.20000	10	24	54.53	+09	12	36.1	809
1985	CD2		1985	02	17.20579	10	24	54.26	+09	12	37.3	809
1985	CD2		1985	02	17.21157	10	24	54.01	+09	12	38.5	809
1985	CD2		1985	02	18.16771	10	24	08.33	+09	16	51.0	809
1985	CD2		1985	02	18.17257	10	24	08.10	+09	16	52.1	809
1985	CD2		1985	02	18.17760	10	24	07.86	+09	16	53.3	809
1985	CD2		1985	02	19.19306	10	23	18.72	+09	21	22.6	809
1985	CD2		1985	02	19.19896	10	23	18.43	+09	21	24.6	809
1985	CD2		1985	02	19.20382	10	23	18.16	+09	21	25.8	809
1985	CD2		1985	02	20.20139	10	22	29.58	+09	25	52.4	809
1985	CD2		1985	02	20.20694	10	22	29.30	+09	25	53.8	809
1985	CD2		1985	02	20.21250	10	22	29.02	+09	25	55.3	809
1985	CD2		1985	02	21.20833	10	21	40.36	+09	30	22.8	809
1985	CD2		1985	02	21.21389	10	21	40.08	+09	30	24.3	809
1985	CD2		1985	02	21.21944	10	21	39.82	+09	30	25.8	809
1985	CD2		1985	02	24.16076	10	19	15.14	+09	43	40.6	809
1985	CD2		1985	02	24.16563	10	19	14.90	+09	43	41.8	809
1985	CD2		1985	02	24.17049	10	19	14.66	+09	43	43.3	809
1985	CD2		1985	02	25.26042	10	18	20.64	+09	48	38.5	809
1985	CD2		1985	02	25.26632	10	18	20.33	+09	48	40.4	809
1985	CD2		1985	02	25.27222	10	18	20.03	+09	48	42.3	809
1985	CD2		1985	02	26.17083	10	17	36.03	+09	52	44.6	809
1985	CD2		1985	02	26.17639	10	17	35.74	+09	52	46.1	809
1985	CD2		1985	02	26.18194	10	17	35.46	+09	52	47.5	809
1985	CD2		1985	02	27.20625	10	16	45.22	+09	57	24.1	809
1985	CD2		1985	02	27.21181	10	16	44.95	+09	57	25.6	809
1985	CD2		1985	02	27.21736	10	16	44.67	+09	57	27.1	809
1985	CD2		1985	02	28.20972	10	15	55.97	+10	01	52.9	809
1985	CD2		1985	02	28.21528	10	15	55.69	+10	01	54.4	809
1985	CD2		1985	02	28.22083	10	15	55.41	+10	01	55.9	809
1985	CE2	*	1985	02	13.15347	11	06	38.98	+05	04	37.9	17.1 809
1985	CE2		1985	02	13.15903	11	06	38.75	+05	04	40.2	809
1985	CE2		1985	02	13.16458	11	06	38.53	+05	04	42.6	809
1985	CE2		1985	02	15.15486	11	05	19.72	+05	18	48.8	809
1985	CE2		1985	02	15.15972	11	05	19.53	+05	18	50.9	809
1985	CE2		1985	02	15.16458	11	05	19.33	+05	18	53.0	809
1985	CE2		1985	02	16.23194	11	04	34.93	+05	26	41.7	809
1985	CE2		1985	02	16.23750	11	04	34.70	+05	26	43.9	809
1985	CE2		1985	02	16.24306	11	04	34.47	+05	26	46.1	809
1985	CE2		1985	02	17.29375	11	03	49.63	+05	34	34.5	809
1985	CE2		1985	02	17.29930	11	03	49.38	+05	34	36.9	809
1985	CE2		1985	02	17.30486	11	03	49.12	+05	34	39.7	809
1985	CE2		1985	02	18.24444	11	03	08.40	+05	41	46.0	809
1985	CE2		1985	02	18.25000	11	03	08.16	+05	41	48.7	809
1985	CE2		1985	02	18.25556	11	03	07.91	+05	41	51.4	809
1985	CE2		1985	02	19.27153	11	02	22.64	+05	49	38.9	809

1985	CE2		1985	02	19.27708	11	02	22.39	+05	49	41.5			809
1985	CE2		1985	02	19.28264	11	02	22.14	+05	49	44.1			809
1985	CE2		1985	02	20.26181	11	01	37.81	+05	57	19.6			809
1985	CE2		1985	02	20.26736	11	01	37.54	+05	57	22.4			809
1985	CE2		1985	02	20.27292	11	01	37.27	+05	57	24.9			809
1985	CE2		1985	02	21.30972	11	00	49.46	+06	05	33.4			809
1985	CE2		1985	02	21.31528	11	00	49.21	+06	05	36.0			809
1985	CE2		1985	02	21.32083	11	00	48.95	+06	05	38.6			809
1985	CE2		1985	02	22.24167	11	00	05.99	+06	12	58.0			809
1985	CE2		1985	02	22.24722	11	00	05.71	+06	13	00.4			809
1985	CE2		1985	02	22.25278	11	00	05.44	+06	13	03.1			809
1985	CE2		1985	02	24.22465	10	58	31.26	+06	28	52.9			809
1985	CE2		1985	02	24.22951	10	58	31.02	+06	28	55.3			809
1985	CE2		1985	02	24.23438	10	58	30.80	+06	28	57.8			809
1985	CE2		1985	02	26.23056	10	56	53.43	+06	45	12.6			809
1985	CE2		1985	02	26.23611	10	56	53.18	+06	45	15.0			809
1985	CE2		1985	02	26.24167	10	56	52.89	+06	45	18.1			809
1985	CE2		1985	02	27.28646	10	56	01.27	+06	53	51.7			809
1985	CE2		1985	02	27.29236	10	56	00.98	+06	53	54.9			809
1985	CE2		1985	02	27.29792	10	56	00.70	+06	53	57.6			809
1985	CE2		1985	02	28.31875	10	55	10.18	+07	02	21.2			809
1985	CE2		1985	02	28.32431	10	55	09.90	+07	02	24.2			809
1985	CF2	*	1985	02	13.17847	11	13	06.09	-00	51	05.5		17.1	809
1985	CF2		1985	02	13.18437	11	13	05.92	-00	51	02.9			809
1985	CF2		1985	02	13.19028	11	13	05.75	-00	51	00.3			809
1985	CF2		1985	02	15.17188	11	12	09.48	-00	34	18.7			809
1985	CF2		1985	02	15.17674	11	12	09.36	-00	34	16.3			809
1985	CF2		1985	02	15.18160	11	12	09.22	-00	34	13.4			809
1985	CF2		1985	02	17.31736	11	11	01.76	-00	14	56.3			809
1985	CF2		1985	02	17.32292	11	11	01.58	-00	14	53.3			809
1985	CF2		1985	02	17.32847	11	11	01.41	-00	14	50.2			809
1985	CF2		1985	02	18.26528	11	10	30.20	-00	05	58.9			809
1985	CF2		1985	02	18.27083	11	10	29.99	-00	05	55.4			809
1985	CF2		1985	02	18.27639	11	10	29.80	-00	05	52.2			809
1985	CF2		1985	02	19.29271	11	09	54.40	+00	03	59.7			809
1985	CF2		1985	02	19.29861	11	09	54.19	+00	04	03.2			809
1985	CF2		1985	02	19.30417	11	09	54.00	+00	04	06.4			809
1985	CF2		1985	02	20.28333	11	09	18.89	+00	13	51.9			809
1985	CF2		1985	02	20.28889	11	09	18.69	+00	13	55.5			809
1985	CF2		1985	02	20.29444	11	09	18.46	+00	13	58.8			809
1985	CF2		1985	02	22.26389	11	08	04.53	+00	34	17.9			809
1985	CF2		1985	02	22.26944	11	08	04.32	+00	34	21.4			809
1985	CF2		1985	02	22.27517	11	08	04.10	+00	34	25.0			809
1985	CF2		1985	02	24.24167	11	06	46.48	+00	55	35.5			809
1985	CF2		1985	02	24.24583	11	06	46.32	+00	55	38.2			809
1985	CF2		1985	02	24.25000	11	06	46.15	+00	55	40.8			809
1985	CF2		1985	02	26.24965	11	05	23.76	+01	17	58.0			809
1985	CF2		1985	02	26.25451	11	05	23.56	+01	18	00.9			809
1985	CF2		1985	02	26.25937	11	05	23.37	+01	18	04.2			809
1985	CF2		1985	02	27.30729	11	04	38.95	+01	30	02.5			809
1985	CF2		1985	02	27.31285	11	04	38.70	+01	30	06.7			809
1985	CF2		1985	02	27.31875	11	04	38.45	+01	30	10.8			809
1985	CF2		1985	02	28.33333	11	03	55.11	+01	41	54.4			809
1985	CF2		1985	02	28.33889	11	03	54.87	+01	41	58.2			809
1985	CG2	*	1985	02	13.17847	11	19	11.45	-01	08	07.4		18.0	809
1985	CG2		1985	02	13.18437	11	19	11.24	-01	08	06.0			809
1985	CG2		1985	02	13.19028	11	19	11.02	-01	08	04.3			809
1985	CG2		1985	02	15.17188	11	17	58.50	-00	58	27.2			809
1985	CG2		1985	02	15.17674	11	17	58.33	-00	58	25.9			809

1985	CG2		1985	02	15.18160	11	17	58.15	-00	58	24.6	809
1985	CG2		1985	02	17.31736	11	16	35.39	-00	47	23.4	809
1985	CG2		1985	02	17.32292	11	16	35.15	-00	47	21.6	809
1985	CG2		1985	02	17.32847	11	16	34.96	-00	47	19.9	809
1985	CG2		1985	02	18.26528	11	15	57.50	-00	42	15.5	809
1985	CG2		1985	02	18.27083	11	15	57.28	-00	42	13.5	809
1985	CG2		1985	02	18.27639	11	15	57.06	-00	42	11.9	809
1985	CG2		1985	02	19.29271	11	15	15.59	-00	36	35.9	809
1985	CG2		1985	02	19.29861	11	15	15.36	-00	36	33.9	809
1985	CG2		1985	02	19.30417	11	15	15.14	-00	36	32.2	809
1985	CG2		1985	02	20.28333	11	14	34.11	-00	30	58.4	809
1985	CG2		1985	02	20.28889	11	14	33.88	-00	30	56.6	809
1985	CG2		1985	02	20.29444	11	14	33.64	-00	30	54.7	809
1985	CG2		1985	02	22.26389	11	13	09.32	-00	19	19.9	809
1985	CG2		1985	02	22.26944	11	13	09.08	-00	19	17.9	809
1985	CG2		1985	02	22.27517	11	13	08.81	-00	19	15.9	809
1985	CG2		1985	02	26.24965	11	10	10.88	+00	05	30.2	809
1985	CG2		1985	02	26.25451	11	10	10.66	+00	05	32.6	809
1985	CG2		1985	02	26.25937	11	10	10.42	+00	05	34.9	809
1985	CG2		1985	02	27.30729	11	09	22.02	+00	12	24.6	809
1985	CG2		1985	02	27.31285	11	09	21.77	+00	12	26.6	809
1985	CG2		1985	02	27.31875	11	09	21.49	+00	12	28.9	809
1985	CG2		1985	02	28.33333	11	08	34.21	+00	19	11.4	809
1985	CG2		1985	02	28.33889	11	08	33.93	+00	19	13.5	809
1985	CH2	*	1985	02	14.05208	09	16	27.59	+12	08	09.3	17.7 809
1985	CH2		1985	02	14.05764	09	16	27.31	+12	08	12.3	809
1985	CH2		1985	02	14.06319	09	16	27.02	+12	08	15.4	809
1985	CH2		1985	02	15.05174	09	15	37.06	+12	17	06.2	809
1985	CH2		1985	02	15.05660	09	15	36.81	+12	17	08.8	809
1985	CH2		1985	02	15.06146	09	15	36.57	+12	17	11.4	809
1985	CH2		1985	02	16.07083	09	14	45.95	+12	26	13.9	809
1985	CH2		1985	02	16.07639	09	14	45.68	+12	26	17.1	809
1985	CH2		1985	02	16.08194	09	14	45.40	+12	26	20.3	809
1985	CH2		1985	02	17.07396	09	13	56.35	+12	35	10.7	809
1985	CH2		1985	02	17.08021	09	13	56.03	+12	35	14.3	809
1985	CH2		1985	02	17.08646	09	13	55.72	+12	35	17.9	809
1985	CH2		1985	02	18.07014	09	13	07.64	+12	44	02.3	809
1985	CH2		1985	02	18.07569	09	13	07.37	+12	44	05.3	809
1985	CH2		1985	02	18.08125	09	13	07.09	+12	44	08.2	809
1985	CH2		1985	02	19.07014	09	12	19.57	+12	52	52.2	809
1985	CH2		1985	02	19.07569	09	12	19.29	+12	52	54.9	809
1985	CH2		1985	02	19.08125	09	12	19.04	+12	52	57.4	809
1985	CH2		1985	02	20.06667	09	11	32.42	+13	01	36.1	809
1985	CH2		1985	02	20.07222	09	11	32.16	+13	01	38.8	809
1985	CH2		1985	02	20.07778	09	11	31.90	+13	01	42.1	809
1985	CH2		1985	02	21.07500	09	10	45.63	+13	10	23.2	809
1985	CH2		1985	02	21.08056	09	10	45.39	+13	10	25.8	809
1985	CH2		1985	02	21.08611	09	10	45.13	+13	10	28.7	809
1985	CH2		1985	02	22.08148	09	09	59.86	+13	19	05.6	809
1985	CH2		1985	02	22.08750	09	09	59.57	+13	19	08.8	809
1985	CH2		1985	02	22.09352	09	09	59.28	+13	19	11.6	809
1985	CH2		1985	02	24.04514	09	08	33.67	+13	35	46.9	809
1985	CH2		1985	02	24.04930	09	08	33.48	+13	35	49.1	809
1985	CH2		1985	02	24.05347	09	08	33.30	+13	35	51.3	809
1985	CH2		1985	02	25.05347	09	07	50.97	+13	44	13.9	809
1985	CH2		1985	02	25.05903	09	07	50.71	+13	44	16.6	809
1985	CH2		1985	02	25.06458	09	07	50.49	+13	44	19.5	809
1985	CH2		1985	02	27.14653	09	06	26.10	+14	01	27.1	809
1985	CH2		1985	02	27.15243	09	06	25.85	+14	01	30.0	809

1985	CH2		1985	02	27.15833	09	06	25.60	+14	01	32.9		809
1985	CH2		1985	02	28.15417	09	05	47.57	+14	09	31.1		809
1985	CH2		1985	02	28.15972	09	05	47.36	+14	09	33.5		809
1985	CJ2	*	1985	02	14.05208	09	16	59.85	+11	55	23.1	18.2	809
1985	CJ2		1985	02	14.05764	09	16	59.52	+11	55	24.9		809
1985	CJ2		1985	02	14.06319	09	16	59.18	+11	55	26.7		809
1985	CJ2		1985	02	15.05174	09	16	01.36	+12	00	38.5		809
1985	CJ2		1985	02	15.05660	09	16	01.09	+12	00	40.0		809
1985	CJ2		1985	02	15.06146	09	16	00.81	+12	00	41.5		809
1985	CJ2		1985	02	16.07083	09	15	02.38	+12	05	58.0		809
1985	CJ2		1985	02	16.07639	09	15	02.06	+12	05	59.5		809
1985	CJ2		1985	02	16.08194	09	15	01.72	+12	06	01.6		809
1985	CJ2		1985	02	17.07396	09	14	04.68	+12	11	12.8		809
1985	CJ2		1985	02	17.08021	09	14	04.31	+12	11	14.7		809
1985	CJ2		1985	02	17.08646	09	14	03.94	+12	11	16.6		809
1985	CJ2		1985	02	18.07014	09	13	07.64	+12	16	24.3		809
1985	CJ2		1985	02	18.07569	09	13	07.32	+12	16	26.4		809
1985	CJ2		1985	02	18.08125	09	13	07.01	+12	16	28.5		809
1985	CJ2		1985	02	19.07014	09	12	11.09	+12	21	34.9		809
1985	CJ2		1985	02	19.07569	09	12	10.80	+12	21	36.6		809
1985	CJ2		1985	02	19.08125	09	12	10.49	+12	21	38.2		809
1985	CJ2		1985	02	21.07500	09	10	19.62	+12	31	53.3		809
1985	CJ2		1985	02	21.08056	09	10	19.33	+12	31	55.0		809
1985	CJ2		1985	02	21.08611	09	10	19.05	+12	31	57.0		809
1985	CJ2		1985	02	22.08148	09	09	24.83	+12	37	00.2		809
1985	CJ2		1985	02	22.08750	09	09	24.50	+12	37	02.2		809
1985	CJ2		1985	02	22.09352	09	09	24.17	+12	37	04.1		809
1985	CK2	*	1985	02	14.17639	10	25	23.40	+09	30	14.8	18.3	809
1985	CK2		1985	02	14.18194	10	25	23.15	+09	30	18.2		809
1985	CK2		1985	02	14.18750	10	25	22.90	+09	30	21.7		809
1985	CL2	*	1985	02	14.17639	10	26	39.62	+09	04	25.2	18.1	809
1985	CL2		1985	02	14.18194	10	26	39.33	+09	04	27.0		809
1985	CL2		1985	02	14.18750	10	26	39.05	+09	04	29.0		809
1985	CL2		1985	02	15.10313	10	25	51.91	+09	09	57.4		809
1985	CL2		1985	02	15.10799	10	25	51.66	+09	09	59.1		809
1985	CL2		1985	02	15.11285	10	25	51.41	+09	10	00.9		809
1985	CL2		1985	02	16.20972	10	24	53.63	+09	16	40.4		809
1985	CL2		1985	02	16.21528	10	24	53.34	+09	16	42.4		809
1985	CL2		1985	02	16.22083	10	24	53.05	+09	16	44.4		809
1985	CL2		1985	02	17.20000	10	24	01.03	+09	22	45.2		809
1985	CL2		1985	02	17.20579	10	24	00.72	+09	22	47.0		809
1985	CL2		1985	02	17.21157	10	24	00.43	+09	22	49.0		809
1985	CL2		1985	02	18.16771	10	23	09.24	+09	28	44.4		809
1985	CL2		1985	02	18.17257	10	23	09.00	+09	28	46.3		809
1985	CL2		1985	02	18.17760	10	23	08.72	+09	28	48.1		809
1985	CL2		1985	02	19.19306	10	22	13.69	+09	35	08.6		809
1985	CL2		1985	02	19.19896	10	22	13.37	+09	35	10.8		809
1985	CL2		1985	02	19.20382	10	22	13.12	+09	35	12.7		809
1985	CL2		1985	02	21.20833	10	20	23.35	+09	47	47.9		809
1985	CL2		1985	02	21.21389	10	20	23.05	+09	47	50.4		809
1985	CL2		1985	02	21.21944	10	20	22.75	+09	47	52.7		809
1985	CL2		1985	02	24.16076	10	17	40.92	+10	06	27.2		809
1985	CL2		1985	02	24.16563	10	17	40.67	+10	06	29.3		809
1985	CL2		1985	02	24.17049	10	17	40.42	+10	06	31.3		809
1985	CL2		1985	02	25.26042	10	16	40.04	+10	13	23.3		809
1985	CL2		1985	02	25.26632	10	16	39.71	+10	13	25.5		809
1985	CL2		1985	02	25.27222	10	16	39.38	+10	13	27.8		809
1985	CL2		1985	02	26.17083	10	15	50.39	+10	19	07.0		809
1985	CL2		1985	02	26.17639	10	15	50.09	+10	19	09.1		809

1985	CL2		1985	02	26.18194	10	15	49.79	+10	19	11.2		809
1985	CM2	*	1985	02	14.20000	11	18	57.00	-07	42	07.4	17.0	809
1985	CM2		1985	02	14.20555	11	18	57.94	-07	41	53.1		809
1985	CM2		1985	02	14.21111	11	18	58.84	-07	41	38.7		809
1985	CN2	*	1985	02	14.21875	11	20	40.16	+04	35	55.1	17.3	809
1985	CN2		1985	02	14.22431	11	20	39.92	+04	35	57.1		809
1985	CN2		1985	02	14.22986	11	20	39.69	+04	35	59.2		809
1985	CN2		1985	02	16.27153	11	19	12.91	+04	48	45.4		809
1985	CN2		1985	02	16.27708	11	19	12.67	+04	48	47.4		809
1985	CN2		1985	02	16.28264	11	19	12.42	+04	48	49.4		809
1985	CN2		1985	02	17.34167	11	18	25.00	+04	55	40.7		809
1985	CN2		1985	02	17.34722	11	18	24.74	+04	55	42.8		809
1985	CN2		1985	02	17.35278	11	18	24.50	+04	55	45.2		809
1985	CN2		1985	02	18.28472	11	17	41.97	+05	01	54.1		809
1985	CN2		1985	02	18.29028	11	17	41.70	+05	01	56.4		809
1985	CN2		1985	02	18.29583	11	17	41.44	+05	01	58.7		809
1985	CN2		1985	02	19.32014	11	16	53.29	+05	08	51.0		809
1985	CN2		1985	02	19.32569	11	16	53.02	+05	08	53.4		809
1985	CN2		1985	02	19.33125	11	16	52.77	+05	08	55.3		809
1985	CN2		1985	02	20.30347	11	16	06.04	+05	15	33.2		809
1985	CN2		1985	02	20.30903	11	16	05.77	+05	15	35.5		809
1985	CN2		1985	02	20.31458	11	16	05.51	+05	15	37.6		809
1985	CN2		1985	02	21.35139	11	15	14.52	+05	22	49.1		809
1985	CN2		1985	02	21.35694	11	15	14.24	+05	22	51.7		809
1985	CN2		1985	02	21.36250	11	15	13.97	+05	22	54.0		809
1985	CN2		1985	02	22.32986	11	14	25.57	+05	29	42.5		809
1985	CN2		1985	02	22.33403	11	14	25.36	+05	29	44.3		809
1985	CN2		1985	02	22.33819	11	14	25.14	+05	29	46.0		809
1985	CN2		1985	02	23.34931	11	13	33.60	+05	36	56.0		809
1985	CN2		1985	02	23.35347	11	13	33.39	+05	36	57.7		809
1985	CN2		1985	02	23.35764	11	13	33.17	+05	36	59.4		809
1985	CN2		1985	02	24.25590	11	12	46.97	+05	43	26.8		809
1985	CN2		1985	02	24.26042	11	12	46.73	+05	43	28.8		809
1985	CN2		1985	02	24.26458	11	12	46.51	+05	43	30.2		809
1985	CN2		1985	02	26.27326	11	11	00.69	+05	58	05.1		809
1985	CN2		1985	02	26.27778	11	11	00.45	+05	58	07.0		809
1985	CN2		1985	02	26.28229	11	11	00.21	+05	58	09.2		809
1985	CN2		1985	02	27.32865	11	10	04.12	+06	05	47.8		809
1985	CN2		1985	02	27.33524	11	10	03.77	+06	05	50.6		809
1985	CN2		1985	02	27.33970	11	10	03.52	+06	05	52.7		809
1985	CN2		1985	02	28.34653	11	09	08.99	+06	13	17.5		809
1985	CN2		1985	02	28.35208	11	09	08.69	+06	13	19.9		809
1985	CO2	*	1985	02	15.08715	10	17	55.23	+09	33	22.7	18.3	809
1985	CO2		1985	02	15.09201	10	17	55.00	+09	33	23.5		809
1985	CO2		1985	02	15.09687	10	17	54.77	+09	33	24.2		809
1985	CO2		1985	02	16.19097	10	16	59.33	+09	35	54.5		809
1985	CO2		1985	02	16.19653	10	16	59.05	+09	35	55.3		809
1985	CO2		1985	02	16.20208	10	16	58.76	+09	35	56.1		809
1985	CO2		1985	02	17.22083	10	16	07.07	+09	38	17.5		809
1985	CO2		1985	02	17.22639	10	16	06.80	+09	38	18.2		809
1985	CO2		1985	02	17.23206	10	16	06.51	+09	38	19.0		809
1985	CO2		1985	02	21.23680	10	12	41.15	+09	47	42.1		809
1985	CO2		1985	02	21.24236	10	12	40.88	+09	47	42.6		809
1985	CO2		1985	02	21.24792	10	12	40.61	+09	47	43.6		809
1985	CO2		1985	02	22.21944	10	11	50.55	+09	50	01.5		809
1985	CO2		1985	02	22.22500	10	11	50.26	+09	50	02.4		809
1985	CO2		1985	02	22.23125	10	11	49.94	+09	50	03.0		809
1985	CO2		1985	02	24.17674	10	10	10.12	+09	54	37.2		809
1985	CO2		1985	02	24.18160	10	10	09.88	+09	54	38.0		809

1985	CO2		1985	02	24.18646	10	10	09.63	+09	54	38.7		809
1985	CP2	*	1985	02	15.08715	10	18	22.36	+08	35	27.5	18.2	809
1985	CP2		1985	02	15.09201	10	18	22.07	+08	35	28.8		809
1985	CP2		1985	02	15.09687	10	18	21.78	+08	35	30.2		809
1985	CP2		1985	02	16.19097	10	17	16.71	+08	40	36.1		809
1985	CP2		1985	02	16.19653	10	17	16.38	+08	40	37.7		809
1985	CP2		1985	02	16.20208	10	17	16.04	+08	40	39.2		809
1985	CP2		1985	02	17.22083	10	16	15.19	+08	45	26.8		809
1985	CP2		1985	02	17.22639	10	16	14.86	+08	45	28.4		809
1985	CP2		1985	02	17.23206	10	16	14.52	+08	45	30.1		809
1985	CP2		1985	02	18.18507	10	15	17.84	+08	49	59.9		809
1985	CP2		1985	02	18.18993	10	15	17.57	+08	50	01.3		809
1985	CP2		1985	02	18.19479	10	15	17.26	+08	50	02.7		809
1985	CP2		1985	02	21.23680	10	12	14.61	+09	04	37.1		809
1985	CP2		1985	02	21.24236	10	12	14.28	+09	04	38.6		809
1985	CP2		1985	02	21.24792	10	12	13.95	+09	04	40.2		809
1985	CP2		1985	02	22.21944	10	11	15.89	+09	09	19.0		809
1985	CP2		1985	02	22.22500	10	11	15.56	+09	09	20.5		809
1985	CP2		1985	02	22.23125	10	11	15.19	+09	09	22.3		809
1985	CQ2	*	1985	02	15.08715	10	18	22.65	+09	30	38.8	18.3	809
1985	CQ2		1985	02	15.09201	10	18	22.40	+09	30	40.6		809
1985	CQ2		1985	02	15.09687	10	18	22.15	+09	30	42.3		809
1985	CQ2		1985	02	16.19097	10	17	25.76	+09	37	41.4		809
1985	CQ2		1985	02	16.19653	10	17	25.47	+09	37	43.6		809
1985	CQ2		1985	02	16.20208	10	17	25.19	+09	37	45.6		809
1985	CQ2		1985	02	17.22083	10	16	32.55	+09	44	16.4		809
1985	CQ2		1985	02	17.22639	10	16	32.27	+09	44	18.6		809
1985	CQ2		1985	02	17.23206	10	16	31.97	+09	44	20.8		809
1985	CQ2		1985	02	18.18507	10	15	42.65	+09	50	27.3		809
1985	CQ2		1985	02	18.18993	10	15	42.39	+09	50	29.2		809
1985	CQ2		1985	02	18.19479	10	15	42.14	+09	50	31.1		809
1985	CQ2		1985	02	20.22257	10	13	56.71	+10	03	32.4		809
1985	CQ2		1985	02	20.22847	10	13	56.41	+10	03	34.5		809
1985	CQ2		1985	02	20.23403	10	13	56.13	+10	03	36.7		809
1985	CQ2		1985	02	21.23680	10	13	03.82	+10	10	02.9		809
1985	CQ2		1985	02	21.24236	10	13	03.53	+10	10	05.0		809
1985	CQ2		1985	02	21.24792	10	13	03.24	+10	10	07.1		809
1985	CQ2		1985	02	22.21944	10	12	12.57	+10	16	21.2		809
1985	CQ2		1985	02	22.22500	10	12	12.28	+10	16	23.3		809
1985	CQ2		1985	02	22.23125	10	12	11.95	+10	16	25.6		809
1985	CQ2		1985	02	24.17674	10	10	30.79	+10	28	52.3		809
1985	CQ2		1985	02	24.18160	10	10	30.54	+10	28	54.2		809
1985	CQ2		1985	02	24.18646	10	10	30.29	+10	28	56.0		809
1985	CR2	*	1985	02	15.15486	11	01	48.60	+05	18	37.6	17.6	809
1985	CR2		1985	02	15.15972	11	01	48.33	+05	18	39.4		809
1985	CR2		1985	02	15.16458	11	01	48.06	+05	18	41.5		809
1985	CR2		1985	02	16.23194	11	00	53.41	+05	23	55.8		809
1985	CR2		1985	02	16.23750	11	00	53.13	+05	23	57.4		809
1985	CR2		1985	02	16.24306	11	00	52.82	+05	23	58.8		809
1985	CR2		1985	02	17.29375	10	59	57.80	+05	29	17.9		809
1985	CR2		1985	02	17.29930	10	59	57.53	+05	29	19.6		809
1985	CR2		1985	02	17.30486	10	59	57.24	+05	29	21.3		809
1985	CR2		1985	02	18.24444	10	59	07.39	+05	34	13.0		809
1985	CR2		1985	02	18.25000	10	59	07.07	+05	34	14.8		809
1985	CR2		1985	02	18.25556	10	59	06.77	+05	34	16.5		809
1985	CR2		1985	02	19.27153	10	58	11.53	+05	39	37.6		809
1985	CR2		1985	02	19.27708	10	58	11.23	+05	39	39.4		809
1985	CR2		1985	02	19.28264	10	58	10.91	+05	39	41.2		809
1985	CR2		1985	02	20.26181	10	57	16.85	+05	44	56.5		809

1985	CR2		1985	02	20.26736	10	57	16.55	+05	44	58.3	809
1985	CR2		1985	02	20.27292	10	57	16.25	+05	45	00.1	809
1985	CR2		1985	02	22.24167	10	55	25.24	+05	55	50.5	809
1985	CR2		1985	02	22.24722	10	55	24.93	+05	55	52.4	809
1985	CR2		1985	02	22.25278	10	55	24.61	+05	55	54.2	809
1985	CR2		1985	02	24.22465	10	53	30.90	+06	07	01.4	809
1985	CR2		1985	02	24.22951	10	53	30.62	+06	07	03.0	809
1985	CR2		1985	02	24.23438	10	53	30.33	+06	07	04.5	809
1985	CR2		1985	02	26.23056	10	51	33.18	+06	18	33.9	809
1985	CR2		1985	02	26.23611	10	51	32.87	+06	18	35.6	809
1985	CR2		1985	02	26.24167	10	51	32.57	+06	18	37.5	809
1985	CR2		1985	02	28.31875	10	49	29.26	+06	30	43.9	809
1985	CR2		1985	02	28.32431	10	49	28.92	+06	30	45.9	809
1985	CS2	*	1985	02	15.23194	11	27	24.14	-01	55	28.1	18.2 809
1985	CS2		1985	02	15.24028	11	27	23.78	-01	55	27.4	809
1985	CS2		1985	02	15.24861	11	27	23.43	-01	55	26.8	809
1985	CS2		1985	02	17.37674	11	25	52.61	-01	52	29.9	809
1985	CS2		1985	02	17.38160	11	25	52.40	-01	52	29.6	809
1985	CS2		1985	02	17.38646	11	25	52.20	-01	52	29.4	809
1985	CS2		1985	02	18.30486	11	25	11.10	-01	50	55.9	809
1985	CS2		1985	02	18.31042	11	25	10.84	-01	50	55.0	809
1985	CS2		1985	02	18.31597	11	25	10.59	-01	50	54.7	809
1985	CS2		1985	02	19.34722	11	24	22.72	-01	48	58.1	809
1985	CS2		1985	02	19.35278	11	24	22.46	-01	48	57.5	809
1985	CS2		1985	02	19.35833	11	24	22.20	-01	48	56.9	809
1985	CS2		1985	02	20.32500	11	23	36.13	-01	46	56.6	809
1985	CS2		1985	02	20.33055	11	23	35.86	-01	46	56.0	809
1985	CS2		1985	02	20.33611	11	23	35.59	-01	46	55.4	809
1985	CS2		1985	02	21.37153	11	22	44.80	-01	44	34.9	809
1985	CS2		1985	02	21.37708	11	22	44.52	-01	44	33.9	809
1985	CS2		1985	02	21.38264	11	22	44.25	-01	44	33.4	809
1985	CS2		1985	02	23.36319	11	21	03.21	-01	39	28.3	809
1985	CS2		1985	02	23.36736	11	21	03.01	-01	39	27.7	809
1985	CS2		1985	02	23.37153	11	21	02.81	-01	39	27.0	809
1985	CS2		1985	02	24.28542	11	20	14.81	-01	36	54.2	809
1985	CS2		1985	02	24.28958	11	20	14.61	-01	36	53.6	809
1985	CS2		1985	02	24.29375	11	20	14.36	-01	36	52.9	809
1985	CS2		1985	02	26.28854	11	18	26.15	-01	30	47.0	809
1985	CS2		1985	02	26.29340	11	18	25.89	-01	30	46.0	809
1985	CS2		1985	02	26.29826	11	18	25.63	-01	30	45.1	809
1985	CS2		1985	02	28.35972	11	16	30.11	-01	23	46.7	809
1985	CS2		1985	02	28.36528	11	16	29.81	-01	23	45.8	809
1985	CT2	*	1985	02	15.23194	11	30	38.14	-03	12	47.1	809
1985	CT2		1985	02	15.24028	11	30	37.82	-03	12	44.7	809
1985	CT2		1985	02	15.24861	11	30	37.46	-03	12	42.5	809
1985	CT2		1985	02	17.37674	11	29	16.05	-03	01	29.3	809
1985	CT2		1985	02	17.38160	11	29	15.84	-03	01	27.7	809
1985	CT2		1985	02	17.38646	11	29	15.63	-03	01	26.6	809
1985	CT2		1985	02	18.30486	11	28	38.82	-02	56	17.1	809
1985	CT2		1985	02	18.31042	11	28	38.60	-02	56	15.7	809
1985	CT2		1985	02	18.31597	11	28	38.37	-02	56	14.4	809
1985	DW		1985	02	12.10139	10	23	14.29	+14	34	22.8	17.4 809
1985	DW		1985	02	12.10764	10	23	14.00	+14	34	25.2	809
1985	DW		1985	02	12.11389	10	23	13.69	+14	34	27.7	809
1985	DW		1985	02	14.13472	10	21	34.62	+14	47	19.2	809
1985	DW		1985	02	14.14028	10	21	34.33	+14	47	20.9	809
1985	DW		1985	02	14.14583	10	21	34.06	+14	47	23.0	809
1985	DW		1985	02	16.12986	10	19	55.28	+14	59	57.0	809
1985	DW		1985	02	16.13542	10	19	54.98	+14	59	59.2	809

1985	DW	1985	02	16.14097	10	19	54.67	+15	00	01.3	809
1985	DW	1985	02	17.13542	10	19	04.70	+15	06	16.0	809
1985	DW	1985	02	17.14097	10	19	04.43	+15	06	17.9	809
1985	DW	1985	02	17.14653	10	19	04.13	+15	06	19.5	809
1985	DW	1985	02	18.12708	10	18	14.59	+15	12	27.2	809
1985	DW	1985	02	18.13264	10	18	14.31	+15	12	29.4	809
1985	DW	1985	02	18.13819	10	18	14.03	+15	12	31.6	809
1985	DW	1985	02	19.14861	10	17	22.80	+15	18	47.6	809
1985	DW	1985	02	19.15417	10	17	22.52	+15	18	49.8	809
1985	DW	1985	02	19.15972	10	17	22.24	+15	18	51.7	809
1985	DW	1985	02	20.16285	10	16	31.32	+15	25	02.0	809
1985	DW	1985	02	20.16771	10	16	31.04	+15	25	03.7	809
1985	DW	1985	02	20.17257	10	16	30.80	+15	25	05.3	809
1985	DW	1985	02	21.16319	10	15	40.36	+15	31	06.9	809
1985	DW	1985	02	21.16875	10	15	40.09	+15	31	09.0	809
1985	DW	1985	02	21.17430	10	15	39.83	+15	31	11.0	809
1985	DW	1985	02	24.11805	10	13	10.55	+15	48	42.7	809
1985	DW	1985	02	24.12222	10	13	10.34	+15	48	44.3	809
1985	DW	1985	02	24.12639	10	13	10.13	+15	48	45.8	809
1985	DW	1985	02	25.16910	10	12	17.51	+15	54	47.5	809
1985	DW	1985	02	25.17430	10	12	17.24	+15	54	49.4	809
1985	DW	1985	02	25.17951	10	12	16.98	+15	54	51.2	809
1985	DW	1985	02	26.09479	10	11	31.27	+16	00	04.2	809
1985	DW	1985	02	26.09965	10	11	31.03	+16	00	05.8	809
1985	DW	1985	02	26.10451	10	11	30.79	+16	00	07.5	809
1985	DW	1985	02	27.09861	10	10	41.20	+16	05	42.8	809
1985	DW	1985	02	27.10417	10	10	40.92	+16	05	44.7	809
1985	DW	1985	02	28.09514	10	09	52.00	+16	11	12.8	809
1985	DW	1985	02	28.10069	10	09	51.68	+16	11	15.0	809
1985	DC1	1985	02	14.21875	11	19	18.55	+04	28	14.1	17.4 809
1985	DC1	1985	02	14.22431	11	19	18.36	+04	28	15.4	809
1985	DC1	1985	02	14.22986	11	19	18.17	+04	28	16.9	809
1985	DC1	1985	02	16.27153	11	18	08.02	+04	36	16.2	809
1985	DC1	1985	02	16.27708	11	18	07.83	+04	36	17.4	809
1985	DC1	1985	02	16.28264	11	18	07.64	+04	36	18.4	809
1985	DC1	1985	02	17.34167	11	17	29.47	+04	40	37.3	809
1985	DC1	1985	02	17.34722	11	17	29.27	+04	40	38.7	809
1985	DC1	1985	02	17.35278	11	17	29.07	+04	40	40.0	809
1985	DC1	1985	02	18.28472	11	16	54.87	+04	44	33.8	809
1985	DC1	1985	02	18.29028	11	16	54.67	+04	44	35.1	809
1985	DC1	1985	02	18.29583	11	16	54.48	+04	44	36.4	809
1985	DC1	1985	02	19.32014	11	16	15.74	+04	48	58.0	809
1985	DC1	1985	02	19.32569	11	16	15.50	+04	48	59.3	809
1985	DC1	1985	02	19.33125	11	16	15.27	+04	49	00.9	809
1985	DC1	1985	02	20.30347	11	15	37.78	+04	53	14.6	809
1985	DC1	1985	02	20.30903	11	15	37.56	+04	53	15.9	809
1985	DC1	1985	02	20.31458	11	15	37.36	+04	53	17.3	809
1985	DC1	1985	02	21.35139	11	14	56.56	+04	57	54.6	809
1985	DC1	1985	02	21.35694	11	14	56.34	+04	57	56.0	809
1985	DC1	1985	02	21.36250	11	14	56.12	+04	57	57.3	809
1985	DC1	1985	02	22.32986	11	14	17.42	+05	02	19.2	809
1985	DC1	1985	02	22.33403	11	14	17.27	+05	02	20.6	809
1985	DC1	1985	02	22.33819	11	14	17.09	+05	02	21.9	809
1985	DC1	1985	02	23.34931	11	13	35.75	+05	06	59.2	809
1985	DC1	1985	02	23.35347	11	13	35.57	+05	07	00.2	809
1985	DC1	1985	02	23.35764	11	13	35.37	+05	07	01.2	809
1985	DC1	1985	02	24.25590	11	12	58.29	+05	11	12.7	809
1985	DC1	1985	02	24.26042	11	12	58.08	+05	11	13.8	809
1985	DC1	1985	02	24.26458	11	12	57.89	+05	11	14.9	809

1985	DC1		1985	02	26.27326	11	11	32.91	+05	20	44.4	809
1985	DC1		1985	02	26.27778	11	11	32.72	+05	20	45.8	809
1985	DC1		1985	02	26.28229	11	11	32.53	+05	20	47.2	809
1985	DC1		1985	02	27.32865	11	10	47.40	+05	25	47.4	809
1985	DC1		1985	02	27.33524	11	10	47.12	+05	25	49.3	809
1985	DC1		1985	02	27.33970	11	10	46.92	+05	25	50.3	809
1985	DC1		1985	02	28.34653	11	10	03.04	+05	30	44.8	809
1985	DC1		1985	02	28.35208	11	10	02.80	+05	30	46.4	809
1985	DU1	*	1985	02	16.23194	11	05	21.03	+06	27	59.4	18.3 809
1985	DU1		1985	02	16.23750	11	05	20.76	+06	28	00.4	809
1985	DU1		1985	02	16.24306	11	05	20.50	+06	28	01.8	809
1985	DU1		1985	02	17.29375	11	04	30.48	+06	31	59.7	809
1985	DU1		1985	02	17.29930	11	04	30.20	+06	32	01.2	809
1985	DU1		1985	02	17.30486	11	04	29.95	+06	32	02.4	809
1985	DU1		1985	02	18.24444	11	03	44.67	+06	35	39.3	809
1985	DU1		1985	02	18.25000	11	03	44.40	+06	35	40.6	809
1985	DU1		1985	02	18.25556	11	03	44.13	+06	35	41.9	809
1985	DU1		1985	02	26.23056	10	56	58.17	+07	07	57.6	809
1985	DU1		1985	02	26.23611	10	56	57.89	+07	07	59.1	809
1985	DU1		1985	02	26.24167	10	56	57.61	+07	08	00.7	809
1985	DV1	*	1985	02	16.27153	11	17	21.77	+04	26	15.8	17.4 809
1985	DV1		1985	02	16.27708	11	17	21.52	+04	26	17.6	809
1985	DV1		1985	02	16.28264	11	17	21.26	+04	26	19.5	809
1985	DV1		1985	02	17.34167	11	16	30.26	+04	32	22.5	809
1985	DV1		1985	02	17.34722	11	16	29.98	+04	32	24.6	809
1985	DV1		1985	02	17.35278	11	16	29.69	+04	32	26.6	809
1985	DV1		1985	02	18.28472	11	15	43.91	+04	37	53.9	809
1985	DV1		1985	02	18.29028	11	15	43.64	+04	37	55.6	809
1985	DV1		1985	02	18.29583	11	15	43.38	+04	37	57.4	809
1985	DV1		1985	02	19.32014	11	14	51.88	+04	44	03.4	809
1985	DV1		1985	02	19.32569	11	14	51.60	+04	44	05.7	809
1985	DV1		1985	02	19.33125	11	14	51.31	+04	44	08.0	809
1985	DV1		1985	02	20.30347	11	14	01.25	+04	50	02.0	809
1985	DV1		1985	02	20.30903	11	14	00.95	+04	50	03.6	809
1985	DV1		1985	02	20.31458	11	14	00.65	+04	50	05.8	809
1985	DV1		1985	02	21.35139	11	13	06.45	+04	56	30.4	809
1985	DV1		1985	02	21.35694	11	13	06.16	+04	56	32.4	809
1985	DV1		1985	02	21.36250	11	13	05.85	+04	56	34.4	809
1985	DV1		1985	02	22.32986	11	12	14.39	+05	02	38.9	809
1985	DV1		1985	02	22.33403	11	12	14.16	+05	02	40.2	809
1985	DV1		1985	02	22.33819	11	12	13.94	+05	02	41.6	809
1985	DV1		1985	02	23.34931	11	11	19.35	+05	09	06.8	809
1985	DV1		1985	02	23.35347	11	11	19.10	+05	09	08.8	809
1985	DV1		1985	02	23.35764	11	11	18.86	+05	09	10.7	809
1985	DV1		1985	02	24.25590	11	10	29.83	+05	14	56.4	809
1985	DV1		1985	02	24.26042	11	10	29.59	+05	14	58.0	809
1985	DV1		1985	02	24.26458	11	10	29.37	+05	14	59.8	809
1985	DV1		1985	02	26.27326	11	08	37.35	+05	28	05.8	809
1985	DV1		1985	02	26.27778	11	08	37.09	+05	28	07.7	809
1985	DV1		1985	02	26.28229	11	08	36.84	+05	28	09.6	809
1985	DW1	*	1985	02	16.33333	11	56	41.76	+01	47	54.9	17.2 809
1985	DW1		1985	02	16.34028	11	56	41.54	+01	47	56.3	809
1985	DW1		1985	02	16.34722	11	56	41.33	+01	47	57.8	809
1985	DW1		1985	02	20.34653	11	54	38.91	+02	01	27.8	809
1985	DW1		1985	02	20.35521	11	54	38.65	+02	01	29.6	809
1985	DW1		1985	02	20.36458	11	54	38.36	+02	01	31.5	809
1985	DW1		1985	02	21.33125	11	54	05.98	+02	05	03.7	809
1985	DW1		1985	02	21.33750	11	54	05.77	+02	05	05.0	809
1985	DW1		1985	02	21.34305	11	54	05.59	+02	05	06.1	809

1985	DW1		1985	02	22.28611	11	53	33.08	+02	08	39.1			809
1985	DW1		1985	02	22.29167	11	53	32.90	+02	08	40.4			809
1985	DW1		1985	02	22.29722	11	53	32.69	+02	08	41.6			809
1985	DW1		1985	02	23.37708	11	52	54.07	+02	12	52.3			809
1985	DW1		1985	02	23.38125	11	52	53.93	+02	12	53.3			809
1985	DW1		1985	02	23.38542	11	52	53.76	+02	12	54.1			809
1985	DW1		1985	02	24.31632	11	52	19.73	+02	16	35.6			809
1985	DW1		1985	02	24.32187	11	52	19.53	+02	16	36.9			809
1985	DW1		1985	02	24.32674	11	52	19.37	+02	16	38.1			809
1985	DW1		1985	02	26.32500	11	51	03.24	+02	24	49.6			809
1985	DW1		1985	02	26.33069	11	51	03.03	+02	24	50.9			809
1985	DW1		1985	02	26.33625	11	51	02.82	+02	24	52.4			809
1985	DW1		1985	02	28.37292	11	49	41.56	+02	33	32.8			809
1985	DW1		1985	02	28.37847	11	49	41.32	+02	33	33.9			809
1985	DX1	*	1985	02	16.33333	11	57	54.51	+01	58	46.4		18.1	809
1985	DX1		1985	02	16.34028	11	57	54.17	+01	58	47.8			809
1985	DX1		1985	02	16.34722	11	57	53.83	+01	58	49.2			809
1985	DX1		1985	02	24.31632	11	51	17.84	+02	24	18.9			809
1985	DX1		1985	02	24.32187	11	51	17.55	+02	24	19.9			809
1985	DX1		1985	02	24.32674	11	51	17.30	+02	24	20.7			809
1985	DX1		1985	02	26.32500	11	49	24.68	+02	31	55.4			809
1985	DX1		1985	02	26.33069	11	49	24.34	+02	31	56.6			809
1985	DX1		1985	02	26.33625	11	49	24.02	+02	31	58.0			809
1985	DY1	*	1985	02	16.33333	11	58	04.32	+02	10	21.0		17.7	809
1985	DY1		1985	02	16.34028	11	58	04.08	+02	10	22.7			809
1985	DY1		1985	02	16.34722	11	58	03.84	+02	10	24.5			809
1985	DY1		1985	02	20.34653	11	55	40.58	+02	27	54.3			809
1985	DY1		1985	02	20.35521	11	55	40.27	+02	27	56.5			809
1985	DY1		1985	02	20.36458	11	55	39.93	+02	27	58.8			809
1985	DY1		1985	02	21.33125	11	55	02.12	+02	32	30.4			809
1985	DY1		1985	02	21.33750	11	55	01.88	+02	32	32.2			809
1985	DY1		1985	02	21.34305	11	55	01.67	+02	32	33.7			809
1985	DY1		1985	02	22.28611	11	54	23.70	+02	37	05.2			809
1985	DY1		1985	02	22.29167	11	54	23.47	+02	37	06.5			809
1985	DY1		1985	02	22.29722	11	54	23.24	+02	37	08.1			809
1985	DY1		1985	02	23.37708	11	53	38.27	+02	42	26.7			809
1985	DY1		1985	02	23.38125	11	53	38.08	+02	42	28.0			809
1985	DY1		1985	02	23.38542	11	53	37.89	+02	42	29.3			809
1985	DY1		1985	02	24.31632	11	52	58.22	+02	47	09.7			809
1985	DY1		1985	02	24.32187	11	52	57.99	+02	47	11.4			809
1985	DY1		1985	02	24.32674	11	52	57.78	+02	47	12.9			809
1985	DY1		1985	02	26.32500	11	51	29.32	+02	57	33.5			809
1985	DY1		1985	02	26.33069	11	51	29.07	+02	57	35.4			809
1985	DY1		1985	02	26.33625	11	51	28.84	+02	57	37.1			809
1985	DY1		1985	02	28.37292	11	49	54.21	+03	08	30.1			809
1985	DY1		1985	02	28.37847	11	49	53.97	+03	08	31.9			809
1985	DZ1	*	1985	02	17.34167	11	18	53.60	+03	44	31.0		17.6	809
1985	DZ1		1985	02	17.34722	11	18	53.40	+03	44	33.0			809
1985	DZ1		1985	02	17.35278	11	18	53.23	+03	44	35.0			809
1985	DZ1		1985	02	18.28472	11	18	20.73	+03	50	09.3			809
1985	DZ1		1985	02	18.29028	11	18	20.54	+03	50	11.2			809
1985	DZ1		1985	02	18.29583	11	18	20.35	+03	50	13.1			809
1985	DZ1		1985	02	20.30347	11	17	07.91	+04	02	31.4			809
1985	DZ1		1985	02	20.30903	11	17	07.71	+04	02	33.4			809
1985	DZ1		1985	02	20.31458	11	17	07.52	+04	02	35.5			809
1985	DZ1		1985	02	21.35139	11	16	28.85	+04	09	04.5			809
1985	DZ1		1985	02	21.35694	11	16	28.65	+04	09	06.6			809
1985	DZ1		1985	02	21.36250	11	16	28.44	+04	09	08.6			809
1985	DZ1		1985	02	22.32986	11	15	51.72	+04	15	18.6			809

1985	DZ1		1985	02	22.33403	11	15	51.57	+04	15	20.1			809
1985	DZ1		1985	02	22.33819	11	15	51.41	+04	15	21.8			809
1985	DZ1		1985	02	23.34931	11	15	12.36	+04	21	53.2			809
1985	DZ1		1985	02	23.35347	11	15	12.20	+04	21	54.8			809
1985	DZ1		1985	02	23.35764	11	15	12.03	+04	21	56.4			809
1985	DZ1		1985	02	24.25590	11	14	36.80	+04	27	46.9			809
1985	DZ1		1985	02	24.26042	11	14	36.62	+04	27	48.6			809
1985	DZ1		1985	02	24.26458	11	14	36.46	+04	27	50.2			809
1985	DZ1		1985	02	26.27326	11	13	15.80	+04	41	07.0			809
1985	DZ1		1985	02	26.27778	11	13	15.62	+04	41	08.8			809
1985	DZ1		1985	02	26.28229	11	13	15.44	+04	41	10.6			809
1985	DZ1		1985	02	27.32865	11	12	32.99	+04	48	12.8			809
1985	DZ1		1985	02	27.33524	11	12	32.73	+04	48	15.5			809
1985	DZ1		1985	02	27.33970	11	12	32.55	+04	48	17.3			809
1985	DZ1		1985	02	28.34653	11	11	50.71	+04	55	06.4			809
1985	DZ1		1985	02	28.35208	11	11	50.48	+04	55	08.3			809
1985	DA2	*	1985	02	20.12118	10	05	18.13	+05	34	10.5		17.7	809
1985	DA2		1985	02	20.12604	10	05	17.80	+05	34	11.4			809
1985	DA2		1985	02	20.13194	10	05	17.39	+05	34	12.0			809
1985	DA2		1985	02	22.13125	10	03	01.01	+05	38	52.2			809
1985	DA2		1985	02	22.13681	10	03	00.63	+05	38	53.0			809
1985	DA2		1985	02	22.14236	10	03	00.24	+05	38	53.8			809
1985	DA2		1985	02	24.07292	10	00	48.36	+05	43	37.2			809
1985	DA2		1985	02	24.07708	10	00	48.08	+05	43	37.7			809
1985	DA2		1985	02	24.08194	10	00	47.75	+05	43	38.8			809
1985	DA2		1985	02	25.11007	09	59	37.68	+05	46	15.5			809
1985	DA2		1985	02	25.11528	09	59	37.33	+05	46	16.4			809
1985	DA2		1985	02	25.12049	09	59	36.97	+05	46	17.1			809
1985	DA2		1985	02	26.06007	09	58	33.25	+05	48	42.1			809
1985	DA2		1985	02	26.06493	09	58	32.93	+05	48	43.0			809
1985	DA2		1985	02	26.06979	09	58	32.62	+05	48	44.0			809
1985	DA2		1985	02	27.06875	09	57	25.11	+05	51	21.2			809
1985	DA2		1985	02	27.07431	09	57	24.68	+05	51	22.0			809
1985	DA2		1985	02	28.05833	09	56	18.59	+05	53	58.9			809
1985	DA2		1985	02	28.06458	09	56	18.17	+05	54	00.4			809
1985	DB2	*	1985	02	20.12118	10	06	29.60	+06	27	29.0		18.1	809
1985	DB2		1985	02	20.12604	10	06	29.36	+06	27	30.8			809
1985	DB2		1985	02	20.13194	10	06	29.07	+06	27	33.1			809
1985	DB2		1985	02	22.13125	10	04	48.99	+06	39	40.5			809
1985	DB2		1985	02	22.13681	10	04	48.73	+06	39	42.4			809
1985	DB2		1985	02	22.14236	10	04	48.46	+06	39	44.6			809
1985	DB2		1985	02	24.07292	10	03	12.56	+06	51	32.8			809
1985	DB2		1985	02	24.07708	10	03	12.35	+06	51	34.1			809
1985	DB2		1985	02	24.08194	10	03	12.09	+06	51	35.9			809
1985	DB2		1985	02	25.11007	10	02	21.30	+06	57	55.4			809
1985	DB2		1985	02	25.11528	10	02	21.05	+06	57	57.4			809
1985	DB2		1985	02	25.12049	10	02	20.77	+06	57	59.4			809
1985	DB2		1985	02	26.06007	10	01	34.73	+07	03	46.8			809
1985	DB2		1985	02	26.06493	10	01	34.51	+07	03	49.0			809
1985	DB2		1985	02	26.06979	10	01	34.27	+07	03	50.6			809
1985	DB2		1985	02	27.06875	10	00	45.77	+07	09	59.9			809
1985	DB2		1985	02	27.07431	10	00	45.49	+07	10	01.3			809
1985	FH		1985	02	17.34167	11	14	38.50	+03	51	39.6		17.3	809
1985	FH		1985	02	17.34722	11	14	38.32	+03	51	42.8			809
1985	FH		1985	02	17.35278	11	14	38.14	+03	51	45.9			809
1985	FH		1985	02	18.28472	11	14	05.23	+04	00	46.9			809
1985	FH		1985	02	18.29028	11	14	05.04	+04	00	50.3			809
1985	FH		1985	02	18.29583	11	14	04.85	+04	00	53.6			809

1985	FH	1985	02	19.32014	11	13	27.39	+04	10	58.5	809
1985	FH	1985	02	19.32569	11	13	27.18	+04	11	01.9	809
1985	FH	1985	02	19.33125	11	13	26.98	+04	11	05.2	809
1985	FH	1985	02	20.30347	11	12	50.24	+04	20	53.3	809
1985	FH	1985	02	20.30903	11	12	50.02	+04	20	56.6	809
1985	FH	1985	02	20.31458	11	12	49.80	+04	20	59.7	809
1985	FH	1985	02	21.35139	11	12	09.38	+04	31	34.2	809
1985	FH	1985	02	21.35694	11	12	09.15	+04	31	37.5	809
1985	FH	1985	02	21.36250	11	12	08.91	+04	31	41.1	809
1985	FH	1985	02	22.32986	11	11	30.38	+04	41	43.6	809
1985	FH	1985	02	22.33403	11	11	30.20	+04	41	46.3	809
1985	FH	1985	02	22.33819	11	11	30.03	+04	41	48.9	809
1985	FH	1985	02	23.34931	11	10	48.74	+04	52	27.3	809
1985	FH	1985	02	23.35347	11	10	48.57	+04	52	30.0	809
1985	FH	1985	02	23.35764	11	10	48.40	+04	52	32.6	809
1985	FH	1985	02	24.25590	11	10	11.15	+05	02	05.5	809
1985	FH	1985	02	24.26042	11	10	10.97	+05	02	08.3	809
1985	FH	1985	02	24.26458	11	10	10.79	+05	02	11.2	809
1985	FH	1985	02	26.27326	11	08	44.66	+05	23	53.4	809
1985	FH	1985	02	26.27778	11	08	44.47	+05	23	56.2	809
1985	FH	1985	02	26.28229	11	08	44.27	+05	23	59.1	809
1985	FH	1985	02	27.32865	11	07	58.12	+05	35	26.7	809
1985	FH	1985	02	27.33524	11	07	57.81	+05	35	31.1	809
1985	FH	1985	02	27.33970	11	07	57.61	+05	35	34.0	809
1985	FH	1985	02	28.34653	11	07	12.58	+05	46	41.8	809
1985	FH	1985	02	28.35208	11	07	12.34	+05	46	45.6	809
1985	FL	1985	02	15.25625	11	33	39.72	+05	02	04.3	17.3 809
1985	FL	1985	02	15.26458	11	33	39.35	+05	02	06.3	809
1985	FL	1985	02	15.27292	11	33	38.98	+05	02	08.4	809
1985	FL	1985	02	16.30972	11	32	54.77	+05	06	02.0	809
1985	FL	1985	02	16.31667	11	32	54.47	+05	06	03.6	809
1985	FL	1985	02	16.32361	11	32	54.15	+05	06	05.2	809
1985	FL	1985	02	17.36076	11	32	08.37	+05	10	07.9	809
1985	FL	1985	02	17.36563	11	32	08.15	+05	10	09.1	809
1985	FL	1985	02	17.37049	11	32	07.94	+05	10	10.3	809
1985	FL	1985	02	18.32535	11	31	24.66	+05	13	59.7	809
1985	FL	1985	02	18.33160	11	31	24.37	+05	14	01.2	809
1985	FL	1985	02	18.33785	11	31	24.08	+05	14	02.7	809
1985	FL	1985	02	19.36753	11	30	35.86	+05	18	17.1	809
1985	FL	1985	02	19.37396	11	30	35.56	+05	18	18.7	809
1985	FL	1985	02	19.37951	11	30	35.31	+05	18	20.1	809
1985	FL	1985	02	20.37465	11	29	47.40	+05	22	32.1	809
1985	FL	1985	02	20.37917	11	29	47.18	+05	22	33.3	809
1985	FL	1985	02	20.38333	11	29	46.97	+05	22	34.3	809
1985	FL	1985	02	22.31458	11	28	10.89	+05	30	59.5	809
1985	FL	1985	02	22.31875	11	28	10.69	+05	31	00.5	809
1985	FL	1985	02	22.32292	11	28	10.48	+05	31	01.8	809
1985	FL	1985	02	23.39167	11	27	15.28	+05	35	49.4	809
1985	FL	1985	02	23.39444	11	27	15.13	+05	35	50.3	809
1985	FL	1985	02	23.39653	11	27	15.01	+05	35	50.8	809
1985	FL	1985	02	24.30139	11	26	27.60	+05	39	58.5	809
1985	FL	1985	02	24.30556	11	26	27.37	+05	39	59.6	809
1985	FL	1985	02	24.30972	11	26	27.17	+05	40	00.6	809
1985	FL	1985	02	26.30729	11	24	39.31	+05	49	19.4	809
1985	FL	1985	02	26.31215	11	24	39.04	+05	49	20.8	809
1985	FL	1985	02	26.31701	11	24	38.78	+05	49	22.1	809
1985	FL	1985	02	27.36979	11	23	40.28	+05	54	22.9	809
1985	FL	1985	02	27.37465	11	23	40.01	+05	54	24.3	809

OBSERVATIONS MADE AT TOYOTA BY K. SUZUKI.

Plates measured by T. Urata, reduced using five or six AGK3 reference stars. Contact: T. Urata, Nishitaka-cho 8-23, Shimizu, Shizuoka 424, Japan.

Object		Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
1985 TC	*	1985 10 15.50868		01 31 38.87	+10 57 42.3	16	881
1985 TC		1985 10 15.53993		01 31 37.24	+10 57 27.5		881

* * * * *

ORBITAL ELEMENTS OF ONE-OPPOSITION MINOR PLANETS.

The orbit computers and authors of double designations are B = C. M. Bardwell, b = F. N. Bowman, E = E. Bowell, G = D. W. E. Green, M = B. G. Marsden. For further information see MPC 7828.

Planet	B(1,0)	Epoch	M	Peri.	Node	Incl.	e	a	Arc	O	N	C
1983 RV1	14.4	830903	55.74	94.24	185.90	7.02	0.0959	2.3503	10	6		E
1984 WX	13.0	841206	156.02	164.99	108.96	11.28	0.0713	3.0160	34	5	1	B
1985 CD	15.0	850204	314.95	53.76	151.60	14.95	0.1312	2.5854	16	0		M
1985 CV	14.0	850204	75.16	266.64	143.35	13.13	0.1986	2.6025	16	0		M
1985 CO1	15.5	850204	21.88	305.28	168.03	3.54	0.0909	2.4178	19	0		M
1985 CP1	14.5	850204	302.48	50.17	157.39	5.24	0.1065	2.7597	15	0		M
1985 CS1	15.0	850204	279.50	77.98	172.34	5.00	0.2145	2.2788	18	0		M
1985 CU1	16.0	850204	39.21	119.96	323.60	24.32	0.2400	2.3383	17	0		M
1985 CV1	14.5	850204	351.84	111.46	43.80	1.93	0.1412	3.2081	17	0		M
1985 CX1	16.0	850204	315.08	329.63	219.64	2.58	0.0737	2.2313	13	0		M
1985 CY1	15.5	850204	3.91	337.95	159.42	12.31	0.2837	3.1310	16	0		M
1985 CZ1	15.0	850204	50.44	144.26	305.12	6.11	0.0687	2.3427	16	0		M
1985 CA2	15.5	850204	72.56	298.37	125.10	5.18	0.0927	2.2245	16	0		M
1985 CB2	13.5	850204	233.14	140.24	144.58	10.42	0.0905	3.0196	16	0		M
1985 CC2	15.0	850204	312.48	77.93	119.55	3.75	0.0331	2.2717	16	0		M
1985 CD2	15.0	850204	323.94	276.17	284.62	0.56	0.1929	3.0393	16	0		M
1985 CE2	14.5	850204	22.94	324.82	160.24	5.34	0.1130	2.5462	15	0		M
1985 CF2	15.0	850204	349.87	352.37	175.39	9.12	0.1652	2.3789	15	0		M
1985 CG2	14.0	850204	236.73	107.59	189.64	7.65	0.1575	2.7082	15	0		M
1985 CH2	15.0	850204	11.89	330.74	153.13	9.57	0.0758	2.5690	14	0		M
1985 CJ2	14.5	850204	208.01	105.60	193.80	3.01	0.2052	2.3832	8	0		M
1985 CL2	16.0	850204	335.67	15.48	162.75	1.60	0.1251	2.4136	12	0		M
1985 CN2	15.0	850204	42.95	302.75	154.15	2.56	0.1667	2.3926	14	0		M
1985 CO2	14.0	850204	260.00	291.21	326.26	8.50	0.0787	3.0756	9	0		M
1985 CP2	16.0	850204	51.27	148.55	294.76	1.77	0.1231	2.3761	7	0		M
1985 CQ2	12.0	850204	153.96	190.33	157.68	5.23	0.1560	2.5901	9	0	2	M
1985 CR2	15.0	850204	39.57	188.17	280.43	0.57	0.0586	2.2646	13	0		M
1985 CS2	15.5	850204	296.99	296.42	294.75	3.99	0.0944	2.2910	13	0		M
1985 CT2		850204	257.00	91.43	192.77	7.57	0.1982	2.3216	3	9	2	M
1985 DC1	13.5	850204	336.97	33.11	156.02	0.67	0.1451	3.2026	14	0		M
1985 DU1	14.0	850204	211.49	332.89	344.02	4.96	0.2272	2.6456	10	0		M
1985 DV1	14.5	850204	136.85	211.48	163.31	1.39	0.0686	2.2815	10	0		M
1985 DW1	13.5	850204	353.59	131.41	41.24	1.12	0.0734	3.0143	12	0		M
1985 DX1	16.0	850204	38.12	88.11	358.38	3.74	0.3537	2.5632	10	9		M
1985 DY1	14.0	850204	168.12	274.62	80.51	1.19	0.0571	2.4783	12	0		M
1985 DZ1	13.5	850204	312.75	49.91	165.62	7.06	0.0966	3.1334	11	0		M
1985 DA2	15.5	850224	294.23	301.26	303.74	6.98	0.2339	2.3241	8	0		M
1985 DB2	14.5	850224	12.32	307.02	192.13	4.69	0.0202	2.7482	7	0		M
1985 FH	15.0	850224	336.35	30.12	162.32	9.40	0.1382	2.4731	38	0		M
1985 FE3	14.5	850316	314.35	139.85	91.43	7.95	0.1863	2.2577	59	4	1	M
1985 HD1	13.0	850425	222.84	227.25	137.53	3.88	0.1476	2.7323	33	6	1	B

1985 HG1	15.0	850425	36.62	62.85	107.98	3.22	0.1244	2.2495	22	4	1	B
1985 HV1	14.0	850425	63.06	73.75	67.18	0.98	0.1511	3.1323	21	4	1	B
1985 JF	12.9	850515	63.27	308.18	202.35	17.78	0.1507	3.2065	6	6		E
1985 JG	15.5	850515	339.81	193.84	70.08	12.17	0.2391	2.3844	8	8		B
1985 JJ	13.0	850515	278.45	143.10	186.58	10.72	0.1510	3.0419	6	5		E
1985 JK	15.2	850515	352.88	132.26	108.01	5.63	0.1119	2.3528	6	4		E
1985 JL	15.0	850515	19.37	124.70	77.00	9.22	0.2203	2.7142	10	8		B
1985 JM	14.2	850515	293.83	120.64	212.00	12.30	0.2907	2.5409	6	5		E
1985 JH2	16.0	850515	17.06	114.61	98.37	1.66	0.2079	2.2897	14	4	1	B
1985 KA	15.5	850624	308.30	79.95	249.72	22.21	0.2936	2.3604	88	0		G
1985 NE	14.0	850714	30.62	245.32	358.26	6.74	0.1937	2.5418	38	0		G
1985 PC	15.0	850823	48.65	85.04	183.94	3.26	0.1121	2.2477	29	8		B
1985 PE	14.0	850823	334.22	213.75	155.18	11.82	0.2244	3.1825	29	8		B
1985 PF	15.0	850823	340.50	205.38	154.76	16.63	0.2303	2.5917	29	7		B
1985 PG	15.0	850823	28.72	121.30	166.55	7.76	0.1805	2.5652	29	7		B
1985 PK	13.5	850823	356.66	6.16	327.14	10.24	0.1125	3.0079	29	8		B
1985 PO	14.5	850823	348.48	200.10	145.18	3.63	0.1331	2.5780	29	7		B
1985 PP	15.0	850823	314.57	249.49	141.27	5.06	0.1616	2.3192	29	7		B
1985 PS	15.7	850823	341.75	223.05	149.34	7.54	0.3580	2.6659	31	6		E
1985 PT	14.4	850823	355.89	199.94	139.13	12.96	0.2015	2.6673	31	5		E
1985 PX	15.7	850823	30.87	142.82	147.27	5.16	0.1801	2.1837	31	6		E
1985 PZ	14.6	850823	322.24	235.66	144.78	5.92	0.0996	2.3140	31	6		E
1985 PA1	14.8	850823	24.81	126.72	165.94	11.31	0.2763	2.6865	29	6		E
1985 PB1	15.0	850823	41.02	81.38	198.11	5.83	0.1811	2.2517	29	6		E
1985 PD1	15.6	850823	356.37	21.42	320.17	4.87	0.1495	2.1821	29	6		E
1985 PE1	16.0	850823	14.72	9.07	308.03	3.14	0.2367	2.1628	34	6		E
1985 PG1	13.5	850823	11.78	142.68	192.03	9.08	0.1365	3.0058	34	6		E
1985 QA	14.8	850823	32.22	123.16	163.12	13.10	0.1688	2.6066	23	6		E
1985 QN	14.1	850823	23.82	191.51	124.79	2.38	0.1476	2.7647	27	0		E
1985 QP	16.0	850912	357.93	0.33	357.30	3.14	0.1771	2.1855	52	0		G
1985 QQ	14.6	850823	316.82	28.96	13.91	6.23	0.1351	2.1778	27	6		E
1985 QR	13.4	850823	308.17	260.99	155.00	10.00	0.1040	3.0159	27	6		E
1985 QS	14.1	850823	309.11	47.74	12.82	7.22	0.1941	2.3600	27	6		E
1985 QT	12.5	850912	356.42	359.14	3.86	19.08	0.0983	3.3817	52	0		G
1985 QX	13.0	850823	3.93	144.50	190.78	10.05	0.1029	2.9947	23	0		M
1985 RA	14.0	850912	343.79	108.26	275.82	7.70	0.1728	2.7266	11	5		G
1985 RD	13.5	850912	27.90	321.02	359.54	1.49	0.1423	3.0066	7	9		G
1985 RF	15.0	850912	31.68	119.36	190.35	2.75	0.1965	2.2697	27	4		G
1985 RJ	15.5	850823	23.90	119.20	182.31	11.97	0.2898	2.6454	34	6		E
1985 RK	14.9	850823	323.84	55.12	337.96	6.73	0.1384	2.3711	34	6		E
1985 RM	13.0	850823	6.50	150.85	191.91	4.82	0.1067	3.3698	34	6		B
1985 RN	16.0	850823	1.29	153.99	187.66	3.66	0.2215	2.2984	34	6		E
1985 RP	15.7	850823	330.39	225.63	166.40	8.02	0.2299	2.2928	27	6		E
1985 RR	15.5	850823	356.49	264.15	87.06	1.49	0.2442	2.3382	27	6		E
1985 RT	16.0	850823	339.39	22.90	352.63	3.16	0.1883	2.2278	27	7		B
1985 RV	17.0	850912	37.48	41.39	259.49	9.97	0.2589	2.4147	25	0		M
1985 RW	16.5	850912	213.96	245.04	240.66	19.16	0.0751	1.9664	24	0		M
1985 RX	17.0	850912	347.99	73.23	318.95	13.71	0.2541	2.5966	25	0		M
1985 RA1	16.0	850912	14.81	58.25	283.20	10.02	0.1857	2.5392	9	0		M
1985 RB1	14.0	850912	179.74	259.87	286.39	15.15	0.2646	2.9808	7	8		M
1985 RK1	14.5	850912	34.12	1.59	295.83	8.75	0.2421	2.6916	2	6		G
1985 RL1	14.5	850912	7.64	129.63	210.95	10.59	0.1505	2.4798	4	8		G
1985 RO1	14.0	850912	3.21	89.63	258.87	8.58	0.1673	2.9385	4	5		G
1985 RS1	15.5	850912	11.87	312.01	26.12	2.70	0.2165	2.4061	35	7		M
1985 SA	14.0	850912	11.12	210.40	118.93	6.98	0.1231	2.3047	7	0		M
1985 TA	16.5	851002	14.69	226.17	131.32	11.97	0.2975	2.4488	7	9		M

Note 1: double designations 1984 WX = 1984 YM2 (b); 1985 FE3 = 1985 DG (b); 1985 HD1 = 1985 JV (b); 1985 HD1 = 1985 KK (B); 1985 HG1 = 1985 JZ (b); 1985 HV1 = 1985 JX (b); 1985 JH2 = 1985 KU (b). 2: e assumed.

ORBITAL ELEMENTS BY K. HURUKAWA, TOKYO ASTRONOMICAL OBSERVATORY.

The identifications are by K. Hurukawa unless otherwise stated.

(3319)* 1977 EJ5 = 1965 AE1 = 1974 SP2 = 1974 TH = 1979 OM1 = 1980 TU14

Discovered 1977 Mar. 12 by H. Kosai and K. Hurukawa at the Tokyo Observatory's Kiso Station. The identifications are by H. Oishi (MPC 9957).

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5

M	342.48512	(1950.0)	P	Q
n	0.17528851	Peri. 109.39794	+0.93488863	-0.34874968
a	3.1620380	Node 271.05721	+0.29580933	+0.86832528
e	0.1607253	Incl. 3.78532	+0.19616345	+0.35268239
P	5.62	B(1,0) 13.2		

Residuals in seconds of arc

650111	330	0.9-	2.0-	770314	381	0.5+	0.9-	790727	675	1.1+	0.2-
740920	095	(0.6+	5.6+)	770315	381	0.1-	0.6+	790730	095	1.0-	0.1-
740922	095	1.8+	1.9-	770315	381	0.4+	0.2-	801015	095	1.4-	1.7+
741009	095	(4.7-	12.9+)	790721	095	0.7-	1.3+	801017	095	0.1-	1.3+
770312	381	0.6-	1.2+	790724	675	1.5-	0.0	850920	381	0.6+	0.1+
770312	381	0.1-	1.0+	790724	413	1.7+	0.6-				
770314	381	0.4+	0.3+	790725	675	1.0-	0.1-				

(3320)* 1982 VZ4 = 1955 VU = 1980 FA10 = 1984 DA1

Discovered 1982 Nov. 14 by H. Kosai and K. Hurukawa at the Tokyo Observatory's Kiso Station. The identification 1982 VZ4 = 1984 DA1 was also found independently by O. Kippes, W. Landgraf and L. D. Schmadel (MPC 9069). Schmadel also found the identification 1982 VZ4 = 1980 FA10 (MPC 9121).

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5

M	131.97378	(1950.0)	P	Q
n	0.25549880	Peri. 350.72820	-0.87703147	+0.47844712
a	2.4596698	Node 217.95568	-0.43609397	-0.83091112
e	0.0475633	Incl. 4.06844	-0.20158832	-0.28403357
P	3.86	B(1,0) 14.5		

Residuals in seconds of arc

551113	388	0.0	0.0	821214	381	0.7-	0.3+	840308	809	0.0	0.1-
800316	095	0.0	0.1+	840226	809	0.3-	1.0-	840308	809	0.4+	0.6-
821114	381	0.6+	0.4+	840226	809	0.3-	0.4-	840308	809	0.6+	0.2-
821114	381	0.2-	0.3+	840226	809	0.2-	0.0	840310	809	0.2-	1.1+
821213	381	0.3-	0.1+	840304	809	0.2+	0.6+	840310	809	0.0	1.2+
821213	381	0.3+	0.6-	840304	809	0.4+	0.3+	840310	809	0.2-	1.0+
821213	381	0.8+	0.3+	840304	809	0.9+	0.0	840311	809	0.0	0.2-
821214	381	0.7-	0.1+	840306	809	0.6-	0.0	840311	809	0.0	0.2-
821214	381	0.6-	0.7-	840306	809	0.3-	0.4-	840311	809	0.1+	0.2-
821214	381	0.8+	0.3+	840306	809	0.4-	0.5-	850920	381	0.1-	0.5+

1985 PL = 1977 UQ2

The identification was found independently by W. Landgraf.

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	10.82843	(1950.0)	P	Q
n	0.23892448	Peri. 31.08852	+0.97943397	+0.14275498
a	2.5721511	Node 319.91101	-0.19801041	+0.81578007
e	0.2237098	Incl. 12.79194	+0.03874242	+0.56046756
P	4.13	B(1,0) 14.4		

Residuals in seconds of arc

771018	033	0.5+	0.1-	771020	033	0.1-	0.0	850822	688	0.0	0.6+
771018	033	0.2-	0.2-	850814	688	0.3-	0.7-	850822	688	1.8+	0.1-
771018	033	0.1+	0.0	850814	688	1.3+	0.1+	850913	801	1.0-	0.0
771019	033	0.1-	0.0	850820	688	1.9-	0.5+				
771019	033	0.1-	0.1+	850820	688	0.0	0.3-				

ORBITAL ELEMENTS BY H. OISHI, NIIZA, JAPAN.

The following orbital elements are from JAM 1924, 1926-1929 and 1942-1943. The identifications are by H. Oishi unless otherwise stated.

1936 QV = 1981 SM5

The identification is by T. Furuta (JAM 1942).

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	92.56444		(1950.0)	P	Q
n	0.28644359	Peri.	171.07408	+0.99960589	-0.02642227
a	2.2791741	Node	190.45402	+0.02143037	+0.93643555
e	0.1107866	Incl.	2.99586	+0.01813297	+0.34984326
P	3.44	B(1,0)	14.9		

Residuals in seconds of arc

360817 024	0.7-	0.5-	360828 024	0.3-	1.6-	811007 095	3.4+	0.1+
360823 024	1.1+	0.6+	360911 024	0.0	0.4+	811024 095	1.8-	0.4+
360824 024	0.1-	1.2+	810925 095	1.7-	0.6-			

1977 QW2 = 1977 RR2 = 1980 GZ

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	116.47294		(1950.0)	P	Q
n	0.26675317	Peri.	107.60158	+0.46346876	+0.88596339
a	2.3899961	Node	190.05656	-0.84423998	+0.43590625
e	0.2115302	Incl.	5.35490	-0.26917570	+0.15828647
P	3.69	B(1,0)	15.0		

Residuals in seconds of arc

770821 095	0.4-	0.9+	770909 095	0.0	0.1+	800415 805	0.5+	0.1-
770823 095	0.5+	0.9-	800414 805	0.3-	0.0	800416 805	0.1-	0.1+

1977 RD4 = 1936 QJ1 = 1943 GM = 1947 LO = 1951 RW1 = 1951 SJ = 1980 FM11

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	100.96711		(1950.0)	P	Q
n	0.26480999	Peri.	147.69207	+0.42856431	+0.89968858
a	2.4016737	Node	147.46609	-0.85828037	+0.43409749
e	0.2180949	Incl.	8.88076	-0.28228964	+0.04604156
P	3.72	B(1,0)	13.6		

Residuals in seconds of arc (or two decimals in units of degrees)

360812 078(0.04-	0.01-)X		510902 711	1.9-	2.0+ Y	770912 095	0.6-	0.7-
430406 062	2.1+	2.8-	510902 711	0.2+	1.6+ Y	770918 095	0.1-	0.3-
430406 062	2.0+	0.7-	510930 760	4.0-	0.2+	800316 095	3.8-	4.1+
430408 062	2.3+	0.3+	510930 760	2.8+	0.1-			
470613 012	3.4-	0.5+	770907 095	4.6+	1.2-			

1980 TY14 = 1980 VY1 = 1970 WW = 1975 EM3 = 1985 FK

The double designation 1980 TY14 = 1980 VY1 is by B. G. Marsden (MPC 9203). The identifications 1980 TY14 = 1970 WW = 1975 EM3 are by T. Furuta (JAM 1924) and W. Landgraf, who found them independently. The identification 1980 TY14 = 1985 FK is by Furuta.

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	182.48138		(1950.0)	P	Q
n	0.29394024	Peri.	42.69342	+0.67619801	-0.73667120
a	2.2402555	Node	4.78208	+0.64551195	+0.58690110
e	0.1470378	Incl.	5.83297	+0.35506418	+0.33595035
P	3.35	B(1,0)	14.7		

Residuals in seconds of arc

701126 095	1.2+	4.1-	801106 330	1.2+	2.5+	850320 046	5.3-	1.2-
750314 095	0.1+	0.3+	801110 330	1.4-	0.6+	850320 046	2.9-	1.7+
801015 095	1.1-	0.8+	850315 046	5.5+	1.6-			
801017 095	0.6-	0.8+	850315 046	3.5+	2.6+			

1981 RK5 = 1975 GE1 = 1983 AR2
Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	288.85353		(1950.0)	P	Q
n	0.22152467	Peri.	24.99597	+0.53720341	-0.84024246
a	2.7051344	Node	32.65489	+0.74910192	+0.43523543
e	0.0375879	Incl.	7.83113	+0.38763232	+0.32336162
P	4.45	B(1,0)	13.5		

Residuals in seconds of arc

750415 805	0.0	0.3+	811005 095	0.3+	0.0	830111 675	0.3-	1.2+
750420 805	0.0	0.1-	830110 675	0.0	0.2-	830112 675	0.9-	0.5-
810908 095	0.8+	0.4-	830110 675	0.7+	0.4-	830112 675	1.2+	0.3-
810928 095	1.2-	0.6+	830111 675	0.7-	0.3+			

1981 SF2 = 1929 WG1 = 1968 DP = 1970 WR = 1977 QJ
Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	326.24887		(1950.0)	P	Q
n	0.26343164	Peri.	349.03676	-0.07052904	-0.99510694
a	2.4100439	Node	104.98051	+0.92048698	-0.09165448
e	0.1467103	Incl.	4.10753	+0.38435579	+0.03690023
P	3.74	B(1,0)	13.7		

Residuals in seconds of arc (or two decimals in units of degrees)

291127 690(0.04+ 0.00)X			810908 095	1.1-	1.7+	810926 688	1.5-	0.2-
680227 095	0.1-	0.2-	810926 688	1.7+	0.5-	811005 688	2.3-	1.2-
701126 095	0.5+	1.2-	810926 688	0.8-	0.5-	811005 688	0.8+	0.8+
770818 095	0.6+	2.0-	810926 688	2.3+	2.1+			

1981 VO = 1938 TC = 1951 WP2 = 1964 VJ2
Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	15.45370		(1950.0)	P	Q
n	0.23004674	Peri.	260.52623	+0.97852044	+0.19717388
a	2.6379073	Node	88.08458	-0.15748704	+0.90332297
e	0.2310377	Incl.	3.45139	-0.13302470	+0.38095942
P	4.28	B(1,0)	13.9		

Residuals in seconds of arc

381004 094(65.8- 43.0+)X			811022 095	2.4+	2.7+	811105 688	0.2+	0.2-
511129 760	2.6-	1.1+	811027 095	1.1+	2.0+	811120 688	2.5-	1.2-
511129 760	1.6+	0.7+	811102 688	0.2+	1.5-	811120 688	0.4-	1.4+
641111 330	0.3+	1.4+	811102 688	1.9+	2.0-	811202 688	1.2-	1.9-
811007 095	0.5-	0.8+	811105 688	0.9+	0.2-	811202 688	1.6-	3.6-

1981 WK2 = 1981 SO1 = 1970 JJ = 1970 LN = 1972 XG2 = 1976 SB11 = 1979 FW1
Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	359.55127		(1950.0)	P	Q
n	0.20247145	Peri.	257.39894	+0.74770878	+0.66246832
a	2.8722863	Node	61.09295	-0.58725752	+0.69167256
e	0.0590292	Incl.	2.97722	-0.30993576	+0.28761916
P	4.87	B(1,0)	13.2		

Residuals in seconds of arc

700514 808	0.6-	0.5+	790323 095	0.2-	4.0-	811102 688	0.8-	0.8-
700604 805	0.7-	0.0	810926 688	0.9+	0.0	811102 688	0.6-	3.2-
721201 095	1.1-	0.5+	810926 688	1.8-	1.8-	811120 688	0.5-	0.8-
760928 095	4.7+	0.3+	811026 095	0.1+	5.2+	811120 688	0.2-	0.7-
761025 095	0.5+	2.4-	811027 095	0.3-	0.9+			

1981 XC2 = 1952 QN = 1976 JT2 = 1976 KH = 1977 QV3 = 1977 SM
Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	8.87261		(1950.0)	P	Q
n	0.27821820	Peri.	297.34105	-0.30647515	-0.95161631
a	2.3238775	Node	170.42527	+0.91388151	-0.30072699
e	0.0465335	Incl.	7.72099	+0.26625847	-0.06316385
P	3.54	B(1,0)	14.1		

Residuals in seconds of arc

520828	024	1.3-	0.5+	811125	095	0.4+	0.2-	811203	511	0.3+	0.2+
520828	024	1.0+	0.8+	811129	808	0.5-	1.4+	811203	511	0.5+	0.5-
760502	095	1.2-	0.9+	811129	808	0.2+	1.3+	811203	808	1.7+	0.0
760525	095	1.7+	1.1+	811201	808	0.5+	0.6+	811203	808	1.3-	0.9-
770824	095	0.0	1.1-	811201	808	1.7-	1.0-				
770918	095	0.0	0.1+	811202	511	0.2-	1.2+				

1981 YR = 1942 VG = 1969 KF = 1970 QW = 1974 HT2 = 1976 YV
= 1978 EV4 = 1980 TE10
Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	107.84882		(1950.0)	P	Q
n	0.20508215	Peri.	188.73773	+0.08684773	+0.99460121
a	2.8478580	Node	86.25869	-0.91049577	+0.10238262
e	0.0274089	Incl.	3.26295	-0.40429558	-0.01691853
P	4.81	B(1,0)	13.1		

Residuals in seconds of arc

421105	062	0.3-	0.6+	740425	805	0.7-	0.9+	811125	095	1.4+	0.3+
421105	062	0.7+	3.0+	761216	095	5.0-	0.8-	811220	046	0.8+	1.8-
421105	062	1.3-	0.4-	761218	095	0.6+	0.6-	811220	046	0.5-	1.6-
690519	095	1.6+	0.2-	761220	095	0.2+	0.4-	811228	046	3.1+	0.3+
700829	095	1.4+	3.6-	780306	095	0.7-	1.1-	811228	046	1.0-	0.2-
740424	805	1.4-	0.8-	801015	095	0.8+	0.1+				

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ORBITAL ELEMENTS BY W. LANDGRAF, MAX-PLANCK-INSTITUT FUR AERONOMIE, LINDAU.

Periodic Comet Halley (1982i)
Epoch 1986 Feb. 19.0 ET = JDE 2446480.5
T 1986 Feb. 9.46489 ET

q	0.58710380		(1950.0)	P	Q
n	0.01296834	Peri.	111.84760	+0.55439086	-0.79089735
a	17.9423709	Node	58.14427	-0.83065351	-0.50651302
e	0.96727836	Incl.	162.23915	-0.05162860	-0.34340347

From 2120 observations and normals 1607-1985 Oct. 23, mean error (1835-1985) 1".4. Nongravitational parameters are A1 = +0.003 (1-Bt), A2 = +0.0157 (1-Bt), A3 = +0.047; B = -0.00268, t measured in units of 10 000 days from Epoch.

Periodic Comet Halley (1982i)
Epoch 1986 Feb. 19.0 ET = JDE 2446480.5
T 1986 Feb. 9.46128 ET

q	0.58710148		(1950.0)	P	Q
n	0.01297044	Peri.	111.84672	+0.55439350	-0.79089604
a	17.9404358	Node	58.14358	-0.83065193	-0.50651701
e	0.96727496	Incl.	162.23913	-0.05162567	-0.34340059

From 2113 observations and normals 1835-1985 Oct. 23, mean error 1".3. Nongravitational parameters for r < 1.0 AU are A1 = +0.064, A2 = +0.0067, A3 = +0.009; for r > 1.0 AU they are A1 = +0.04, A2 = +0.004 (assumed), A3 = -0.130 before perihelion and A1 = +0.14, A2 = +0.014 (assumed), A3 = = +0.142 after perihelion.

ORBITAL ELEMENTS BY B. G. MARSDEN, SMITHSONIAN ASTROPHYSICAL OBSERVATORY.

The identifications are by B. G. Marsden unless otherwise stated.

Comet Shoemaker (1984r)
Epoch 1984 Sept. 17.0 ET = JDE 2445960.5
T 1984 Sept. 3.67614 ET

		(1950.0)	P	Q
q	5.4891450			
z	+0.0009485	Peri.	183.27444	+0.57702076	+0.81664688
	+/-0.0002360	Node	238.03285	+0.74960863	-0.52390002
e	0.9947935	Incl.	179.21549	+0.32424365	-0.24210874

From 30 observations 1984 Oct. 23-1985 Sept. 21, mean residual 1".0.

Periodic Comet Giclas (1985g)
Epoch 1985 Sept. 12.0 ET = JDE 2446320.5
T 1985 Oct. 1.23612 ET

		(1950.0)	P	Q
q	1.8377290			
n	0.14215930	Peri.	276.31973	+0.87335043	-0.47265587
a	3.6359608	Node	111.94078	+0.48181924	+0.80282915
e	0.4945685	Incl.	7.29052	+0.07147894	+0.36340306
P	6.93				

From 67 observations 1978-1985, mean residual 1".4.

Comet Hartley-Good (1985l)
T 1985 Dec. 9.11290 ET

		(1950.0)	P	Q
q	0.6945975			
		Peri.	87.02804	+0.05882591	-0.99748402
		Node	357.69714	-0.23296354	+0.02481895
e	1.0	Incl.	79.92393	+0.97070464	+0.06640518

From 39 observations 1985 Sept. 13-Oct. 19.

Comet Thiele (1985m)
T 1985 Dec. 18.66272 ET

		(1950.0)	P	Q
q	1.3200044			
		Peri.	52.64573	+0.84660858	-0.12211331
		Node	52.35695	-0.10299835	-0.99251370
e	1.0	Incl.	139.14081	+0.52215444	+0.00221180

From 23 observations 1985 Oct. 9-26.

Periodic Comet Boethin (1985n)
Epoch 1986 Jan. 10.0 ET = JDE 2446440.5
T 1986 Jan. 16.45220 ET

		(1950.0)	P	Q
q	1.1143660			
n	0.08780315	Peri.	11.64868	+0.79421281	-0.60607127
a	5.0133648	Node	25.81206	+0.54911208	+0.68511533
e	0.7777209	Incl.	5.75086	+0.26019593	+0.40409726
P	11.23				

From 44 observations 1975-1985, mean residual 1".6.

(3321)* 1975 TZ2 = 1951 YC2 = 1983 RZ = 1983 SH

Discovered 1975 Oct. 3 by L. I. Chernykh at the Crimean Astrophysical Observatory. The key identification 1975 TZ2 = 1983 RZ is by F. N. Bowman (MPC 8907).

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5
M 188.54875

		(1950.0)	P	Q
n	0.24261802	Peri.	201.97984	+0.99615547	-0.07860549
a	2.5459743	Node	162.39627	+0.08635871	+0.95528387
e	0.2018565	Incl.	7.34637	-0.01471245	+0.28505069
P	4.06	B(1,0)	14.5		

Residuals in seconds of arc

511228	711	0.4-	5.3+	Y	850214	809	0.4-	0.1-	850221	809	0.1+ 0.1+
751003	095	0.3-	0.5-		850215	809	0.7-	0.2+	850221	809	0.2+ 0.1-
751013	095	0.8-	0.9-		850215	809	0.5-	0.1-	850221	809	0.2+ 0.0
751101	095	1.8+	2.3-		850215	809	0.2-	0.4-	850222	809	0.2- 0.5-
751105	095	0.1-	0.5+		850216	809	0.2+	0.2+	850222	809	0.1- 0.5-
751106	095	1.4+	3.6-		850216	809	0.4+	0.2-	850222	809	0.2- 0.5-
830904	688	0.9+	0.7-		850216	809	0.4+	0.3-	850224	809	0.5- 0.5-
830904	688	1.6+	0.8-		850217	809	0.3+	0.3+	850224	809	0.5- 0.5-
830908	046	0.7-	2.3-		850217	809	0.4+	0.3+	850224	809	0.5- 0.5-
830908	046	0.6-	1.0-		850217	809	0.8+	0.4+	850225	809	0.1+ 0.6-
830929	046	0.8+	0.2+		850218	809	0.1+	0.0	850225	809	0.1- 0.3-
830929	046	1.6+	2.8+		850218	809	0.5+	0.2-	850225	809	0.1+ 0.7-
831009	688	1.1-	3.1+		850218	809	0.5+	0.3-	850225	809	0.3+ 1.2-
831009	688	3.1-	1.4+		850219	809	0.1-	0.1-	850225	809	0.2+ 1.0-
850212	809	0.0	1.3+		850219	809	0.1-	0.1-	850225	809	0.2+ 1.0-
850212	809	0.3+	0.9+		850219	809	0.1-	0.1+	850227	809	0.3- 0.1-
850212	809	0.6+	0.8+		850220	809	0.1-	0.2+	850227	809	0.3- 0.3-
850214	809	0.8-	0.3+		850220	809	0.1-	0.2+	850227	809	0.1- 0.5-
850214	809	0.8-	0.1-		850220	809	0.3-	0.0			

(3322)* 1975 XY1 = 1975 VJ6

Discovered 1975 Dec. 1 by T. M. Smirnova at the Crimean Astrophysical Observatory. The double designation is by C. M. Bardwell (MPC 5835).

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5

M	223.69330		(1950.0)	P	Q
n	0.26610286	Peri.	223.48682	-0.34972189	-0.85832072
a	2.3938836	Node	250.30877	+0.93099397	-0.27364721
e	0.2135749	Incl.	23.50280	+0.10461753	-0.43405385
P	3.70	B(1,0)	13.5		

Residuals in seconds of arc

751106	095	1.2-	2.2+		751222	330	0.4+	1.0-	840527	474	0.1- 0.8+
751123	330	(0.6-	5.2-)		751230	330	0.7+	0.1+	850718	801	0.2+ 0.1+
751126	330	0.8+	0.5+		820911	675	2.3+	0.8+	850918	801	0.1+ 0.3+
751129	330	0.3-	0.5-		820912	675	2.5-	0.6-			
751201	095	(2.7+	11.5+)		840527	474	0.1+	0.7+			

1942 DB = 1985 QY

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	143.07627		(1950.0)	P	Q
n	0.23740055	Peri.	246.80161	-0.84471431	+0.52102976
a	2.5831469	Node	324.25738	-0.38148626	-0.74655130
e	0.1167785	Incl.	12.09684	-0.37540107	-0.41375009
P	4.15	B(1,0)	13.0		

Residuals in seconds of arc

420217	062	1.5-	0.3+		850822	046	3.8+	1.8+	850911	046	1.9- 1.3-
420217	062	1.4+	0.8-		850909	046	1.3-	1.7+	850911	046	2.1- 0.8-
420219	062	2.0-	0.8+		850909	046	0.7+	0.0	850913	046	0.4+ 0.1+
420313	062	2.2+	0.9-		850910	046	0.9-	0.5-	850913	046	2.8- 1.5-
850822	046	4.1+	0.4+		850910	046	0.3+	0.1-			

1978 VO8 = 1985 CR1

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	52.53973		(1950.0)	P	Q
n	0.18515314	Peri.	37.45887	-0.84323574	-0.53595991
a	3.0487105	Node	110.08329	+0.48192898	-0.78774695
e	0.1479710	Incl.	2.51645	+0.23811328	-0.30364735
P	5.32	B(1,0)	14.5		

Residuals in seconds of arc

781105	675	0.6+	0.1+	850216	809	0.6-	0.6+	850222	809	0.2- 0.6+
781106	675	0.0	0.2-	850216	809	0.3-	0.6+	850222	809	0.3+ 0.8+
781107	675	0.9+	1.3+	850216	809	0.2-	0.9+	850222	809	0.6+ 0.9+
781108	675	0.3-	0.0	850217	809	0.6-	1.4+	850224	809	0.6- 0.5+
781129	675	0.5-	1.5+	850217	809	0.4-	1.1+	850224	809	0.6- 0.1+
781130	675	0.8-	1.1+	850217	809	0.1-	1.4+	850224	809	0.5- 0.5+
850210	809	0.7-	0.3+	850219	809	0.7-	0.8+	850225	809	0.2- 0.6+
850210	809	0.7-	0.1+	850219	809	0.4-	1.0+	850225	809	0.2- 0.4+
850210	809	0.6-	0.2+	850219	809	0.0	0.9+	850225	809	0.1- 0.5+
850211	809	0.5-	1.1+	850220	809	0.7-	0.5+	850227	809	0.6- 0.3-
850211	809	0.5-	1.0+	850220	809	0.2-	0.6+	850227	809	0.9- 0.1+
850211	809	0.4-	1.0+	850220	809	0.0	0.8+	850227	809	1.2- 0.3+
850214	809	0.3-	1.0+	850221	809	0.5-	0.9+	850228	809	1.1- 0.7+
850214	809	0.2-	1.3+	850221	809	0.4-	0.8+	850228	809	0.7- 0.6+
850214	809	0.1-	1.4+	850221	809	0.3-	1.0+	850228	809	0.3- 0.7+

1980 RO2 = 1947 UB = 1950 NV = 1950 QM = 1965 BD = 1985 CQ1

The double designation 1950 NV = 1950 QM is by O. Kippes (MPC 1331).

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	191.41394		(1950.0)	P	Q
n	0.29796457	Peri.	127.50209	+0.94513699	-0.32448817
a	2.2200384	Node	251.46017	+0.28573903	+0.87714879
e	0.1744293	Incl.	2.28065	+0.15833277	+0.35400202
P	3.31	B(1,0)	15.0		

Residuals in seconds of arc

471018	012	0.7+	2.0-	850215	809	0.8+	0.8+	850221	809	0.3+ 1.1-
500715	760	0.6-	0.9-	850215	809	0.8+	0.6+	850221	809	0.3+ 1.1-
500715	760	1.1+	0.7-	850215	809	0.7+	0.6+	850221	809	0.1+ 1.1-
500817	760(16.4-	39.8+)X		850216	809	0.2-	0.7+	850222	809	0.5- 0.6-
650126	330(48.2+	12.8-)		850216	809	0.4-	0.2+	850222	809	0.1- 0.7-
800906	095	2.2-	0.8-	850216	809	0.5-	0.5+	850222	809	0.2+ 0.9-
800908	095	1.2-	1.2+	850217	809	0.1+	0.6+	850224	809	0.0 1.6-
801008	095	1.5+	1.9+	850217	809	0.1+	0.5+	850224	809	0.1+ 1.6-
801012	095	1.1+	0.5-	850217	809	0.2+	0.5+	850224	809	0.2+ 1.6-
850210	809	0.4-	0.6+	850218	809	0.4-	0.2+	850225	809	1.0+ 0.2+
850210	809	0.4-	0.6+	850218	809	0.1-	0.0	850225	809	1.0+ 0.2+
850210	809	0.2-	0.4+	850218	809	0.0	0.1-	850225	809	1.1+ 0.2+
850211	809	0.9-	0.6+	850219	809	0.8-	0.2+	850226	809	0.3+ 0.5-
850211	809	0.4-	0.5+	850219	809	1.0-	0.3+	850226	809	0.2+ 0.5-
850211	809	0.6-	0.4+	850219	809	1.1-	0.3+	850226	809	0.0 0.5-
850213	809	0.1-	0.4+	850220	809	0.5+	0.1+	850227	809	0.6- 0.2+
850213	809	0.1-	0.3+	850220	809	0.6+	0.1+	850227	809	0.3- 0.1+
850213	809	0.4-	0.3+	850220	809	0.7+	0.0			

1981 ER6 = 1985 CT1

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	59.91745		(1950.0)	P	Q
n	0.22978655	Peri.	233.13072	-0.81053628	-0.57880374
a	2.6398982	Node	271.33328	+0.56180469	-0.72513239
e	0.1901488	Incl.	5.13846	+0.16554885	-0.37305395
P	4.29	B(1,0)	15.5		

Residuals in seconds of arc

810209	413	0.6-	0.3+	810409	413	0.7-	0.8+	850218	809	0.9-	0.5+
810212	413	0.4+	0.2+	810409	413	0.5+	0.5+	850219	809	0.1-	0.4-
810214	413	0.4+	0.5-	850211	809	0.1+	0.6-	850219	809	0.2+	0.3-
810301	413	0.2+	0.2-	850211	809	0.3+	0.6-	850219	809	0.5+	0.4-
810301	413	1.0+	0.8-	850211	809	0.4+	0.6-	850220	809	0.5+	1.0+
810306	413	0.9-	1.2+	850212	809	0.5+	0.3-	850220	809	0.4+	0.8+
810306	413	1.3+	0.6-	850212	809	0.1+	0.4-	850220	809	0.5+	0.8+
810306	413	1.6-	0.4+	850212	809	0.2-	0.5-	850221	809	0.5-	0.4+
810308	413	1.3-	0.1-	850214	809	0.5-	0.4-	850221	809	0.1+	0.2+
810308	413	0.0	0.6-	850214	809	0.7-	0.4-	850221	809	0.3+	0.6+
810308	413	0.7+	0.1+	850214	809	0.8-	0.4-	850222	809	0.4+	0.3+
810312	413	0.7-	0.0	850216	809	0.4-	0.8-	850222	809	0.3+	0.3+
810312	413	0.1-	0.4-	850216	809	0.3-	0.3-	850222	809	0.2+	0.1+
810312	413	0.6-	0.1-	850216	809	0.1-	0.1+	850224	809	0.3+	0.4+
810312	413	0.9+	0.7-	850217	809	0.1-	0.0	850224	809	0.2+	0.4+
810407	413	0.3-	0.3+	850217	809	0.5-	0.2+	850224	809	0.1+	0.5+
810407	413	0.8+	0.6-	850217	809	0.3-	0.3-	850225	809	0.0	0.5+
810408	413	0.4-	0.5+	850218	809	1.2-	0.1-	850225	809	0.6+	0.6+
810408	413	1.0+	0.5-	850218	809	1.1-	0.1+	850225	809	1.1+	0.6+

1981 EP13 = 1985 RH1

The identification is by E. Bowell.

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	39.03522		(1950.0)	P	Q
n	0.31302400	Peri.	18.61768	+0.84241839	+0.53456372
a	2.1482516	Node	308.87874	-0.50471593	+0.73891112
e	0.1180385	Incl.	4.98334	-0.18866130	+0.41018529
P	3.15	B(1,0)	16.0		

Residuals in seconds of arc

810212	413	0.0	0.9-	810406	413	1.4-	1.0+	850911	046	0.2-	0.6-
810212	413	1.3+	1.1-	810406	413	1.4+	0.2+	850911	046	3.9-	0.7+
810301	413	0.4-	0.6+	810408	413	2.3-	0.9+	850912	688	1.1+	1.0+
810301	413	0.9+	0.0	810408	413	0.1+	1.1-	850912	688	3.5-	1.2+
810306	413	0.6-	0.3+	810409	413	1.8-	1.1+	850912	046	3.6+	0.2-
810306	413	1.7+	0.5-	810409	413	0.3+	0.1+	850912	046	0.5+	0.1-
810308	413	0.3-	0.3+	850820	688	1.3+	0.2-	850913	046	0.2-	0.3+
810308	413	1.5+	0.2+	850820	688	3.0+	0.3+	850913	046	2.6-	2.1-
810312	413	0.6-	0.3-	850909	046	1.1+	0.4-				
810312	413	1.4+	0.9-	850909	046	0.7-	0.3+				

1981 RM = 1976 JP = 1985 RC2

The key identification 1981 RM = 1985 RC2 is by E. Bowell.

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	74.29765		(1950.0)	P	Q
n	0.23920821	Peri.	348.18686	-0.06880607	+0.99352365
a	2.5701168	Node	277.81911	-0.90766757	-0.09995832
e	0.1252912	Incl.	5.23682	-0.41401124	+0.05402864
P	4.12	B(1,0)	14.0		

Residuals in seconds of arc

760502	095	0.4-	0.4-	810906	046	0.6+	0.8-	850914	688	1.1-	0.3+
810905	046	0.1-	0.6-	810906	046	0.8+	0.1-	850914	688	0.0	0.4+
810905	046	0.8-	0.1-	810906	046	0.2-	0.6-				
810906	046	0.8+	0.3-	810925	095	0.3-	1.1+				

1981 WG1 = 1985 RW1
The identification is by E. Bowell.

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5			(J-P)			
M 301.90181		(1950.0)		P		Q
n 0.20926728	Peri.	281.62785		+0.42637363		-0.89947663
a 2.8097609	Node	142.66279		+0.87913248		+0.38718337
e 0.1353503	Incl.	9.07302		+0.21291221		+0.20256066
P 4.71	B(1,0)	13.5				

Residuals in seconds of arc

811027 095	0.2+	1.5+	811202 688	1.5-	1.5-	850912 688	1.7-	1.9-
811124 688	2.0+	0.0	811202 688	0.3-	0.2+			
811124 688	0.9-	0.7+	850912 688	1.2+	1.0+			

1982 TA

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5						
M 300.21486		(1950.0)		P		Q
n 0.28267584	Peri.	119.10477		-0.62237922		-0.78191855
a 2.2993774	Node	9.62700		+0.62442786		-0.52321871
e 0.7724651	Incl.	12.19278		+0.47194699		-0.33888872
P 3.49	B(1,0)	16.0				

Residuals in seconds of arc

821011 675	(2.8-	0.8-)	821017 489	2.6+	1.5-	821112 675	1.7-	0.7+
821011 675	(4.7+	0.0)	821017 489	(5.8-	0.5+)	821112 675	1.2+	2.8-
821011 675	(7.6+	0.4+)	821017 489	(8.6+	3.0-)	821115 688	1.8+	0.4+
821012 675	(2.6-	0.2+)	821018 323	0.6-	0.3-	821115 688	(5.2+	0.5-)
821012 675	2.3+	0.5+	821019 675	1.3+	1.3+	821115 474	0.4-	0.9+
821012 675	(3.5-	0.2-)	821019 474	0.5+	1.1+	821115 474	0.5-	1.5+
821012 675	1.9+	1.5+	821019 474	1.3+	1.4+	830416 474	2.3-	1.4+
821013 675	1.7-	0.1-	821019 323	1.3-	1.2+	830416 474	2.6-	1.1+
821013 675	2.6+	1.1+	821020 801	1.5-	0.7+	830522 474	1.1+	1.8-
821013 688	2.2+	1.8-	821020 675	0.9-	0.2+	830522 474	1.1+	2.1-
821013 688	1.2+	1.1-	821020 323	2.0-	0.0	830612 474	0.2-	0.0
821013 675	(3.5-	1.6-)	821021 688	0.5+	2.5-	830612 474	1.8+	0.1-
821013 675	(5.7+	0.1+)	821021 688	(3.3+	0.9-)	850920 691	0.0	0.4+
821016 474	0.3-	0.1-	821022 691	1.5+	0.2+	850920 691	0.4-	0.1+
821016 474	1.5+	0.2+	821022 801	1.1-	1.5-	850920 691	1.2-	0.6-
821016 372	0.5+	1.1+	821023 691	0.0	0.2+	850921 691	0.5-	1.0+
821016 372	1.2-	1.3+	821024 691	3.1-	0.1-	850921 691	0.5-	1.3+
821017 688	0.9+	1.2-	821024 688	0.0	1.1-	850921 691	0.1-	1.6+
821017 675	2.5-	0.1-	821024 688	0.7-	1.4-	850923 675	0.2+	1.1+
821017 688	0.0	2.2-	821107 675	0.7+	0.5+	850923 675	0.2-	0.8+
821017 675	(8.5-	2.1+)	821107 046	(4.3-	0.5-)	850924 675	0.6+	0.7+
821017 675	0.9-	0.8-	821107 046	(4.8+	0.1+)	850924 675	0.1+	2.7-
821017 489	3.0-	1.9+	821110 801	0.5+	0.3-			

1983 PA

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5						
M 200.86884		(1950.0)		P		Q
n 0.26380462	Peri.	84.75007		+0.91669548		-0.22852392
a 2.4077670	Node	288.14623		+0.05062466		+0.88013228
e 0.3934510	Incl.	20.17849		+0.39636667		+0.41610573
P 3.74	B(1,0)	14.0				

Residuals in seconds of arc

830808	675	0.2-	0.9+	830903	071	1.2-	1.7-	830909	801	0.6-	1.2+
830808	675	0.3-	0.0	830903	071	0.3-	2.0-	830912	801	0.5-	1.5+
830810	675	0.3+	0.3-	830904	801	0.4+	0.1+	831008	801	0.4+	0.8+
830810	675	(2.9-	4.1+)	830904	071	0.3-	0.7-	831105	801	0.6-	0.3+
830811	675	0.9+	0.2+	830904	071	0.1+	0.3-	831130	675	1.5+	1.5-
830811	675	0.2-	1.3-	830904	071	0.5-	0.6+	831130	675	1.9-	0.0
830830	675	3.0+	0.6-	830904	071	0.0	0.2+	850320	474	0.1+	0.4-
830831	675	0.0	1.9+	830904	071	(0.7+	3.9+)	850320	474	0.1-	0.5+
830831	675	1.3+	1.9+	830904	071	1.8+	2.3-	850523	691	0.4+	0.7+
830903	071	1.3-	1.2-	830905	071	2.4-	2.9+	850523	691	0.3+	0.7+
830903	071	0.3+	1.6-	830908	801	0.8-	1.0+	850523	691	0.1-	0.4-

1983 TF2
Epoch 1983 Sept. 23.0 ET = JDE 2445600.5

M 328.90684		(1950.0)	P	Q
n 0.25876397	Peri.	116.56936	-0.56788829	-0.82228390
a 2.4389347	Node	8.32964	+0.63553308	-0.46642674
e 0.7363252	Incl.	14.70372	+0.52306843	-0.32602957
P 3.81	B(1,0)	18.5		

From 9 observations 1983 Oct. 5-9; e assumed.

1984 HX
Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M 316.98566		(1950.0)	P	Q
n 0.28177935	Peri.	117.98834	+0.44525156	-0.89156992
a 2.3042564	Node	305.33400	+0.78169776	+0.43213712
e 0.1029722	Incl.	5.82460	+0.43669171	+0.13550126
P 3.50	B(1,0)	15.0		

Residuals in seconds of arc

840423	474	0.9+	0.5-	840503	474	0.3-	0.9+	840530	474	0.6+	0.2-
840423	474	0.1+	0.6-	840503	474	0.7+	0.1+	840530	474	0.4+	0.9-
840428	474	0.1+	0.3+	840521	474	0.6-	0.1+	850813	474	0.2+	0.2+
840428	474	1.1-	0.7+	840521	474	0.8-	0.1-	850813	474	0.2-	0.1-

1985 TB
Epoch 1985 Oct. 2.0 ET = JDE 2446340.5

M 341.44681		(1950.0)	P	Q
n 0.20257596	Peri.	66.37220	+0.04751443	-0.98115436
a 2.8712926	Node	23.37236	+0.65392437	-0.11118402
e 0.6097385	Incl.	28.17201	+0.75506641	+0.15803237
P 4.87	B(1,0)	16.5		

From 6 observations 1985 Oct. 14-24.

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ORBITAL ELEMENTS BY C. M. BARDWELL, SMITHSONIAN ASTROPHYSICAL OBSERVATORY.

The identifications are by C. M. Bardwell unless otherwise stated.

(3323)* 1979 SY9 = 1975 TQ5 = 1975 VS7
Discovered 1979 Sept. 22 by N. Chernykh at the Crimean Astrophysical Observatory.
Epoch 1985 Dec. 1.0 ET = JDE 2446400.5

M 163.42511		(1950.0)	P	Q
n 0.24034509	Peri.	21.60047	+0.72781559	-0.68575715
a 2.5620005	Node	21.69686	+0.62729755	+0.66300137
e 0.1857825	Incl.	0.72037	+0.27709610	+0.30027706
P 4.10	B(1,0)	15.0		

Residuals in seconds of arc

751014	095	1.5+	0.2+		850215	809	0.5+	0.1-		850220	809	0.6+	0.2-
751106	095	0.4+	1.0+		850215	809	0.8+	0.5-		850220	809	1.0+	0.2-
790922	095	0.8-	2.5+		850215	809	1.0+	0.6-		850222	809	0.9+	0.8-
790928	095	0.8-	0.6-		850216	809	0.1+	0.4-		850222	809	1.0+	0.8-
791016	095	3.6-	1.8+		850216	809	0.2+	0.6-		850222	809	1.2+	0.8-
791111	095	0.2-	0.7-		850216	809	0.5+	0.5-		850224	809	1.1-	0.2+
791116	095	0.1+	0.1+		850217	809	0.4+	0.5-		850224	809	1.0-	0.5+
810202	413	0.9-	0.1-		850217	809	0.3+	0.3-		850224	809	0.8-	0.8+
830902	801	0.6+	0.9+		850217	809	0.2+	0.4-		850226	809	0.0	0.9+
831005	688	2.1+	1.5-		850218	809	1.6+	1.0-		850226	809	0.4-	1.1+
831007	801	1.1-	1.3-		850218	809	1.6+	1.1-		850226	809	0.1-	1.1+
831012	688	0.0	0.3-		850218	809	1.9+	1.1-		850227	809	2.2-	0.6+
831012	688	2.9+	3.3-		850219	809	0.6-	0.1-		850227	809	2.2-	0.6+
850213	809	0.9+	0.3+		850219	809	0.6-	0.1-		850227	809	2.0-	0.7+
850213	809	0.9+	0.5+		850219	809	0.3-	0.1-		850228	809	2.5-	0.1+
850213	809	0.9+	0.6+		850220	809	0.4+	0.0		850228	809	2.4-	0.2+

(3324)* 1983 CW1 = 1959 VC = 1961 DC = 1963 SU = 1972 TG6 = 1974 CE

Discovered 1983 Feb. 4 by A. Mrkos at Klet.

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5

			(1950.0)	P	Q
M	225.53779				
n	0.22230129	Peri.	182.03655	-0.74983549	-0.64902363
a	2.6988250	Node	316.57689	+0.60961148	-0.60224066
e	0.0255865	Incl.	10.77528	+0.25713922	-0.46483816
P	4.43	B(1,0)	13.5		

Residuals in seconds of arc

591103	760	(50.8+	8.8-)		830218	046	3.1-	2.6-		850822	046	0.3+	1.4-
610219	024	1.2-	0.4+		830218	046	2.2-	0.9-		850909	046	1.0-	1.6-
630923	760	1.4+	2.4+		840423	474	2.3+	1.2+		850909	046	1.0+	0.8-
630923	760	0.9+	2.6+		840423	474	2.6+	1.2+		850910	046	0.3+	1.9-
721006	095	(2.1+	11.5+)		840529	474	2.9-	1.3-		850910	046	0.7+	0.4-
740214	095	0.7-	4.0+		840529	474	1.9-	1.9-		850911	046	0.6+	1.6-
740218	095	3.2-	5.9+		850814	688	0.2-	0.8+		850911	046	1.0-	1.2-
830204	046	2.4+	3.2-		850814	688	1.3+	1.1+		850912	046	1.7-	0.5-
830204	046	3.7+	3.7-		850820	688	0.2-	0.1+		850912	046	0.3-	1.4-
830215	046	1.0-	2.0-		850820	688	3.2+	2.0+		850913	046	1.1-	1.3-
830215	046	0.1-	2.8-		850822	046	0.0	1.0-		850913	046	0.3+	0.5-

(3325)* 1984 JZ = 1958 VB1 = 1969 TP3 = 1975 VC8 = 1975 WF1

Discovered 1984 May 3 by B. A. Skiff at the Anderson Mesa Station of the Lowell Observatory.

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5

			(1950.0)	P	Q
M	261.07837				
n	0.17321014	Peri.	17.62495	+0.45865350	-0.84564912
a	3.1872822	Node	46.11814	+0.76280596	+0.21710915
e	0.0140553	Incl.	22.25470	+0.45581141	+0.48758711
P	5.69	B(1,0)	12.5		

Residuals in seconds of arc

581111	760	1.0-	0.2+		840428	691	0.1+	0.6+		840601	691	0.1-	0.7+
581111	760	1.3+	0.3+		840502	691	0.7-	0.8-		840621	691	0.7+	1.6+
691009	095	2.0+	3.6-		840502	691	0.8-	0.9-		850525	474	0.0	0.4-
751106	095	2.3-	2.8-		840502	691	0.8-	1.0-		850525	474	(7.7-	14.0+)
751124	330	2.5+	3.1+		840503	688	0.9-	2.5-		850718	474	0.2+	0.4+
840428	691	0.1+	0.4+		840503	688	0.3-	3.4-		850718	474	0.3+	0.3+
840428	691	0.0	0.5+		840601	691	0.1-	0.9+					

(3326)* 1985 FL = 1931 OB = 1946 TE = 1964 RA = 1964 RO = 1967 GJ
= 1974 EP = 1978 GL3 = 1979 UP4 = 1979 WA8 = 1983 WC1

Discovered 1985 Mar. 20 by A. Mrkos at Klet. The double designation 1964 RA = 1964 RO is by B. G. Marsden (MPC 9041).

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5

		(1950.0)	P	Q
M	334.43503			
n	0.27056497	Peri. 279.61573	+0.23877547	+0.97106518
a	2.3674910	Node 4.20597	-0.86617914	+0.21499342
e	0.1732404	Incl. 3.37929	-0.43899882	+0.10397233
P	3.64	B(1,0) 14.0		

Residuals in seconds of arc (or two decimals in units of degrees)

310717	078	(5.4-	11.5-)X	850216	809	0.3+	0.1-	850223	809	0.7-	0.7+
461003	062	1.4-	0.1-	850216	809	0.6+	0.1-	850223	809	0.8-	0.6+
461003	062	0.7+	1.5-	850216	809	0.5+	0.1-	850224	809	0.7-	0.3+
461006	062	1.1-	0.6+	850217	809	0.1+	0.4+	850224	809	0.7-	0.2+
640904	760	(0.04+	0.02+)X	850217	809	0.1+	0.4+	850224	809	0.2-	0.1+
640907	095	1.1+	1.8+	850217	809	0.4+	0.5+	850226	809	0.5+	0.5-
670406	095	0.6+	2.8+	850218	809	0.5+	0.2+	850226	809	0.6+	0.5-
670427	095	0.5+	2.6-	850218	809	0.6+	0.2+	850226	809	0.8+	0.6-
740315	095	1.9+	3.8-	850218	809	0.7+	0.2+	850227	809	0.3-	0.3-
780411	095	0.4+	0.4-	850219	809	0.1+	0.4+	850227	809	0.2-	0.3-
791017	095	3.7-	1.0+	850219	809	0.3+	0.4+	850315	046	1.6+	0.1+
791122	095	0.9-	3.6+	850219	809	0.7+	0.4+	850315	046	2.7+	1.8-
831129	688	2.6-	0.5+	850220	809	1.0-	0.5+	850320	046	(8.4-	5.0-)
831129	688	0.6+	0.7-	850220	809	0.9-	0.6+	850320	046	(5.1-	2.4-)
831201	688	2.0+	0.9-	850220	809	0.9-	0.5+	850325	046	3.7-	0.2+
831201	688	5.0+	3.2-	850222	809	0.8-	0.5+	850325	046	2.5-	2.4+
850215	809	0.4+	0.4+	850222	809	0.5-	0.4+	850326	046	(3.4+	3.7-)
850215	809	0.4+	0.6+	850222	809	0.4-	0.6+	850326	046	(3.9+	3.8-)
850215	809	0.3+	0.8+	850223	809	0.7-	0.5+				

(3327)* 1985 PW = A923 RL = 1932 EW = 1962 OD = 1963 UK = 1972 GW1
= 1974 SJ4 = 1977 DP = 1978 GL4 = 1979 OZ14 = 1980 TN12
= 1983 HM1 = 1984 KP

Discovered 1985 Aug. 14 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5

		(1950.0)	P	Q
M	33.97143			
n	0.17480578	Peri. 245.60201	+0.70551256	+0.70823805
a	3.1678567	Node 69.29458	-0.63990297	+0.65208648
e	0.1080366	Incl. 1.56289	-0.30459188	+0.27052186
P	5.64	B(1,0) 13.0		

230913	024	0.8+	1.1+	770219	381	0.4+	0.4-	840524	071	0.4+	0.6-
230914	024	0.3+	0.1+	770219	381	0.2+	0.1+	840524	071	2.0+	0.3+
320314	024	4.6-	1.6-	780411	095	0.4-	0.1+	840524	071	0.4+	0.9+
320315	024	1.5+	0.1-	790721	095	2.0-	0.1+	840524	071	0.8-	0.4-
620726	822	1.0+	1.0-	801010	095	0.8+	1.4-	840524	071	0.2+	0.1+
620726	822	0.0	0.4-	801017	095	1.9+	1.4-	840525	071	0.6+	0.6-
631018	760	0.3+	1.5+	830416	033	1.1-	1.7+	840525	071	0.2+	0.8+
631018	760	3.6-	2.5+	830416	033	0.6-	1.5+	840525	071	1.5+	1.2+
631022	760	0.8+	1.8-	840522	071	0.3+	0.3-	840525	071	0.8-	0.7+
631022	760	1.0-	1.0+	840522	071	1.3-	0.5-	850814	688	1.1-	0.2-
720409	805	1.7-	0.5-	840522	071	0.2-	0.3-	850814	688	0.8-	0.5-
720409	805	0.6+	2.0-	840522	071	4.5-	1.3+	850820	688	1.3+	1.5-
720410	805	0.6-	0.1-	840522	071	1.8+	1.4-	850820	688	0.7+	1.5-
720410	805	0.9+	1.5-	840522	071	0.1+	0.8-	850914	688	0.2-	0.6-
740923	095	(10.7+	3.6-)	840524	071	2.8+	0.9+	850914	688	0.8+	0.0
770218	381	0.8+	0.1+	840524	071	0.7+	0.5+				
770218	381	1.1+	0.7-	840524	071	0.2+	0.5+				

(3328)* 1985 QD1 = 1933 UP = 1956 CC = 1968 KA = 1974 TC = 1980 TF11 = 1980 VC1

Discovered 1985 Aug. 21 by T. Schildknecht at Zimmerwald. The double designation 1980 TF11 = 1980 VC1 is by B. G. Marsden.

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5

M 36.59829		(1950.0)	P	Q
n 0.18826876	Peri.	271.29698	+0.86314840	+0.47450453
a 3.0149762	Node	60.40144	-0.34694463	+0.80577757
e 0.1099015	Incl.	11.45519	-0.36688453	+0.35435569
P 5.24	B(1,0)	12.5		

Residuals in seconds of arc

331015	801(36.2-	46.8-)X	801008	095	0.6+	0.1+	850913	026	1.5-	0.8+
560204	024	0.7+	0.7+	801110	511	0.5-	1.7-	850917	026	0.7+	1.5+
680521	095	0.0	1.0-	801110	511	0.8-	1.0-	850918	026	0.4+	1.1+
680522	095	0.5-	0.9+	801110	511	0.5+	0.0	850922	026	0.8+	0.5+
741007	805	0.1-	1.0-	850821	026	0.8-	1.6-	850925	026	0.1-	0.2+
741008	805	0.3+	1.0+	850822	026	0.3-	1.3-	851014	026	0.7+	1.1+

(3329)* 1985 RT1 = 1928 RO = 1959 TB = 1962 GA = 1980 TF9 = 1980 VD2

Discovered 1985 Sept. 12 by P. Wild at Zimmerwald.

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5

M 302.60699		(1950.0)	P	Q
n 0.18998884	Peri.	70.31966	+0.14329372	-0.98901047
a 2.9967510	Node	11.62259	+0.82675678	+0.09940475
e 0.0817345	Incl.	10.41014	+0.54400379	+0.10943938
P 5.19	B(1,0)	13.0		

Residuals in seconds of arc (or two decimals in units of degrees)

280913	024(39.5-	34.6+)X	801013	095	0.5+	0.1-	850922	026	1.5+	0.3-
280915	024(0.06-	0.02-)X	801110	330	0.6+	1.5-	850925	026	1.4-	0.2+
591001	024	0.0	0.0	850912	026	0.2-	0.1-	851012	026	1.2+	0.8+
620404	760	1.1+	2.3-	850916	026	1.0+	1.0-	851016	026	0.4-	0.1-
620404	760	3.3-	1.0-	850919	026	0.5-	1.2-				

(3330)* 1985 RU1 = A918 UA = 1978 EF3 = 1978 GK1 = 1980 TU11 = 1980 XW1 = 1982 BZ

Discovered 1985 Sept. 12 by T. Schildknecht at Zimmerwald.

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5

M 43.81509		(1950.0)	P	Q
n 0.17767584	Peri.	305.65202	+0.70780609	+0.70577880
a 3.1336498	Node	9.58194	-0.57637236	+0.60137394
e 0.2185128	Incl.	10.30578	-0.40841822	+0.37446717
P 5.55	B(1,0)	12.0		

Residuals in seconds of arc (or two decimals in units of degrees)

181029	024(0.03-	0.01+)X	820118	688	0.7-	0.5-	850922	026	0.3+	0.1+
780306	095	1.9+	1.2-	820118	688	0.2+	1.1-	850925	026	2.1+	0.1+
780407	095	1.3-	1.7+	850912	026	0.1-	0.3-	851012	026	0.2-	0.3+
801009	095	3.6-	0.3+	850916	026	0.6-	0.1-	851016	026	0.1-	0.1+
801210	095	2.5+	1.9+	850919	026	0.7-	1.1-				

1937 TB = 1981 XS1 = 1985 RO

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M 359.66291		(1950.0)	P	Q
n 0.22511283	Peri.	355.46676	+0.93690450	-0.34885762
a 2.6763120	Node	24.98740	+0.32237766	+0.83724324
e 0.1945815	Incl.	3.05950	+0.13521315	+0.42109632
P 4.38	B(1,0)	14.0		

Residuals in seconds of arc

371011 024	0.7+	1.0+	371107 024	1.4-	0.3-	850914 688	0.7-	1.5-
371027 024	2.2+	2.2-	811204 511	0.4+	0.1-	850918 688	0.8-	1.4+
371028 024	0.2-	1.4-	811204 511	0.1-	0.7-	850918 688	0.2+	2.1+
371103 024	0.3+	1.1+	850914 688	1.0+	1.4-			

1975 VY5 = 1930 XR = 1981 SF8 = 1981 VE

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	173.18395		(1950.0)	P	Q
n	0.17212271	Peri.	96.53146	-0.65393427	-0.71176127
a	3.2006987	Node	38.59950	+0.42178492	-0.62439414
e	0.1150770	Incl.	24.27138	+0.62806643	-0.32175744
P	5.73	B(1,0)	12.5		

Residuals in seconds of arc

301213 690	1.4-	0.5-	751125 033	0.1+	1.9+	811029 330	0.2+	0.9+
301214 690	0.3-	0.6+	810924 033	1.2-	1.8+	811102 688	0.5-	1.4-
751105 095	1.3+	0.5-	810924 033	1.2-	1.8+	811102 688	2.1+	0.7-
751106 095	1.9-	3.2-	811023 095	2.0+	1.7-	811105 688	0.9+	0.6-
751124 033	0.5+	2.0+	811025 330	(9.1-	0.1-)	811105 688	1.7-	0.1-

1976 SJ4 = 1953 TB = 1985 QW

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	317.72429		(1950.0)	P	Q
n	0.21396813	Peri.	237.55878	+0.19888177	-0.97918890
a	2.7684554	Node	201.08213	+0.93263494	+0.20177909
e	0.3083376	Incl.	6.45462	+0.30106162	+0.02177825
P	4.61	B(1,0)	13.0		

Residuals in seconds of arc

531010 094	(18.0+	29.4-)X	850822 046	0.3-	0.0	850911 046	3.7-	0.2+
531012 094	(49.9+	12.8+)X	850909 046	1.5+	4.8-	850912 046	1.1+	2.2+
760924 095	1.6-	0.5-	850909 046	5.2+	2.0+	850912 046	0.6-	0.9+
760929 095	1.8+	1.3+	850910 046	0.3-	0.6+	850913 046	0.8+	0.0
761026 095	0.2-	0.8-	850910 046	1.9-	0.7+	850913 046	0.0	0.9-
850822 046	1.3-	1.6-	850911 046	0.7-	0.5+			

1977 QE1 = 1969 TD3 = 1985 QO

The identification 1977 QE1 = 1969 TD3 was independently suggested by W. Landgraf.

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	42.85400		(1950.0)	P	Q
n	0.12291958	Peri.	125.67836	+0.66174936	+0.74965005
a	4.0061099	Node	185.78982	-0.71733937	+0.62898571
e	0.1752506	Incl.	6.03766	-0.21797250	+0.20591690
P	8.02	B(1,0)	12.0		

Residuals in seconds of arc

691009 095	0.6+	1.9-	850910 046	3.8+	2.0-	850915 054	2.2-	0.1+
770819 095	0.9+	1.2+	850910 046	1.8+	1.9-	850917 054	2.2-	0.5+
770820 095	2.0+	0.4-	850911 046	4.4+	2.0-	850918 688	1.2-	1.0+
770822 095	0.7-	1.7+	850911 046	2.6+	1.7-	850918 688	1.7-	0.1+
770824 095	0.2-	1.7+	850911 054	2.0-	0.3+	850923 054	0.8-	0.6-
770912 095	4.3-	0.5+	850912 046	3.0+	1.5-	851010 054	1.3-	1.9+
770919 095	0.3+	1.4+	850912 046	1.9+	1.6-	851012 054	2.0-	1.2+
850822 688	1.3-	0.2-	850914 688	1.2-	0.9+			
850822 688	1.8-	0.0	850914 688	1.2-	0.4+			

1981 WV1 = 1973 AM1 = 1976 UL3 = 1976 WZ

The key identification and double designation 1981 WV1 = 1976 UL3 = 1976 WZ are by T. Urata (MPC 6818).

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	12.91299		(1950.0)	P	Q
n	0.20118537	Peri.	353.53056	+0.80182335	+0.59745391
a	2.8845140	Node	329.77264	-0.54721171	+0.72652057
e	0.0685007	Incl.	1.28842	-0.24008051	+0.33943583
P	4.90	B(1,0)	13.5		

Residuals in seconds of arc

730101	095	0.6+	0.8+	761118	381	0.7-	0.1+	811117	046	0.5- 1.8-
730102	095	0.3-	0.6+	761118	381	1.3-	0.1-	811123	046	0.2- 0.6+
761024	381	0.3+	0.7+	811004	095	0.1+	0.1+	811123	046	0.0 1.5-
761024	381	1.5-	0.9-	811023	095	4.1+	1.9+	811128	046	0.9- 0.3-
761026	095	1.7+	4.1+	811117	046	0.1-	1.1-	811128	046	1.4- 0.8-

1985 DW = 1952 BL = 1969 VU

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	145.70654		(1950.0)	P	Q
n	0.21059901	Peri.	298.72406	+0.58362642	-0.80832684
a	2.7979033	Node	115.36426	+0.77166680	+0.52242959
e	0.0935937	Incl.	4.91265	+0.25280535	+0.27143146
P	4.68	B(1,0)	13.0		

Residuals in seconds of arc

520130	760	0.7-	0.4+	850217	809	0.2-	0.5+	850221	809	0.8+ 0.2-
520130	760	1.0+	1.4+	850217	809	0.4-	0.0	850224	809	0.3+ 0.3+
691111	095	1.7-	0.2-	850218	809	0.7-	0.2+	850224	809	0.4+ 0.4+
691113	095	0.8-	0.7+	850218	809	0.5-	0.3+	850224	809	0.5+ 0.5+
691115	095	1.9+	0.1+	850218	809	0.4-	0.4+	850225	809	0.5+ 0.3-
850212	809	0.1+	1.3+	850219	809	0.0	0.3+	850225	809	0.5+ 0.2-
850212	809	0.4+	1.2+	850219	809	0.1+	0.4+	850225	809	0.6+ 0.2-
850212	809	0.5+	1.3+	850219	809	0.3+	0.3+	850226	809	0.9+ 0.2-
850214	809	1.0-	1.0+	850220	809	1.2+	0.4+	850226	809	1.1+ 0.3-
850214	809	1.1-	0.6+	850220	809	0.8+	0.3+	850226	809	1.2+ 0.2-
850214	809	0.9-	0.6+	850220	809	1.0+	0.1+	850227	809	0.1- 0.4+
850216	809	0.5-	1.1+	850220	046	1.0-	0.7+	850227	809	0.0 0.4+
850216	809	0.7-	1.2+	850220	046	1.6-	0.2-	850228	809	0.4+ 0.8+
850216	809	1.0-	1.1+	850221	809	0.0	0.2-	850228	809	0.2- 1.2+
850217	809	0.5-	0.8+	850221	809	0.3+	0.2-			

1985 PB = 1975 RR

The identification is by W. Landgraf.

Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	341.28538		(1950.0)	P	Q
n	0.29568167	Peri.	239.51653	+0.83186086	-0.55370128
a	2.2314508	Node	154.04796	+0.53413375	+0.78030529
e	0.1771741	Incl.	4.94400	+0.15069388	+0.29075512
P	3.33	B(1,0)	15.0		

Residuals in seconds of arc

750903	095	2.1-	2.6+	850814	688	0.9-	0.6+	850822	688	0.5- 0.4-
750906	095	2.7-	2.2+	850814	688	0.7+	1.0+	850822	688	1.2+ 2.9-
750909	808	2.4+	0.2+	850820	688	0.1+	0.3-	850912	688	1.2+ 2.4-
750909	808	1.1+	1.7+	850820	688	0.6+	0.2-	850912	688	0.6- 1.5-

ORBITAL ELEMENTS BY D. W. E. GREEN, SMITHSONIAN ASTROPHYSICAL OBSERVATORY.

1981 EQ40 = 1985 PF1
The identification is by E. Bowell.
Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	39.69438		(1950.0)	P	Q
n	0.31186876	Peri.	148.05897	+0.84576089	+0.53356208
a	2.1535535	Node	179.69444	-0.49563509	+0.78575347
e	0.2142641	Incl.	1.72708	-0.19757118	+0.31289453
P	3.16	B(1,0)	16.5		

Residuals in seconds of arc

810209	413	1.5+	2.4-	810311	413	1.2+	0.4+	850914	688	0.0	1.5-
810213	413	0.3+	0.2+	810316	413	0.5+	2.0-	850918	688	2.9+	0.2-
810302	413	0.2-	1.4-	850815	688	2.4+	1.2+	850918	688	1.0+	0.5-
810311	413	0.4-	1.4-	850815	688	2.7+	1.4+				
810311	413	0.1+	1.2-	850914	688	0.6+	1.6-				

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ORBITAL ELEMENTS BY S. NAKANO, TOKYO.

1929 BD = 1951 GB = 1971 DJ1 = 1978 PN = 1979 SG1
The identifications are by S. Nakano.
Epoch 1985 Dec. 1.0 ET = JDE 2446400.5 (J-P)

M	21.99169		(1950.0)	P	Q
n	0.18962050	Peri.	138.54354	+0.33574896	-0.93002096
a	3.0006365	Node	291.35165	+0.81640046	+0.36645001
e	0.0855152	Incl.	9.23347	+0.46985415	+0.02784610
P	5.20	B(1,0)	12.0		

Residuals in seconds of arc

290129	024	1.0+	2.6+	290216	024	2.0-	1.9+	710223	095	0.4+	4.1-
290204	024	5.0+	1.7+	510412	074	3.5-	1.9+	780808	095	2.3+	3.8+
290207	024	0.1+	0.9+	710218	095	2.9-	3.3-	790928	330	0.9-	3.7-

* * * * *

EPHEMERIDES.

Periodic Comet Boethin (1985n) Elements MPC 10156

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	m2
1985	10 22	19 16.39	-27 51.8	1.488	1.623	78.9	37.0	17.0
1985	11 01	19 35.04	-26 38.1					
1985	11 11	19 56.84	-25 06.9	1.483	1.448	68.3	39.5	16.5
1985	11 21	20 21.57	-23 13.2					
1985	12 01	20 48.95	-20 52.2	1.447	1.293	60.8	41.7	15.9
1985	12 11	21 18.75	-17 59.7					
1985	12 21	21 50.77	-14 32.5	1.390	1.177	56.4	44.1	15.4
1985	12 31	22 24.80	-10 30.3					
1986	01 10	23 00.70	-05 55.5	1.337	1.118	55.1	46.2	15.1
1986	01 20	23 38.34	-00 55.3					
1986	01 30	00 17.56	+04 18.2	1.322	1.131	56.5	46.5	15.1
1986	02 09	00 58.17	+09 29.1					
1986	02 19	01 39.85	+14 20.1	1.379	1.212	58.9	44.3	15.5
1986	03 01	02 22.03	+18 35.5					
1986	03 11	03 04.04	+22 04.7	1.524	1.344	60.3	39.9	16.2
1986	03 21	03 45.16	+24 43.4					
1986	03 31	04 24.66	+26 33.0	1.748	1.508	59.4	34.7	17.0
1986	04 10	05 02.07	+27 38.6					
1986	04 20	05 37.10	+28 07.2	2.032	1.688	55.9	29.5	17.8

1986 04 30	06 09.62	+28 05.9					
1986 05 10	06 39.72	+27 41.3	2.351	1.876	50.4	24.5	18.6
1986 05 20	07 07.54	+26 58.8					
1986 05 30	07 33.28	+26 02.8	2.684	2.066	43.3	19.6	19.3

Comet Hartley-Good (1985l) Elements MPC 10156

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	m1
1985 10 22	19 54.12	-04 32.4	0.582	1.167	91.6	58.5	7.0
1985 11 01	19 05.58	+03 43.7					
1985 11 11	18 31.97	+09 27.1	0.828	0.896	58.2	70.0	6.6
1985 11 21	18 04.70	+13 15.1					
1985 12 01	17 39.11	+15 16.5	1.044	0.714	41.1	65.1	6.1
1985 12 11	17 14.11	+15 22.2					
1985 12 21	16 50.89	+13 36.7	1.127	0.736	40.1	59.4	6.4
1985 12 31	16 30.15	+10 27.2					
1986 01 10	16 10.74	+06 23.1	1.061	0.943	54.8	58.4	7.4
1986 01 20	15 49.94	+01 38.8					
1986 01 30	15 24.30	-03 44.2	0.913	1.221	80.0	52.6	8.2
1986 02 09	14 49.90	-09 43.8					
1986 02 19	14 03.50	-15 53.9	0.798	1.512	115.3	36.2	8.8
1986 03 01	13 06.33	-21 04.0					
1986 03 11	12 07.21	-23 57.7	0.871	1.800	149.8	16.1	9.8
1986 03 21	11 17.35	-24 33.0					
1986 03 31	10 41.57	-23 49.8	1.175	2.080	146.1	15.5	11.0
1986 04 10	10 18.42	-22 41.7					
1986 04 20	10 04.68	-21 36.6	1.619	2.351	125.6	20.3	12.3
1986 04 30	09 57.50	-20 45.2					
1986 05 10	09 54.87	-20 09.9	2.127	2.613	107.4	21.6	13.3
1986 05 20	09 55.42	-19 50.4					
1986 05 30	09 58.21	-19 45.5	2.655	2.867	91.5	20.7	14.2
1986 06 09	10 02.62	-19 53.4					
1986 06 19	10 08.20	-20 13.0	3.176	3.113	77.2	18.6	14.9

1985 TB a,e,i = 2.87, 0.61, 28 Elements MPC 10161

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985 10 22	01 07.91	+11 34.5	0.430	1.421	171.1	6.2	15.6
1985 11 01	00 30.16	+20 10.7					
1985 11 11	23 48.82	+28 57.6	0.387	1.291	134.3	33.3	15.8
1985 11 21	23 10.40	+36 36.5					
1985 12 01	22 39.05	+42 54.0	0.437	1.189	106.9	52.5	16.3
1985 12 11	22 15.42	+48 16.1					
1985 12 21	21 58.35	+53 14.1	0.506	1.130	93.1	60.4	16.7
1985 12 31	21 46.07	+58 10.9					
1986 01 10	21 37.32	+63 22.8	0.556	1.126	89.5	60.9	16.9
1986 01 20	21 31.18	+69 06.5					
1986 01 30	21 26.5	+75 36.2	0.582	1.176	93.7	56.7	17.0

Periodic Comet Giclas (1985g) Elements MPC 10156

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	m2
1985 10 22	03 26.42	+03 51.1	0.901	1.847	153.7	13.8	16.4
1985 11 01	03 22.28	+03 42.1					
1985 11 11	03 16.49	+03 50.8	0.897	1.873	166.2	7.2	16.5
1985 11 21	03 10.54	+04 21.0					
1985 12 01	03 05.91	+05 13.0	0.977	1.915	154.6	12.8	16.8
1985 12 11	03 03.63	+06 23.6					
1985 12 21	03 04.25	+07 48.2	1.137	1.971	136.5	20.1	17.2
1985 12 31	03 07.88	+09 21.9					
1986 01 10	03 14.29	+11 00.1	1.361	2.039	120.0	24.7	17.8
1986 01 20	03 23.20	+12 39.1					

1986 01 30	03 34.22	+14 16.0	1.630	2.116	105.4	26.7	18.3
1986 02 09	03 47.00	+15 48.4					
1986 02 19	04 01.24	+17 14.6	1.930	2.202	92.2	26.7	18.9
1986 03 01	04 16.67	+18 33.2					
1986 03 11	04 33.04	+19 43.1	2.247	2.293	80.0	25.2	19.4
1986 03 21	04 50.15	+20 43.8					
1986 03 31	05 07.83	+21 34.6	2.569	2.390	68.4	22.9	19.8
1986 04 10	05 25.90	+22 15.3					
1986 04 20	05 44.24	+22 45.8	2.885	2.489	57.2	19.8	20.3

Comet Thiele (1985m) Elements MPC 10156

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	m1
1985 10 22	04 57.52	+30 41.6	0.725	1.570	131.1	28.5	8.8
1985 11 01	02 50.77	+40 22.7					
1985 11 11	23 44.72	+36 23.0	0.565	1.434	132.5	30.6	7.8
1985 11 21	22 07.75	+24 49.7					
1985 12 01	21 28.20	+17 31.6	1.031	1.346	83.7	46.7	8.9
1985 12 11	21 09.64	+13 24.1					
1985 12 21	20 59.94	+10 58.2	1.566	1.320	57.1	38.7	9.7
1985 12 31	20 54.52	+09 29.2					
1986 01 10	20 51.41	+08 35.3	1.999	1.361	37.7	26.2	10.3

1981 YR a,e,i = 2.85, 0.03, 3 Elements MPC 10155

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985 10 22	00 52.57	+00 39.0	1.894	2.863	163.7	5.6	16.9
1985 11 01	00 45.80	+00 08.6					
1985 11 11	00 40.77	-00 08.1	2.030	2.868	141.1	12.5	17.2
1985 11 21	00 37.88	-00 09.4					
1985 12 01	00 37.30	+00 04.4	2.247	2.874	120.3	17.2	17.5
1985 12 11	00 38.96	+00 32.3					
1985 12 21	00 42.72	+01 12.8	2.513	2.879	101.7	19.5	17.8

1981 SF2 a,e,i = 2.41, 0.15, 4 Elements MPC 10154

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985 10 22	02 51.74	+09 14.9	1.215	2.187	163.3	7.5	16.0
1985 11 01	02 42.60	+08 34.8					
1985 11 11	02 32.78	+08 00.4	1.181	2.160	168.3	5.3	15.8
1985 11 21	02 23.76	+07 38.1					
1985 12 01	02 16.86	+07 33.0	1.247	2.135	145.8	15.0	16.2
1985 12 11	02 12.91	+07 46.8					
1985 12 21	02 12.30	+08 19.2	1.390	2.114	125.0	22.4	16.6
1985 12 31	02 15.00	+09 08.2					
1986 01 10	02 20.77	+10 10.5	1.580	2.095	107.3	26.6	16.9
1986 01 20	02 29.28	+11 23.1					
1986 01 30	02 40.19	+12 42.8	1.792	2.080	92.3	28.2	17.2

1977 RD4 a,e,i = 2.40, 0.22, 9 Elements MPC 10153

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985 10 22	04 13.69	+07 28.8	1.649	2.516	143.0	13.8	17.0
1985 11 01	04 06.31	+06 36.3					
1985 11 11	03 57.01	+05 50.3	1.598	2.560	162.5	6.7	16.8
1985 11 21	03 46.81	+05 15.9					
1985 12 01	03 36.94	+04 56.9	1.656	2.602	159.5	7.6	16.9
1985 12 11	03 28.46	+04 55.1					
1985 12 21	03 22.18	+05 10.6	1.818	2.642	139.2	14.1	17.3
1985 12 31	03 18.51	+05 41.3					
1986 01 10	03 17.54	+06 24.3	2.060	2.680	119.1	18.7	17.7
1986 01 20	03 19.16	+07 16.8					
1986 01 30	03 23.13	+08 15.8	2.349	2.716	101.1	20.9	18.1

1986 02 09	03 29.16	+09 18.8					
1986 02 19	03 36.99	+10 23.6	2.653	2.749	85.0	21.0	18.4

1977 QW2 a,e,i = 2.39, 0.21, 5 Elements MPC 10153

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985 10 22	05 29.73	+17 17.1	1.915	2.617	125.1	18.1	18.9
1985 11 01	05 26.62	+16 45.9					
1985 11 11	05 20.59	+16 13.9	1.769	2.654	146.9	11.7	18.6
1985 11 21	05 12.09	+15 42.7					
1985 12 01	05 01.96	+15 14.1	1.714	2.689	169.3	3.9	18.3
1985 12 11	04 51.29	+14 50.3					
1985 12 21	04 41.30	+14 33.6	1.773	2.721	160.7	6.8	18.6
1985 12 31	04 33.03	+14 25.6					
1986 01 10	04 27.16	+14 27.1	1.941	2.751	137.9	13.9	19.0
1986 01 20	04 24.04	+14 37.7					
1986 01 30	04 23.70	+14 56.2	2.187	2.779	117.1	18.4	19.3
1986 02 09	04 25.97	+15 21.0					
1986 02 19	04 30.59	+15 50.2	2.476	2.803	98.8	20.4	19.7

(2672) Pisek a,e,i = 2.61, 0.15, 14 Elements EMP 1985

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985 10 22	07 07.14	+11 46.7	2.639	2.995	101.1	19.0	19.4
1985 11 01	07 10.05	+11 30.2					
1985 11 11	07 10.66	+11 19.3	2.384	3.002	119.8	16.6	19.2
1985 11 21	07 08.81	+11 16.3					
1985 12 01	07 04.48	+11 22.7	2.177	3.006	140.8	12.0	18.9
1985 12 11	06 57.87	+11 39.8					
1985 12 21	06 49.44	+12 07.8	2.056	3.009	162.6	5.6	18.6
1985 12 31	06 39.96	+12 45.6					
1986 01 10	06 30.36	+13 31.2	2.049	3.010	165.0	4.8	18.5
1986 01 20	06 21.63	+14 21.8					
1986 01 30	06 14.62	+15 14.9	2.159	3.008	143.5	11.2	18.8
1986 02 09	06 09.86	+16 08.1					
1986 02 19	06 07.66	+16 59.7	2.361	3.005	122.1	16.2	19.1
1986 03 01	06 08.03	+17 48.3					
1986 03 11	06 10.84	+18 33.1	2.617	3.000	102.9	18.8	19.4
1986 03 21	06 15.88	+19 13.1					
1986 03 31	06 22.88	+19 47.8	2.893	2.993	85.9	19.4	19.6

(1472) Muonio a,e,i = 2.23, 0.20, 5 Elements EMP 1985

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985 10 22	07 04.44	+25 44.4	1.550	2.028	103.5	28.5	16.9
1985 11 01	07 12.10	+26 05.2					
1985 11 11	07 16.20	+26 33.4	1.383	2.074	120.9	24.2	16.6
1985 11 21	07 16.30	+27 09.9					
1985 12 01	07 12.21	+27 53.0	1.255	2.120	141.9	16.7	16.3
1985 12 11	07 04.13	+28 38.6					
1985 12 21	06 52.88	+29 19.9	1.200	2.167	165.5	6.5	16.0
1985 12 31	06 40.05	+29 50.5					
1986 01 10	06 27.56	+30 06.6	1.247	2.213	165.4	6.4	16.1
1986 01 20	06 17.21	+30 08.6					
1986 01 30	06 10.24	+30 00.3	1.396	2.259	142.4	15.4	16.6
1986 02 09	06 07.11	+29 45.7					
1986 02 19	06 07.79	+29 28.1	1.622	2.303	122.0	21.4	17.2
1986 03 01	06 11.90	+29 09.1					
1986 03 11	06 18.90	+28 49.0	1.892	2.346	104.5	24.2	17.6
1986 03 21	06 28.34	+28 27.2					
1986 03 31	06 39.71	+28 03.0	2.180	2.387	89.3	24.7	18.0

(813) Baumeia a,e,i = 2.22, 0.03, 6 Elements EMP 1985

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	10 22	07 01.88	+26 15.6	1.738	2.204	104.1	26.0	16.8
1985	11 01	07 09.27	+26 43.3					
1985	11 11	07 13.54	+27 18.9	1.523	2.209	121.6	22.4	16.5
1985	11 21	07 14.22	+28 03.2					
1985	12 01	07 11.01	+28 55.1	1.352	2.215	142.2	15.8	16.0
1985	12 11	07 03.93	+29 50.6					
1985	12 21	06 53.56	+30 43.2	1.256	2.221	164.8	6.7	15.7
1985	12 31	06 41.23	+31 25.4					
1986	01 10	06 28.72	+31 52.0	1.263	2.227	164.6	6.7	15.7
1986	01 20	06 17.94	+32 02.0					
1986	01 30	06 10.34	+31 58.4	1.372	2.232	142.1	15.7	16.1
1986	02 09	06 06.61	+31 45.6					
1986	02 19	06 06.90	+31 27.8	1.556	2.238	121.6	22.1	16.5
1986	03 01	06 10.92	+31 07.1					
1986	03 11	06 18.17	+30 44.4	1.783	2.243	104.2	25.4	16.9
1986	03 21	06 28.16	+30 19.4					
1986	03 31	06 40.38	+29 51.1	2.026	2.249	89.3	26.4	17.2

(258) Tyche a,e,i = 2.62, 0.20, 14 Elements EMP 1985

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	10 22	07 05.70	+08 23.7	2.048	2.441	100.9	23.6	13.5
1985	11 01	07 10.20	+06 57.0					
1985	11 11	07 11.94	+05 32.0	1.861	2.484	118.0	20.6	13.3
1985	11 21	07 10.74	+04 12.8					
1985	12 01	07 06.65	+03 03.6	1.718	2.528	136.8	15.5	13.0
1985	12 11	06 59.95	+02 09.2					
1985	12 21	06 51.28	+01 33.9	1.651	2.572	154.1	9.6	12.9
1985	12 31	06 41.63	+01 20.4					
1986	01 10	06 32.11	+01 28.8	1.686	2.615	156.1	8.8	12.9
1986	01 20	06 23.83	+01 56.9					
1986	01 30	06 17.64	+02 40.0	1.824	2.658	140.4	13.7	13.2
1986	02 09	06 14.01	+03 32.9					
1986	02 19	06 13.10	+04 30.8	2.044	2.700	121.9	18.1	13.6
1986	03 01	06 14.83	+05 29.3					
1986	03 11	06 18.96	+06 25.2	2.316	2.740	104.6	20.5	14.0
1986	03 21	06 25.22	+07 16.2					
1986	03 31	06 33.28	+08 00.5	2.610	2.780	89.1	21.1	14.3

(2349) Kurchenko a,e,i = 2.77, 0.12, 17 Elements EMP 1985

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	10 22	07 06.59	+07 29.0	2.397	2.759	100.6	20.8	17.1
1985	11 01	07 10.33	+07 03.9					
1985	11 11	07 11.66	+06 45.5	2.172	2.783	118.4	18.2	16.8
1985	11 21	07 10.40	+06 36.8					
1985	12 01	07 06.56	+06 40.6	1.991	2.807	138.4	13.5	16.5
1985	12 11	07 00.35	+06 59.2					
1985	12 21	06 52.26	+07 33.6	1.890	2.830	158.8	7.2	16.3
1985	12 31	06 43.10	+08 23.1					
1986	01 10	06 33.86	+09 25.1	1.898	2.853	162.8	5.8	16.3
1986	01 20	06 25.56	+10 35.7					
1986	01 30	06 19.04	+11 50.6	2.021	2.875	143.8	11.7	16.6
1986	02 09	06 14.84	+13 05.9					
1986	02 19	06 13.23	+14 18.6	2.235	2.897	123.2	16.6	16.9
1986	03 01	06 14.20	+15 26.6					
1986	03 11	06 17.59	+16 28.5	2.505	2.918	104.5	19.2	17.3
1986	03 21	06 23.18	+17 23.3					
1986	03 31	06 30.66	+18 10.5	2.800	2.937	87.8	19.9	17.5

(1907) Rudneva a,e,i = 2.55, 0.05, 3 Elements EMP 1985

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	10 22	07 04.53	+19 03.6	2.210	2.616	102.8	21.8	17.6
1985	11 01	07 09.56	+18 46.2					
1985	11 11	07 12.01	+18 32.8	1.958	2.609	120.9	19.0	17.3
1985	11 21	07 11.60	+18 25.1					
1985	12 01	07 08.22	+18 24.1	1.752	2.600	141.9	13.5	16.9
1985	12 11	07 02.01	+18 30.0					
1985	12 21	06 53.44	+18 42.0	1.628	2.592	165.3	5.5	16.5
1985	12 31	06 43.44	+18 58.5					
1986	01 10	06 33.21	+19 17.5	1.612	2.583	168.2	4.5	16.4
1986	01 20	06 24.02	+19 37.6					
1986	01 30	06 16.97	+19 57.6	1.707	2.573	144.6	12.8	16.8
1986	02 09	06 12.70	+20 17.2					
1986	02 19	06 11.53	+20 35.8	1.886	2.564	123.1	18.8	17.2
1986	03 01	06 13.40	+20 52.9					
1986	03 11	06 18.08	+21 07.8	2.116	2.554	104.6	22.1	17.5
1986	03 21	06 25.27	+21 19.3					
1986	03 31	06 34.61	+21 26.5	2.365	2.544	88.6	23.1	17.7

1929 BD a,e,i = 3.00, 0.09, 9 Elements MPC 10167

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	10 22	07 21.49	+26 30.8	2.404	2.754	99.8	20.9	16.6
1985	11 01	07 27.19	+26 10.3					
1985	11 11	07 30.35	+25 52.3	2.156	2.759	117.7	18.5	16.3
1985	11 21	07 30.70	+25 37.1					
1985	12 01	07 28.14	+25 24.3	1.951	2.766	138.3	13.7	16.0
1985	12 11	07 22.76	+25 12.8					
1985	12 21	07 14.97	+25 00.8	1.824	2.774	161.4	6.5	15.7
1985	12 31	07 05.59	+24 46.1					
1986	01 10	06 55.70	+24 27.5	1.804	2.783	173.5	2.3	15.4
1986	01 20	06 46.49	+24 05.0					
1986	01 30	06 39.01	+23 39.7	1.899	2.794	149.6	10.3	15.9
1986	02 09	06 33.96	+23 13.2					
1986	02 19	06 31.69	+22 46.9	2.089	2.805	127.8	16.2	16.2
1986	03 01	06 32.23	+22 21.5					
1986	03 11	06 35.38	+21 56.9	2.339	2.817	108.6	19.5	16.5
1986	03 21	06 40.88	+21 32.5					
1986	03 31	06 48.38	+21 07.3	2.617	2.830	91.8	20.7	16.8

1936 QV a,e,i = 2.28, 0.11, 3 Elements MPC 10153

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	11 11	08 29.95	+15 12.7	1.873	2.293	102.0	25.0	18.6
1985	11 21	08 35.55	+14 37.2					
1985	12 01	08 38.26	+14 11.7	1.663	2.318	119.9	21.6	18.3
1985	12 11	08 37.82	+13 58.6					
1985	12 21	08 34.09	+13 59.6	1.494	2.342	141.0	15.3	18.0
1985	12 31	08 27.27	+14 14.8					
1986	01 10	08 17.96	+14 42.4	1.402	2.365	164.8	6.2	17.6
1986	01 20	08 07.23	+15 18.7					
1986	01 30	07 56.52	+15 58.7	1.416	2.388	167.8	5.0	17.6
1986	02 09	07 47.19	+16 37.8					
1986	02 19	07 40.34	+17 12.6	1.537	2.409	144.2	13.9	18.1
1986	03 01	07 36.59	+17 40.9					
1986	03 11	07 36.05	+18 01.7	1.739	2.429	123.1	20.0	18.5
1986	03 21	07 38.59	+18 14.7					
1986	03 31	07 43.87	+18 19.4	1.989	2.447	105.1	23.2	18.9
1986	04 10	07 51.47	+18 15.9					
1986	04 20	08 01.03	+18 03.9	2.258	2.464	89.5	24.1	19.2

1981 XC2 a,e,i = 2.32, 0.05, 8 Elements MPC 10155

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	11 11	09 14.01	+08 18.2	1.988	2.216	89.7	26.5	17.9
1985	11 21	09 24.31	+07 15.6					
1985	12 01	09 32.54	+06 21.3	1.751	2.217	104.7	25.5	17.6
1985	12 11	09 38.40	+05 38.9					
1985	12 21	09 41.52	+05 12.4	1.532	2.219	122.3	22.0	17.3
1985	12 31	09 41.66	+05 05.4					
1986	01 10	09 38.69	+05 21.1	1.357	2.223	143.0	15.4	16.9
1986	01 20	09 32.82	+06 00.8					
1986	01 30	09 24.69	+07 02.5	1.259	2.227	165.7	6.3	16.5
1986	02 09	09 15.38	+08 20.6					
1986	02 19	09 06.29	+09 46.6	1.263	2.233	165.1	6.6	16.5
1986	03 01	08 58.78	+11 10.7					
1986	03 11	08 53.86	+12 25.5	1.368	2.239	142.5	15.7	16.9
1986	03 21	08 52.06	+13 26.1					
1986	03 31	08 53.47	+14 10.0	1.548	2.246	122.3	22.1	17.3
1986	04 10	08 57.87	+14 37.1					
1986	04 20	09 04.91	+14 47.7	1.772	2.254	105.2	25.5	17.7

1984 SQ5 a,e,i = 2.31, 0.05, 6 Elements MPC 9682

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	09 47.79	+14 28.5	1.947	2.385	104.0	23.6	18.5
1985	12 11	09 53.85	+14 24.7					
1985	12 21	09 57.34	+14 37.3	1.702	2.376	122.2	20.5	18.1
1985	12 31	09 57.97	+15 08.1					
1986	01 10	09 55.53	+15 57.6	1.503	2.366	143.3	14.4	17.7
1986	01 20	09 50.04	+17 03.4					
1986	01 30	09 41.99	+18 19.8	1.385	2.355	166.9	5.4	17.3
1986	02 09	09 32.26	+19 38.6					
1986	02 19	09 22.18	+20 50.4	1.373	2.344	165.9	5.9	17.2
1986	03 01	09 13.21	+21 47.5					
1986	03 11	09 06.50	+22 26.0	1.465	2.333	142.5	15.0	17.6
1986	03 21	09 02.81	+22 45.2					
1986	03 31	09 02.39	+22 46.3	1.634	2.322	121.8	21.5	18.0
1986	04 10	09 05.11	+22 31.4					
1986	04 20	09 10.67	+22 02.6	1.847	2.310	104.3	24.9	18.3
1986	04 30	09 18.65	+21 21.5					
1986	05 10	09 28.64	+20 29.4	2.075	2.298	89.4	26.1	18.6

1978 NN1 a,e,i = 2.85, 0.28, 8 Elements MPC 8148

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	09 57.93	+10 45.6	3.351	3.659	100.4	15.4	20.8
1985	12 11	09 59.81	+10 42.7					
1985	12 21	09 59.85	+10 50.6	3.063	3.659	120.3	13.4	20.6
1985	12 31	09 57.99	+11 10.0					
1986	01 10	09 54.22	+11 40.8	2.829	3.656	142.3	9.5	20.3
1986	01 20	09 48.70	+12 21.8					
1986	01 30	09 41.80	+13 10.3	2.688	3.651	166.0	3.8	20.0
1986	02 09	09 34.02	+14 03.1					
1986	02 19	09 26.05	+14 56.0	2.667	3.643	169.6	2.8	19.9
1986	03 01	09 18.60	+15 45.0					
1986	03 11	09 12.28	+16 27.2	2.767	3.633	145.9	8.8	20.2
1986	03 21	09 07.58	+17 00.6					
1986	03 31	09 04.78	+17 24.4	2.965	3.620	124.0	13.2	20.5
1986	04 10	09 03.95	+17 38.4					
1986	04 20	09 05.07	+17 43.1	3.222	3.605	104.4	15.7	20.7
1986	04 30	09 08.00	+17 39.0					
1986	05 10	09 12.55	+17 26.9	3.500	3.587	86.7	16.3	20.9

1981 GB a,e,i = 3.03, 0.29, 4 Elements MPC 9677

Date	ET	R. A. (1950)	Decl.	Delta	r	Variation		Mag.
1985	12 01	09 45.95	+09 16.9	2.304	2.697	-1.19	+4.7	18.4
1985	12 11	09 51.45	+08 38.0					
1985	12 21	09 54.85	+08 09.9	1.999	2.638	-1.38	+5.6	18.0
1985	12 31	09 55.91	+07 55.0					
1986	01 10	09 54.45	+07 55.3	1.742	2.579	-1.62	+6.6	17.6
1986	01 20	09 50.45	+08 12.1					
1986	01 30	09 44.22	+08 44.7	1.563	2.523	-1.84	+7.4	17.1
1986	02 09	09 36.39	+09 30.2					
1986	02 19	09 27.96	+10 23.7	1.487	2.468	-1.94	+7.4	16.8
1986	03 01	09 20.09	+11 18.7					
1986	03 11	09 13.87	+12 09.1	1.519	2.415	-1.87	+6.6	17.1
1986	03 21	09 10.13	+12 50.1					
1986	03 31	09 09.32	+13 18.6	1.634	2.366	-1.69	+5.6	17.4
1986	04 10	09 11.48	+13 33.4					
1986	04 20	09 16.51	+13 33.9	1.801	2.320	-1.51	+5.0	17.7
1986	04 30	09 24.09	+13 20.4					
1986	05 10	09 33.88	+12 53.3	1.990	2.279	-1.37	+4.7	17.9

1982 CD a,e,i = 2.55, 0.07, 7 Elements MPC 9355

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	09 57.52	+09 02.8	2.176	2.539	99.9	22.5	18.2
1985	12 11	10 03.04	+08 40.8					
1985	12 21	10 06.19	+08 33.5	1.940	2.554	118.0	19.9	17.9
1985	12 31	10 06.75	+08 43.2					
1986	01 10	10 04.60	+09 11.0	1.745	2.569	138.9	14.6	17.6
1986	01 20	09 59.80	+09 56.8					
1986	01 30	09 52.79	+10 57.5	1.628	2.585	162.6	6.5	17.3
1986	02 09	09 44.29	+12 08.0					
1986	02 19	09 35.35	+13 21.1	1.617	2.599	172.2	3.0	17.1
1986	03 01	09 27.13	+14 29.3					
1986	03 11	09 20.60	+15 27.1	1.717	2.614	148.1	11.6	17.5
1986	03 21	09 16.45	+16 11.0					
1986	03 31	09 14.99	+16 39.7	1.907	2.627	126.6	17.8	17.9
1986	04 10	09 16.19	+16 53.6					
1986	04 20	09 19.90	+16 53.6	2.151	2.641	108.0	21.2	18.3
1986	04 30	09 25.79	+16 40.8					
1986	05 10	09 33.54	+16 16.4	2.421	2.653	91.9	22.4	18.6

(3194) 1982 KD1 a,e,i = 3.01, 0.10, 11 Elements MPC 9423

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 07.94	+23 22.7	2.943	3.297	102.3	17.0	18.3
1985	12 11	10 11.68	+23 47.7					
1985	12 21	10 13.34	+24 25.0	2.682	3.301	121.3	14.8	18.1
1985	12 31	10 12.75	+25 13.7					
1986	01 10	10 09.82	+26 11.5	2.475	3.303	141.7	10.6	17.8
1986	01 20	10 04.66	+27 14.1					
1986	01 30	09 57.62	+28 16.1	2.359	3.305	160.8	5.6	17.6
1986	02 09	09 49.30	+29 11.3					
1986	02 19	09 40.53	+29 53.9	2.356	3.305	160.8	5.7	17.6
1986	03 01	09 32.24	+30 20.5					
1986	03 11	09 25.22	+30 29.8	2.466	3.305	141.9	10.7	17.8
1986	03 21	09 20.11	+30 22.5					
1986	03 31	09 17.24	+30 00.9	2.664	3.303	122.0	14.9	18.1
1986	04 10	09 16.68	+29 27.4					
1986	04 20	09 18.36	+28 44.3	2.916	3.301	103.7	17.2	18.3
1986	04 30	09 22.05	+27 53.6					
1986	05 10	09 27.50	+26 56.5	3.189	3.297	87.2	17.8	18.5

(3213) 1977 NQ a,e,i = 3.21, 0.14, 1 Elements MPC 9467

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 08.44	+12 34.5	3.267	3.551	98.6	15.9	18.7
1985	12 11	10 11.18	+12 22.2					
1985	12 21	10 12.08	+12 20.0	2.998	3.567	118.0	14.1	18.5
1985	12 31	10 11.04	+12 28.4					
1986	01 10	10 08.06	+12 47.3	2.777	3.582	139.5	10.3	18.2
1986	01 20	10 03.26	+13 15.3					
1986	01 30	09 56.97	+13 50.1	2.643	3.596	162.7	4.7	17.9
1986	02 09	09 49.68	+14 28.5					
1986	02 19	09 42.05	+15 06.7	2.625	3.608	173.1	1.9	17.8
1986	03 01	09 34.78	+15 41.1					
1986	03 11	09 28.50	+16 08.9	2.728	3.620	149.7	8.0	18.1
1986	03 21	09 23.73	+16 28.3					
1986	03 31	09 20.77	+16 38.7	2.930	3.630	127.9	12.5	18.4
1986	04 10	09 19.72	+16 40.0					
1986	04 20	09 20.58	+16 32.6	3.197	3.639	108.3	15.2	18.7
1986	04 30	09 23.20	+16 17.0					
1986	05 10	09 27.41	+15 54.0	3.494	3.647	90.6	16.1	18.9

(3144) 1931 TY1 a,e,i = 2.23, 0.21, 6 Elements MPC 9287

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 11.76	+05 18.6	2.298	2.582	95.2	22.4	18.9
1985	12 11	10 16.35	+04 23.5					
1985	12 21	10 18.57	+03 39.8	2.057	2.607	113.3	20.3	18.6
1985	12 31	10 18.21	+03 09.9					
1986	01 10	10 15.10	+02 56.2	1.850	2.629	133.9	15.6	18.3
1986	01 20	10 09.30	+03 00.3					
1986	01 30	10 01.17	+03 22.1	1.714	2.648	156.7	8.5	18.0
1986	02 09	09 51.41	+03 59.7					
1986	02 19	09 41.06	+04 48.8	1.683	2.663	170.7	3.4	17.8
1986	03 01	09 31.27	+05 43.4					
1986	03 11	09 23.07	+06 37.4	1.767	2.676	150.3	10.6	18.1
1986	03 21	09 17.20	+07 25.6					
1986	03 31	09 14.03	+08 04.4	1.946	2.684	128.5	16.9	18.5
1986	04 10	09 13.59	+08 31.9					
1986	04 20	09 15.73	+08 47.4	2.184	2.690	109.4	20.6	18.8
1986	04 30	09 20.17	+08 50.8					
1986	05 10	09 26.58	+08 42.8	2.449	2.692	92.6	22.0	19.1

1928 SL a,e,i = 3.97, 0.25, 1 Elements MPC 9687

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 11.85	+09 46.6	3.748	3.988	96.8	14.2	17.7
1985	12 11	10 14.06	+09 29.9					
1985	12 21	10 14.64	+09 22.2	3.496	4.030	116.4	12.6	17.5
1985	12 31	10 13.54	+09 24.1					
1986	01 10	10 10.80	+09 35.4	3.290	4.072	137.7	9.4	17.3
1986	01 20	10 06.55	+09 55.4					
1986	01 30	10 01.09	+10 22.6	3.171	4.113	160.5	4.6	17.1
1986	02 09	09 54.82	+10 54.4					
1986	02 19	09 48.27	+11 28.2	3.168	4.154	175.5	1.1	16.9
1986	03 01	09 41.99	+12 00.9					
1986	03 11	09 36.47	+12 30.0	3.287	4.194	152.6	6.2	17.3
1986	03 21	09 32.13	+12 53.7					
1986	03 31	09 29.23	+13 10.5	3.511	4.233	130.9	10.3	17.6
1986	04 10	09 27.89	+13 20.0					
1986	04 20	09 28.14	+13 22.0	3.808	4.271	111.0	12.7	17.8
1986	04 30	09 29.88	+13 16.8					
1986	05 10	09 33.00	+13 04.6	4.140	4.309	92.8	13.5	18.1

1978 RX a,e,i = 3.20, 0.19, 2 Elements MPC 9296

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 08.79	+10 44.9	2.578	2.884	97.9	19.8	17.8
1985	12 11	10 13.54	+10 21.7					
1985	12 21	10 16.15	+10 10.7	2.347	2.919	116.3	17.6	17.6
1985	12 31	10 16.47	+10 13.2					
1986	01 10	10 14.44	+10 29.6	2.157	2.955	137.2	13.1	17.3
1986	01 20	10 10.17	+10 59.0					
1986	01 30	10 04.02	+11 38.9	2.046	2.992	160.4	6.4	17.1
1986	02 09	09 56.59	+12 25.4					
1986	02 19	09 48.68	+13 13.5	2.043	3.029	175.3	1.5	16.8
1986	03 01	09 41.20	+13 58.1					
1986	03 11	09 34.92	+14 35.3	2.155	3.066	151.7	8.8	17.3
1986	03 21	09 30.44	+15 02.4					
1986	03 31	09 28.09	+15 18.4	2.366	3.104	130.0	14.3	17.7
1986	04 10	09 27.93	+15 23.2					
1986	04 20	09 29.90	+15 17.3	2.641	3.141	110.8	17.4	18.0
1986	04 30	09 33.79	+15 01.4					
1986	05 10	09 39.35	+14 36.6	2.948	3.178	93.7	18.5	18.3

1981 EX4 a,e,i = 3.10, 0.13, 20 Elements MPC 8143

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 12.35	-09 29.2	3.376	3.511	89.6	16.3	19.7
1985	12 11	10 15.65	-10 31.5					
1985	12 21	10 17.25	-11 25.3	3.099	3.511	106.8	15.6	19.5
1985	12 31	10 17.04	-12 07.9					
1986	01 10	10 14.96	-12 36.3	2.850	3.510	125.2	13.2	19.3
1986	01 20	10 11.08	-12 47.7					
1986	01 30	10 05.66	-12 39.7	2.665	3.508	143.8	9.6	19.1
1986	02 09	09 59.09	-12 11.3					
1986	02 19	09 51.96	-11 23.1	2.575	3.505	156.7	6.4	18.9
1986	03 01	09 44.95	-10 18.4					
1986	03 11	09 38.72	-09 01.7	2.597	3.500	151.1	7.9	19.0
1986	03 21	09 33.83	-07 38.8					
1986	03 31	09 30.65	-06 15.7	2.725	3.494	134.1	11.9	19.2
1986	04 10	09 29.36	-04 57.2					
1986	04 20	09 30.01	-03 47.0	2.932	3.487	115.7	15.1	19.4
1986	04 30	09 32.51	-02 47.5					
1986	05 10	09 36.70	-02 00.0	3.186	3.478	98.3	16.7	19.6

1981 UN a,e,i = 2.23, 0.09, 2 Elements MPC 9950

Date	ET	R. A. (1950)	Decl.	Delta	r	Variation		Mag.
1985	12 01	10 13.23	+08 59.1	1.982	2.307	-1.22	+6.0	18.4
1985	12 11	10 20.15	+08 08.4					
1985	12 21	10 24.61	+07 30.5	1.753	2.326	-1.37	+6.9	18.1
1985	12 31	10 26.30	+07 08.0					
1986	01 10	10 24.96	+07 03.0	1.556	2.344	-1.59	+8.0	17.7
1986	01 20	10 20.54	+07 16.8					
1986	01 30	10 13.31	+07 48.3	1.424	2.361	-1.83	+9.0	17.3
1986	02 09	10 03.95	+08 34.0					
1986	02 19	09 53.60	+09 27.8	1.389	2.377	-1.96	+9.1	16.9
1986	03 01	09 43.60	+10 22.3					
1986	03 11	09 35.22	+11 10.8	1.464	2.391	-1.88	+8.3	17.5
1986	03 21	09 29.37	+11 48.4					
1986	03 31	09 26.51	+12 12.5	1.631	2.403	-1.65	+7.0	17.9
1986	04 10	09 26.67	+12 22.6					
1986	04 20	09 29.66	+12 18.9	1.856	2.414	-1.41	+6.0	18.3
1986	04 30	09 35.12	+12 02.2					
1986	05 10	09 42.69	+11 33.7	2.108	2.423	-1.21	+5.4	18.6

(3234) 1978 QO2 a,e,i = 3.11, 0.18, 1 Elements MPC 9586

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 17.82	+11 32.7	2.873	3.135	96.1	18.2	18.7
1985	12 11	10 21.91	+11 13.5					
1985	12 21	10 24.00	+11 05.8	2.628	3.169	114.8	16.4	18.5
1985	12 31	10 23.97	+11 10.3					
1986	01 10	10 21.74	+11 27.3	2.423	3.203	135.9	12.3	18.2
1986	01 20	10 17.40	+11 55.7					
1986	01 30	10 11.27	+12 33.1	2.298	3.237	159.0	6.3	18.0
1986	02 09	10 03.85	+13 15.9					
1986	02 19	09 55.87	+13 59.6	2.282	3.269	176.5	1.1	17.6
1986	03 01	09 48.13	+14 39.7					
1986	03 11	09 41.39	+15 12.7	2.385	3.300	152.9	7.9	18.2
1986	03 21	09 36.23	+15 36.3					
1986	03 31	09 33.02	+15 49.3	2.590	3.331	131.0	13.1	18.5
1986	04 10	09 31.87	+15 51.9					
1986	04 20	09 32.78	+15 44.5	2.863	3.361	111.3	16.2	18.8
1986	04 30	09 35.57	+15 27.9					
1986	05 10	09 40.03	+15 03.0	3.170	3.389	93.8	17.3	19.1

(3216) 1980 RB a,e,i = 2.40, 0.31, 5 Elements MPC 9468

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 26.06	+12 26.6	2.832	3.071	94.5	18.7	20.1
1985	12 11	10 30.10	+12 20.4					
1985	12 21	10 32.10	+12 27.2	2.563	3.090	113.5	17.0	19.9
1985	12 31	10 31.87	+12 47.9					
1986	01 10	10 29.29	+13 22.7	2.333	3.104	134.7	13.0	19.6
1986	01 20	10 24.35	+14 10.2					
1986	01 30	10 17.32	+15 07.4	2.180	3.116	158.2	6.8	19.3
1986	02 09	10 08.68	+16 09.4					
1986	02 19	09 59.20	+17 10.5	2.138	3.123	174.2	1.8	19.0
1986	03 01	09 49.83	+18 04.9					
1986	03 11	09 41.45	+18 48.3	2.218	3.127	151.4	8.7	19.4
1986	03 21	09 34.80	+19 18.3					
1986	03 31	09 30.34	+19 34.6	2.400	3.127	129.0	14.4	19.7
1986	04 10	09 28.24	+19 37.7					
1986	04 20	09 28.49	+19 29.0	2.647	3.123	109.1	17.7	20.0
1986	04 30	09 30.90	+19 09.9					
1986	05 10	09 35.24	+18 41.6	2.921	3.115	91.5	18.9	20.2

1948 KF a,e,i = 2.31, 0.28, 11 Elements MPC 8209

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 23.33	+21 59.8	2.534	2.852	98.5	20.0	18.8
1985	12 11	10 29.03	+22 21.0					
1985	12 21	10 32.57	+22 57.8	2.241	2.822	116.6	18.2	18.4
1985	12 31	10 33.64	+23 50.8					
1986	01 10	10 31.95	+24 58.8	1.991	2.788	136.6	14.0	18.0
1986	01 20	10 27.33	+26 18.4					
1986	01 30	10 19.90	+27 42.9	1.819	2.751	156.5	8.2	17.7
1986	02 09	10 10.15	+29 03.6					
1986	02 19	09 59.00	+30 10.9	1.755	2.710	161.4	6.7	17.5
1986	03 01	09 47.75	+30 57.0					
1986	03 11	09 37.68	+31 18.4	1.801	2.666	143.4	12.8	17.7
1986	03 21	09 29.88	+31 15.1					
1986	03 31	09 25.01	+30 50.4	1.935	2.618	123.1	18.6	18.0
1986	04 10	09 23.27	+30 08.2					
1986	04 20	09 24.57	+29 12.3	2.120	2.567	104.8	22.2	18.2
1986	04 30	09 28.60	+28 05.7					
1986	05 10	09 35.02	+26 50.2	2.322	2.513	88.8	23.7	18.4

1984 QQ a,e,i = 2.41, 0.13, 8 Elements MPC 9580

Date	ET	R. A. (1950)	Decl.	Delta	r	Variation		Mag.
1985	12 01	10 16.63	+02 28.2	2.246	2.501	-0.94	+3.4	18.3
1985	12 11	10 22.85	+01 32.2					
1985	12 21	10 26.82	+00 48.5	2.012	2.527	-1.04	+3.8	18.0
1985	12 31	10 28.33	+00 20.0					
1986	01 10	10 27.18	+00 09.6	1.807	2.552	-1.18	+4.4	17.7
1986	01 20	10 23.34	+00 19.6					
1986	01 30	10 17.08	+00 50.8	1.664	2.575	-1.34	+5.1	17.4
1986	02 09	10 08.95	+01 41.7					
1986	02 19	09 59.86	+02 48.1	1.616	2.597	-1.45	+5.5	17.1
1986	03 01	09 50.92	+04 03.0					
1986	03 11	09 43.19	+05 18.8	1.682	2.618	-1.43	+5.2	17.4
1986	03 21	09 37.51	+06 28.5					
1986	03 31	09 34.35	+07 27.1	1.847	2.637	-1.30	+4.6	17.8
1986	04 10	09 33.84	+08 12.0					
1986	04 20	09 35.88	+08 42.1	2.079	2.654	-1.14	+3.9	18.2
1986	04 30	09 40.24	+08 57.4					
1986	05 10	09 46.59	+08 58.9	2.347	2.669	-1.00	+3.4	18.5

1981 EX6 a,e,i = 3.21, 0.16, 17 Elements MPC 8676

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 30.05	+17 53.9	3.341	3.575	95.6	15.9	19.8
1985	12 11	10 32.93	+17 35.1					
1985	12 21	10 33.92	+17 25.4	3.069	3.593	114.7	14.4	19.5
1985	12 31	10 32.91	+17 24.8					
1986	01 10	10 29.83	+17 32.5	2.840	3.611	135.8	11.0	19.3
1986	01 20	10 24.74	+17 46.7					
1986	01 30	10 17.94	+18 04.5	2.693	3.627	158.4	5.7	19.1
1986	02 09	10 09.87	+18 22.8					
1986	02 19	10 01.19	+18 37.8	2.659	3.642	172.9	1.9	18.8
1986	03 01	09 52.65	+18 46.6					
1986	03 11	09 44.94	+18 47.2	2.747	3.655	152.2	7.3	19.2
1986	03 21	09 38.66	+18 38.8					
1986	03 31	09 34.19	+18 21.5	2.941	3.668	130.3	12.0	19.4
1986	04 10	09 31.68	+17 56.2					
1986	04 20	09 31.14	+17 23.5	3.206	3.679	110.4	14.8	19.7
1986	04 30	09 32.46	+16 44.5					
1986	05 10	09 35.45	+15 59.8	3.506	3.689	92.4	15.9	19.9

1984 UC2 a,e,i = 2.40, 0.19, 6 Elements MPC 9356

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 24.08	+14 08.5	2.556	2.828	95.6	20.3	18.8
1985	12 11	10 29.39	+14 03.5					
1985	12 21	10 32.56	+14 12.5	2.291	2.837	114.0	18.5	18.5
1985	12 31	10 33.38	+14 36.6					
1986	01 10	10 31.64	+15 16.0	2.064	2.844	134.8	14.2	18.2
1986	01 20	10 27.30	+16 09.3					
1986	01 30	10 20.58	+17 12.5	1.911	2.847	157.7	7.5	17.8
1986	02 09	10 11.98	+18 20.0					
1986	02 19	10 02.34	+19 24.8	1.866	2.848	172.2	2.7	17.6
1986	03 01	09 52.74	+20 19.9					
1986	03 11	09 44.20	+21 00.9	1.938	2.847	150.9	9.8	17.9
1986	03 21	09 37.57	+21 25.5					
1986	03 31	09 33.38	+21 33.6	2.107	2.842	128.9	15.9	18.3
1986	04 10	09 31.80	+21 26.9					
1986	04 20	09 32.78	+21 07.1	2.338	2.835	109.5	19.5	18.6
1986	04 30	09 36.10	+20 36.0					
1986	05 10	09 41.47	+19 55.3	2.596	2.825	92.5	20.9	18.8

1984 SU3 a,e,i = 2.64, 0.31, 6 Elements MPC 9415

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985 12 01	10 29.95	+16 10.5	2.837	3.084	95.0	18.6	20.1
1985 12 11	10 33.93	+16 08.5					
1985 12 21	10 35.82	+16 19.2	2.599	3.130	113.9	16.7	19.9
1985 12 31	10 35.43	+16 42.9					
1986 01 10	10 32.67	+17 18.6	2.400	3.173	135.1	12.6	19.7
1986 01 20	10 27.58	+18 04.3					
1986 01 30	10 20.46	+18 55.7	2.280	3.213	157.8	6.6	19.5
1986 02 09	10 11.85	+19 47.8					
1986 02 19	10 02.51	+20 34.9	2.270	3.250	171.0	2.7	19.3
1986 03 01	09 53.37	+21 12.4					
1986 03 11	09 45.25	+21 37.2	2.382	3.285	150.8	8.5	19.7
1986 03 21	09 38.83	+21 48.4					
1986 03 31	09 34.50	+21 46.4	2.595	3.316	129.0	13.5	20.0
1986 04 10	09 32.41	+21 32.8					
1986 04 20	09 32.52	+21 09.0	2.874	3.344	109.4	16.5	20.3
1986 04 30	09 34.64	+20 36.6					
1986 05 10	09 38.54	+19 57.0	3.183	3.370	91.8	17.4	20.6

1984 SB6 a,e,i = 2.44, 0.18, 3 Elements MPC 9826

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985 12 01	10 24.35	+11 50.3	2.397	2.666	94.7	21.6	19.4
1985 12 11	10 30.02	+11 31.1					
1985 12 21	10 33.46	+11 25.7	2.158	2.697	112.8	19.7	19.2
1985 12 31	10 34.43	+11 35.5					
1986 01 10	10 32.75	+12 01.2	1.953	2.725	133.5	15.2	18.9
1986 01 20	10 28.40	+12 41.8					
1986 01 30	10 21.65	+13 34.4	1.819	2.752	156.8	8.1	18.6
1986 02 09	10 13.04	+14 33.9					
1986 02 19	10 03.47	+15 33.7	1.789	2.776	176.0	1.4	18.2
1986 03 01	09 54.03	+16 27.3					
1986 03 11	09 45.74	+17 09.7	1.876	2.798	153.1	9.3	18.7
1986 03 21	09 39.42	+17 38.1					
1986 03 31	09 35.54	+17 51.7	2.061	2.817	130.8	15.6	19.1
1986 04 10	09 34.24	+17 51.4					
1986 04 20	09 35.44	+17 38.4	2.311	2.834	111.3	19.3	19.4
1986 04 30	09 38.90	+17 14.2					
1986 05 10	09 44.33	+16 40.2	2.591	2.849	94.2	20.7	19.7

1984 UA2 a,e,i = 2.25, 0.19, 4 Elements MPC 9356

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985 12 01	10 28.92	+09 37.7	2.438	2.675	92.9	21.6	19.1
1985 12 11	10 35.09	+09 11.2					
1985 12 21	10 39.20	+08 57.7	2.163	2.673	110.6	20.2	18.8
1985 12 31	10 40.97	+08 59.3					
1986 01 10	10 40.16	+09 17.6	1.918	2.667	130.9	16.2	18.4
1986 01 20	10 36.62	+09 53.1					
1986 01 30	10 30.47	+10 44.3	1.738	2.658	153.9	9.4	18.0
1986 02 09	10 22.12	+11 47.4					
1986 02 19	10 12.36	+12 56.0	1.658	2.647	178.1	0.7	17.4
1986 03 01	10 02.29	+14 02.7					
1986 03 11	09 53.07	+15 00.8	1.695	2.632	155.6	9.0	17.9
1986 03 21	09 45.70	+15 45.3					
1986 03 31	09 40.86	+16 14.0	1.832	2.614	132.6	16.3	18.3
1986 04 10	09 38.80	+16 26.7					
1986 04 20	09 39.55	+16 24.3	2.035	2.593	112.6	21.0	18.6
1986 04 30	09 42.86	+16 08.1					
1986 05 10	09 48.44	+15 39.6	2.268	2.569	95.5	23.0	18.9

1983 RL2 a,e,i = 2.74, 0.14, 5 Elements MPC 8382

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985 12 01	10 30.36	+13 46.0	2.838	3.069	94.0	18.7	19.1
1985 12 11	10 35.46	+13 23.9					
1985 12 21	10 38.64	+13 12.8	2.545	3.056	112.2	17.3	18.9
1985 12 31	10 39.69	+13 13.7					
1986 01 10	10 38.43	+13 27.0	2.288	3.042	132.7	13.8	18.5
1986 01 20	10 34.80	+13 52.1					
1986 01 30	10 28.95	+14 26.7	2.103	3.026	155.3	7.8	18.2
1986 02 09	10 21.28	+15 06.9					
1986 02 19	10 12.47	+15 47.9	2.022	3.008	175.6	1.4	17.7
1986 03 01	10 03.43	+16 24.3					
1986 03 11	09 55.09	+16 51.9	2.058	2.989	155.2	8.0	18.1
1986 03 21	09 48.29	+17 07.9					
1986 03 31	09 43.59	+17 11.3	2.198	2.969	132.8	14.3	18.4
1986 04 10	09 41.27	+17 02.3					
1986 04 20	09 41.37	+16 41.9	2.408	2.948	112.9	18.3	18.7
1986 04 30	09 43.75	+16 11.0					
1986 05 10	09 48.19	+15 30.9	2.651	2.925	95.5	20.1	18.9

1977 QD2 a,e,i = 2.30, 0.19, 6 Elements MPC 9213

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985 12 01	10 34.86	+12 53.7	2.382	2.620	92.7	22.1	20.0
1985 12 11	10 40.79	+12 20.4					
1985 12 21	10 44.47	+11 59.4	2.135	2.645	110.5	20.4	19.7
1985 12 31	10 45.65	+11 52.1					
1986 01 10	10 44.09	+11 59.4	1.918	2.667	130.9	16.2	19.4
1986 01 20	10 39.70	+12 20.7					
1986 01 30	10 32.68	+12 53.5	1.766	2.687	154.0	9.2	19.1
1986 02 09	10 23.50	+13 33.8					
1986 02 19	10 13.07	+14 15.7	1.716	2.703	176.9	1.1	18.6
1986 03 01	10 02.53	+14 52.9					
1986 03 11	09 53.01	+15 20.9	1.782	2.717	155.4	8.7	19.1
1986 03 21	09 45.45	+15 36.6					
1986 03 31	09 40.44	+15 39.2	1.950	2.728	132.7	15.6	19.5
1986 04 10	09 38.15	+15 29.2					
1986 04 20	09 38.53	+15 07.7	2.184	2.735	112.8	19.8	19.8
1986 04 30	09 41.35	+14 35.9					
1986 05 10	09 46.27	+13 54.9	2.451	2.740	95.6	21.5	20.1

(3196) 1978 RY a,e,i = 3.03, 0.02, 9 Elements MPC 9426

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985 12 01	10 32.47	+18 12.0	2.832	3.082	95.2	18.6	19.1
1985 12 11	10 37.79	+17 58.5					
1985 12 21	10 41.13	+17 56.4	2.560	3.084	113.2	17.0	18.9
1985 12 31	10 42.28	+18 05.9					
1986 01 10	10 41.09	+18 26.6	2.326	3.085	133.4	13.4	18.6
1986 01 20	10 37.51	+18 56.8					
1986 01 30	10 31.73	+19 32.8	2.165	3.087	155.2	7.7	18.3
1986 02 09	10 24.17	+20 10.0					
1986 02 19	10 15.54	+20 43.0	2.108	3.088	170.7	3.0	18.0
1986 03 01	10 06.74	+21 06.8					
1986 03 11	09 58.67	+21 18.3	2.168	3.088	153.5	8.3	18.3
1986 03 21	09 52.14	+21 15.8					
1986 03 31	09 47.66	+20 59.9	2.329	3.089	132.1	13.9	18.6
1986 04 10	09 45.47	+20 31.9					
1986 04 20	09 45.60	+19 53.3	2.559	3.089	112.7	17.5	18.9
1986 04 30	09 47.89	+19 05.9					
1986 05 10	09 52.11	+18 10.8	2.826	3.090	95.4	19.0	19.1

1981 EG44 a,e,i = 3.07, 0.05, 10 Elements MPC 9964

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 30.85	+19 14.7	2.637	2.909	95.9	19.7	19.4
1985	12 11	10 36.87	+18 59.3					
1985	12 21	10 40.81	+18 55.5	2.375	2.912	113.6	18.0	19.1
1985	12 31	10 42.45	+19 03.7					
1986	01 10	10 41.59	+19 23.3	2.151	2.917	133.5	14.2	18.8
1986	01 20	10 38.19	+19 52.4					
1986	01 30	10 32.43	+20 26.9	1.999	2.921	155.0	8.2	18.5
1986	02 09	10 24.76	+21 01.9					
1986	02 19	10 15.95	+21 31.5	1.949	2.927	169.9	3.4	18.3
1986	03 01	10 06.99	+21 50.4					
1986	03 11	09 58.85	+21 55.5	2.012	2.933	153.1	8.8	18.6
1986	03 21	09 52.38	+21 45.8					
1986	03 31	09 48.11	+21 22.0	2.175	2.940	132.1	14.6	18.9
1986	04 10	09 46.26	+20 45.9					
1986	04 20	09 46.82	+19 59.4	2.406	2.947	112.9	18.3	19.2
1986	04 30	09 49.61	+19 04.2					
1986	05 10	09 54.36	+18 01.6	2.674	2.955	96.0	19.9	19.4

(3260) 1974 SO2 a,e,i = 2.23, 0.09, 5 Elements MPC 9755

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 13.08	+05 31.6	1.702	2.040	95.0	28.8	16.9
1985	12 11	10 23.29	+03 54.8					
1985	12 21	10 31.22	+02 26.4	1.476	2.033	109.9	27.1	16.5
1985	12 31	10 36.51	+01 09.9					
1986	01 10	10 38.77	+00 09.3	1.275	2.028	127.3	22.7	16.1
1986	01 20	10 37.71	-00 31.1					
1986	01 30	10 33.34	-00 47.9	1.123	2.026	147.8	15.0	15.6
1986	02 09	10 26.04	-00 38.9					
1986	02 19	10 16.78	-00 05.4	1.049	2.026	168.0	5.8	15.2
1986	03 01	10 07.05	+00 46.6					
1986	03 11	09 58.41	+01 48.2	1.071	2.030	159.0	10.1	15.4
1986	03 21	09 52.23	+02 49.5					
1986	03 31	09 49.28	+03 41.9	1.180	2.035	138.0	19.2	15.8
1986	04 10	09 49.80	+04 20.3					
1986	04 20	09 53.62	+04 41.9	1.353	2.044	119.5	25.3	16.3
1986	04 30	10 00.36	+04 46.2					
1986	05 10	10 09.54	+04 33.8	1.560	2.054	104.1	28.5	16.7

(3189) 1978 RF6 a,e,i = 3.11, 0.18, 8 Elements MPC 9421

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 32.47	+03 48.0	3.308	3.450	89.9	16.6	19.7
1985	12 11	10 36.58	+03 19.9					
1985	12 21	10 38.99	+03 02.1	3.038	3.475	108.3	15.6	19.5
1985	12 31	10 39.57	+02 56.2					
1986	01 10	10 38.26	+03 03.3	2.798	3.499	128.8	12.7	19.2
1986	01 20	10 35.05	+03 24.0					
1986	01 30	10 30.16	+03 57.7	2.627	3.522	151.1	7.8	19.0
1986	02 09	10 23.92	+04 42.7					
1986	02 19	10 16.87	+05 36.0	2.560	3.544	173.5	1.8	18.6
1986	03 01	10 09.66	+06 33.1					
1986	03 11	10 02.96	+07 29.8	2.613	3.564	160.1	5.4	18.9
1986	03 21	09 57.37	+08 21.9					
1986	03 31	09 53.32	+09 06.2	2.779	3.582	137.7	10.8	19.2
1986	04 10	09 51.05	+09 40.8					
1986	04 20	09 50.64	+10 04.8	3.027	3.599	117.2	14.4	19.5
1986	04 30	09 52.04	+10 18.1					
1986	05 10	09 55.12	+10 21.1	3.320	3.615	98.8	16.0	19.8

1981 GD1 a,e,i = 3.04, 0.10, 3 Elements MPC 9687

Date	ET	R. A. (1950)	Decl.	Delta	r	Variation		Mag.
1985	12 01	10 24.25	+05 57.2	2.518	2.746	-0.96	+4.8	19.2
1985	12 11	10 30.87	+05 04.2					
1985	12 21	10 35.54	+04 21.6	2.256	2.748	-1.05	+5.4	18.9
1985	12 31	10 38.05	+03 51.3					
1986	01 10	10 38.22	+03 35.4	2.025	2.752	-1.17	+6.1	18.6
1986	01 20	10 35.97	+03 35.4					
1986	01 30	10 31.46	+03 51.4	1.856	2.758	-1.32	+6.8	18.3
1986	02 09	10 25.08	+04 22.2					
1986	02 19	10 17.51	+05 04.6	1.781	2.765	-1.42	+7.1	17.9
1986	03 01	10 09.69	+05 53.3					
1986	03 11	10 02.53	+06 42.8	1.818	2.773	-1.42	+6.9	18.2
1986	03 21	09 56.90	+07 27.5					
1986	03 31	09 53.36	+08 03.4	1.959	2.783	-1.32	+6.2	18.5
1986	04 10	09 52.16	+08 28.0					
1986	04 20	09 53.35	+08 40.2	2.174	2.794	-1.18	+5.4	18.8
1986	04 30	09 56.77	+08 39.9					
1986	05 10	10 02.19	+08 27.6	2.431	2.806	-1.04	+4.8	19.1

(3221) 1981 XF2 a,e,i = 2.20, 0.15, 4 Elements MPC 9470

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 38.39	+12 09.9	2.315	2.542	91.6	22.8	18.9
1985	12 11	10 45.93	+11 44.3					
1985	12 21	10 51.42	+11 32.2	2.046	2.539	108.7	21.5	18.6
1985	12 31	10 54.56	+11 35.6					
1986	01 10	10 55.05	+11 56.1	1.803	2.533	128.3	17.7	18.2
1986	01 20	10 52.65	+12 34.0					
1986	01 30	10 47.35	+13 27.3	1.619	2.524	150.7	11.0	17.8
1986	02 09	10 39.45	+14 31.6					
1986	02 19	10 29.67	+15 39.7	1.528	2.513	173.1	2.7	17.4
1986	03 01	10 19.13	+16 43.0					
1986	03 11	10 09.11	+17 34.3	1.551	2.498	157.7	8.7	17.6
1986	03 21	10 00.81	+18 08.4					
1986	03 31	09 55.07	+18 23.7	1.674	2.482	134.8	16.6	18.0
1986	04 10	09 52.25	+18 20.9					
1986	04 20	09 52.43	+18 01.8	1.865	2.462	114.9	21.7	18.3
1986	04 30	09 55.37	+17 28.4					
1986	05 10	10 00.75	+16 42.8	2.088	2.441	97.9	24.2	18.6

1980 PH a,e,i = 2.49, 0.22, 4 Elements MPC 9210

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 47.52	+07 22.6	2.443	2.599	87.8	22.3	19.5
1985	12 11	10 54.26	+06 29.5					
1985	12 21	10 58.92	+05 47.8	2.213	2.642	104.9	21.1	19.3
1985	12 31	11 01.24	+05 19.1					
1986	01 10	11 01.02	+05 05.0	2.002	2.684	124.5	17.6	19.1
1986	01 20	10 58.13	+05 06.7					
1986	01 30	10 52.67	+05 23.8	1.845	2.724	146.8	11.4	18.8
1986	02 09	10 45.01	+05 54.5					
1986	02 19	10 35.85	+06 34.9	1.781	2.762	171.2	3.1	18.4
1986	03 01	10 26.17	+07 19.8					
1986	03 11	10 17.00	+08 03.3	1.831	2.797	163.4	5.8	18.7
1986	03 21	10 09.29	+08 40.5					
1986	03 31	10 03.71	+09 07.8	1.990	2.831	140.2	13.1	19.1
1986	04 10	10 00.55	+09 23.6					
1986	04 20	09 59.89	+09 27.3	2.229	2.861	119.6	17.8	19.4
1986	04 30	10 01.57	+09 19.1					
1986	05 10	10 05.32	+09 00.1	2.512	2.890	101.6	20.0	19.8

1984 SQ3 a,e,i = 2.21, 0.14, 5 Elements MPC 9287

Date	ET	R. A. (1950)	Decl.	Delta	r	Variation		Mag.
1985	12 01	10 45.06	+13 05.3	2.310	2.519	-1.10	+6.1	18.9
1985	12 11	10 52.79	+12 32.1					
1985	12 21	10 58.46	+12 11.6	2.047	2.522	-1.24	+7.1	18.6
1985	12 31	11 01.75	+12 05.5					
1986	01 10	11 02.37	+12 15.3	1.808	2.522	-1.45	+8.3	18.2
1986	01 20	11 00.05	+12 41.1					
1986	01 30	10 54.77	+13 21.0	1.624	2.520	-1.71	+9.4	17.8
1986	02 09	10 46.80	+14 11.0					
1986	02 19	10 36.82	+15 04.5	1.532	2.515	-1.89	+9.6	17.4
1986	03 01	10 25.97	+15 53.8					
1986	03 11	10 15.51	+16 32.0	1.552	2.507	-1.87	+8.8	17.6
1986	03 21	10 06.69	+16 54.5					
1986	03 31	10 00.37	+16 59.8	1.675	2.497	-1.67	+7.6	18.0
1986	04 10	09 56.96	+16 48.6					
1986	04 20	09 56.54	+16 22.4	1.868	2.484	-1.43	+6.6	18.3
1986	04 30	09 58.89	+15 43.3					
1986	05 10	10 03.69	+14 52.9	2.097	2.468	-1.22	+6.0	18.6

(3217) 1980 RK a,e,i = 2.39, 0.26, 6 Elements MPC 9468

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 53.03	+09 41.9	2.838	2.961	87.4	19.4	20.6
1985	12 11	10 58.49	+09 04.8					
1985	12 21	11 02.07	+08 38.5	2.565	2.979	105.2	18.6	20.3
1985	12 31	11 03.53	+08 24.3					
1986	01 10	11 02.67	+08 23.1	2.314	2.992	125.4	15.5	20.1
1986	01 20	10 59.36	+08 35.3					
1986	01 30	10 53.68	+08 59.9	2.122	3.003	148.0	10.0	19.8
1986	02 09	10 45.91	+09 34.5					
1986	02 19	10 36.66	+10 15.0	2.027	3.010	172.5	2.5	19.3
1986	03 01	10 26.78	+10 56.5					
1986	03 11	10 17.22	+11 33.8	2.052	3.014	162.4	5.7	19.6
1986	03 21	10 08.90	+12 03.0					
1986	03 31	10 02.50	+12 21.3	2.189	3.014	138.9	12.6	19.9
1986	04 10	09 58.38	+12 28.0					
1986	04 20	09 56.69	+12 22.9	2.407	3.011	117.9	17.2	20.2
1986	04 30	09 57.32	+12 06.8					
1986	05 10	10 00.08	+11 40.6	2.668	3.004	99.5	19.4	20.5

1984 UW a,e,i = 2.88, 0.31, 5 Elements MPC 9418

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 52.19	+04 41.7	3.146	3.225	85.7	17.8	20.1
1985	12 11	10 56.79	+03 57.5					
1985	12 21	10 59.62	+03 23.0	2.899	3.275	103.8	17.0	20.0
1985	12 31	11 00.50	+02 59.6					
1986	01 10	10 59.32	+02 48.4	2.673	3.324	123.9	14.2	19.8
1986	01 20	10 56.06	+02 50.3					
1986	01 30	10 50.85	+03 04.9	2.506	3.369	146.2	9.4	19.5
1986	02 09	10 44.02	+03 31.0					
1986	02 19	10 36.10	+04 06.1	2.436	3.413	169.5	3.0	19.3
1986	03 01	10 27.79	+04 46.5					
1986	03 11	10 19.82	+05 28.0	2.486	3.454	164.5	4.4	19.4
1986	03 21	10 12.88	+06 06.7					
1986	03 31	10 07.49	+06 39.1	2.653	3.492	141.8	10.2	19.8
1986	04 10	10 03.94	+07 03.2					
1986	04 20	10 02.35	+07 17.9	2.907	3.529	120.8	14.1	20.1
1986	04 30	10 02.68	+07 22.9					
1986	05 10	10 04.78	+07 18.2	3.212	3.562	102.0	16.1	20.4

(3310) 1931 TS2 a,e,i = 3.01, 0.06, 11 Elements MPC 10031

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 39.47	+15 54.4	2.800	3.013	92.8	19.1	17.1
1985	12 11	10 46.39	+15 58.8					
1985	12 21	10 51.54	+16 17.1	2.514	3.002	110.3	17.9	16.8
1985	12 31	10 54.70	+16 50.4					
1986	01 10	10 55.64	+17 38.8	2.263	2.990	129.8	14.6	16.5
1986	01 20	10 54.24	+18 41.2					
1986	01 30	10 50.53	+19 54.1	2.080	2.979	150.7	9.3	16.2
1986	02 09	10 44.76	+21 12.0					
1986	02 19	10 37.47	+22 27.8	1.996	2.968	166.9	4.3	15.9
1986	03 01	10 29.49	+23 33.9					
1986	03 11	10 21.74	+24 24.6	2.026	2.956	155.1	8.1	16.1
1986	03 21	10 15.12	+24 56.1					
1986	03 31	10 10.33	+25 07.6	2.157	2.946	134.6	14.0	16.3
1986	04 10	10 07.78	+25 00.6					
1986	04 20	10 07.61	+24 37.2	2.360	2.935	115.4	18.0	16.6
1986	04 30	10 09.74	+23 59.9					
1986	05 10	10 13.98	+23 11.0	2.602	2.924	98.3	20.0	16.9

4016 P-L a,e,i = 2.80, 0.02, 5 Elements MPC 9299

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 46.19	+09 47.2	2.679	2.838	89.0	20.3	18.7
1985	12 11	10 52.93	+09 01.0					
1985	12 21	10 57.81	+08 24.8	2.407	2.842	106.1	19.4	18.4
1985	12 31	11 00.61	+08 00.1					
1986	01 10	11 01.10	+07 48.2	2.158	2.845	125.5	16.3	18.1
1986	01 20	10 59.14	+07 49.7					
1986	01 30	10 54.78	+08 04.1	1.968	2.847	147.4	10.7	17.8
1986	02 09	10 48.27	+08 29.5					
1986	02 19	10 40.20	+09 02.2	1.869	2.850	171.3	3.0	17.4
1986	03 01	10 31.41	+09 37.3					
1986	03 11	10 22.85	+10 10.0	1.884	2.852	164.2	5.5	17.5
1986	03 21	10 15.46	+10 35.6					
1986	03 31	10 09.96	+10 51.2	2.007	2.854	141.1	12.7	17.9
1986	04 10	10 06.73	+10 55.4					
1986	04 20	10 05.93	+10 47.8	2.211	2.856	120.5	17.6	18.2
1986	04 30	10 07.48	+10 28.8					
1986	05 10	10 11.15	+09 59.2	2.462	2.858	102.6	20.2	18.5

(3204) 1978 RH a,e,i = 3.18, 0.26, 2 Elements MPC 9462

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 51.99	+08 31.1	2.914	3.030	87.2	19.0	18.2
1985	12 11	10 58.00	+08 02.0					
1985	12 21	11 02.19	+07 44.4	2.680	3.082	104.9	18.0	18.0
1985	12 31	11 04.37	+07 39.7					
1986	01 10	11 04.40	+07 48.5	2.468	3.134	124.7	14.9	17.8
1986	01 20	11 02.23	+08 11.0					
1986	01 30	10 57.99	+08 45.6	2.315	3.186	146.9	9.7	17.6
1986	02 09	10 51.96	+09 29.9					
1986	02 19	10 44.68	+10 19.6	2.257	3.236	170.6	2.9	17.3
1986	03 01	10 36.89	+11 09.7					
1986	03 11	10 29.35	+11 55.4	2.317	3.286	164.8	4.5	17.5
1986	03 21	10 22.79	+12 32.8					
1986	03 31	10 17.77	+12 59.3	2.489	3.334	142.1	10.6	17.8
1986	04 10	10 14.62	+13 13.9					
1986	04 20	10 13.46	+13 16.6	2.748	3.381	121.4	14.7	18.2
1986	04 30	10 14.24	+13 08.1					
1986	05 10	10 16.82	+12 49.6	3.058	3.427	102.9	16.7	18.5

(3203) 1938 SL a,e,i = 2.32, 0.26, 7 Elements MPC 9462

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 58.86	+14 07.9	2.629	2.772	87.8	20.8	19.3
1985	12 11	11 05.57	+13 52.0					
1985	12 21	11 10.29	+13 49.7	2.380	2.804	105.2	19.8	19.1
1985	12 31	11 12.79	+14 02.2					
1986	01 10	11 12.81	+14 30.0	2.152	2.833	125.0	16.5	18.8
1986	01 20	11 10.18	+15 12.3					
1986	01 30	11 04.93	+16 06.3	1.981	2.858	147.0	10.8	18.5
1986	02 09	10 57.31	+17 07.2					
1986	02 19	10 47.94	+18 08.3	1.905	2.879	168.1	4.1	18.2
1986	03 01	10 37.74	+19 02.5					
1986	03 11	10 27.75	+19 43.8	1.946	2.897	159.6	6.9	18.4
1986	03 21	10 19.00	+20 08.5					
1986	03 31	10 12.26	+20 15.6	2.096	2.912	137.6	13.4	18.7
1986	04 10	10 07.92	+20 06.4					
1986	04 20	10 06.14	+19 42.8	2.323	2.923	117.2	17.8	19.1
1986	04 30	10 06.79	+19 07.1					
1986	05 10	10 09.65	+18 21.2	2.593	2.930	99.2	19.9	19.4

(3195) 1978 PT2 a,e,i = 2.91, 0.06, 1 Elements MPC 9426

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 52.19	+06 29.3	2.989	3.087	86.3	18.6	18.8
1985	12 11	10 58.44	+05 47.4					
1985	12 21	11 03.02	+05 15.2	2.704	3.088	103.7	18.0	18.5
1985	12 31	11 05.73	+04 54.3					
1986	01 10	11 06.37	+04 46.1	2.440	3.089	123.1	15.5	18.2
1986	01 20	11 04.83	+04 51.7					
1986	01 30	11 01.13	+05 10.8	2.231	3.089	144.8	10.6	17.9
1986	02 09	10 55.49	+05 42.3					
1986	02 19	10 48.36	+06 23.4	2.113	3.088	168.4	3.7	17.6
1986	03 01	10 40.43	+07 09.6					
1986	03 11	10 32.51	+07 56.2	2.110	3.086	167.2	4.1	17.6
1986	03 21	10 25.43	+08 38.1					
1986	03 31	10 19.87	+09 11.6	2.219	3.083	144.0	11.0	17.9
1986	04 10	10 16.26	+09 34.2					
1986	04 20	10 14.82	+09 44.7	2.416	3.080	123.0	15.9	18.2
1986	04 30	10 15.55	+09 43.3					
1986	05 10	10 18.31	+09 30.3	2.665	3.076	104.4	18.5	18.5

(3153) 1984 SH3 a,e,i = 2.42, 0.13, 8 Elements MPC 9290

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	10 53.44	+16 07.9	2.279	2.480	89.8	23.4	18.3
1985	12 11	11 02.08	+15 46.0					
1985	12 21	11 08.61	+15 38.1	2.046	2.507	106.3	22.1	18.1
1985	12 31	11 12.73	+15 45.8					
1986	01 10	11 14.15	+16 09.6	1.835	2.533	125.2	18.5	17.8
1986	01 20	11 12.63	+16 48.7					
1986	01 30	11 08.14	+17 39.8	1.678	2.557	146.4	12.3	17.4
1986	02 09	11 00.94	+18 37.5					
1986	02 19	10 51.68	+19 33.9	1.609	2.581	166.6	5.1	17.2
1986	03 01	10 41.43	+20 20.8					
1986	03 11	10 31.40	+20 51.8	1.651	2.604	159.2	7.8	17.3
1986	03 21	10 22.76	+21 03.3					
1986	03 31	10 16.39	+20 55.1	1.795	2.624	138.0	14.7	17.7
1986	04 10	10 12.69	+20 29.3					
1986	04 20	10 11.76	+19 48.6	2.014	2.644	118.4	19.5	18.1
1986	04 30	10 13.44	+18 55.7					
1986	05 10	10 17.41	+17 53.1	2.275	2.661	101.1	21.9	18.4

(3304) 1981 EQ21 a,e,i = 3.06, 0.27, 2 Elements MPC 10023

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 01	11 00.19	+06 05.7	3.356	3.404	84.4	16.8	19.7
1985	12 11	11 05.07	+05 30.7					
1985	12 21	11 08.30	+05 05.5	3.099	3.447	102.4	16.2	19.5
1985	12 31	11 09.74	+04 51.1					
1986	01 10	11 09.27	+04 48.5	2.861	3.489	122.5	13.8	19.3
1986	01 20	11 06.81	+04 58.2					
1986	01 30	11 02.49	+05 19.4	2.679	3.529	144.6	9.3	19.1
1986	02 09	10 56.54	+05 50.6					
1986	02 19	10 49.41	+06 29.2	2.593	3.567	168.3	3.2	18.8
1986	03 01	10 41.71	+07 11.4					
1986	03 11	10 34.12	+07 53.1	2.626	3.602	167.5	3.4	18.9
1986	03 21	10 27.28	+08 30.5					
1986	03 31	10 21.75	+09 00.7	2.777	3.636	144.5	9.2	19.2
1986	04 10	10 17.85	+09 21.9					
1986	04 20	10 15.78	+09 33.2	3.020	3.668	123.3	13.2	19.5
1986	04 30	10 15.54	+09 34.4					
1986	05 10	10 17.03	+09 26.2	3.319	3.698	104.2	15.4	19.8

(3174) 1984 UV a,e,i = 3.15, 0.17, 2 Elements MPC 9354

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 21	11 05.20	+08 44.1	2.452	2.862	104.5	19.4	17.7
1985	12 31	11 08.74	+08 33.5					
1986	01 10	11 10.05	+08 37.0	2.229	2.893	123.7	16.4	17.4
1986	01 20	11 09.00	+08 54.8					
1986	01 30	11 05.64	+09 25.8	2.060	2.924	145.3	11.1	17.2
1986	02 09	11 00.21	+10 07.4					
1986	02 19	10 53.23	+10 55.2	1.981	2.956	168.6	3.8	16.9
1986	03 01	10 45.45	+11 43.7					
1986	03 11	10 37.74	+12 27.5	2.014	2.988	166.3	4.5	17.0
1986	03 21	10 30.95	+13 01.9					
1986	03 31	10 25.76	+13 24.0	2.158	3.021	143.7	11.3	17.3
1986	04 10	10 22.58	+13 32.9					
1986	04 20	10 21.56	+13 28.5	2.387	3.054	123.1	16.0	17.7
1986	04 30	10 22.68	+13 11.9					
1986	05 10	10 25.76	+12 44.3	2.668	3.087	104.9	18.4	18.0
1986	05 20	10 30.59	+12 06.9					
1986	05 30	10 36.92	+11 21.0	2.972	3.120	88.8	19.0	18.3

1982 DK a,e,i = 2.59, 0.26, 12 Elements MPC 6879

Date	ET	R. A. (1950)	Decl.	Delta	r	Variation		Mag.
1985	12 21	10 39.44	+18 12.3	1.472	2.073	-2.47	+7.7	17.0
1985	12 31	10 48.94	+19 04.1					
1986	01 10	10 55.94	+20 21.2	1.249	2.030	-3.18	+10.7	16.5
1986	01 20	10 59.98	+22 03.5					
1986	01 30	11 00.73	+24 06.7	1.085	1.991	-4.09	+13.2	16.0
1986	02 09	10 58.13	+26 21.2					
1986	02 19	10 52.61	+28 31.6	1.001	1.959	-4.79	+13.3	15.7
1986	03 01	10 45.29	+30 20.2					
1986	03 11	10 37.75	+31 33.0	1.006	1.934	-4.69	+10.4	15.8
1986	03 21	10 31.69	+32 02.4					
1986	03 31	10 28.44	+31 49.3	1.088	1.917	-4.00	+7.4	16.1
1986	04 10	10 28.59	+30 59.2					
1986	04 20	10 32.25	+29 38.9	1.222	1.908	-3.31	+6.3	16.5
1986	04 30	10 39.07	+27 55.1					
1986	05 10	10 48.54	+25 53.1	1.388	1.908	-2.80	+6.6	16.8
1986	05 20	11 00.18	+23 37.0					
1986	05 30	11 13.49	+21 10.2	1.573	1.916	-2.39	+7.4	17.1

1953 PR a,e,i = 2.44, 0.33, 5 Elements MPC 9360

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 21	11 12.46	+02 11.9	2.915	3.239	100.3	17.4	20.8
1985	12 31	11 14.51	+01 57.9					
1986	01 10	11 14.56	+01 57.1	2.636	3.243	120.1	15.2	20.5
1986	01 20	11 12.48	+02 10.8					
1986	01 30	11 08.27	+02 39.5	2.407	3.242	142.1	10.7	20.2
1986	02 09	11 02.11	+03 22.3					
1986	02 19	10 54.40	+04 16.7	2.269	3.238	166.1	4.2	19.9
1986	03 01	10 45.79	+05 18.5					
1986	03 11	10 37.06	+06 22.5	2.250	3.230	168.6	3.5	19.8
1986	03 21	10 29.01	+07 23.2					
1986	03 31	10 22.37	+08 16.0	2.349	3.218	144.8	10.3	20.1
1986	04 10	10 17.59	+08 57.8					
1986	04 20	10 14.94	+09 26.9	2.541	3.202	123.1	15.2	20.4
1986	04 30	10 14.46	+09 42.9					
1986	05 10	10 16.04	+09 46.5	2.787	3.183	103.8	17.9	20.7
1986	05 20	10 19.51	+09 38.3					
1986	05 30	10 24.65	+09 19.3	3.052	3.160	86.7	18.7	20.9

1981 WU a,e,i = 2.25, 0.17, 3 Elements MPC 9072

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 21	11 08.43	+05 08.9	1.899	2.319	102.4	24.5	18.8
1985	12 31	11 13.46	+04 48.1					
1986	01 10	11 15.81	+04 45.5	1.693	2.355	121.0	21.0	18.5
1986	01 20	11 15.22	+05 03.0					
1986	01 30	11 11.63	+05 40.7	1.530	2.389	142.6	14.5	18.1
1986	02 09	11 05.24	+06 36.7					
1986	02 19	10 56.65	+07 45.8	1.448	2.422	167.1	5.2	17.8
1986	03 01	10 46.88	+09 00.3					
1986	03 11	10 37.16	+10 11.5	1.474	2.452	167.4	5.1	17.9
1986	03 21	10 28.71	+11 11.5					
1986	03 31	10 22.48	+11 55.4	1.605	2.481	143.6	13.8	18.3
1986	04 10	10 18.92	+12 21.4					
1986	04 20	10 18.18	+12 29.4	1.817	2.507	122.7	19.7	18.7
1986	04 30	10 20.11	+12 21.0					
1986	05 10	10 24.41	+11 58.0	2.075	2.531	104.9	22.7	19.1
1986	05 20	10 30.74	+11 22.3					
1986	05 30	10 38.77	+10 35.7	2.352	2.553	89.5	23.4	19.4

1983 AJ a,e,i = 1.94, 0.11, 17 Elements MPC 7766

Date	ET	R. A. (1950)	Decl.	Delta	r	Variation		Mag.
1985	12 21	11 16.44	-05 46.1	1.595	1.962	-0.91	+12.5	18.2
1985	12 31	11 22.43	-08 29.7					
1986	01 10	11 25.48	-11 07.3	1.402	1.988	-0.89	+13.4	17.9
1986	01 20	11 25.10	-13 34.4					
1986	01 30	11 20.97	-15 44.9	1.240	2.013	-0.91	+14.8	17.5
1986	02 09	11 13.03	-17 30.9					
1986	02 19	11 01.77	-18 43.4	1.137	2.037	-0.92	+17.2	17.2
1986	03 01	10 48.41	-19 16.1					
1986	03 11	10 34.69	-19 08.0	1.119	2.059	-0.84	+19.5	17.1
1986	03 21	10 22.53	-18 25.8					
1986	03 31	10 13.42	-17 22.0	1.193	2.079	-0.76	+19.6	17.4
1986	04 10	10 08.10	-16 09.9					
1986	04 20	10 06.72	-15 01.2	1.341	2.096	-0.70	+17.5	17.8
1986	04 30	10 08.99	-14 03.5					
1986	05 10	10 14.40	-13 20.8	1.536	2.112	-0.64	+14.7	18.2
1986	05 20	10 22.48	-12 55.0					
1986	05 30	10 32.72	-12 46.1	1.754	2.125	-0.58	+12.2	18.5

1981 EH26 a,e,i = 3.08, 0.28, 2 Elements MPC 8288

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985 12 21	11 13.41	+05 48.7	3.138	3.471	101.5	16.1	19.6
1985 12 31	11 15.27	+05 43.5					
1986 01 10	11 15.24	+05 50.4	2.898	3.513	121.5	13.8	19.4
1986 01 20	11 13.27	+06 09.8					
1986 01 30	11 09.43	+06 41.0	2.712	3.553	143.5	9.5	19.1
1986 02 09	11 03.92	+07 21.9					
1986 02 19	10 57.17	+08 09.6	2.621	3.591	167.1	3.5	18.9
1986 03 01	10 49.75	+08 59.9					
1986 03 11	10 42.30	+09 48.5	2.648	3.627	168.7	3.1	18.9
1986 03 21	10 35.50	+10 31.3					
1986 03 31	10 29.89	+11 05.4	2.793	3.661	145.5	8.9	19.2
1986 04 10	10 25.84	+11 29.1					
1986 04 20	10 23.57	+11 41.8	3.033	3.693	124.3	13.0	19.5
1986 04 30	10 23.11	+11 43.6					
1986 05 10	10 24.37	+11 35.2	3.331	3.723	105.1	15.2	19.8
1986 05 20	10 27.23	+11 17.4					
1986 05 30	10 31.50	+10 51.4	3.652	3.751	87.7	15.7	20.0

1981 KE a,e,i = 1.91, 0.15, 26 Elements MPC 7460

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985 12 21	10 53.99	+50 28.2	0.917	1.623	117.2	32.6	16.6
1985 12 31	11 15.67	+54 12.4					
1986 01 10	11 33.02	+57 54.5	0.865	1.625	123.0	30.5	16.4
1986 01 20	11 43.92	+61 22.3					
1986 01 30	11 46.23	+64 20.0	0.858	1.634	124.7	29.7	16.4
1986 02 09	11 38.43	+66 30.0					
1986 02 19	11 21.49	+67 32.3	0.890	1.649	122.7	30.3	16.5
1986 03 01	11 00.20	+67 13.4					
1986 03 11	10 40.90	+65 33.5	0.954	1.670	118.1	31.6	16.7
1986 03 21	10 28.00	+62 44.6					
1986 03 31	10 22.43	+59 05.4	1.048	1.696	111.9	33.1	17.0
1986 04 10	10 23.01	+54 52.5					
1986 04 20	10 28.24	+50 18.9	1.172	1.727	104.7	34.3	17.3
1986 04 30	10 36.69	+45 35.0					
1986 05 10	10 47.35	+40 47.7	1.326	1.760	96.8	34.7	17.6
1986 05 20	10 59.54	+36 01.9					
1986 05 30	11 12.77	+31 21.4	1.507	1.796	88.6	34.4	18.0

1981 WQ a,e,i = 2.28, 0.15, 8 Elements MPC 9951

Date ET	R. A. (1950)	Decl.	Delta	r	Variation		Mag.
1985 12 21	11 00.65	+17 51.9	1.373	1.930	-2.64	+13.2	16.8
1985 12 31	11 10.24	+17 56.5					
1986 01 10	11 16.74	+18 21.0	1.192	1.933	-3.22	+16.6	16.4
1986 01 20	11 19.66	+19 05.3					
1986 01 30	11 18.71	+20 05.9	1.055	1.941	-3.98	+19.6	16.0
1986 02 09	11 13.88	+21 15.4					
1986 02 19	11 05.77	+22 22.0	0.989	1.954	-4.54	+20.3	15.6
1986 03 01	10 55.73	+23 12.2					
1986 03 11	10 45.49	+23 35.6	1.012	1.971	-4.41	+17.8	15.7
1986 03 21	10 36.88	+23 27.5					
1986 03 31	10 31.17	+22 49.6	1.122	1.992	-3.70	+14.4	16.2
1986 04 10	10 28.91	+21 46.9					
1986 04 20	10 30.13	+20 25.1	1.296	2.017	-2.94	+12.1	16.7
1986 04 30	10 34.47	+18 49.2					
1986 05 10	10 41.43	+17 02.9	1.511	2.044	-2.32	+10.7	17.1
1986 05 20	10 50.54	+15 08.8					
1986 05 30	11 01.36	+13 08.7	1.747	2.075	-1.85	+9.8	17.5

1983 NR a,e,i = 2.56, 0.13, 15 Elements MPC 8285

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 21	11 21.30	-02 03.6	2.554	2.841	96.6	20.1	18.8
1985	12 31	11 24.69	-03 24.2					
1986	01 10	11 25.93	-04 36.8	2.271	2.827	114.7	18.4	18.5
1986	01 20	11 24.77	-05 39.0					
1986	01 30	11 21.10	-06 28.7	2.029	2.811	134.8	14.4	18.1
1986	02 09	11 14.96	-07 03.3					
1986	02 19	11 06.68	-07 21.2	1.863	2.794	155.8	8.3	17.8
1986	03 01	10 56.94	-07 22.0					
1986	03 11	10 46.67	-07 07.5	1.802	2.776	165.7	5.1	17.6
1986	03 21	10 36.96	-06 41.6					
1986	03 31	10 28.77	-06 10.1	1.854	2.756	148.5	10.9	17.8
1986	04 10	10 22.78	-05 38.5					
1986	04 20	10 19.39	-05 11.8	1.998	2.734	128.0	16.8	18.1
1986	04 30	10 18.65	-04 53.8					
1986	05 10	10 20.44	-04 46.4	2.201	2.711	109.6	20.5	18.4
1986	05 20	10 24.54	-04 50.7					
1986	05 30	10 30.64	-05 06.9	2.430	2.687	93.4	22.1	18.6

1978 TO7 a,e,i = 3.16, 0.13, 12 Elements MPC 9355

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 21	11 15.95	+15 47.8	2.832	3.224	104.7	17.2	17.7
1985	12 31	11 19.39	+16 18.4					
1986	01 10	11 20.80	+17 03.0	2.596	3.248	123.9	14.6	17.5
1986	01 20	11 20.04	+18 00.5					
1986	01 30	11 17.13	+19 07.9	2.419	3.271	144.4	10.1	17.2
1986	02 09	11 12.23	+20 20.7					
1986	02 19	11 05.75	+21 32.8	2.337	3.294	162.7	5.1	17.0
1986	03 01	10 58.32	+22 37.7					
1986	03 11	10 50.69	+23 29.8	2.368	3.315	159.2	6.1	17.1
1986	03 21	10 43.67	+24 05.1					
1986	03 31	10 37.94	+24 22.2	2.509	3.337	140.0	11.1	17.4
1986	04 10	10 33.94	+24 21.7					
1986	04 20	10 31.94	+24 05.3	2.734	3.357	120.5	14.9	17.7
1986	04 30	10 31.97	+23 35.3					
1986	05 10	10 33.92	+22 54.1	3.009	3.377	102.6	17.0	17.9
1986	05 20	10 37.63	+22 03.7					
1986	05 30	10 42.87	+21 05.7	3.304	3.396	86.5	17.3	18.1

1984 QE1 a,e,i = 2.33, 0.23, 8 Elements MPC 9590

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 21	11 26.89	+07 06.1	2.217	2.562	99.0	22.3	19.3
1985	12 31	11 30.82	+06 31.0					
1986	01 10	11 32.26	+06 09.8	1.995	2.602	117.7	19.5	19.0
1986	01 20	11 30.96	+06 03.4					
1986	01 30	11 26.85	+06 11.9	1.814	2.640	139.3	14.1	18.7
1986	02 09	11 20.07	+06 33.7					
1986	02 19	11 11.10	+07 05.6	1.713	2.675	163.5	6.0	18.4
1986	03 01	11 00.80	+07 42.4					
1986	03 11	10 50.24	+08 18.4	1.722	2.707	171.1	3.3	18.3
1986	03 21	10 40.57	+08 48.2					
1986	03 31	10 32.72	+09 07.7	1.845	2.737	146.9	11.5	18.8
1986	04 10	10 27.25	+09 15.2					
1986	04 20	10 24.40	+09 09.9	2.057	2.763	125.4	17.2	19.2
1986	04 30	10 24.13	+08 52.5					
1986	05 10	10 26.21	+08 24.0	2.323	2.786	106.6	20.3	19.5
1986	05 20	10 30.37	+07 45.4					
1986	05 30	10 36.29	+06 57.8	2.612	2.806	90.3	21.2	19.8

1975 QO a,e,i = 2.65, 0.31, 11 Elements MPC 9291

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985 12 21	11 34.55	+00 57.8	2.861	3.102	94.8	18.4	19.7
1985 12 31	11 37.16	+00 12.9					
1986 01 10	11 37.72	-00 21.0	2.618	3.148	113.9	16.6	19.5
1986 01 20	11 36.07	-00 42.5					
1986 01 30	11 32.20	-00 50.9	2.414	3.190	135.2	12.6	19.2
1986 02 09	11 26.22	-00 46.1					
1986 02 19	11 18.51	-00 29.1	2.289	3.229	158.4	6.5	19.0
1986 03 01	11 09.66	-00 02.2					
1986 03 11	11 00.43	+00 31.1	2.276	3.265	173.6	2.0	18.7
1986 03 21	10 51.67	+01 06.3					
1986 03 31	10 44.10	+01 39.2	2.384	3.299	151.8	8.2	19.2
1986 04 10	10 38.25	+02 06.2					
1986 04 20	10 34.43	+02 24.9	2.594	3.329	129.9	13.4	19.5
1986 04 30	10 32.72	+02 34.0					
1986 05 10	10 33.02	+02 33.0	2.870	3.356	110.3	16.4	19.8
1986 05 20	10 35.20	+02 22.0					
1986 05 30	10 39.01	+02 01.5	3.177	3.380	92.7	17.4	20.1

6543 P-L a,e,i = 3.18, 0.17, 2 Elements MPC 9302

Date ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985 12 21	11 27.59	+05 51.4	3.436	3.708	98.3	15.2	19.8
1985 12 31	11 30.25	+05 41.7					
1986 01 10	11 31.23	+05 43.1	3.141	3.703	117.8	13.6	19.5
1986 01 20	11 30.41	+05 55.9					
1986 01 30	11 27.79	+06 19.9	2.896	3.697	139.1	10.0	19.3
1986 02 09	11 23.45	+06 53.8					
1986 02 19	11 17.67	+07 35.3	2.737	3.690	162.0	4.7	19.0
1986 03 01	11 10.90	+08 21.0					
1986 03 11	11 03.69	+09 06.7	2.693	3.681	173.3	1.8	18.7
1986 03 21	10 56.70	+09 48.4					
1986 03 31	10 50.53	+10 22.7	2.769	3.671	150.4	7.7	19.1
1986 04 10	10 45.65	+10 47.1					
1986 04 20	10 42.41	+11 00.6	2.945	3.659	128.8	12.4	19.3
1986 04 30	10 40.95	+11 02.7					
1986 05 10	10 41.28	+10 54.0	3.188	3.646	109.2	15.2	19.6
1986 05 20	10 43.31	+10 35.1					
1986 05 30	10 46.90	+10 07.1	3.461	3.631	91.5	16.2	19.8

1982 BS1 a,e,i = 2.45, 0.15, 7 Elements MPC 6817

Date ET	R. A. (1950)	Decl.	Delta	r	Variation		Mag.
1985 12 21	11 17.67	+03 16.2	1.831	2.218	-1.29	+4.7	18.1
1985 12 31	11 25.35	+02 53.7					
1986 01 10	11 30.55	+02 50.4	1.625	2.247	-1.47	+5.7	17.8
1986 01 20	11 32.97	+03 09.0					
1986 01 30	11 32.42	+03 50.5	1.455	2.278	-1.72	+6.9	17.5
1986 02 09	11 28.91	+04 54.0					
1986 02 19	11 22.80	+06 15.3	1.354	2.310	-2.00	+8.0	17.2
1986 03 01	11 14.89	+07 46.6					
1986 03 11	11 06.27	+09 17.8	1.353	2.342	-2.14	+8.1	16.9
1986 03 21	10 58.23	+10 38.7					
1986 03 31	10 51.86	+11 41.8	1.457	2.376	-2.03	+7.0	17.5
1986 04 10	10 47.86	+12 23.4					
1986 04 20	10 46.59	+12 43.0	1.647	2.409	-1.77	+5.8	17.9
1986 04 30	10 47.99	+12 42.0					
1986 05 10	10 51.84	+12 23.2	1.892	2.442	-1.49	+4.9	18.3
1986 05 20	10 57.84	+11 48.8					
1986 05 30	11 05.64	+11 01.5	2.165	2.475	-1.26	+4.3	18.7

(3190) 1978 SR6 a,e,i = 3.00, 0.11, 10 Elements MPC 9422

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 21	11 37.68	+07 08.3	3.037	3.297	96.5	17.2	19.4
1985	12 31	11 41.07	+06 42.0					
1986	01 10	11 42.59	+06 26.6	2.762	3.305	115.4	15.6	19.2
1986	01 20	11 42.06	+06 22.4					
1986	01 30	11 39.44	+06 29.3	2.529	3.313	136.4	11.8	18.9
1986	02 09	11 34.77	+06 46.2					
1986	02 19	11 28.33	+07 10.7	2.376	3.319	159.4	6.0	18.6
1986	03 01	11 20.61	+07 39.5					
1986	03 11	11 12.28	+08 08.7	2.333	3.324	175.3	1.4	18.3
1986	03 21	11 04.11	+08 34.0					
1986	03 31	10 56.85	+08 52.0	2.410	3.328	152.5	8.0	18.7
1986	04 10	10 51.06	+09 00.6					
1986	04 20	10 47.14	+08 58.6	2.588	3.331	130.7	13.2	19.0
1986	04 30	10 45.23	+08 45.8					
1986	05 10	10 45.33	+08 22.8	2.834	3.333	111.1	16.4	19.3
1986	05 20	10 47.31	+07 50.3					
1986	05 30	10 50.99	+07 09.1	3.113	3.333	93.6	17.7	19.5

1980 SG a,e,i = 2.45, 0.16, 7 Elements MPC 9296

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 21	11 43.53	+08 20.5	2.471	2.748	95.6	20.9	19.6
1985	12 31	11 48.68	+07 57.7					
1986	01 10	11 51.69	+07 48.3	2.219	2.766	113.8	19.0	19.4
1986	01 20	11 52.28	+07 53.4					
1986	01 30	11 50.30	+08 12.7	2.003	2.783	134.4	14.6	19.1
1986	02 09	11 45.73	+08 44.6					
1986	02 19	11 38.80	+09 25.9	1.859	2.797	157.2	7.9	18.8
1986	03 01	11 30.08	+10 11.4					
1986	03 11	11 20.40	+10 55.1	1.820	2.809	173.2	2.4	18.5
1986	03 21	11 10.81	+11 30.8					
1986	03 31	11 02.30	+11 54.1	1.897	2.819	152.2	9.5	18.9
1986	04 10	10 55.63	+12 02.8					
1986	04 20	10 51.29	+11 56.2	2.071	2.827	130.3	15.7	19.2
1986	04 30	10 49.42	+11 35.5					
1986	05 10	10 49.95	+11 02.0	2.308	2.832	111.1	19.4	19.5
1986	05 20	10 52.69	+10 17.4					
1986	05 30	10 57.35	+09 23.3	2.575	2.835	94.2	20.9	19.8

1981 JZ a,e,i = 3.20, 0.07, 18 Elements MPC 9353

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 21	11 41.02	+23 40.8	2.957	3.303	101.9	16.9	17.8
1985	12 31	11 45.79	+24 13.6					
1986	01 10	11 48.58	+24 59.5	2.693	3.291	119.5	15.1	17.6
1986	01 20	11 49.17	+25 57.0					
1986	01 30	11 47.44	+27 02.7	2.483	3.278	137.5	11.7	17.3
1986	02 09	11 43.39	+28 11.6					
1986	02 19	11 37.25	+29 16.9	2.356	3.265	152.5	8.0	17.1
1986	03 01	11 29.53	+30 11.5					
1986	03 11	11 20.97	+30 48.9	2.333	3.251	153.3	7.9	17.1
1986	03 21	11 12.45	+31 04.6					
1986	03 31	11 04.85	+30 57.3	2.415	3.238	139.2	11.6	17.2
1986	04 10	10 58.85	+30 28.1					
1986	04 20	10 54.89	+29 39.7	2.582	3.224	121.6	15.4	17.5
1986	04 30	10 53.15	+28 35.7					
1986	05 10	10 53.59	+27 19.5	2.803	3.210	104.6	17.7	17.7
1986	05 20	10 56.06	+25 54.1					
1986	05 30	11 00.33	+24 21.7	3.050	3.196	88.9	18.5	17.9

(3205) 1979 MO6 a,e,i = 2.68, 0.20, 12 Elements MPC 9462

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 21	11 37.82	+10 04.1	2.442	2.750	97.6	20.8	19.1
1985	12 31	11 43.57	+10 23.2					
1986	01 10	11 47.20	+10 59.8	2.216	2.790	115.9	18.5	18.9
1986	01 20	11 48.45	+11 54.0					
1986	01 30	11 47.21	+13 04.4	2.033	2.829	136.4	13.9	18.6
1986	02 09	11 43.51	+14 27.7					
1986	02 19	11 37.60	+15 57.7	1.928	2.866	157.5	7.6	18.4
1986	03 01	11 30.07	+17 26.5					
1986	03 11	11 21.72	+18 46.0	1.930	2.902	165.3	5.0	18.3
1986	03 21	11 13.51	+19 49.0					
1986	03 31	11 06.35	+20 31.4	2.045	2.936	147.4	10.6	18.6
1986	04 10	11 00.90	+20 52.2					
1986	04 20	10 57.60	+20 52.5	2.252	2.969	127.2	15.6	19.0
1986	04 30	10 56.56	+20 34.8					
1986	05 10	10 57.71	+20 02.2	2.517	3.000	108.9	18.6	19.3
1986	05 20	11 00.87	+19 17.2					
1986	05 30	11 05.78	+18 22.3	2.811	3.029	92.5	19.5	19.6

1984 SV a,e,i = 2.40, 0.12, 6 Elements MPC 9414

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 21	11 37.77	+04 30.4	1.934	2.251	95.4	25.8	18.3
1985	12 31	11 45.37	+03 25.7					
1986	01 10	11 50.58	+02 33.8	1.715	2.275	112.1	23.6	18.0
1986	01 20	11 53.03	+01 56.8					
1986	01 30	11 52.48	+01 36.0	1.525	2.300	131.7	18.7	17.7
1986	02 09	11 48.81	+01 32.0					
1986	02 19	11 42.23	+01 44.0	1.395	2.326	154.3	10.6	17.3
1986	03 01	11 33.38	+02 08.8					
1986	03 11	11 23.29	+02 41.4	1.359	2.352	178.5	0.6	16.7
1986	03 21	11 13.29	+03 14.9					
1986	03 31	11 04.65	+03 43.0	1.430	2.378	156.3	9.7	17.4
1986	04 10	10 58.29	+04 00.8					
1986	04 20	10 54.72	+04 05.4	1.593	2.404	134.2	17.4	17.8
1986	04 30	10 54.04	+03 56.2					
1986	05 10	10 56.07	+03 33.4	1.820	2.430	115.3	22.1	18.2
1986	05 20	11 00.52	+02 57.9					
1986	05 30	11 07.03	+02 11.2	2.081	2.455	99.1	24.1	18.6

(3214) 1978 TZ6 a,e,i = 3.01, 0.06, 11 Elements MPC 9467

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.
1985	12 21	11 35.97	+13 24.2	2.721	3.039	99.3	18.6	17.0
1985	12 31	11 41.56	+13 41.1					
1986	01 10	11 45.25	+14 13.1	2.446	3.028	117.4	16.8	16.7
1986	01 20	11 46.83	+15 00.3					
1986	01 30	11 46.14	+16 01.4	2.219	3.017	137.2	12.8	16.4
1986	02 09	11 43.18	+17 13.0					
1986	02 19	11 38.11	+18 30.0	2.071	3.005	156.9	7.4	16.1
1986	03 01	11 31.40	+19 45.2					
1986	03 11	11 23.74	+20 51.2	2.029	2.994	163.3	5.5	16.0
1986	03 21	11 16.01	+21 41.5					
1986	03 31	11 09.09	+22 12.0	2.098	2.983	146.6	10.6	16.2
1986	04 10	11 03.68	+22 21.6					
1986	04 20	11 00.30	+22 10.9	2.257	2.972	127.0	15.7	16.5
1986	04 30	10 59.13	+21 42.3					
1986	05 10	11 00.18	+20 58.6	2.475	2.961	108.9	18.8	16.8
1986	05 20	11 03.31	+20 02.4					
1986	05 30	11 08.29	+18 56.0	2.721	2.950	92.8	20.1	17.0