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EDITORIAL NOTICE.

As noted on MPC 18847, there will be no MPCs in December. The next batch will appear on or about 1992 Jan. 19, with all observations, orbital elements and ephemerides given in the FK5/J2000.0 reference system (and the epoch 1992 June 27.0 TT for perturbed orbital elements). In order to accommodate this change, during the next several weeks the Minor Planet Center will generally not be able to respond to scientific enquiries or to supply identifications or designations or orbits or ephemerides for new discoveries. Observers are urged to use this break to convert their own procedures to yield J2000.0 positions according to the format described on MPC 18848-18849, although B1950.0 can still be accepted (and converted by the Minor Planet Center) for a limited time. Most orbit computers should now have a copy of the corresponding formats for J2000.0 orbits; B1950.0 orbital elements can no longer be accepted, and the Minor Planet Center reserves the right not to accept J2000.0 orbital elements that are not in its new format.

This batch of MPCs includes the results of the "First Trojan Survey" (T-1). Orbital elements are given for 695 objects with T-1 designations, of which 56 involve identifications at other oppositions and the observations of which are also being published; the 3955 observations of the 639 single-opposition cases will be incorporated in the next edition of the Minor Planet Center's magnetic tape of observational data. The observations given here of six numbered objects are supplemented by those in the MPCs for 1990 Oct. 4, 1991 Sept. 23 and Oct. 23 of 87 other numbered objects. The observations here of 18 previously-designated unnumbered objects are supplemented by those of 38 more in the 1991 Sept. 23 MPCs; one single-opposition and eight multiple-opposition orbits (five of them now allowing objects to be numbered) are also included here. The total number of objects in the survey is therefore 846.

On MPC 19332-19342 there is the first set of names of minor planets approved by IAU Commission 20's expanded Minor Planet Names Committee (viz. MPC 18486), the members of which are K. Aksnes, A. Carusi, Y. Kozai, B. G. Marsden, L. D. Schmadel, V. A. Shor and D. K. Yeomans. These MPCs also contain the numbering of minor planet (5000), the name of which was selected a few months ago by the entire membership of IAU Commission 20. The Minor Planet Names Committee has unanimously agreed to apply the second choice of the Commission 20 membership to minor planet (4000), and it has also named a few other objects (in accordance with the resolution on MPC 18485-18486).

As for the 1991 edition, the 1992 edition of the annual "Ephemerides of Minor Planets", published by the Institute of Theoretical Astronomy in St.

Petersburg, will mainly be distributed in the western world by the White Nights Trading Co., 520 N.E. 83rd Street, Seattle, WA 98115, U.S.A. (FAX 206-523-0851). The price, inclusive of shipping and handling, will be \$38.00 (U.S.), \$43.00 (Canada), \$51.00 (Europe) and \$58.00 (Japan and Australia). Shipment from the U.S.S.R. has been delayed, but it is anticipated that copies will be available by the beginning of 1992. As suggested on MPC 16765, only a very limited number of copies will be available for distribution by the Minor Planet Center, and it will not be possible to accommodate all the MPC subscribers who have requested the EMP at the bargain \$3.00 price. This amount will be credited to those whose orders cannot be met, and they will be specifically informed of this.

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ERRATA.

MPC	Line	
18879	27	For D-6330 read W-6330
19034	-18	For 2448500.5 read 2448520.5
19037	1	Add the epoch line (1991 Dec. 10) and computer Williams.

* * * * *

CORRECTED OBSERVATIONS.

The following observations correct those previously published.

Object	Date	UT	R. A. (1950)	Decl.	Reference	Mag.	N	Obs.
1983 TF2 *	1983 10	05.00235	00 02 09.65	-01 12 16.1	MPC10063	18		010
1983 TF2	1983 10	05.02318	00 02 06.48	-01 12 19.6	MPC10063			010
1983 TF2	1983 10	07.95500	23 54 24.57	-01 22 31.3	MPC10081			010
1983 TF2	1983 10	07.96889	23 54 22.51	-01 22 31.8	MPC10081			010
1983 TF2	1983 10	07.97583	23 54 21.17	-01 22 32.9	MPC10081			010
1983 TF2	1983 10	07.98278	23 54 20.32	-01 22 33.4	MPC10081			010
1983 TF2	1983 10	08.96008	23 51 41.81	-01 25 45.5	MPC10081			010
1983 TF2	1983 10	08.97751	23 51 39.34	-01 25 47.7	MPC10081			010
1983 TF2	1983 10	09.01902	23 51 31.89	-01 25 54.0	MPC10081			010
1986 TK4	1986 10	02.31743	02 07 27.20	+07 34 49.2	MPC11403		1	657
1991 RP1 *	1991 09	10.68264	00 46 14.67	+12 08 47.9	MPC18870	17.5		402
1991 RP1	1991 09	10.69792	00 46 13.83	+12 08 49.2	MPC18870			402
348	1934 02	03.97603	04 00 55.58	+18 45 58.2	MPC18747			801
348	1934 02	04.05913	04 00 57.48	+18 46 17.6	MPC18747			801

Note 1: 1986 TK4 = (4895).

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DELETED OBSERVATION.

The following observation is to be deleted.

Object	Date	UT	R. A. (1950)	Decl.	Reference	Obs.
1971 FD	1971 04	16.26458	12 01 07.24	-00 52 07.4	MPC 3321	675

* * * * *

IDENTIFICATION CHANGES.

Continuation to MPC 18850.

Object	Date	UT	R. A. (1950)			Decl.	Old desig.	Mag.	N	Obs.
A911 UK *	1911 10	27.32532	01 16 25.95	-07 28 56.5		719			662	
1974 LG *	1974 06	13.87741	16 19 05.04	-22 28 27.9		1974 KE	16.0		095	
1988 PD5 *	1988 08	13.86042	16 28 21.12	-10 07 43.8		1987 CJ	18.0		511	
1988 PD5	1988 08	13.88125	16 28 21.57	-10 07 45.3		1987 CJ			511	
1990 KJ2 *	1990 05	25.17083	13 19 12.76	-10 25 11.0		1988 UB			675	
1990 RU17*	1990 09	14.18611	00 16 35.11	-03 21 20.2		1990 SJ8	20.0		809	
1990 RU17	1990 09	14.19931	00 16 34.27	-03 21 23.3		1990 SJ8			809	
1990 RU17	1990 09	14.21250	00 16 33.64	-03 21 28.9		1990 SJ8			809	
1990 UH11*	1990 10	22.14306	23 23 29.05	-01 45 16.9		1990 RC3	17.8		675	
1990 UH11	1990 10	22.17517	23 23 28.40	-01 45 23.4		1990 RC3			675	
1991 RQ8 *	1991 09	13.55313	00 43 56.82	+04 30 47.4		1991 RT7	17.0		400	
1991 RQ8	1991 09	13.57049	00 43 56.04	+04 30 44.8		1991 RT7			400	
1991 SK1 *	1991 09	30.50243	00 29 53.07	+03 06 41.4		1991 RT7	16.5		400	
1991 SK1	1991 09	30.51840	00 29 52.05	+03 06 37.2		1991 RT7			400	

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DOUBLE DESIGNATIONS.

Continuation to MPC 18666.

	Note		Note		Note
1990 UY5 = 1990 UA8	1	1990 UU7 = 1990 UB8	1	1990 UV7 = 1990 UC8	1
1990 UF8 = 1990 UY9	2				

Note 1: by S. Nakano. 2: by G. V. Williams.

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INDEX TO ORBITAL ELEMENTS.

The following index to orbital elements continues that on MPC 18002-18010 and refers to orbits of both comets and minor planets published since then. Only the latest orbit for each object is indexed, and multiple-designation minor planets are listed only under the principal designation.

Comet	MPC	Comet	MPC	Comet	MPC	Comet	MPC
/1986 VIII	18598	/1990g	18255	/1991a	18597	/1991b	18081
/1991d	18256	/1991e	18255	/1991f	18255	/1991j	18081
/1991k	18256	/1991l	18395	/1991o	18598	/1991p	18598
/1991q	18773	/1991r	18773	/1991t	18598	/1991v	18995
/1991w	18994	/1991x	18995				

Comet	MPC	Comet	MPC
P/Borrelly	18259	P/Brooks 2	18259
P/Bus	18257	P/Encke	18256
P/Harrington	18258	P/Hartley 3	18257
P/Kohoutek	18258	P/Kojima	18256
P/Maury	18257	P/Reinmuth 2	18258
P/Russell 2	18259	P/Schwassmann-Wachmann 1	18255
P/Schwassmann-Wachmann 2	18256	P/Tempel 1	18258
P/Tempel 2	18257	P/Tuttle	18257
P/Whipple	18259	P/Wild 3	18258

Planet	MPC	Planet	MPC	Planet	MPC	Planet	MPC	Planet	MPC
(193)	18999	(207)	18084	(271)	18999	(287)	18600	(328)	18084
(333)	18084	(348)	18264	(373)	18398	(410)	18085	(412)	18999
(522)	18085	(635)	18085	(638)	18085	(645)	18085	(681)	18085
(708)	18398	(736)	18775	(746)	18085	(793)	18600	(857)	18601
(878)	18400	(893)	18085	(931)	18085	(957)	18085	(980)	18085

(993) 18085	(1004) 18086	(1008) 18086	(1023) 18086	(1032) 18601
(1046) 18601	(1057) 18086	(1117) 18086	(1164) 18999	(1256) 18086
(1284) 18086	(1309) 18086	(1339) 18086	(1341) 18086	(1463) 18086
(1483) 18398	(1510) 18086	(1515) 18087	(1574) 18087	(1592) 18087
(1610) 18601	(1652) 18087	(1655) 18087	(1656) 18601	(1672) 18601
(1705) 18087	(1706) 18087	(1714) 18087	(1740) 18087	(1785) 18601
(1790) 18087	(1793) 18087	(1809) 18087	(1815) 18999	(1869) 18601
(1900) 18088	(1919) 18088	(1932) 18999	(1969) 18999	(1991) 18999
(2106) 18088	(2113) 18775	(2147) 18601	(2148) 18601	(2169) 18999
(2175) 18601	(2178) 18264	(2197) 18775	(2217) 18601	(2218) 18088
(2255) 18602	(2264) 18088	(2265) 18776	(2270) 18088	(2290) 18602
(2291) 18088	(2300) 18776	(2304) 18088	(2306) 18602	(2328) 18776
(2329) 18602	(2334) 18602	(2338) 18999	(2339) 18602	(2349) 18602
(2363) 18602	(2366) 18088	(2367) 18088	(2381) 18776	(2401) 18602
(2403) 18602	(2405) 18999	(2409) 18602	(2411) 18088	(2413) 18602
(2447) 18088	(2484) 18603	(2493) 18603	(2504) 18776	(2505) 18398
(2510) 18089	(2526) 18398	(2533) 18089	(2535) 19000	(2543) 18398
(2544) 18603	(2545) 18776	(2563) 19000	(2571) 19000	(2606) 18776
(2614) 18776	(2653) 18603	(2670) 18398	(2674) 18089	(2676) 18089
(2692) 18776	(2697) 18398	(2702) 18776	(2709) 18089	(2710) 19000
(2711) 18089	(2718) 18089	(2721) 18776	(2727) 18776	(2738) 18777
(2739) 18603	(2748) 18398	(2752) 18777	(2755) 19000	(2761) 18603
(2800) 18603	(2802) 18777	(2807) 19000	(2848) 18398	(2853) 18603
(2854) 18777	(2862) 19000	(2881) 18399	(2884) 18603	(2889) 18777
(2907) 19000	(2913) 18089	(2915) 18399	(2916) 18603	(2918) 18777
(2927) 18603	(2932) 18603	(2933) 18604	(2939) 18399	(2978) 18089
(2980) 18604	(2981) 18604	(2982) 18604	(2993) 18777	(3019) 18777
(3027) 18777	(3032) 18777	(3033) 18604	(3049) 18399	(3110) 18777
(3116) 18604	(3134) 18777	(3135) 18604	(3137) 18089	(3149) 18778
(3160) 18604	(3170) 18604	(3181) 18264	(3191) 18089	(3208) 18089
(3218) 18090	(3229) 18604	(3231) 18604	(3242) 18399	(3247) 18778
(3252) 18604	(3253) 18090	(3254) 18264	(3255) 18778	(3265) 18778
(3274) 18264	(3275) 18090	(3297) 18605	(3319) 18090	(3345) 18605
(3366) 18090	(3370) 18605	(3371) 18778	(3374) 18778	(3394) 18778
(3410) 18778	(3427) 18399	(3435) 18778	(3464) 19000	(3522) 18399
(3524) 18778	(3535) 18090	(3543) 18399	(3552) 18605	(3569) 19000
(3572) 18090	(3580) 18090	(3601) 18778	(3612) 19000	(3620) 18778
(3623) 18605	(3670) 18090	(3696) 18779	(3759) 18779	(3801) 18605
(3807) 18779	(3812) 18605	(3843) 18779	(3845) 18779	(3898) 19000
(3952) 18605	(3954) 18779	(3959) 19001	(3969) 18605	(3972) 18779
(3996) 18399	(4014) 18779	(4025) 19001	(4026) 18779	(4027) 19001
(4040) 18779	(4082) 18090	(4087) 18605	(4088) 19001	(4095) 19001
(4097) 18605	(4114) 18605	(4117) 18606	(4126) 18606	(4145) 19001
(4146) 18606	(4158) 19001	(4161) 18399	(4163) 18606	(4173) 18779
(4206) 18090	(4296) 18264	(4344) 18779	(4365) 18399	(4371) 18606
(4460) 18399	(4529) 18780	(4755) 19001	(4775) 18090	(4776) 18091
(4777) 18092	(4778) 18092	(4779) 18092	(4780) 18093	(4781) 18093
(4782) 18093	(4783) 18094	(4784) 18094	(4785) 18095	(4786) 18095
(4787) 18096	(4788) 18096	(4789) 18096	(4790) 18097	(4791) 18097
(4792) 18097	(4793) 18098	(4794) 18098	(4795) 18098	(4796) 18099
(4797) 18099	(4798) 18100	(4799) 18100	(4800) 18100	(4801) 18101
(4802) 18101	(4803) 18101	(4804) 18102	(4805) 18102	(4806) 18102
(4807) 18103	(4808) 18264	(4809) 18265	(4810) 18265	(4811) 18265
(4812) 18266	(4813) 18266	(4814) 18266	(4815) 18267	(4816) 18267
(4817) 18267	(4818) 18268	(4819) 18269	(4820) 18269	(4821) 18269
(4822) 18270	(4823) 18270	(4824) 18270	(4825) 18271	(4826) 18271
(4827) 18271	(4828) 18272	(4829) 18272	(4830) 18272	(4831) 18273
(4832) 18273	(4833) 18273	(4834) 18274	(4835) 18274	(4836) 18274
(4837) 18275	(4838) 18275	(4839) 18275	(4840) 18276	(4841) 18276

(4842) 18277	(4843) 18277	(4844) 18277	(4845) 18278	(4846) 18278
(4847) 18278	(4848) 18279	(4849) 18400	(4850) 18400	(4851) 18401
(4852) 18401	(4853) 18401	(4854) 18402	(4855) 18402	(4856) 18402
(4857) 18403	(4858) 18403	(4859) 18404	(4860) 18404	(4861) 18404
(4862) 18405	(4863) 18405	(4864) 18405	(4865) 18406	(4866) 18406
(4867) 18407	(4868) 18407	(4869) 18407	(4870) 18408	(4871) 18408
(4872) 18409	(4873) 18409	(4874) 18409	(4875) 18410	(4876) 18410
(4877) 18411	(4878) 18606	(4879) 18606	(4880) 18607	(4881) 18607
(4882) 18607	(4883) 18608	(4884) 18608	(4885) 18608	(4886) 18609
(4887) 18609	(4888) 18610	(4889) 18610	(4890) 18610	(4891) 18611
(4892) 18611	(4893) 18611	(4894) 18612	(4895) 18612	(4896) 18612
(4897) 18613	(4898) 18613	(4899) 18614	(4900) 18614	(4901) 18614
(4902) 18615	(4903) 18615	(4904) 18615	(4905) 18616	(4906) 18616
(4907) 18616	(4908) 18780	(4909) 18780	(4910) 18780	(4911) 18781
(4912) 18781	(4913) 18782	(4914) 18782	(4915) 18782	(4916) 18783
(4917) 18783	(4918) 18783	(4919) 18784	(4920) 18784	(4921) 18784
(4922) 18785	(4923) 18785	(4924) 18786	(4925) 18786	(4926) 18786
(4927) 18787	(4928) 18787	(4929) 18788	(4930) 18788	(4931) 18788
(4932) 18789	(4933) 18789	(4934) 18790	(4935) 18790	(4936) 18790
(4937) 18791	(4938) 18791	(4939) 18792	(4940) 18792	(4941) 18793
(4942) 18793	(4943) 18794	(4944) 18794	(4945) 18794	(4946) 18795
(4947) 18795	(4948) 18796	(4949) 18796	(4950) 18796	(4951) 18797
(4952) 18797	(4953) 18797	(4954) 18798	(4955) 18799	(4956) 18799
(4957) 18799	(4958) 18800	(4959) 18800	(4960) 18801	(4961) 19001
(4962) 19002	(4963) 19002	(4964) 19002	(4965) 19003	(4966) 19003
(4967) 19004	(4968) 19004	(4969) 19004	(4970) 19005	(4971) 19005
(4972) 19006	(4973) 19006	(4974) 19006	(4975) 19007	(4976) 19007
(4977) 19007	(4978) 19008			

Planet	MPC	Planet	MPC	Planet	MPC	Planet	MPC
1929 VS	18617	1930 UX	19008	1931 VS	19008	1932 CY	18617
1937 NN	19009	1938 HA	18617	1950 DO	18279	1953 GN	19009
1953 TA1	19009	1957 VA	18279	1964 BF	19010	1965 DC	18618
1967 JP	18103	1967 KB	18104	1969 TA	18280	1969 UP1	18412
1970 JB	18412	1971 UD1	18618	1972 RF	18801	1972 RX1	19010
1973 SD1	18412	1973 SO1	18280	1973 UR5	19010	1974 PC	18802
1975 LR	19010	1975 NC	18280	1975 SJ	18280	1975 SF1	18281
1975 TR2	19010	1975 VB1	18281	1975 VW2	18281	1975 VR5	18802
1976 GN2	19011	1976 QN	18413	1976 SK3	18802	1976 UD4	19011
1976 YA6	18413	1977 AW2	18413	1977 CP	18260	1977 EL	19011
1977 EC2	18618	1977 EA6	19012	1977 FN	19012	1977 NK	18413
1977 NN	18618	1977 PE1	18414	1977 QL1	18082	1977 QN2	18619
1977 QY3	18414	1977 RG	18802	1977 RD2	18414	1977 UM4	18082
1977 UO5	18082	1978 CH	18104	1978 EN10	18104	1978 LG	18281
1978 NY7	18619	1978 PJ2	18281	1978 RH9	18802	1978 RD10	18803
1978 SO4	18414	1978 SP4	18104	1978 SL6	19012	1978 VG5	18282
1978 VK5	18415	1978 VB6	18619	1978 VT8	18619	1978 WB	18620
1978 WS	18995	1978 WU	19012	1978 WD15	18995	1978 WB16	18995
1979 DF	18105	1979 HH3	19013	1979 MY2	18105	1979 MR3	18282
1979 MB4	18803	1979 MX5	18803	1979 MK6	18804	1979 MO7	18105
1979 MU8	18620	1979 OB	18415	1979 QB10	18620	1979 SD	18260
1979 SW2	19013	1979 SU11	18804	1979 SP13	18415	1979 SR13	18260
1979 SP14	18282	1979 SE15	18260	1979 UC4	18804	1979 XQ	18415
1980 DD1	19013	1980 EF	18804	1980 FT3	18805	1980 GG	18620
1980 GL	18082	1980 GM	18082	1980 GO	18106	1980 KD	18106
1980 PQ	18082	1980 PU	18082	1980 PB1	19013	1980 RP	18805
1980 RC1	18416	1980 RL2	19014	1980 RL7	18416	1980 RB8	19014
1980 TX3	18282	1980 TW5	19014	1980 TK6	18621	1980 TQ14	18805
1980 UC	19014	1980 UL	19015	1980 VW2	18082	1980 VX2	18082

1980 VA3	18107	1980 VD3	18082	1980 WE5	18773	1981 DZ	18805
1981 DT2	18806	1981 DB3	19015	1981 ES4	18806	1981 ED6	18417
1981 EO9	18107	1981 EA12	18806	1981 EK12	18417	1981 EQ12	18417
1981 EM13	18417	1981 ET13	18418	1981 EH19	18107	1981 EM19	18418
1981 EX19	18418	1981 EW20	18621	1981 EL24	18419	1981 EQ24	18419
1981 EY27	18807	1981 ES29	18419	1981 EJ40	18420	1981 EO42	18420
1981 ED43	18420	1981 EF47	18421	1981 ET47	18807	1981 EF48	18107
1981 GM1	19015	1981 QX	18421	1981 QQ2	19015	1981 QP3	19016
1981 RJ5	18108	1981 SE	18621	1981 SY1	18807	1981 SQ2	18808
1981 SZ6	18621	1981 SW7	18421	1981 TT	18808	1981 TM3	18808
1981 VU	18108	1981 YO1	18622	1982 DQ6	18422	1982 FP3	18622
1982 JR1	18622	1982 QM	19016	1982 SG4	18622	1982 SL6	19017
1982 UV1	18422	1982 UD2	18422	1982 UQ6	18808	1982 UB7	18623
1982 VA1	18283	1982 VV10	18283	1982 VK12	18423	1983 AB	18623
1983 AW	18108	1983 AA3	18808	1983 EB1	18108	1983 GR	18423
1983 HB1	18623	1983 JQ	18809	1983 LL	18423	1983 NR	18424
1983 RL	19017	1983 RZ1	18109	1983 RM2	18624	1983 RC4	18624
1983 RL4	18424	1983 RC5	18283	1984 BS	18424	1984 EG	18624
1984 HL1	18624	1984 HP1	19017	1984 MR	18809	1984 SG1	18109
1984 SN4	18109	1984 SW5	18625	1984 SH6	18625	1984 TD	18110
1984 UT	18424	1984 UD3	19017	1985 BH	19018	1985 CH1	18284
1985 CY1	18425	1985 CC2	18809	1985 DC1	18425	1985 DX2	18425
1985 FZ	18260	1985 JX1	18110	1985 PQ	18426	1985 QL4	19018
1985 QM5	18426	1985 RZ1	18426	1985 RL3	18110	1985 SC3	19018
1985 TO	18284	1985 TB1	18284	1985 TA2	18284	1985 TG3	18626
1985 UQ	19018	1985 UK3	18285	1985 VD	18285	1985 VE	19019
1985 VL	18110	1985 YH	18285	1986 GV	18626	1986 JC	18427
1986 JQ	18110	1986 PC1	18810	1986 PS4	18810	1986 QS1	18285
1986 QQ2	18286	1986 RY5	18810	1986 SD2	18810	1986 TN1	18286
1986 TB5	18811	1986 TZ11	19019	1986 UU	18427	1986 UY	18111
1986 VT	19019	1986 VG1	18111	1986 VF5	19019	1986 WP8	19019
1987 BB	18626	1987 DC6	18626	1987 DD6	18811	1987 DF6	18286
1987 EQ	18811	1987 EV	18627	1987 HB1	18598	1987 JG	18812
1987 KD1	18427	1987 ML1	18427	1987 MM1	18287	1987 QF3	19020
1987 QW7	19020	1987 RT3	18812	1987 RU3	18112	1987 RV3	18288
1987 SC1	18812	1987 SQ1	19020	1987 SB3	18112	1987 SM4	18812
1987 SC6	18428	1987 SO9	18288	1987 ST11	18813	1987 SN12	18813
1987 UW	19021	1987 UW1	19021	1987 VA1	18428	1987 WS	18428
1987 WT1	19021	1987 WS3	18627	1987 YL1	18627	1988 AF	18628
1988 AV1	18429	1988 BH	18773	1988 BJ	18288	1988 BX1	18628
1988 BY1	18628	1988 BN2	18112	1988 CA	18629	1988 CG	18429
1988 CA1	18813	1988 CC2	18289	1988 CC6	18995	1988 CF7	18113
1988 DE	18995	1988 EL	19021	1988 ER2	18629	1988 FK	19022
1988 HE	18814	1988 HF	18113	1988 PV	18629	1988 PF1	18289
1988 PG1	18289	1988 PZ1	18113	1988 PH4	18429	1988 RO	19022
1988 RF1	18629	1988 RG1	18290	1988 RR2	18114	1988 RM3	18598
1988 RO3	18598	1988 RP3	18598	1988 RZ3	18598	1988 RD5	18290
1988 RS6	19022	1988 RK8	18114	1988 RF9	18630	1988 RO11	19022
1988 RT11	18114	1988 RJ13	18630	1988 SO1	18114	1988 SW2	18115
1988 TA1	18429	1988 TH1	18430	1988 TJ2	18291	1988 UC	18430
1988 UF	18773	1988 UH	18291	1988 UT	19023	1988 VK	19023
1988 VN	18291	1988 VL3	18773	1988 VN3	19023	1988 VP3	18814
1988 VN4	18814	1988 VS4	18430	1988 VR5	18815	1988 VE7	19024
1988 VM9	18815	1988 WF	18598	1988 XK	19024	1988 XO	18630
1988 XE1	18631	1988 XH1	18430	1988 XU1	18815	1988 XV1	18598
1988 YB	18115	1989 AM1	18291	1989 AU1	18816	1989 AV2	18431
1989 AN6	18816	1989 AY6	18115	1989 AF7	18116	1989 BL	18431
1989 BW	18431	1989 BB1	18631	1989 BR1	19024	1989 CA	19024
1989 CL1	18816	1989 CK2	19025	1989 CW2	18631	1989 CJ5	19025

1989 EM	18116	1989 ES	18816	1989 EY1	18431	1989 GJ	18817
1989 GL1	18292	1989 GT3	18292	1989 GF4	18116	1989 HA	18995
1989 HD	18995	1989 KE	18995	1989 KF	18995	1989 MQ	18260
1989 NC	18260	1989 PA	18292	1989 PE	18292	1989 RJ	18432
1989 RO2	18432	1989 RS2	18260	1989 SG1	18117	1989 SL1	18117
1989 SV1	18117	1989 SA3	19025	1989 SR4	18293	1989 SN5	18631
1989 ST10	18260	1989 SL12	18118	1989 SY13	18082	1989 SZ13	18082
1989 SA14	18082	1989 SB14	18082	1989 SC14	18082	1989 SE14	18082
1989 SF14	18082	1989 SG14	18082	1989 TN	19025	1989 TM1	18598
1989 TT1	19026	1989 TN11	18082	1989 TL15	19026	1989 TZ15	18432
1989 TB18	18082	1989 TC18	18082	1989 TD18	18082	1989 UF	18432
1989 UL	18293	1989 UT	18293	1989 UX	18599	1989 UH1	18118
1989 UH2	18293	1989 UO2	18599	1989 US2	18599	1989 UB3	18260
1989 UD3	18599	1989 UU3	18632	1989 UY3	18817	1989 UP4	18599
1989 UQ4	18599	1989 US4	18599	1989 UC5	18118	1989 UO5	18119
1989 UU5	18599	1989 UW5	18599	1989 UZ5	18599	1989 UA6	18294
1989 UC6	18599	1989 VL5	18599	1989 VN5	18599	1989 WC	18119
1989 WD	18294	1989 WS	18599	1989 WN1	18294	1989 WD3	18632
1989 WH4	18294	1989 WK7	18260	1989 WL7	18295	1989 YV4	18119
1989 YO5	18119	1989 YB6	18817	1989 YS6	19026	1989 YK8	18295
1990 BG	18817	1990 BS	18260	1990 BU	18632	1990 BX	18260
1990 BS1	18632	1990 BE2	18120	1990 CH	18818	1990 DA	18818
1990 DK	18433	1990 DL	18819	1990 DK3	18819	1990 DU3	19027
1990 EO	18819	1990 EU	19027	1990 ES1	18819	1990 FD1	18820
1990 FQ1	18995	1990 FW1	18820	1990 FJ2	18260	1990 GN	18120
1990 HA	18820	1990 HK	18995	1990 HP	18120	1990 HF1	18633
1990 KC1	18295	1990 KG2	18820	1990 MG	18121	1990 MJ	18821
1990 MR	18121	1990 OD	19027	1990 OY	18773	1990 OB1	18599
1990 OD1	18773	1990 OS1	18599	1990 OW1	18599	1990 OX1	18599
1990 OY1	18599	1990 OA2	18599	1990 OB2	18633	1990 OC2	18774
1990 OD2	18774	1990 OF2	18599	1990 OH2	18599	1990 OK2	18633
1990 OM2	18599	1990 ON2	18599	1990 OO2	18599	1990 OV2	18599
1990 OF3	18599	1990 OK3	18599	1990 OO3	18599	1990 OR3	18599
1990 OT3	18599	1990 OY3	18599	1990 OE4	18295	1990 QG	18633
1990 QD2	18821	1990 QG2	18821	1990 QN2	18121	1990 QS3	18082
1990 QU3	18599	1990 QB4	18822	1990 QE4	18599	1990 QM5	18599
1990 QN5	18599	1990 QO5	18599	1990 QP5	18995	1990 QU5	18296
1990 QW5	18260	1990 QX5	18260	1990 QY5	18260	1990 QL6	18082
1990 QO6	18122	1990 QP6	18082	1990 QQ6	18082	1990 QS6	18082
1990 QU6	18082	1990 QV6	18082	1990 QB7	18082	1990 QD7	18082
1990 QK7	18082	1990 QM7	18082	1990 QO7	18082	1990 QO7	18082
1990 QR7	18082	1990 QS7	18082	1990 QU7	18082	1990 QY7	18296
1990 QA8	18297	1990 QB8	18083	1990 QC8	18297	1990 QE8	18995
1990 QF8	18083	1990 QH8	18995	1990 QK8	18083	1990 QN8	18083
1990 QO8	18083	1990 QP8	18083	1990 QQ8	18083	1990 QR8	18083
1990 QT8	18995	1990 QU8	18083	1990 QY8	18083	1990 QZ8	18297
1990 QB9	18083	1990 QF9	18083	1990 QG9	18083	1990 QH9	18995
1990 QJ9	18083	1990 QK9	18083	1990 QL9	18083	1990 QM9	18995
1990 QN9	18995	1990 QO9	18083	1990 QR9	18995	1990 RG	18995
1990 RQ2	18122	1990 RW2	18995	1990 RX2	18995	1990 RH3	18995
1990 RG5	18995	1990 RJ5	18995	1990 RK5	18995	1990 RF6	18599
1990 RG6	18599	1990 RW6	18995	1990 RZ6	18995	1990 RE7	18995
1990 RF7	18083	1990 RK7	18083	1990 RL7	18083	1990 RM7	18083
1990 RC8	18995	1990 RN8	18995	1990 RO8	18083	1990 RD9	18599
1990 RP9	18261	1990 RQ9	18261	1990 RV9	18599	1990 RX9	18599
1990 RL10	18599	1990 RH15	18995	1990 SB	18822	1990 SP	18122
1990 SS	18122	1990 SG4	18822	1990 SU4	18599	1990 SM6	18123
1990 ST6	18297	1990 SN7	18123	1990 SP7	18123	1990 SU8	18298
1990 SV12	18123	1990 SV13	18124	1990 SX13	18995	1990 SQ14	18995

1990 SW14	18599	1990 ST15	18261	1990 SU15	18395	1990 SV15	18261
1990 SH16	18599	1990 SJ16	18261	1990 SN16	18995	1990 SO16	18599
1990 SQ16	19027	1990 SS16	18774	1990 ST16	18774	1990 SU16	18774
1990 SW16	18774	1990 SX16	19028	1990 TC	18124	1990 TR	18634
1990 TY	18083	1990 TD1	18261	1990 TQ1	18823	1990 TB3	18261
1990 TU4	18995	1990 TE7	18823	1990 TF8	18599	1990 TU10	18433
1990 TV12	18124	1990 UC	18261	1990 UK	18261	1990 UV	18261
1990 UC1	18395	1990 UZ1	18261	1990 UA2	18261	1990 UD2	18083
1990 UE2	18083	1990 UF2	18823	1990 UG3	18634	1990 UL4	18261
1990 UM4	18261	1990 UW5	18261	1990 VA	18823	1990 VE	18774
1990 VH1	18298	1990 VU1	18634	1990 VY1	18261	1990 VF2	18298
1990 VK2	18261	1990 VS2	18599	1990 VX2	18823	1990 VH3	18083
1990 VM3	18261	1990 VH4	18433	1990 VK4	18261	1990 VL4	18261
1990 VM4	18261	1990 VN4	18261	1990 VO4	18261	1990 VQ4	18261
1990 VR4	18261	1990 VS4	18434	1990 VT4	18261	1990 VX4	18261
1990 VZ4	18434	1990 VA5	18261	1990 VD5	18083	1990 VF5	18261
1990 VG5	18261	1990 VH5	18261	1990 VK5	18261	1990 VL5	18261
1990 VM5	18261	1990 VN5	18261	1990 VO5	18261	1990 VQ5	18261
1990 VR5	18261	1990 VS5	18298	1990 VT5	18261	1990 VU5	18261
1990 VV5	18995	1990 VX5	18261	1990 VY5	18261	1990 VZ5	18261
1990 VB6	18261	1990 VC6	18261	1990 VD6	18434	1990 VE6	18261
1990 VF6	18261	1990 VG6	18261	1990 VH6	18261	1990 VJ6	18261
1990 VK6	18261	1990 VL6	18262	1990 VN6	18262	1990 VO6	18262
1990 VP6	18262	1990 VQ6	18262	1990 VR6	18262	1990 VS6	18434
1990 VT6	18262	1990 VW6	18262	1990 VL8	18299	1990 VO8	18262
1990 VQ8	18262	1990 VR8	18262	1990 VU8	18262	1990 VV8	18262
1990 VW8	18599	1990 WA	18824	1990 WE	18262	1990 WF	18262
1990 WM	18262	1990 WQ	18262	1990 WS	18262	1990 WV	18262
1990 WW	18262	1990 WZ	18262	1990 WD1	18262	1990 WE1	18262
1990 WG1	18262	1990 WH1	18262	1990 WJ1	18262	1990 WK1	18262
1990 WM1	18262	1990 WN1	18262	1990 WO1	18262	1990 WP1	18262
1990 WR1	18262	1990 WS1	18262	1990 WU1	18262	1990 WV1	18262
1990 WW1	18262	1990 WX1	18262	1990 WZ1	18262	1990 WB2	18435
1990 WC2	18262	1990 WD2	18262	1990 WE2	18435	1990 WF2	18262
1990 WH2	18262	1990 WJ2	18262	1990 WW2	18824	1990 WZ2	18825
1990 WJ3	18262	1990 WK3	18262	1990 WM3	18262	1990 WN3	18262
1990 WP3	18262	1990 WQ3	18262	1990 WX3	18262	1990 WC4	18262
1990 WD4	18262	1990 WF4	18262	1990 WH4	18262	1990 WJ4	18262
1990 WL4	18262	1990 WM4	18262	1990 WN4	18263	1990 WO4	18263
1990 WP4	18435	1990 WQ4	18263	1990 WS4	18435	1990 WV4	18263
1990 WX4	18263	1990 WY4	18995	1990 WA5	18263	1990 WB5	18263
1990 WD5	18263	1990 WE5	18263	1990 WF5	18263	1990 WG5	18263
1990 WL5	18083	1990 WR5	18263	1990 WU5	18263	1990 WY5	18263
1990 WK6	18263	1990 WQ6	18263	1990 WT6	18263	1990 WB7	18263
1990 XM	18299	1990 XZ	18635	1990 YA	18436	1990 YM	18436
1991 AF	18125	1991 AJ	18083	1991 AB1	18083	1991 AR1	18635
1991 AS1	18436	1991 AU1	18083	1991 AD2	18125	1991 AQ2	18083
1991 AW2	18083	1991 AJ3	18125	1991 AO3	18125	1991 BB	18825
1991 BE	18083	1991 BV	18436	1991 BM2	18436	1991 BA3	18083
1991 BB3	18599	1991 BC3	18083	1991 BE3	18083	1991 CB	18126
1991 CN	18083	1991 CQ	18825	1991 CS	18126	1991 CU	18083
1991 CW	18083	1991 CY	18299	1991 CZ	18437	1991 CA1	18083
1991 CC1	18083	1991 CD1	18126	1991 CN1	18126	1991 CA2	18635
1991 CU2	18083	1991 CW2	18083	1991 CA3	18127	1991 CK3	18083
1991 CL3	18127	1991 CM3	18127	1991 CO3	18437	1991 DA	18437
1991 DB	18437	1991 DG	18825	1991 DM	18084	1991 DO	18128
1991 DS	19028	1991 DT	18084	1991 DU	18084	1991 DW	18084
1991 DX	18128	1991 DY	18084	1991 DF1	18084	1991 DH1	18084
1991 DK1	18263	1991 DM1	18263	1991 DN1	18263	1991 EA	18128

1991 EB	18995	1991 EC	18084	1991 ED	18128	1991 EE	18825
1991 EG	18129	1991 EH	18084	1991 EJ	18084	1991 EK	18084
1991 EL	18437	1991 EM	18084	1991 EN	18438	1991 ER	18084
1991 EU	18129	1991 EA1	18636	1991 EE1	18300	1991 EG1	18263
1991 EH1	18084	1991 EJ1	18263	1991 EK1	18263	1991 EM1	18395
1991 EO1	18395	1991 ES1	18395	1991 FA	18438	1991 FB	18300
1991 FC	18395	1991 FD	18774	1991 FE	18300	1991 FF	18301
1991 FG	18438	1991 FH	18826	1991 FJ	18263	1991 FK	18263
1991 FL	18130	1991 FM	18301	1991 FN	18395	1991 FO	18395
1991 FP	18395	1991 FS	18263	1991 FT	18084	1991 FU	18438
1991 FV	18301	1991 FX	18263	1991 FY	18084	1991 FZ	18084
1991 FD1	18084	1991 FE1	18263	1991 FF1	18301	1991 FJ1	18263
1991 FK1	18396	1991 GA	18130	1991 GC	18396	1991 GD	18438
1991 GH	18263	1991 GJ	18263	1991 GK	18302	1991 GL	18263
1991 GN	18599	1991 GO	18302	1991 GQ	18396	1991 GR	18396
1991 GV	18774	1991 GW	18263	1991 GY	18302	1991 GZ	18439
1991 GA1	18439	1991 GB1	18636	1991 GC1	18396	1991 GG1	18439
1991 GH1	18263	1991 GJ1	18263	1991 GO1	18396	1991 GP1	18826
1991 GQ1	18396	1991 GR1	18396	1991 GV1	18440	1991 GW1	18599
1991 GX1	18440	1991 GZ1	18996	1991 GA2	18996	1991 GB2	18440
1991 GC2	18996	1991 GD2	18396	1991 GE2	18636	1991 GQ2	18636
1991 GR2	18396	1991 GS2	18396	1991 GT2	18396	1991 GV2	18396
1991 GY2	18396	1991 GA3	18396	1991 GB3	18396	1991 GE3	18396
1991 GH3	18396	1991 GL3	18396	1991 GP3	18396	1991 GQ3	18396
1991 GU3	18396	1991 GV3	18396	1991 GW3	18396	1991 GY3	18396
1991 GA4	18396	1991 GJ4	18396	1991 GK4	18396	1991 GO4	18396
1991 GP4	18396	1991 GQ4	18396	1991 GR4	18396	1991 GS4	18396
1991 GT4	18396	1991 GU4	18396	1991 GV4	18396	1991 GY4	18396
1991 GZ4	18396	1991 GB5	18396	1991 GG5	18396	1991 GH5	18396
1991 GK5	18396	1991 GN5	18396	1991 GP5	18396	1991 GQ5	18396
1991 GS5	18396	1991 GT5	18396	1991 GV5	18396	1991 GW5	18396
1991 GY5	18396	1991 GZ5	18397	1991 GA6	18397	1991 GB6	18397
1991 GC6	18637	1991 GG6	18397	1991 GN6	18397	1991 GO6	18397
1991 GP6	18397	1991 GQ6	18397	1991 GS6	18397	1991 GU6	18397
1991 GV6	18397	1991 GA7	18397	1991 GB7	18397	1991 GC7	18637
1991 GG7	18397	1991 GH7	18397	1991 GL7	18397	1991 GM7	18397
1991 GO7	18397	1991 GP7	18397	1991 GQ7	18397	1991 GR7	18397
1991 GU7	18397	1991 GV7	18397	1991 GX7	18397	1991 GY7	18397
1991 GZ7	18397	1991 GD8	18397	1991 GE8	18397	1991 GF8	18397
1991 GH8	18397	1991 GJ8	18397	1991 GK8	18397	1991 GL8	18397
1991 GM8	18397	1991 GO8	18397	1991 GP8	18397	1991 GQ8	18397
1991 GS8	18397	1991 GT8	18397	1991 GV8	18637	1991 GW8	18397
1991 GY8	18397	1991 GT9	18397	1991 GU9	18440	1991 GY9	18637
1991 GZ9	18637	1991 GA10	18599	1991 GD10	18599	1991 GE10	18599
1991 GF10	18599	1991 GG10	18826	1991 GH10	18600	1991 GJ10	18600
1991 GK10	18600	1991 GL10	18600	1991 GM10	18600	1991 GN10	18600
1991 GO10	18600	1991 GP10	18826	1991 GQ10	18826	1991 GR10	18600
1991 GS10	18600	1991 GU10	18600	1991 GV10	18600	1991 HA	18397
1991 HC	18397	1991 HD	18302	1991 HG	18440	1991 HH	18441
1991 HK	18397	1991 HM	18397	1991 HN	18774	1991 HO	18441
1991 JA	18441	1991 JC	18397	1991 JD	18397	1991 JF	18397
1991 JG	18638	1991 JJ	18442	1991 JL	18442	1991 JM	18264
1991 JN	18264	1991 JP	18397	1991 JQ	18397	1991 JR	18442
1991 JT	18303	1991 JU	18442	1991 JV	18264	1991 JW	18827
1991 JX	18827	1991 JY	18638	1991 JZ	18397	1991 JA1	18638
1991 JB1	18443	1991 JD1	18639	1991 JE1	18443	1991 JF1	18600
1991 JG1	18639	1991 JH1	18444	1991 JK1	18600	1991 JN1	18639
1991 JP1	18398	1991 JS1	18639	1991 JT1	18600	1991 JW1	18996
1991 JY1	18827	1991 JZ1	18827	1991 JJ2	18600	1991 JR2	18640

1991 KA	18640	1991 KC	18600	1991 KD	18996	1991 KE	18774
1991 LA	18398	1991 LB	18600	1991 LD	18640	1991 LH	18640
1991 LM	18600	1991 LN	18600	1991 LQ	18600	1991 LR	18600
1991 LV	18996	1991 LW	18641	1991 LY	18600	1991 LZ	18774
1991 LA1	18600	1991 LC1	18641	1991 LE1	18600	1991 LH1	18996
1991 LO1	18996	1991 LU1	18996	1991 LW1	18996	1991 LY1	18996
1991 LD2	18996	1991 LE2	18996	1991 LJ2	18996	1991 LK2	18996
1991 LL2	18996	1991 LP2	18996	1991 LV2	18996	1991 LJ3	18996
1991 LM3	18996	1991 LB4	18996	1991 MA	18641	1991 NA	18996
1991 NF	18774	1991 NG	18774	1991 NK	18774	1991 NL	18774
1991 NM	18774	1991 NP	18774	1991 NQ	18827	1991 NS	18774
1991 NU	18774	1991 NY	18641	1991 NB1	18774	1991 NC1	18774
1991 NE1	18774	1991 NG1	18828	1991 NH1	18828	1991 NJ1	18774
1991 NK1	19028	1991 NL1	18828	1991 NS1	19028	1991 NV1	18774
1991 NW1	18600	1991 NX1	18828	1991 NA2	18829	1991 NO2	18996
1991 NP2	19029	1991 NR2	18996	1991 NS2	19029	1991 OA	18829
1991 OO	18774	1991 OR	18774	1991 OU	18774	1991 OV	18996
1991 OW	19029	1991 OY	18774	1991 OZ	19029	1991 PA	18774
1991 PB	18774	1991 PE	18829	1991 PJ	19029	1991 PK	19030
1991 PL	18996	1991 PQ	18774	1991 PS	18774	1991 PU	18774
1991 PV	18774	1991 PW	18774	1991 PC1	18996	1991 PG1	18774
1991 PK1	18996	1991 PN1	18774	1991 PO1	18774	1991 PP1	18774
1991 PQ1	19030	1991 PR1	18775	1991 PT1	18829	1991 PV1	18996
1991 PY1	18996	1991 PZ1	18996	1991 PA2	18996	1991 PB2	18996
1991 PE2	18996	1991 PH2	18996	1991 PL2	18996	1991 PO2	18996
1991 PR2	18996	1991 PT2	18996	1991 PU2	18996	1991 PX2	18996
1991 PY2	18996	1991 PB3	18996	1991 PC3	18996	1991 PE3	18996
1991 PF3	18996	1991 PG3	18996	1991 PJ3	18996	1991 PK3	18996
1991 PM3	18996	1991 PO3	18996	1991 PQ3	18996	1991 PY3	18775
1991 PB4	18775	1991 PJ4	18775	1991 PM4	18775	1991 PO4	18775
1991 PT4	18775	1991 PV4	18775	1991 PE5	18829	1991 PQ5	18775
1991 PR5	18775	1991 PX5	18775	1991 PZ5	18775	1991 PE6	18775
1991 PE8	18996	1991 PK8	18775	1991 PM8	19030	1991 PO8	18775
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1991 PZ8	18775	1991 PG9	18775	1991 PM9	18775	1991 PQ9	18775
1991 PS9	18996	1991 PV9	18996	1991 PW9	18775	1991 PD10	18775
1991 PE10	18775	1991 PF10	18775	1991 PH10	18775	1991 PN10	18996
1991 PO10	18996	1991 PR10	19031	1991 PX10	18996	1991 PY10	18775
1991 PA11	19031	1991 PC11	18775	1991 PD11	18775	1991 PE11	18775
1991 PF11	18775	1991 PH11	18997	1991 PJ11	18997	1991 PK11	18997
1991 PM11	19031	1991 PQ11	18997	1991 PT11	18775	1991 PP12	18997
1991 PW12	18997	1991 PB13	18997	1991 PC13	18997	1991 PL13	18997
1991 PN13	19031	1991 PM14	18775	1991 PS14	18775	1991 PY14	19032
1991 PD15	18997	1991 PF15	19032	1991 PL15	18775	1991 PT15	18997
1991 PO16	18997	1991 PP16	18997	1991 PQ16	18997	1991 PZ16	18997
1991 QB	19032	1991 QC	19032	1991 QD	19033	1991 QE	19033
1991 QF	18997	1991 QG	18997	1991 QJ	18997	1991 RA	18997
1991 RB	19033	1991 RC	19033	1991 RE	18997	1991 RF	18997
1991 RG	18997	1991 RJ	19033	1991 RL	18997	1991 RM	18997
1991 RN	19033	1991 RP	18997	1991 RQ	18997	1991 RR	18997
1991 RT	18997	1991 RA1	19034	1991 RB1	18997	1991 RE1	18997
1991 RG1	18997	1991 RJ1	18997	1991 RM1	18997	1991 RN1	18997
1991 RR1	18997	1991 RS1	19034	1991 RJ2	19034	1991 RK2	18997
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1991 RR2	18997	1991 RS2	18997	1991 RT2	18997	1991 RU2	18997
1991 RV2	18997	1991 RW2	18997	1991 RX2	18997	1991 RY2	18997
1991 RZ2	18997	1991 RA3	18997	1991 RB3	18997	1991 RC3	18997
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1991 RW4	18998	1991 RX4	18998	1991 RY4	18998	1991 RZ4	18998
1991 RA5	18998	1991 RB5	18998	1991 RC5	18998	1991 RD5	18998
1991 RE5	18998	1991 RF5	18998	1991 RG5	18998	1991 RJ5	19034
1991 RL5	18998	1991 RC6	18998	1991 RD6	18998	1991 RN6	18998
1991 RT6	18998	1991 RG7	18998	1991 RH7	18998	1991 RJ7	18998
1991 RK7	18998	1991 RL7	18998	1991 RN7	18998	1991 RP7	18998
1991 RU7	18998	1991 SA	18998	1991 SB	18998	1991 TJ	18998
1991 TM	19035	1991 TP	18998	2017 P-L	18444	2023 P-L	18642
2197 P-L	18830	2579 P-L	18130	2702 P-L	19035	2780 P-L	18444
4026 P-L	18830	4047 P-L	18444	4081 P-L	18445	4523 P-L	18130
4528 P-L	18131	4581 P-L	18642	4606 P-L	18830	6114 P-L	19035
6516 P-L	18131	6582 P-L	18445	6612 P-L	18303	7581 P-L	18831
7637 P-L	18642	7639 P-L	18131	9507 P-L	18445	9512 P-L	18132
9518 P-L	18132	9540 P-L	18831	9546 P-L	18132	1045 T-2	18446
1070 T-2	18643	1188 T-2	18446	1266 T-2	19035	1269 T-2	18831
1281 T-2	18832	1298 T-2	18832	1324 T-2	19036	1607 T-2	18832
2145 T-2	18132	2224 T-2	18832	2232 T-2	18833	2272 T-2	18133
2281 T-2	18833	3070 T-2	19036	3176 T-2	18133	3201 T-2	18834
3297 T-2	18133	3336 T-2	18134	3365 T-2	18303	4047 T-2	18303
5140 T-2	18134	5469 T-2	18304	5490 T-2	18834	1039 T-3	18834
1168 T-3	18134	2041 T-3	19036	2192 T-3	18834	2268 T-3	18446
3395 T-3	18134	4179 T-3	18835	4181 T-3	18835	5016 T-3	19036
5192 T-3	18836						

* * * * *

OBSERVATIONS OF COMETS.

Observations are published here for the following observatory codes:

- 026 Zimmerwald. 0.4-m Schmidt. Observers P. Wild and T. Schildknecht. Measured by U. Hogentobler.
- 084 Pulkovo. Observers V. V. Bobilev, N. M. Bronnikova and A. A. Dement'eva. From Kiev Komet. Tsirk.
- 089 Nikolaev. 0.12-m f/17 astrograph. Observers G. K. Gorel' and L. A. Gudkova. From Kiev Komet. Tsirk.
- 095 Crimean Astrophysical Observatory. Observers L. V. Zhuravleva and G. R. Kastel'. From Kiev Komet. Tsirk.
- 101 Kharkov. 0.16-m f/4.5 astrograph. Observer P. P. Pavlenko. From Kiev Komet. Tsirk.
- 104 Pian dei Termini. 0.4-m f/5 reflector. Observers L. Tesi and P. Giagli. Reduction by G. Cattani.
- 114 Zelenchukskaya. 0.40-m f/5 astrograph. Observer T. V. Kryachko. Measured by N. M. Evstigneeva. Communicated by S. V. Zhuiko.
- 188 Sternberg Astronomical Institute Middle-Asia Mountain Observatory. 0.23-m f/10 astrograph. Observers V. L. Korneev, S. V. Popova, S. V. Zhuiko and N. M. Evstigneeva.
- 372 Geisei. 0.60-m reflector. Observer T. Seki. In part from Orient. Astron. Assoc. Comet Bull.
- 411 Oizumi. 0.16-m f/4.8 reflector + CCD. Observer T. Kobayashi.
- 413 Siding Spring. U.K. Schmidt and Uppsala Southern Schmidt. Observers

- S. M. Hughes and R. H. McNaught. Measured by McNaught.
- 474 Mt. John Observatory. 0.61-m reflector. Observers A. C. Gilmore and P. M. Kilmartin.
- 493 Calar Alto. 3.5-m reflector + CCD. Observer K. Birkle. Measurers K. Birkle and S. Roser.
- 494 Stakenbridge. Observer B. G. W. Manning.
- 503 Cambridge. Observer J. D. Shanklin.
- 540 Linz. 0.3-m f/5.2 Schmidt-Cassegrain. Observers E. Meyer, E. Obermair and H. Raab.
- 568 Mauna Kea. 2.2-m reflector + CCD. Observer K. J. Meech.
- 595 Farra d'Isonzo. 0.4-m f/4.5 reflector. Observers G. Lombardi, E. Pettarin and F. Piani.
- 657 Victoria. 0.25-m astrograph and 0.5-m reflector + CCD. Observers J. B. Tatum and D. Balam.
- 675 Palomar. 0.46-m Schmidt. Observers J. Alu, R. Bambery, S. Cohen, E. Helin, H. E. Holt, T. M. King, K. Lawler, K. Lawrence, D. H. Levy, P. Rose, C. S. Shoemaker, E. M. Shoemaker, J. Stiffler and K. W. Zeigler.
- 691 Steward Observatory, Kitt Peak. 0.9-m SPACEWATCH telescope. Observers T. Gehrels, D. Rabinowitz and J. V. Scotti. Measured by Scotti.
- 801 Oak Ridge Observatory. 1.5-m reflector + CCD. Observers R. E. McCrosky and C.-Y. Shao.
- 894 Otomo. 0.25-m f/3.4 reflector. Observer S. Otomo.
- 897 Chiyoda. Observer T. Kojima.
- 900 Ohtsu. 0.16-m f/2.5 Schmidt. Observer Y. Ikari.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	N	Obs.
Periodic Comet Grigg-Skjellerup							
/1987 X	1989 12 27.39632	01 15 19.11	+08 24 50.2	24	T	1	568
/1987 X	1991 09 09.18206	05 59 41.28	+10 05 05.2	22	T		493
/1987 X	1991 09 12.18236	06 02 09.88	+09 48 55.2				493
/1987 X	1991 09 12.19242	06 02 10.38	+09 48 52.0				493
Periodic Comet Schwassmann-Wachmann 1							
/1989 XV	1991 09 04.38983	03 45 13.66	+29 46 48.4				657
/1989 XV	1991 09 04.39198	03 45 13.64	+29 46 48.6				657
/1989 XV	1991 09 05.38118	03 45 22.30	+29 48 45.9				657
/1989 XV	1991 09 05.38417	03 45 22.34	+29 48 45.8				657
/1989 XV	1991 10 04.35744	03 44 08.13	+30 28 08.4				801
/1989 XV	1991 10 08.37073	03 43 08.35	+30 30 23.1				801
/1989 XV	1991 10 10.33050	03 42 35.10	+30 31 09.1				801
Periodic Comet Wild 2							
/1989t	1991 01 22.82581	15 28 27.05	-16 02 19.6	12.5T			897
/1989t	1991 01 22.84543	15 28 29.99	-16 02 28.0				897
/1989t	1991 03 25.06076	17 33 03.43	-19 01 21.1				114
/1989t	1991 03 26.07292	17 34 17.91	-19 00 42.3				114
Periodic Comet Kearns-Kwee							
/1989u	1991 01 22.75544	06 44 31.20	+29 51 34.1	15	T		897
/1989u	1991 01 22.76863	06 44 30.68	+29 51 29.0				897
Periodic Comet Van Biesbroeck							
/1989h1	1991 09 04.27797	21 03 46.56	-15 53 50.7				657
/1989h1	1991 09 04.27977	21 03 46.52	-15 53 51.3				657
/1989h1	1991 09 05.23586	21 03 33.79	-15 57 54.5				657
/1989h1	1991 09 05.24598	21 03 33.61	-15 57 56.5				657
/1989h1	1991 10 04.04205	21 06 13.85	-17 06 34.7				801
/1989h1	1991 10 05.06072	21 06 38.87	-17 07 03.8				801

/1989h1	1991 10 05.08218	21 06 39.40	-17 07 04.3	801
/1989h1	1991 10 07.98475	21 07 58.20	-17 07 45.4	801
/1989h1	1991 10 08.01532	21 07 59.02	-17 07 45.6	801

Comet Levy (1990c)

/1990c	1990 07 23.02652	23 47 46.21	+29 12 30.2	089
/1990c	1990 07 27.03702	23 39 29.38	+28 42 56.6	089
/1990c	1990 08 02.03855	23 21 49.59	+27 22 12.4	089
/1990c	1990 08 02.06430	23 21 44.30	+27 21 44.9	026
/1990c	1990 08 15.87360	21 58 01.39	+17 13 07.2	084
/1990c	1990 08 15.87799	21 57 58.74	+17 12 46.6	084
/1990c	1990 08 15.95963	21 57 13.00	+17 05 52.5	089
/1990c	1990 08 16.90880	21 48 05.24	+15 40 14.1	089
/1990c	1990 08 17.87929	21 38 12.57	+14 04 00.0	084
/1990c	1990 08 17.88287	21 38 10.18	+14 03 34.6	084
/1990c	1990 08 17.90657	21 37 55.35	+14 01 19.1	101
/1990c	1990 08 17.90942	21 37 53.49	+14 00 48.0	084
/1990c	1990 08 17.91230	21 37 51.55	+14 00 29.9	084
/1990c	1990 08 17.91710	21 37 48.60	+14 00 12.3	101
/1990c	1990 08 17.94980	21 37 28.47	+13 56 51.0	101
/1990c	1990 08 17.96934	21 37 16.03	+13 54 48.5	101
/1990c	1990 08 19.03299	21 25 45.47	+11 57 53.5	026
/1990c	1990 08 22.81034	20 40 06.42	+03 38 21.1	101
/1990c	1990 08 22.81961	20 39 59.17	+03 36 59.5	101
/1990c	1990 08 22.84020	20 39 43.31	+03 33 41.5	084
/1990c	1990 08 22.84400	20 39 40.36	+03 33 07.0	084
/1990c	1990 08 22.84614	20 39 38.63	+03 33 04.9	101
/1990c	1990 08 22.90953	20 38 49.12	+03 23 24.6	084
/1990c	1990 08 22.91317	20 38 46.24	+03 22 52.3	084
/1990c	1990 08 24.79516	20 13 48.16	-01 24 53.8	101
/1990c	1990 08 24.81112	20 13 35.29	-01 27 21.7	101
/1990c	1990 08 24.89822	20 12 24.45	-01 41 18.6	084
/1990c	1990 08 24.90100	20 12 22.25	-01 41 43.5	084
/1990c	1990 08 24.90527	20 12 18.11	-01 42 31.0	084
/1990c	1990 08 24.90810	20 12 16.44	-01 42 50.4	084
/1990c	1990 08 27.84337	19 32 15.35	-09 21 51.5	084
/1990c	1990 08 27.84522	19 32 13.93	-09 22 07.2	084
/1990c	1990 08 27.85237	19 32 07.90	-09 23 14.4	084
/1990c	1990 08 27.85930	19 32 02.13	-09 24 17.8	084
/1990c	1990 08 27.86140	19 32 00.68	-09 24 36.6	084
/1990c	1991 01 22.79468	12 00 51.01	-36 24 03.3	897
/1990c	1991 01 22.80110	12 00 49.15	-36 23 53.7	897
/1990c	1991 01 22.81250	12 00 46.13	-36 23 41.9	897
/1990c	1991 01 22.82182	12 00 43.48	-36 23 26.9	897
/1990c	1991 03 03.47292	09 07 48.97	-07 08 51.8	897
/1990c	1991 03 03.48154	09 07 47.58	-07 08 27.5	897

Periodic Comet Johnson

/1990h	1991 10 16.49785	04 28 18.55	+05 06 01.4	19.7T 2 691
/1990h	1991 10 16.50894	04 28 18.30	+05 05 58.3	691
/1990h	1991 10 16.51547	04 28 18.14	+05 05 58.0	691

Periodic Comet Mueller 2

/1990j	1990 11 12.85139	00 26 20.67	+05 28 19.9	026
/1990j	1990 11 12.96111	00 26 22.10	+05 27 47.6	026

Periodic Comet Holt-Olmstead

/1990k	1990 10 15.90614	01 13 22.17	+11 36 57.1	16.5T 095
/1990k	1990 10 15.92003	01 13 21.71	+11 36 57.3	16.5T 095

Periodic Comet Taylor

/1990n	1991 01 22.76134	07 15 15.26	+26 47 11.6	15	T	897
/1990n	1991 01 22.77870	07 15 14.73	+26 47 30.6			897
/1990n	1991 02 12.63137	07 08 19.40	+32 03 09.4	16	T	897
/1990n	1991 02 12.66881	07 08 19.14	+32 03 37.8			897

Periodic Comet Metcalf-Brewington

/1991a	1991 01 08.80694	00 10 40.44	-05 58 14.4			026
/1991a	1991 01 09.79757	00 13 18.28	-05 47 15.5			026
/1991a	1991 01 18.79965	00 37 26.27	-04 01 55.6			026
/1991a	1991 02 04.77083	01 23 34.16	-00 27 05.6			026

Comet Arai (1991b)

/1991b	1991 01 28.52431	07 35 44.76	+54 27 49.8	10	T	897
/1991b	1991 01 28.53131	07 35 43.22	+54 28 20.8			897
/1991b	1991 03 03.46649	06 01 22.28	+69 19 06.2	16	T	897
/1991b	1991 03 03.49925	06 01 21.39	+69 19 17.1			897
/1991b	1991 01 09.93854	08 43 47.77	+21 38 58.3			026
/1991b	1991 02 04.85764	07 05 04.41	+60 56 44.7			026

Comet Shoemaker-Levy (1991d)

/1991d	1991 02 12.60509	09 21 38.30	+02 15 29.5	15	T	897
/1991d	1991 02 12.64670	09 21 36.32	+02 16 02.0			897

Periodic Comet Mrkos

/1991k	1991 07 10.39531	12 25 49.29	-47 58 30.1			474
/1991k	1991 07 10.42378	12 25 53.54	-47 58 39.7	19.5N		474

Periodic Comet Faye

/1991n	1991 08 11.90141	00 55 47.90	+13 47 24.4			188
/1991n	1991 08 13.96042	00 58 25.78	+13 57 26.6			188
/1991n	1991 09 03.90625	01 22 08.51	+14 39 54.1			595
/1991n	1991 09 04.86250	01 23 03.94	+14 38 48.5			595
/1991n	1991 09 04.90625	01 23 06.17	+14 38 41.5			595
/1991n	1991 09 05.37350	01 23 32.36	+14 38 07.5			657
/1991n	1991 09 05.37458	01 23 32.44	+14 38 07.6			657
/1991n	1991 09 09.73090	01 27 26.22	+14 28 11.6	12	T	897
/1991n	1991 09 09.76528	01 27 27.94	+14 28 01.4			897
/1991n	1991 09 09.85625	01 27 33.28	+14 27 40.0			595
/1991n	1991 09 09.93750	01 27 37.25	+14 27 22.7			595
/1991n	1991 09 28.48139	01 39 42.21	+12 24 15.8			411
/1991n	1991 09 28.48716	01 39 42.37	+12 24 12.3			411
/1991n	1991 09 28.48896	01 39 42.41	+12 24 10.7			411
/1991n	1991 10 02.63333	01 41 23.73	+11 39 07.0			900
/1991n	1991 10 02.63721	01 41 23.82	+11 39 02.1			900
/1991n	1991 10 02.87396	01 41 29.10	+11 36 17.9	8.8T		104
/1991n	1991 10 02.87882	01 41 29.29	+11 36 11.4	8.8T		104
/1991n	1991 10 03.98924	01 41 52.46	+11 23 00.6			494
/1991n	1991 10 04.28357	01 41 58.02	+11 19 28.9			801
/1991n	1991 10 04.30476	01 41 58.37	+11 19 13.5			801
/1991n	1991 10 04.95750	01 42 11.77	+11 11 12.2			503
/1991n	1991 10 08.84757	01 43 19.45	+10 21 06.1	8.5T		104
/1991n	1991 10 08.85156	01 43 19.50	+10 20 57.5	8.5T		104
/1991n	1991 10 08.85503	01 43 19.54	+10 20 54.3	8.5T		104
/1991n	1991 10 11.37633	01 43 54.74	+09 46 22.6			691
/1991n	1991 10 11.39700	01 43 54.92	+09 46 05.2			691
/1991n	1991 10 11.41770	01 43 55.11	+09 45 47.8			691
/1991n	1991 10 13.47529	01 44 21.86	+09 16 31.8			411
/1991n	1991 10 13.47595	01 44 21.89	+09 16 34.0			411

/1991n	1991 10 13.49903	01 44 22.20	+09 16 12.8	411
/1991n	1991 10 13.50100	01 44 22.16	+09 16 11.7	411
/1991n	1991 10 15.47097	01 44 44.55	+08 47 30.6	411
/1991n	1991 10 15.47461	01 44 44.46	+08 47 28.6	411
/1991n	1991 10 15.47536	01 44 44.59	+08 47 27.4	411

Periodic Comet Chernykh

/1991o	1991 10 04.97041	23 21 28.93	-10 31 34.5	503
/1991o	1991 10 05.14416	23 21 24.60	-10 32 10.3	801
/1991o	1991 10 05.16836	23 21 23.94	-10 32 15.3	801
/1991o	1991 10 05.53475	23 21 15.06	-10 33 26.7	15 T 3 413
/1991o	1991 10 08.07610	23 20 16.70	-10 41 44.2	801
/1991o	1991 10 08.10990	23 20 15.93	-10 41 50.1	801
/1991o	1991 10 15.20216	23 18 08.98	-10 58 44.1	16.6T 691
/1991o	1991 10 15.21355	23 18 08.80	-10 58 45.5	691
/1991o	1991 10 15.22392	23 18 08.63	-10 58 46.8	691
/1991o	1991 10 15.23879	23 18 08.42	-10 58 47.9	4 691
/1991o	1991 10 16.17582	23 17 56.27	-11 00 20.3	16.6T 691
/1991o	1991 10 16.22834	23 17 55.51	-11 00 25.3	5 691
/1991o	1991 10 16.28901	23 17 54.65	-11 00 30.5	691

Periodic Comet Levy

/1991q	1991 06 30.93576	03 00 14.02	+24 51 14.5	188
/1991q	1991 07 01.93542	03 05 10.30	+25 26 51.1	188
/1991q	1991 07 02.91111	03 10 00.18	+26 00 48.4	188
/1991q	1991 07 05.92292	03 25 01.15	+27 40 25.6	188
/1991q	1991 07 06.90972	03 29 57.80	+28 11 17.3	188
/1991q	1991 07 07.92986	03 35 05.26	+28 42 06.8	188
/1991q	1991 07 08.91597	03 40 03.17	+29 11 08.8	188
/1991q	1991 07 10.91875	03 50 09.27	+30 07 03.5	188
/1991q	1991 07 11.92361	03 55 14.34	+30 33 39.6	188
/1991q	1991 07 12.93472	04 00 20.61	+30 59 27.4	188
/1991q	1991 07 13.91320	04 05 17.56	+31 23 24.9	188
/1991q	1991 07 15.91736	04 15 24.79	+32 09 43.3	188
/1991q	1991 07 17.92512	04 25 30.94	+32 52 06.9	188
/1991q	1991 07 18.92847	04 30 32.63	+33 11 54.1	188
/1991q	1991 08 01.93198	05 38 27.12	+36 12 48.2	188
/1991q	1991 09 19.78021	08 26 38.05	+33 45 31.0	900
/1991q	1991 09 19.78432	08 26 38.27	+33 45 28.9	900
/1991q	1991 09 19.79201	08 26 39.66	+33 45 24.3	900
/1991q	1991 09 19.80972	08 26 42.01	+33 45 14.6	14 T 894
/1991q	1991 10 17.77154	09 16 30.66	+30 45 21.6	16 T 372
/1991q	1991 10 18.73608	09 17 44.34	+30 40 25.9	16 T 372

Comet Helin-Alu (1991r)

/1991r	1991 07 05.50707	16 25 56.59	-19 44 25.0	474
/1991r	1991 07 05.52929	16 25 56.15	-19 44 16.1	474
/1991r	1991 07 11.52016	16 24 00.59	-19 03 31.6	17.7N 474
/1991r	1991 07 11.53926	16 24 00.23	-19 03 24.5	474

Periodic Comet Wirtanen

/1991s	1991 09 05.47088	07 18 38.89	+18 50 12.7	657
/1991s	1991 09 05.47214	07 18 39.24	+18 50 12.8	657

Periodic Comet Hartley 2

/1991t	1991 07 12.66032	01 14 26.02	+21 30 30.5	15 N 474
/1991t	1991 07 12.67236	01 14 29.58	+21 30 51.1	474
/1991t	1991 08 02.70763	03 14 18.09	+29 10 51.0	9 T 372
/1991t	1991 08 15.97014	04 42 35.87	+30 15 58.1	188

/1991t	1991 09 05.42597	06 45 39.32	+25 30 40.5	657
/1991t	1991 09 05.42933	06 45 40.39	+25 30 36.1	657
/1991t	1991 09 09.73819	07 07 25.31	+23 54 41.4	897
/1991t	1991 09 09.75677	07 07 30.71	+23 54 14.7	897
/1991t	1991 09 09.77622	07 07 36.44	+23 53 47.8	897
/1991t	1991 09 11.76354	07 17 07.68	+23 07 29.8	8.5T 372
/1991t	1991 09 11.77313	07 17 10.54	+23 07 15.7	372
/1991t	1991 09 19.74635	07 52 19.73	+19 54 24.0	900
/1991t	1991 09 19.76574	07 52 24.35	+19 53 53.7	900
/1991t	1991 10 02.80499	08 40 48.93	+14 35 02.9	411
/1991t	1991 10 02.80609	08 40 49.07	+14 35 01.4	411
/1991t	1991 10 07.40936	08 55 37.79	+12 45 57.6	801
/1991t	1991 10 07.41074	08 55 38.05	+12 45 56.0	801
/1991t	1991 10 08.41191	08 58 42.83	+12 22 35.7	801

Comet McNaught-Hughes (1991w)

/1991w	1991 10 10.99162	21 39 20.52	-06 48 47.1	801
/1991w	1991 10 11.01090	21 39 20.14	-06 48 55.5	801

Periodic Comet Spacewatch

/1991x	1991 10 04.23742	22 55 23.11	-11 47 06.5	21.9T 691
/1991x	1991 10 04.24644	22 55 22.72	-11 47 10.7	691
/1991x	1991 10 04.28220	22 55 21.65	-11 47 19.2	691
/1991x	1991 10 11.19700	22 52 17.60	-12 15 36.0	691
/1991x	1991 10 11.22765	22 52 16.92	-12 15 43.0	22.3T 691
/1991x	1991 10 15.16508	22 51 00.87	-12 27 41.7	691
/1991x	1991 10 15.17386	22 51 00.75	-12 27 42.6	691
/1991x	1991 10 15.18905	22 51 00.50	-12 27 44.8	691

Periodic Comet McNaught-Hughes

/1991y	1991 09 30.51236	23 09 59.79	-18 49 21.1	16.5T 6 413
/1991y	1991 09 30.55403	23 09 58.67	-18 49 20.4	413
/1991y	1991 10 01.45787	23 09 36.13	-18 48 49.7	413
/1991y	1991 10 02.55556	23 09 09.64	-18 47 58.9	413
/1991y	1991 10 02.73611	23 09 05.38	-18 47 46.3	413
/1991y	1991 10 05.52552	23 08 06.55	-18 44 11.9	413
/1991y	1991 10 09.08593	23 07 06.92	-18 37 06.6	801
/1991y	1991 10 09.12456	23 07 06.25	-18 37 00.4	801
/1991y	1991 10 09.48056	23 07 01.37	-18 36 00.5	413
/1991y	1991 10 11.20747	23 06 40.28	-18 31 26.2	17.0T 675
/1991y	1991 10 11.22899	23 06 39.78	-18 31 19.0	675
/1991y	1991 10 12.60932	23 06 25.73	-18 27 02.1	413
/1991y	1991 10 13.19271	23 06 21.07	-18 25 16.3	675
/1991y	1991 10 13.21701	23 06 20.88	-18 25 09.2	675

Periodic Comet Shoemaker-Levy 5

/1991z	1991 09 12.36510	00 38 08.09	-08 18 36.3	16.5T 7 675
/1991z	1991 09 17.41823	00 35 02.24	-08 10 18.2	7 675
/1991z	1991 09 17.46997	00 35 00.07	-08 10 11.9	7 675
/1991z	1991 10 02.30243	00 23 38.25	-07 29 11.2	16 T 8 675
/1991z	1991 10 03.30625	00 22 48.57	-07 25 13.8	8 675
/1991z	1991 10 04.35469	00 21 56.65	-07 20 57.4	16.0T 675
/1991z	1991 10 05.17350	00 21 16.56	-07 17 26.7	801
/1991z	1991 10 05.18052	00 21 16.25	-07 17 24.8	801
/1991z	1991 10 05.54896	00 20 58.12	-07 15 37.5	413
/1991z	1991 10 07.29063	00 19 33.00	-07 07 52.6	675
/1991z	1991 10 08.13310	00 18 52.35	-07 03 46.7	801
/1991z	1991 10 08.14781	00 18 51.57	-07 03 41.9	801

/1991z	1991 10 08.25035	00 18 46.74	-07 03 13.1		675
/1991z	1991 10 11.10020	00 16 31.86	-06 48 26.1		801
/1991z	1991 10 11.11520	00 16 31.01	-06 48 21.9		801
/1991z	1991 10 11.27378	00 16 23.64	-06 47 28.6	16 T	675
/1991z	1991 10 11.29844	00 16 22.34	-06 47 19.9		675
/1991z	1991 10 11.41469	00 16 16.92	-06 46 42.8		657
/1991z	1991 10 11.42955	00 16 16.28	-06 46 38.3		657
/1991z	1991 10 14.16670	00 14 13.23	-06 30 46.4	16.5T 9	691
/1991z	1991 10 14.18725	00 14 12.27	-06 30 39.0		691
/1991z	1991 10 14.21182	00 14 11.11	-06 30 30.0		691
/1991z	1991 10 14.28264	00 14 07.82	-06 30 06.5		675
/1991z	1991 10 14.30747	00 14 06.72	-06 29 55.9		675
/1991z	1991 10 17.65903	00 11 46.29	-06 08 30.4	16.5T	372

Comet Shoemaker-Levy (1991a1)

/1991a1	1991 10 06.50243	02 40 01.38	+37 43 08.2	16.5T	675
/1991a1	1991 10 07.45833	02 38 38.97	+37 47 07.3		675
/1991a1	1991 10 08.32690	02 37 22.62	+37 50 39.7	A	675
/1991a1	1991 10 09.12961	02 36 10.89	+37 53 47.2		801
/1991a1	1991 10 09.14110	02 36 09.83	+37 53 49.9		801
/1991a1	1991 10 10.06256	02 34 45.84	+37 57 17.5	B	801
/1991a1	1991 10 10.25354	02 34 28.04	+37 57 60.0		801
/1991a1	1991 10 10.26384	02 34 27.09	+37 58 02.2		801
/1991a1	1991 10 11.20676	02 32 59.15	+38 01 24.0		801
/1991a1	1991 10 11.22206	02 32 57.70	+38 01 26.3		801
/1991a1	1991 10 11.29909	02 32 50.50	+38 01 42.4		657
/1991a1	1991 10 11.30124	02 32 50.29	+38 01 43.2		657
/1991a1	1991 10 11.30330	02 32 50.15	+38 01 43.5		657
/1991a1	1991 10 13.80590	02 28 48.34	+38 09 45.1	16.5T	894
/1991a1	1991 10 13.81586	02 28 47.26	+38 09 45.5		894
/1991a1	1991 10 17.67292	02 22 13.69	+38 19 40.0	16.5T	372
/1991a1	1991 10 17.68507	02 22 12.33	+38 19 42.6		372
/1991a1	1991 10 18.68750	02 20 25.71	+38 21 44.2	16.5T	372
/1991a1	1991 10 18.69896	02 20 25.00	+38 21 46.0		372
/1991a1	1991 10 29.75521	01 59 23.90	+38 27 29.4		540
/1991a1	1991 10 29.81319	01 59 16.67	+38 27 24.9		540

Note 1: no coma evident. 2: fanshaped coma extending 15" from p.a 274 to p.a. 63 . 3: secondary separated by 59".6 in p.a. 72 , 3.5 mag fainter. 4: secondary separated by 57".5 in p.a. 72 , 3.2 mag fainter. Primary coma diameter 31", 0'.80 tail in p.a. 53 +/- 2 , fainter 5'.5 tail in p.a. 252 +/- 1 . Secondary coma diameter 12", 0'.43 tail in p.a. 51 +/- 3 . 5: secondary separated by 57".7 in p.a. 72 , 3.0 mag fainter. 6: diffuse 2' tail in p.a. 250 . 7: precovery images. 8: comet image condensed. 9: coma diameter 29"; broad, faint, tail-like structures extending 0'.73 in p.a. 244 and 0'.70 in p.a. 44 . A: comet strongly condensed with coma and short tail in p.a. 200 . B: through clouds.

* * * * *

OBSERVATIONS OF MINOR PLANETS.

The observations are listed separately for each observatory code. Alphabetic note codes shown with some of the observations are defined according to the scheme below. Numerical codes are defined in the headings for the individual observatories.

A earlier approximate position inferior
a sense of motion ambiguous

B black or dark plate
 b bad seeing
 C correction to earlier position
 c crowded star field
 D declination uncertain
 d diffuse image
 E at or near edge of plate
 F faint image
 f involved with emulsion or plate flaw
 G poor guiding
 g no guiding
 I involved with star
 i inkdot measured
 M measurement difficult
 N near edge of plate, measurement uncertain
 O image out of focus
 o plate measured in one direction only
 P position uncertain
 p poor image
 R right ascension uncertain
 r poor distribution of reference stars
 S poor sky
 s streaked image
 T time uncertain
 t trailed image
 U uncertain image
 u unconfirmed image
 V very faint image
 W weak image
 w weak solution

Object	Date	UT	R. A. (1950)			Decl.	Mag.	N	Obs.
026 Zimmerwald									
P. Wild, Astronomisches Institut der Universitaet, Sidlerstrasse 5, CH-3012 Berne, Switzerland									
Observers P. Wild, T. Schildknecht									
Measurers P. Wild, U. Hugentobler									
0.4-m Schmidt telescope									
1975 UE	1990 09	18.91389	00 43	49.62	+04 29	43.6	16	V	026
1975 UE	1990 09	19.02292	00 43	44.68	+04 29	00.2	15.8		026
146	1991 04	10.90556	13 02	46.58	+14 54	46.6	12		026
146	1991 04	15.91667	12 58	23.05	+15 02	33.7	12		026
476	1990 02	23.89653	09 45	44.44	+00 48	51.0	12.8		026
694	1991 05	13.91806	14 35	47.49	-17 19	30.2	13		026
1227	1991 02	02.83333	07 40	26.96	+41 18	01.9	16.5	V	026
1227	1991 02	04.80694	07 38	43.06	+41 14	41.8	16.5	V	026
1656	1991 04	10.90556	13 06	19.29	+13 55	13.0	14.8		026
1656	1991 04	12.92153	13 04	34.50	+14 39	39.0			026
1656	1991 04	15.91667	13 02	03.63	+15 41	11.3	15		026
1664	1988 11	06.90486	00 30	06.39	-00 45	27.7		V	026
1664	1988 11	08.83889	00 28	56.93	-00 46	51.0			026
1687	1991 05	13.91806	14 36	37.09	-12 25	59.0	15.8		026
1860	1989 09	05.93403	20 57	38.06	-21 28	35.3	14.8		026
1860	1989 09	07.90556	20 57	11.15	-21 40	27.0	14.5		026
1860	1991 01	09.92083	05 03	37.54	+12 35	29.8	16		026
1866	1989 01	15.17361	13 01	10.02	+59 34	13.4	17.5	V	026
1866	1990 05	27.91111	14 13	27.54	+14 54	39.6	16		026
1866	1990 05	29.95625	14 10	06.64	+14 29	12.5			026

1866	1990 06 01.00625	14 06 53.02	+14 02 15.5	16.2	026
1866	1990 06 16.91736	13 46 52.72	+09 54 12.9	16.5	026
1866	1990 06 25.92153	13 39 50.15	+07 12 52.7	16.8	026
1886	1991 04 10.90556	13 07 47.94	+16 33 18.1	15.8	026
1886	1991 04 12.92153	13 05 53.80	+16 38 16.4		026
1886	1991 04 15.91667	13 03 05.81	+16 43 44.0	16	026
1892	1990 08 22.98889	20 48 57.29	-16 40 51.5	15.8	026
1892	1990 08 23.90278	20 48 03.51	-16 38 41.8	15.8	026
1892	1990 09 12.87500	20 33 39.80	-15 40 45.5	16.2	026
1892	1990 09 13.88125	20 33 14.99	-15 37 18.8	16.5	F 026
1951	1990 08 02.02708	20 31 24.23	-12 55 16.3	13.5	026
1951	1990 08 04.05278	20 27 31.63	-16 56 06.3	13.5	026
2070	1988 12 13.92569	06 05 51.15	+28 19 11.8	16.5	026
2129	1989 09 07.95139	22 50 49.58	-19 57 43.9	15.5	026
2396	1988 11 06.99792	02 37 37.89	-01 47 41.4	15.5	026
3001	1989 02 12.01875	06 31 38.72	+24 05 45.7	15.5	026
4064	1989 02 02.93472	09 28 22.41	+20 24 22.7	16.5	026
4132	1990 09 28.91218	23 19 40.59	-07 37 05.1		026

033 Tautenburg

F. Borngen, Karl Schwarzschild Observatorium, O-6901 Tautenburg,
Federal Republic of Germany

L. D. Schmadel, Astronomisches Rechen-Institut, W-6900 Heidelberg,
Federal Republic of Germany

Observers F. Borngen, L. D. Schmadel

1.3-m Schmidt telescope

PPM

1980 RL2	1991 09 04.97222	21 49 40.12	-11 37 24.2	17.0	033
1980 RL2	1991 09 05.01736	21 49 38.14	-11 37 30.5		033
1980 RL2	1991 09 13.88889	21 44 34.29	-11 54 27.8	17.4	033
1980 RL2	1991 09 13.94375	21 44 32.70	-11 54 32.1		033
1980 RB8	1991 09 10.10208	02 22 00.83	+19 19 53.8		033
1980 RB8	1991 09 11.08403	02 21 55.66	+19 19 37.4		033
1980 TW5	1991 09 10.10208	02 27 36.40	+19 27 09.3		033
1980 TW5	1991 09 11.08403	02 27 30.48	+19 27 35.1		033
1980 TW5	1991 09 11.12743	02 27 30.16	+19 27 36.0		033
1980 TB12	1991 10 04.97361	00 29 03.54	+10 51 42.4		033
1980 TB12	1991 10 05.01944	00 29 01.55	+10 51 22.7		033
1980 TB12	1991 10 05.88472	00 28 25.81	+10 45 20.1	17.4	033
1984 UC1	1991 10 07.95486	00 46 05.41	+09 04 09.4	18.2	033
1984 UC1	1991 10 07.99931	00 46 02.70	+09 03 51.5		033
1984 UC1	1991 10 08.93958	00 45 09.20	+08 57 37.7		033
1984 UC1	1991 10 09.94861	00 44 11.78	+08 50 52.5		033
1988 RD3	1991 08 06.96806	22 16 36.15	-07 22 52.5	17.5	033
1988 RD3	1991 08 07.01250	22 16 34.03	-07 23 05.6		033
1988 RD3	1991 08 07.99479	22 15 48.48	-07 28 08.1		033
1988 RD3	1991 08 12.00556	22 12 30.94	-07 50 17.3		033
1988 RD3	1991 09 04.97222	21 51 22.04	-10 22 37.3	17.5	033
1988 RD3	1991 09 05.01736	21 51 19.86	-10 22 54.5		033
1988 RD3	1991 09 13.88889	21 45 27.95	-11 11 42.9	17.8	033
1988 RD3	1991 09 13.94375	21 45 26.04	-11 11 59.2		033
1991 PJ17	1991 08 06.96806	22 09 50.35	-07 04 58.6	17.7	033
1991 PJ17	1991 08 07.01250	22 09 48.28	-07 05 05.3		033
1991 PJ17	1991 08 07.99479	22 09 03.43	-07 07 42.9		033
1991 PL17*	1991 08 06.96806	22 13 31.29	-05 55 05.2	17.3	033
1991 PL17	1991 08 07.01250	22 13 29.17	-05 54 57.0		033
1991 PL17	1991 08 07.99479	22 12 41.86	-05 51 39.8		033
1991 PM17*	1991 08 06.96806	22 13 44.28	-06 48 46.3	17.7	033
1991 PM17	1991 08 07.01250	22 13 42.53	-06 49 11.1		033

1991	PM17	1991	08	07.99479	22	13	05.64	-06	58	40.3		V	033
1991	PM17	1991	08	12.00556	22	10	25.84	-07	39	00.0			033
1991	PN17*	1991	08	06.96806	22	21	22.05	-06	59	05.5	18.8		033
1991	PN17	1991	08	07.01250	22	21	19.83	-06	59	10.1			033
1991	PN17	1991	08	07.99479	22	20	32.01	-07	01	03.3		V	033
1991	PN17	1991	08	12.00556	22	17	05.19	-07	10	14.4			033
1991	RP1	1991	09	05.04167	00	50	49.85	+11	39	52.0	19.3		033
1991	RP1	1991	09	05.08819	00	50	47.73	+11	40	06.9			033
1991	RP2	1991	10	04.85972	00	04	53.22	+07	20	20.8	17.7		033
1991	RP2	1991	10	04.92917	00	04	50.24	+07	19	49.7			033
1991	RP2	1991	10	05.86111	00	04	12.11	+07	12	49.2			033
1991	RT2	1991	10	04.85972	00	05	12.15	+06	57	46.7	18.9		033
1991	RT2	1991	10	04.92917	00	05	08.62	+06	57	08.1			033
1991	RT2	1991	10	05.86111	00	04	24.84	+06	48	42.9			033
1991	RY2	1991	10	04.85972	00	10	11.08	+08	50	03.9	18.8		033
1991	RY2	1991	10	04.92917	00	10	07.45	+08	49	39.3			033
1991	RY2	1991	10	05.86111	00	09	20.71	+08	44	02.4			033
1991	RZ2	1991	10	04.85972	00	11	53.71	+07	34	39.2	18.5		033
1991	RZ2	1991	10	04.92917	00	11	50.33	+07	34	11.1			033
1991	RZ2	1991	10	05.86111	00	11	06.44	+07	27	54.5			033
1991	RA3	1991	10	04.85972	00	13	26.20	+08	04	56.6	18.7		033
1991	RA3	1991	10	04.92917	00	13	22.95	+08	04	29.7			033
1991	RA3	1991	10	05.86111	00	12	40.90	+07	58	23.1			033
1991	RB3	1991	10	04.85972	00	11	59.84	+07	17	53.1	17.8		033
1991	RB3	1991	10	04.92917	00	11	56.01	+07	17	24.1			033
1991	RB3	1991	10	05.86111	00	11	06.80	+07	10	48.2			033
1991	RC3	1991	10	04.85972	00	12	39.86	+07	07	22.2	18.4		033
1991	RC3	1991	10	04.92917	00	12	36.31	+07	07	03.9			033
1991	RC3	1991	10	05.86111	00	11	49.92	+07	03	02.4			033
1991	RD3	1991	10	04.85972	00	15	44.42	+06	38	24.3	18.9		033
1991	RD3	1991	10	04.92917	00	15	41.45	+06	37	56.4			033
1991	RD3	1991	10	05.86111	00	15	02.26	+06	31	40.5			033
1991	RJ3	1991	10	04.85972	00	07	19.37	+08	03	35.7	19.1		033
1991	RJ3	1991	10	04.92917	00	07	16.10	+08	03	07.4			033
1991	RJ3	1991	10	05.86111	00	06	35.50	+07	56	38.1			033
1991	RM3	1991	10	04.85972	00	13	51.61	+08	22	41.8	18.8		033
1991	RM3	1991	10	04.92917	00	13	48.87	+08	22	17.6			033
1991	RM3	1991	10	05.86111	00	13	15.03	+08	16	45.5			033
1991	RQ3	1991	10	04.97361	00	27	37.28	+10	20	12.6			033
1991	RQ3	1991	10	05.01944	00	27	34.71	+10	20	08.2			033
1991	RQ3	1991	10	05.88472	00	26	48.07	+10	19	01.0	18.2		033
1991	RR3	1991	10	04.97361	00	25	30.20	+11	54	08.9			033
1991	RR3	1991	10	05.01944	00	25	27.24	+11	54	05.3			033
1991	RR3	1991	10	05.88472	00	24	33.35	+11	53	05.0	18.7		033
1991	RV3	1991	10	04.97361	00	34	19.00	+11	21	41.6			033
1991	RV3	1991	10	05.01944	00	34	16.59	+11	21	32.5			033
1991	RV3	1991	10	05.88472	00	33	33.46	+11	18	58.4	17.9		033
1991	RH4	1991	10	04.97361	00	34	17.44	+10	37	07.5			033
1991	RH4	1991	10	05.01944	00	34	14.44	+10	36	53.7			033
1991	RH4	1991	10	05.88472	00	33	20.66	+10	32	52.1	18.0		033
1991	RQ4	1991	10	07.95486	00	40	39.92	+10	14	26.5	18.7		033
1991	RQ4	1991	10	07.99931	00	40	37.22	+10	14	13.7			033
1991	RQ4	1991	10	08.93958	00	39	44.70	+10	09	41.9			033
1991	RQ4	1991	10	09.94861	00	38	48.39	+10	04	45.9			033
1991	RR4	1991	10	07.95486	00	42	45.61	+09	36	48.5	17.5		033
1991	RR4	1991	10	07.99931	00	42	42.83	+09	36	39.1			033
1991	RR4	1991	10	08.93958	00	41	48.07	+09	33	23.8			033
1991	RR4	1991	10	09.94861	00	40	49.28	+09	29	48.8			033
1991	RS4	1991	10	07.95486	00	45	02.42	+08	02	25.8	18.6		033

1991 RS4	1991 10	07.99931	00 45	00.00	+08 02	13.9		033
1991 RS4	1991 10	08.93958	00 44	12.34	+07 58	02.1		033
1991 RS4	1991 10	09.94861	00 43	21.46	+07 53	29.9		033
1991 RT4	1991 10	07.95486	00 42	13.96	+08 40	33.3	19.4	033
1991 RT4	1991 10	07.99931	00 42	11.20	+08 40	16.5		033
1991 RT4	1991 10	08.93958	00 41	15.55	+08 34	25.0		033
1991 RT4	1991 10	09.94861	00 40	16.00	+08 28	05.3		033
1991 RV4	1991 10	07.95486	00 47	48.77	+08 14	00.9	18.7	033
1991 RV4	1991 10	07.99931	00 47	46.40	+08 13	44.1		033
1991 RV4	1991 10	08.93958	00 46	59.87	+08 07	41.4		033
1991 RV4	1991 10	09.94861	00 46	10.02	+08 01	10.1		033
1991 RW4	1991 10	07.95486	00 44	34.43	+08 15	31.3	18.0	033
1991 RW4	1991 10	07.99931	00 44	31.78	+08 15	25.5		033
1991 RW4	1991 10	08.93958	00 43	38.21	+08 13	29.1		033
1991 RW4	1991 10	09.94861	00 42	40.90	+08 11	21.2		033
1991 RA5	1991 10	07.95486	00 45	33.28	+08 32	54.2	18.9	033
1991 RA5	1991 10	07.99931	00 45	30.39	+08 32	41.7		033
1991 RA5	1991 10	08.93958	00 44	32.16	+08 28	27.0		033
1991 RA5	1991 10	09.94861	00 43	29.72	+08 23	50.5		033
1991 RB5	1991 10	07.95486	00 47	02.06	+10 39	12.7	17.6	033
1991 RB5	1991 10	07.99931	00 46	59.02	+10 39	08.0		033
1991 RB5	1991 10	08.93958	00 46	01.94	+10 37	02.3		033
1991 RB5	1991 10	09.94861	00 45	00.72	+10 34	42.4		033
1991 RD5	1991 10	07.95486	00 46	42.82	+08 54	48.2	18.8	033
1991 RD5	1991 10	07.99931	00 46	39.83	+08 54	33.7		033
1991 RD5	1991 10	08.93958	00 45	40.55	+08 49	13.6		033
1991 RD5	1991 10	09.94861	00 44	37.11	+08 43	27.5		033
1991 RG7	1991 09	10.10208	02 23	35.06	+19 54	15.3		033
1991 RG7	1991 09	11.08403	02 23	52.10	+19 56	52.8		033
1991 RH7	1991 09	11.08403	02 25	32.58	+21 21	10.7		033
1991 RK7	1991 09	10.10208	02 26	26.36	+20 39	55.0		033
1991 RK7	1991 09	11.08403	02 26	19.64	+20 41	30.8		033
1991 RL7	1991 09	10.10208	02 26	00.50	+18 44	01.6		033
1991 RL7	1991 09	11.08403	02 26	04.77	+18 40	53.0		033
1991 RM7	1991 09	10.10208	02 28	16.60	+20 08	39.3		033
1991 RM7	1991 09	11.08403	02 28	16.97	+20 13	40.7		033
1991 RN7	1991 09	10.10208	02 29	26.66	+19 19	09.7		033
1991 RN7	1991 09	11.08403	02 29	26.64	+19 22	10.1		033
1991 RN7	1991 09	11.12743	02 29	26.61	+19 22	18.4		033
1991 RO7	1991 09	10.10208	02 30	07.55	+20 50	11.5		033
1991 RO7	1991 09	11.08403	02 30	11.11	+20 58	53.3		033
1991 RO7	1991 09	11.12743	02 30	11.25	+20 59	18.4		033
1991 RP7	1991 09	10.10208	02 34	18.04	+20 07	25.7		033
1991 RP7	1991 09	11.08403	02 34	19.68	+20 08	45.4		033
1991 RP7	1991 09	11.12743	02 34	19.72	+20 08	48.4		033
1991 RS8	1991 10	04.85972	00 14	45.01	+06 21	34.5	17.5	033
1991 RS8	1991 10	04.92917	00 14	40.46	+06 21	27.9		033
1991 RS8	1991 10	05.86111	00 13	41.06	+06 20	01.3		033
1991 RC10	1991 10	04.85972	00 10	29.99	+06 17	35.5	18.3	033
1991 RC10	1991 10	04.92917	00 10	26.35	+06 17	26.4		033
1991 RC10	1991 10	05.86111	00 09	38.56	+06 15	36.5		033
1991 SF1	1991 10	04.85972	00 07	43.84	+07 21	06.6	17.2	033
1991 SF1	1991 10	04.92917	00 07	40.68	+07 20	11.0		033
1991 SF1	1991 10	05.86111	00 07	00.35	+07 07	42.4		033
1991 SR1	1991 10	04.97361	00 28	24.40	+10 43	58.6		033
1991 SR1	1991 10	05.01944	00 28	22.46	+10 43	22.4		033
1991 SR1	1991 10	05.88472	00 27	47.71	+10 32	10.9	17.2	033
1991 TP1	1991 10	07.95486	00 47	26.12	+10 38	13.7	16.8	033
1991 TP1	1991 10	07.99931	00 47	23.34	+10 37	51.5		033

1991	TP1	1991	10	08.93958	00	46	33.08	+10	29	28.5		033
1991	TP1	1991	10	09.94861	00	45	39.41	+10	20	25.9		033
1991	TU1	1991	09	05.04167	00	59	03.52	+12	20	21.3	17.5	033
1991	TU1	1991	09	05.08819	00	59	01.92	+12	20	26.2		033
1991	TM2	* 1991	10	07.95486	00	37	36.35	+10	20	42.4	19.0	033
1991	TM2	1991	10	07.99931	00	37	33.70	+10	20	23.3		033
1991	TM2	1991	10	08.93958	00	36	41.66	+10	13	46.8		033
1991	TM2	1991	10	09.94861	00	35	46.25	+10	06	37.6		033
1991	TN2	* 1991	10	07.95486	00	37	40.63	+09	52	46.8	19.7	033
1991	TN2	1991	10	07.99931	00	37	38.22	+09	52	36.8		033
1991	TN2	1991	10	08.93958	00	36	49.65	+09	49	15.4		033
1991	TN2	1991	10	09.94861	00	35	57.75	+09	45	37.2		033
1991	TO2	* 1991	10	07.95486	00	38	08.84	+10	51	35.2	18.8	033
1991	TO2	1991	10	07.99931	00	38	05.93	+10	51	24.7		033
1991	TO2	1991	10	08.93958	00	37	07.98	+10	47	40.9		033
1991	TO2	1991	10	09.94861	00	36	05.96	+10	43	37.2		033
1991	TP2	* 1991	10	07.95486	00	38	18.85	+10	14	32.5	18.3	033
1991	TP2	1991	10	07.99931	00	38	16.01	+10	14	15.2		033
1991	TP2	1991	10	08.93958	00	37	18.82	+10	08	17.2		033
1991	TP2	1991	10	09.94861	00	36	17.70	+10	01	49.8		033
1991	TQ2	* 1991	10	07.95486	00	38	49.28	+09	46	40.1	18.9	033
1991	TQ2	1991	10	07.99931	00	38	46.71	+09	46	23.2		033
1991	TQ2	1991	10	08.93958	00	37	54.96	+09	40	37.1		033
1991	TQ2	1991	10	09.94861	00	36	59.50	+09	34	19.6		033
1991	TR2	* 1991	10	07.95486	00	39	21.99	+10	53	13.5	19.6	033
1991	TR2	1991	10	07.99931	00	39	19.19	+10	52	57.2		033
1991	TR2	1991	10	08.93958	00	38	24.90	+10	47	33.8		033
1991	TR2	1991	10	09.94861	00	37	27.10	+10	41	42.8		033
1991	TS2	* 1991	10	07.95486	00	40	35.63	+08	09	45.8	18.5	033
1991	TS2	1991	10	07.99931	00	40	32.54	+08	09	47.9		033
1991	TS2	1991	10	08.93958	00	39	29.94	+08	10	32.4		033
1991	TS2	1991	10	09.94861	00	38	23.02	+08	11	18.5		033
1991	TT2	* 1991	10	07.95486	00	41	52.65	+11	04	43.5	19.2	033
1991	TT2	1991	10	07.99931	00	41	50.08	+11	04	37.0		033
1991	TT2	1991	10	08.93958	00	41	01.89	+11	02	17.8		033
1991	TT2	1991	10	09.94861	00	40	10.20	+10	59	46.5		033
1991	TU2	* 1991	10	07.95486	00	42	03.54	+10	44	31.5	19.5	033
1991	TU2	1991	10	07.99931	00	42	01.08	+10	44	16.9		033
1991	TU2	1991	10	08.93958	00	41	14.63	+10	38	55.1		033
1991	TU2	1991	10	09.94861	00	40	24.86	+10	33	04.8		033
1991	TV2	* 1991	10	07.95486	00	42	34.73	+10	00	53.7	19.1	033
1991	TV2	1991	10	07.99931	00	42	31.74	+10	00	51.2		033
1991	TV2	1991	10	08.93958	00	41	32.20	+09	59	58.9		033
1991	TV2	1991	10	09.94861	00	40	28.60	+09	58	59.8		033
1991	TW2	* 1991	10	07.95486	00	42	41.96	+09	57	26.3	17.4	033
1991	TW2	1991	10	07.99931	00	42	39.83	+09	57	10.2		033
1991	TW2	1991	10	08.93958	00	42	01.07	+09	51	23.1		033
1991	TW2	1991	10	09.94861	00	41	19.53	+09	45	04.1		033
1991	TX2	* 1991	10	07.95486	00	43	26.70	+08	28	11.8	18.4	033
1991	TX2	1991	10	07.99931	00	43	24.30	+08	27	55.7		033
1991	TX2	1991	10	08.93958	00	42	36.26	+08	22	23.5		033
1991	TX2	1991	10	09.94861	00	41	44.85	+08	16	24.1		033
1991	TY2	* 1991	10	07.95486	00	44	14.86	+09	38	26.3	19.8	033
1991	TY2	1991	10	07.99931	00	44	12.65	+09	38	09.9		033
1991	TY2	1991	10	08.93958	00	43	30.79	+09	32	53.1		033
1991	TY2	1991	10	09.94861	00	42	46.05	+09	27	08.7		033
1991	TZ2	* 1991	10	07.95486	00	45	04.51	+09	33	36.8	19.3	033
1991	TZ2	1991	10	07.99931	00	45	01.31	+09	33	38.2		033
1991	TZ2	1991	10	08.93958	00	43	57.95	+09	34	07.8		033

1991	TZ2		1991	10	09.94861	00	42	50.19	+09	34	35.6		033
1991	TA3	*	1991	10	07.95486	00	45	19.60	+11	05	31.9	19.2	033
1991	TA3		1991	10	07.99931	00	45	17.37	+11	05	13.4		033
1991	TA3		1991	10	08.93958	00	44	37.26	+10	58	16.4		033
1991	TA3		1991	10	09.94861	00	43	54.24	+10	50	44.4		033
1991	TB3	*	1991	10	07.95486	00	46	11.23	+10	26	01.1	18.6	033
1991	TB3		1991	10	07.99931	00	46	08.90	+10	25	40.2		033
1991	TB3		1991	10	08.93958	00	45	26.57	+10	18	03.5		033
1991	TB3		1991	10	09.94861	00	44	41.24	+10	09	50.1		033
1991	TC3	*	1991	10	07.95486	00	46	29.90	+08	18	31.7	19.1	033
1991	TC3		1991	10	07.99931	00	46	26.95	+08	18	19.0		033
1991	TC3		1991	10	08.93958	00	45	28.10	+08	13	52.4		033
1991	TC3		1991	10	09.94861	00	44	24.92	+08	09	03.6		033
1991	TD3	*	1991	10	07.95486	00	47	03.70	+10	55	18.8	18.1	033
1991	TD3		1991	10	07.99931	00	47	01.46	+10	54	54.2		033
1991	TD3		1991	10	08.93958	00	46	22.49	+10	45	51.2		033
1991	TD3		1991	10	09.94861	00	45	40.56	+10	36	03.2		033
1991	TE3	*	1991	10	07.95486	00	47	46.25	+10	25	46.0	19.7	033
1991	TE3		1991	10	07.99931	00	47	43.87	+10	25	33.1		033
1991	TE3		1991	10	08.93958	00	47	00.55	+10	20	28.1		033
1991	TE3		1991	10	09.94861	00	46	13.99	+10	14	55.6		033
1991	TG3	*	1991	10	04.85972	00	05	58.09	+06	38	01.1	19.0	033
1991	TG3		1991	10	04.92917	00	05	53.89	+06	37	51.0		033
1991	TG3		1991	10	05.86111	00	04	59.42	+06	35	40.2		033
1991	TH3	*	1991	10	04.85972	00	06	13.23	+07	53	06.4	18.7	033
1991	TH3		1991	10	04.92917	00	06	10.30	+07	52	21.7		033
1991	TH3		1991	10	05.86111	00	05	34.62	+07	42	00.1		033
1991	TJ3	*	1991	10	04.85972	00	07	50.98	+09	06	23.3	19.2	033
1991	TJ3		1991	10	04.92917	00	07	47.27	+09	05	55.0		033
1991	TJ3		1991	10	05.86111	00	06	58.84	+08	59	28.3		033
1991	TK3	*	1991	10	04.85972	00	07	55.04	+09	25	36.8	19.1	033
1991	TK3		1991	10	04.92917	00	07	50.56	+09	25	17.8		033
1991	TK3		1991	10	05.86111	00	06	51.94	+09	21	02.7		033
1991	TL3	*	1991	10	04.85972	00	08	00.57	+09	17	52.2	18.8	033
1991	TL3		1991	10	04.92917	00	07	57.41	+09	17	31.8		033
1991	TL3		1991	10	05.86111	00	07	15.77	+09	12	58.8		033
1991	TM3	*	1991	10	04.85972	00	08	40.76	+08	30	41.4	19.4	033
1991	TM3		1991	10	04.92917	00	08	36.96	+08	30	37.4		033
1991	TM3		1991	10	05.86111	00	07	46.98	+08	29	23.8		033
1991	TN3	*	1991	10	04.85972	00	10	22.41	+09	24	23.0	17.9	033
1991	TN3		1991	10	04.92917	00	10	18.37	+09	23	59.3		033
1991	TN3		1991	10	05.86111	00	09	26.96	+09	18	42.2		033
1991	TO3	*	1991	10	04.85972	00	11	46.02	+07	09	16.5	18.9	033
1991	TO3		1991	10	04.92917	00	11	42.81	+07	08	48.0		033
1991	TO3		1991	10	05.86111	00	11	01.22	+07	02	29.2		033
1991	TP3	*	1991	10	04.85972	00	12	39.66	+09	10	28.7	18.2	033
1991	TP3		1991	10	04.92917	00	12	35.54	+09	10	07.3		033
1991	TP3		1991	10	05.86111	00	11	41.90	+09	05	19.7		033
1991	TQ3	*	1991	10	04.85972	00	12	57.38	+08	37	56.6	19.0	033
1991	TQ3		1991	10	04.92917	00	12	53.61	+08	37	20.9		033
1991	TQ3		1991	10	05.86111	00	12	04.51	+08	29	22.2		033
1991	TR3	*	1991	10	04.85972	00	13	52.52	+09	02	02.4	19.0	033
1991	TR3		1991	10	04.92917	00	13	48.22	+09	01	43.7		033
1991	TR3		1991	10	05.86111	00	12	53.03	+08	57	32.1		033
1991	TS3	*	1991	10	04.85972	00	15	07.62	+09	12	27.9	19.6	033
1991	TS3		1991	10	04.92917	00	15	04.12	+09	11	59.8		033
1991	TS3		1991	10	05.86111	00	14	19.24	+09	06	08.1		033
1991	TT3	*	1991	10	04.85972	00	15	42.23	+08	00	04.4	18.4	033
1991	TT3		1991	10	04.92917	00	15	38.84	+07	59	27.2		033

1991	TT3	1991	10	05.86111	00	14	55.57	+07	51	05.2		033
1991	TU3	* 1991	10	04.85972	00	15	47.00	+07	25	25.2	18.7	033
1991	TU3	1991	10	04.92917	00	15	43.21	+07	25	18.4		033
1991	TU3	1991	10	05.86111	00	14	53.47	+07	23	55.6		033
1991	TV3	* 1991	10	04.85972	00	15	47.34	+08	54	50.8	18.6	033
1991	TV3	1991	10	04.92917	00	15	43.54	+08	54	29.7		033
1991	TV3	1991	10	05.86111	00	14	53.75	+08	49	58.5		033
1991	TW3	* 1991	10	04.85972	00	15	55.47	+07	06	40.4	19.3	033
1991	TW3	1991	10	04.92917	00	15	51.66	+07	06	17.0		033
1991	TW3	1991	10	05.86111	00	15	02.43	+07	00	58.2		033
1991	TX3	* 1991	10	04.85972	00	16	29.38	+09	10	13.3	19.5	033
1991	TX3	1991	10	04.92917	00	16	25.83	+09	09	57.9		033
1991	TX3	1991	10	05.86111	00	15	40.22	+09	06	47.1		033
1991	TY3	* 1991	10	04.85972	00	16	32.81	+09	10	28.5	19.2	033
1991	TY3	1991	10	04.92917	00	16	29.33	+09	09	53.8		033
1991	TY3	1991	10	05.86111	00	15	45.39	+09	02	13.6		033
1991	TZ3	* 1991	10	04.85972	00	16	45.23	+06	32	31.0	19.1	033
1991	TZ3	1991	10	04.92917	00	16	41.68	+06	31	53.1		033
1991	TZ3	1991	10	05.86111	00	15	55.80	+06	23	25.5		033
1991	TA4	* 1991	10	04.85972	00	17	25.01	+06	44	46.6	19.4	033
1991	TA4	1991	10	04.92917	00	17	21.68	+06	44	22.6		033
1991	TA4	1991	10	05.86111	00	16	37.48	+06	38	57.7		033
1991	TB4	* 1991	10	04.85972	00	17	25.06	+06	15	17.3	19.3	E 033
1991	TB4	1991	10	04.92917	00	17	20.45	+06	15	05.3		E 033
1991	TB4	1991	10	05.86111	00	16	20.31	+06	12	23.2		E 033
1991	TH4	* 1991	10	04.97361	00	23	00.12	+11	22	34.5		033
1991	TH4	1991	10	05.01944	00	22	57.82	+11	22	25.3		033
1991	TH4	1991	10	05.88472	00	22	15.32	+11	19	30.6	18.1	033
1991	TJ4	* 1991	10	04.97361	00	24	22.04	+09	04	47.5		033
1991	TJ4	1991	10	05.01944	00	24	19.52	+09	04	32.3		033
1991	TJ4	1991	10	05.88472	00	23	33.92	+08	59	57.1	19.5	033
1991	TK4	* 1991	10	04.97361	00	27	00.60	+09	46	38.9		033
1991	TK4	1991	10	05.01944	00	26	58.55	+09	46	17.5		033
1991	TK4	1991	10	05.88472	00	26	21.58	+09	39	32.3	18.4	033
1991	TL4	* 1991	10	04.97361	00	28	15.96	+11	15	46.6		033
1991	TL4	1991	10	05.01944	00	28	14.13	+11	15	08.6		033
1991	TL4	1991	10	05.88472	00	27	41.14	+11	03	23.7	17.1	033
1991	TM4	* 1991	10	04.97361	00	29	58.23	+09	58	09.1		033
1991	TM4	1991	10	05.01944	00	29	55.87	+09	57	40.3		033
1991	TM4	1991	10	05.88472	00	29	13.69	+09	49	05.7	18.5	033
1991	TN4	* 1991	10	04.97361	00	32	26.23	+10	57	48.6		033
1991	TN4	1991	10	05.01944	00	32	24.02	+10	57	20.0		033
1991	TN4	1991	10	05.88472	00	31	44.30	+10	48	44.3	18.3	033
1991	TO4	* 1991	10	04.97361	00	32	44.57	+10	12	17.4		033
1991	TO4	1991	10	05.01944	00	32	42.03	+10	12	02.1		033
1991	TO4	1991	10	05.88472	00	31	56.56	+10	07	18.7	18.8	033
1991	TP4	* 1991	10	04.97361	00	33	00.94	+10	57	37.3		033
1991	TP4	1991	10	05.01944	00	32	58.49	+10	57	30.3		033
1991	TP4	1991	10	05.88472	00	32	14.58	+10	55	27.0	19.1	033
1991	TQ4	* 1991	10	04.97361	00	33	06.64	+11	35	50.1		033
1991	TQ4	1991	10	05.01944	00	33	03.46	+11	35	35.9		033
1991	TQ4	1991	10	05.88472	00	32	06.34	+11	31	26.3	18.6	033
1991	TR4	* 1991	10	04.97361	00	34	03.98	+10	01	16.3		033
1991	TR4	1991	10	05.01944	00	34	00.87	+10	01	10.5		033
1991	TR4	1991	10	05.88472	00	33	05.44	+09	59	18.4	18.6	033
6114	P-L	1991	10	04.85972	00	09	21.60	+07	57	09.9	19.2	033
6114	P-L	1991	10	04.92917	00	09	17.71	+07	56	58.8		033
6114	P-L	1991	10	05.86111	00	08	26.49	+07	54	22.0		033
248		1991	09	10.10208	02	23	32.65	+18	31	37.6		033

248	1991 09 11.08403	02 23 27.03	+18 31 31.0	033
248	1991 09 11.12743	02 23 26.65	+18 31 29.6	033
327	1991 09 10.10208	02 29 04.60	+19 40 29.7	033
327	1991 09 11.08403	02 28 57.21	+19 43 25.1	033
327	1991 09 11.12743	02 28 56.79	+19 43 33.0	033
400	1991 09 13.88889	21 42 50.49	-12 25 37.2	16.2 033
400	1991 09 13.94375	21 42 48.35	-12 25 39.8	033
465	1991 09 10.10208	02 32 09.44	+20 55 25.3	033
465	1991 09 11.08403	02 31 57.52	+20 55 54.1	033
465	1991 09 11.12743	02 31 56.93	+20 55 54.6	033
830	1991 10 07.95486	00 46 45.81	+08 20 52.3	14.5 033
830	1991 10 07.99931	00 46 43.70	+08 20 42.3	033
830	1991 10 08.93958	00 46 00.44	+08 17 07.6	033
830	1991 10 09.94861	00 45 14.08	+08 13 15.0	033
1289	1991 08 06.96806	22 20 52.59	-08 20 34.5	15.4 033
1289	1991 08 07.01250	22 20 50.77	-08 20 45.0	033
1289	1991 08 07.99479	22 20 11.52	-08 24 40.3	033
1289	1991 08 12.00556	22 17 22.92	-08 41 35.5	033
1315	1991 09 10.10208	02 28 07.66	+19 16 59.5	033
1315	1991 09 11.08403	02 28 00.11	+19 16 13.9	033
1315	1991 09 11.12743	02 27 59.72	+19 16 11.9	033
1823	1991 10 04.85972	00 17 22.92	+06 33 03.3	16.6 033
1823	1991 10 04.92917	00 17 18.68	+06 32 38.3	033
1823	1991 10 05.86111	00 16 23.32	+06 27 03.1	033
1837	1991 10 04.85972	00 16 50.98	+09 09 20.5	17.0 033
1837	1991 10 04.92917	00 16 46.78	+09 08 50.9	033
1837	1991 10 05.86111	00 15 52.01	+09 02 36.0	033
1964	1991 10 07.95486	00 40 11.24	+07 55 55.2	16.3 033
1964	1991 10 07.99931	00 40 08.92	+07 55 37.4	033
2026	1991 10 07.95486	00 40 10.37	+08 05 26.3	17.7 033
2026	1991 10 07.99931	00 40 07.77	+08 05 11.4	033
2026	1991 10 08.93958	00 39 15.60	+08 00 02.7	033
2026	1991 10 09.94861	00 38 19.79	+07 54 29.3	033
2130	1991 10 07.95486	00 43 37.03	+09 44 58.8	16.4 033
2130	1991 10 07.99931	00 43 33.99	+09 44 51.5	033
2130	1991 10 08.93958	00 42 34.05	+09 42 17.7	033
2130	1991 10 09.94861	00 41 30.06	+09 39 28.7	033
2234	1991 10 07.95486	00 39 20.71	+10 22 04.2	16.9 033
2234	1991 10 07.99931	00 39 17.27	+10 22 08.7	033
2234	1991 10 08.93958	00 38 07.56	+10 23 51.5	033
2234	1991 10 09.94861	00 36 53.14	+10 25 37.2	033
2331	1991 10 04.85972	00 05 26.76	+06 50 39.1	16.9 033
2331	1991 10 04.92917	00 05 22.79	+06 50 10.2	033
2331	1991 10 05.86111	00 04 31.27	+06 43 47.5	033
3260	1991 09 10.10208	02 35 24.86	+20 58 35.6	17.3 033
3260	1991 09 11.08403	02 35 30.56	+20 59 41.5	033
3260	1991 09 11.12743	02 35 30.69	+20 59 43.1	033
3321	1991 09 04.97222	21 48 06.95	-10 53 23.7	16.2 033
3321	1991 09 05.01736	21 48 05.10	-10 53 48.3	033
3321	1991 09 13.88889	21 43 11.65	-12 10 21.4	16.3 033
3321	1991 09 13.94375	21 43 10.04	-12 10 47.7	033
4038	1991 09 10.10208	02 23 16.56	+21 07 17.7	033
4038	1991 09 11.08403	02 23 24.26	+21 13 14.4	033
4038	1991 09 11.12743	02 23 24.42	+21 13 31.7	033
4528	1991 08 06.96806	22 11 06.96	-07 21 40.2	17.2 033
4528	1991 08 07.01250	22 11 05.03	-07 21 57.3	033
4528	1991 08 07.99479	22 10 22.19	-07 28 09.4	033
4528	1991 08 12.00556	22 07 20.01	-07 54 35.7	033

4528	1991 09 13.88889	21 41 37.79	-11 48 58.6	17.6	033
4528	1991 09 13.94375	21 41 35.61	-11 49 19.7		033

046 Klet

A. Mrkos, Klet Observatory, CS-38101 Cesky Krumlov, Czechoslovakia

Observers A. Mrkos, Z. Vavrova

0.6-m Maksutov reflector

1953 TA1	1991 09 02.86543	22 14 13.29	-00 34 54.0		046
1953 TA1	1991 09 02.87955	22 14 12.76	-00 35 00.6		046
1953 TA1	1991 09 03.84969	22 13 31.24	-00 42 23.4		046
1953 TA1	1991 09 03.86381	22 13 30.56	-00 42 29.6		046
1986 RW2	1990 12 08.81471	04 46 19.40	+24 06 41.9	16.8	046
1986 RW2	1990 12 08.82756	04 46 18.46	+24 06 39.1		046
1987 QW7	1991 09 06.88753	23 09 54.53	-01 34 58.7		046
1987 QW7	1991 09 06.90166	23 09 53.88	-01 35 03.9		046
1987 QW7	1991 09 09.89083	23 07 29.13	-01 52 33.0		046
1987 QW7	1991 09 09.90495	23 07 28.42	-01 52 38.2		046
1991 FL4	1991 04 09.91586	12 35 38.62	+00 04 56.3	16.8	046
1991 FL4	1991 04 09.93090	12 35 37.92	+00 05 05.5		046

095 Crimean Astrophysical Observatory

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1942 CG	1990 11 15.99652	05 35 23.75	+16 06 10.4	15.0	095
1942 CG	1990 11 16.01736	05 35 22.96	+16 06 07.0	15.0	095
1950 DE	1990 03 01.82650	09 49 09.69	+12 35 24.8	16.5	095
1953 FK1	1990 09 27.04833	02 08 56.51	+20 09 30.7	15.0	095
1953 FK1	1990 09 27.06221	02 08 55.92	+20 09 33.5	15.0	095
1953 FK1	1990 10 17.87213	01 48 53.36	+21 00 03.6	15.5	E 095
1953 FK1	1990 10 17.88637	01 48 52.31	+21 00 03.1	15.5	E 095
1953 FK1	1990 11 14.79771	01 21 41.87	+20 42 09.8	15.0	095
1953 FK1	1990 11 14.81194	01 21 41.08	+20 42 05.9	15.0	095
1955 EH	1990 09 22.96877	01 14 14.71	-00 32 46.0		E 095
1955 EH	1990 09 22.98266	01 14 14.01	-00 32 52.8		E 095
1969 TL1	1990 08 28.87221	22 19 46.19	-15 11 13.5	16.5	E 095
1969 TL1	1990 08 28.88610	22 19 45.38	-15 11 20.9	16.5	E 095
1971 TF	1990 10 23.90034	00 50 16.96	+07 52 05.9		E 095
1972 HR	1990 09 24.97558	02 16 29.08	+08 09 37.0		095
1972 HR	1990 09 24.99641	02 16 28.51	+08 09 33.0		095
1973 AW3	1990 11 15.91278	03 24 49.92	+16 00 54.9	16.1	095
1973 AW3	1990 11 15.92361	03 24 48.92	+16 00 49.8	16.0	095
1973 AW3	1990 11 21.85087	03 19 04.83	+15 55 23.0	16.0	095
1973 AW3	1990 11 21.87153	03 19 03.63	+15 55 18.0	16.0	095
1973 AW3	1990 11 23.83368	03 17 11.91	+15 53 32.3	16.5	P 095
1973 AW3	1990 11 23.84722	03 17 11.04	+15 53 42.9	16.5	095
1973 QO1	1990 08 29.93125	23 42 56.35	+06 57 28.5	15.2	E 095
1973 QO1	1990 08 29.94792	23 42 55.59	+06 57 32.2	15.2	E 095
1973 UB5	1990 08 26.99832	00 22 11.58	+02 38 38.7	16.8	095
1973 UB5	1990 08 27.01220	00 22 11.11	+02 38 36.7	16.8	095
1973 UB5	1990 08 30.99852	00 20 27.53	+02 27 57.0	16.8	095
1973 UB5	1990 08 31.01241	00 20 27.17	+02 27 58.1	16.8	095
1973 UB5	1990 09 15.88955	00 10 58.73	+01 28 05.9	16.2	E 095
1973 UB5	1990 09 15.90344	00 10 58.21	+01 27 59.7	16.2	E 095
1973 UB5	1990 09 23.89652	00 05 13.78	+00 51 17.0	16.0	095
1973 UB5	1990 09 26.95123	00 02 59.75	+00 36 56.2	15.5	095

1973 UB5	1990 09	26.97195	00 02	58.88	+00 36	50.5	15.5	095
1973 UB5	1990 10	11.83965	23 52	53.19	-00 28	26.2	15.8	095
1973 UB5	1990 10	14.82290	23 51	10.23	-00 39	34.4	15.3	095
1973 UB5	1990 10	14.85068	23 51	09.16	-00 39	42.4	15.3	095
1973 UB5	1990 10	15.82212	23 50	37.31	-00 43	09.8	16.2	095
1973 UB5	1990 10	15.83601	23 50	36.88	-00 43	10.2	16.2	095
1974 FO	1990 08	28.87221	22 44	33.69	-10 58	39.4	16.5	E 095
1974 FO	1990 08	28.88610	22 44	32.81	-10 58	43.6	16.5	E 095
1974 ST	1990 05	17.88218	15 28	48.42	-15 56	57.2		095
1974 ST	1990 05	17.89676	15 28	47.62	-15 56	55.2		095
1974 ST	1990 05	23.86111	15 23	52.32	-15 42	41.8		095
1974 ST	1990 05	23.87500	15 23	51.49	-15 42	40.5		095
1976 YA	1990 11	20.86764	04 57	06.07	+19 27	16.8	16.0	E 095
1976 YA	1990 11	20.88153	04 57	05.34	+19 27	02.8	16.0	E 095
1977 QY3	1990 05	18.84038	13 44	02.10	-00 38	25.2	16.5	095
1977 QY3	1990 05	18.85427	13 44	01.40	-00 38	22.0	16.5	095
1977 QY3	1990 05	20.83745	13 42	40.75	-00 40	28.5	16.2	095
1978 EN10	1990 08	28.87221	22 28	02.50	-12 49	13.0	17.0	095
1978 EN10	1990 08	28.88610	22 28	01.56	-12 49	19.5	17.0	M 095
1978 NY7	1990 09	24.88156	00 32	28.71	-01 10	44.8	16.0	095
1978 NY7	1990 09	24.90267	00 32	27.69	-01 10	52.2	16.0	095
1979 OB9	1990 10	23.90034	00 34	28.09	+05 59	55.4		E 095
1979 QB10	1990 08	24.88595	22 20	30.69	-11 18	33.1	15.5	E 095
1979 QB10	1990 08	24.90018	22 20	30.00	-11 18	34.4	15.5	095
1979 QB10	1990 08	28.87221	22 17	05.94	-11 31	39.2	16.0	095
1979 QB10	1990 08	28.88610	22 17	05.19	-11 31	43.9	16.0	095
1979 SR2	1990 09	15.88955	00 31	35.11	+07 15	48.6	16.2	095
1979 SR2	1990 09	15.90344	00 31	34.61	+07 15	46.2		095
1979 SR2	1990 09	23.89652	00 26	01.14	+06 55	09.6	16.2	095
1979 SR2	1990 10	11.83965	00 12	48.01	+05 51	36.8	16.5	E 095
1979 SU2	1990 10	15.90614	01 17	09.72	+14 37	50.0	16.2	095
1979 SU2	1990 10	15.92003	01 17	09.03	+14 37	44.9	16.2	095
1979 SU11	1990 09	22.96877	01 08	34.84	+03 05	09.7	16.2	095
1979 SU11	1990 09	22.98266	01 08	34.32	+03 05	05.0	16.2	095
1979 SU11	1990 09	29.96794	01 03	45.54	+02 34	14.9		095
1979 SU11	1990 10	23.90034	00 46	17.70	+00 57	07.2		095
1980 RJ	1990 08	28.95485	23 14	32.13	-08 06	28.7	16.0	095
1980 RJ	1990 08	28.97290	23 14	31.12	-08 06	30.7	16.0	095
1980 RJ	1990 09	21.88260	22 49	16.83	-08 40	43.6	16.0	E 095
1980 TH	1990 08	28.87221	22 20	38.56	-10 35	43.2		095
1980 TH	1990 08	28.88610	22 20	37.69	-10 35	46.4		095
1980 TX3	1990 11	15.91278	03 28	42.37	+17 37	44.9	16.3	095
1980 TX3	1990 11	15.92361	03 28	41.51	+17 37	40.0	16.3	095
1980 TX3	1990 11	23.83368	03 21	38.10	+17 08	20.2	16.5	095
1980 TX3	1990 11	23.84722	03 21	37.39	+17 08	16.5	16.5	095
1981 EX24	1990 11	15.91278	03 16	12.65	+16 05	31.2	16.8	095
1981 EX24	1990 11	15.92361	03 16	11.55	+16 05	26.2	16.8	095
1981 EX38	1990 09	15.97950	01 13	05.41	+20 50	04.2	16.5	095
1981 EX41	1990 11	20.86764	04 52	00.44	+21 01	27.9		095
1981 WE1	1990 09	18.82558	23 00	27.03	+04 40	54.5	15.5	095
1981 WE1	1990 09	18.84606	23 00	26.23	+04 40	38.2	15.5	095
1981 WE1	1990 09	22.79170	22 58	07.44	+03 55	08.3	16.0	095
1981 WE1	1990 09	22.81254	22 58	06.74	+03 54	55.0	16.0	095
1981 WE1	1990 09	24.78819	22 57	02.33	+03 31	51.5	15.8	095
1981 WE1	1990 09	24.80894	22 57	01.58	+03 31	33.4	15.8	095
1982 FJ	1990 09	15.88955	00 33	41.78	+06 23	27.1	16.8	E 095
1982 FJ	1990 09	15.90344	00 33	41.18	+06 23	30.0	16.8	E 095
1982 FJ	1990 09	23.89652	00 27	13.08	+06 15	07.7	16.5	095
1982 FJ	1990 10	15.82212	00 09	12.03	+05 40	45.2	16.2	095

1982 FJ	1990 10	15.83601	00 09	11.39	+05 40	45.9	16.2	095
1982 FF3	1990 08	26.99832	00 36	04.59	+06 54	15.1	16.8	095
1982 FF3	1990 08	27.01220	00 36	04.05	+06 54	13.2	16.8	095
1982 FF3	1990 08	30.99852	00 34	33.87	+06 49	41.6	16.5	095
1982 FF3	1990 08	31.01241	00 34	33.37	+06 49	41.5	16.5	095
1982 FF3	1990 09	15.88955	00 24	09.11	+05 59	18.2	16.0	095
1982 FF3	1990 09	15.90344	00 24	08.43	+05 59	05.8	16.0	095
1982 FF3	1990 09	23.89652	00 16	54.82	+05 16	56.1	16.0	095
1982 FF3	1990 10	11.83965	00 00	10.18	+03 25	54.0	16.8	095
1982 FF3	1990 10	15.82212	23 56	59.69	+03 02	26.6	16.2	095
1982 FF3	1990 10	15.83601	23 56	59.13	+03 02	24.1	16.2	095
1982 MA	1990 08	28.87221	22 27	36.50	-09 31	58.8	16.5	095
1982 MA	1990 08	28.88610	22 27	35.69	-09 32	05.3	16.5	095
1982 TP1	1990 11	23.83368	03 24	49.36	+19 12	16.2		095
1982 TP1	1990 11	23.84722	03 24	48.60	+19 12	15.5		095
1982 UU5	1990 09	18.82558	23 03	55.89	+01 35	13.8		095
1982 UU5	1990 09	18.84606	23 03	54.67	+01 35	05.3		095
1982 UU5	1990 09	22.79170	23 00	48.54	+01 13	13.6		095
1982 UU5	1990 09	22.81254	23 00	47.70	+01 13	06.2		095
1982 UU5	1990 09	26.85738	22 57	51.17	+00 50	57.9		095
1982 UU5	1990 09	26.87822	22 57	50.56	+00 50	47.8		095
1982 UD7	1990 10	23.90034	01 02	20.55	+06 49	31.3		E 095
1982 UX10	1990 09	15.97950	00 59	59.06	+23 13	24.2		E 095
1982 UX10	1990 09	23.96873	00 54	24.40	+22 25	27.0		095
1982 UX10	1990 10	23.82674	00 31	21.55	+17 25	35.3		095
1983 AD	1990 11	14.97719	05 15	00.99	+21 56	42.9		095
1983 AD	1990 11	14.99108	05 15	00.53	+21 56	44.7		095
1983 PZ	1990 08	26.99832	00 19	33.05	+08 37	37.2	16.5	095
1983 PZ	1990 08	27.01220	00 19	32.89	+08 37	35.2	16.5	095
1983 PZ	1990 08	30.99852	00 18	14.43	+08 22	34.9	16.5	095
1983 PZ	1990 08	31.01241	00 18	14.01	+08 22	33.9	16.5	095
1983 PZ	1990 09	15.88955	00 08	57.11	+06 39	08.9	15.8	095
1983 PZ	1990 09	15.90344	00 08	56.43	+06 39	07.3	15.8	095
1983 PZ	1990 09	23.89652	00 02	49.26	+05 27	20.6	15.8	095
1983 PZ	1990 10	11.83965	23 50	35.19	+02 40	01.8	16.0	095
1983 PZ	1990 10	15.83601	23 48	44.25	+02 07	14.9	16.2	D 095
1983 QH1	1990 09	26.95123	00 01	58.75	-03 56	16.9	15.0	095
1983 QH1	1990 09	26.97195	00 01	57.76	-03 56	30.5	15.0	095
1983 QH1	1990 10	14.82290	23 50	24.97	-05 53	02.6	16.0	095
1983 QH1	1990 10	14.85068	23 50	24.03	-05 53	11.0	16.0	095
1983 RP2	1990 09	22.96877	01 17	02.07	+02 21	23.7	16.0	095
1983 RP2	1990 09	22.98266	01 17	01.41	+02 21	17.6	16.0	095
1983 RP2	1990 09	29.96794	01 12	26.78	+01 24	53.3		095
1983 RP2	1990 10	23.90034	00 53	58.16	-01 27	31.2		E 095
1983 RC5	1990 08	26.91152	22 24	04.85	-07 21	12.8	16.2	E 095
1983 RC5	1990 08	26.92679	22 24	04.39	-07 21	19.2	16.2	E 095
1983 RC5	1990 08	28.87221	22 22	01.19	-07 25	35.4	16.0	095
1983 RC5	1990 08	28.88610	22 22	00.19	-07 25	40.6	16.0	095
1983 RC5	1990 08	30.91381	22 19	51.87	-07 30	12.6	16.0	E 095
1983 RC5	1990 08	30.92770	22 19	50.99	-07 30	14.0	16.0	E 095
1984 EC	1990 09	23.89652	00 02	05.34	+03 27	36.6	16.5	095
1984 EX	1990 08	28.87221	22 25	50.56	-11 32	55.5	16.5	095
1984 EX	1990 08	28.88610	22 25	49.75	-11 32	59.0	16.5	095
1984 HE1	1990 05	16.90726	15 13	30.55	-15 11	10.8		095
1984 SY5	1990 09	22.96877	01 20	50.58	+04 41	49.2	17.0	095
1984 SY5	1990 09	22.98266	01 20	50.13	+04 41	44.4	17.0	095
1985 CH1	1990 10	18.80208	23 03	14.44	-07 51	40.2	15.5	095
1985 CH1	1990 10	18.81493	23 03	13.64	-07 51	45.7	15.5	095
1985 CR2	1990 09	24.04164	01 50	26.72	+12 22	50.0		095

1985 QR	1990 08	28.87221	22 32	33.69	-09 20	36.0	17.0	095
1985 QR	1990 08	28.88610	22 32	32.81	-09 20	44.2	17.0	095
1985 TA2	1990 09	18.82558	23 01	19.01	+04 38	14.0	15.8	095
1985 TA2	1990 09	18.84606	23 01	18.04	+04 38	07.7	15.8	095
1985 TA2	1990 09	22.79170	22 58	13.49	+04 24	36.7	16.5	095
1985 TA2	1990 09	22.81254	22 58	12.58	+04 24	32.1	16.5	095
1985 TA2	1990 09	24.78819	22 56	43.94	+04 17	32.1	15.8	095
1985 TA2	1990 09	24.80894	22 56	42.99	+04 17	25.7	15.8	095
1985 TA2	1990 09	26.85738	22 55	13.99	+04 10	05.9	16.0	095
1985 TA2	1990 09	26.87822	22 55	13.18	+04 09	59.9	16.0	095
1985 UB5	1990 09	24.04164	01 54	26.50	+13 24	04.1		095
1985 UB5	1990 09	30.03461	01 51	30.00	+12 44	14.5		095
1985 UB5	1990 10	15.90614	01 41	13.26	+10 38	20.5		N 095
1985 UB5	1990 10	15.92003	01 41	12.74	+10 38	07.7		N 095
1986 PX4	1990 09	23.89652	00 15	56.78	+00 34	36.0	16.2	095
1986 PX4	1990 09	26.95123	00 13	22.03	+00 20	57.3	15.3	095
1986 PX4	1990 09	26.97195	00 13	20.97	+00 20	51.1	15.3	095
1986 PX4	1990 10	11.83965	00 01	49.82	-00 37	27.7	15.8	095
1986 PX4	1990 10	14.82290	23 59	58.26	-00 46	00.7	15.3	095
1986 PX4	1990 10	14.85068	23 59	57.17	-00 46	07.9	15.3	095
1986 PX4	1990 10	15.82212	23 59	23.69	-00 48	37.8	16.5	095
1986 PX4	1990 10	15.83601	23 59	23.31	-00 48	40.8	16.5	095
1986 PX5	1990 08	28.87221	22 43	59.50	-15 22	54.6		E 095
1986 PX5	1990 08	28.88610	22 43	58.88	-15 23	03.0		E 095
1986 QT1	1990 09	30.03461	01 30	46.82	+09 18	45.2	16.5	095
1986 QT1	1990 10	15.90614	01 17	34.15	+08 38	16.5	16.0	095
1986 QT1	1990 10	15.92003	01 17	33.40	+08 38	13.9	16.0	095
1986 RW2	1990 11	14.97719	05 12	09.41	+24 21	42.1		095
1986 RW2	1990 11	14.99108	05 12	08.60	+24 21	41.1		095
1986 RU5	1990 09	26.85738	22 41	53.15	+02 49	33.7	16.0	095
1986 RU5	1990 09	26.87822	22 41	52.19	+02 49	26.0	16.0	095
1986 TW9	1990 09	22.79170	23 13	10.62	+05 21	08.4	14.9	095
1986 TW9	1990 09	22.81254	23 13	09.64	+05 21	03.7	14.9	095
1986 UO	1990 10	14.82290	23 36	20.39	-03 23	14.2	16.0	095
1986 UO	1990 10	14.85068	23 36	19.66	-03 23	14.6	16.0	095
1986 UV	1990 08	28.87221	22 25	51.63	-11 13	06.7	16.5	095
1986 UV	1990 08	28.88610	22 25	50.81	-11 13	12.8	16.5	095
1986 UH3	1990 09	23.89652	00 27	43.26	+04 11	47.4	16.5	095
1986 VG1	1990 03	21.96655	12 13	40.55	+30 30	54.2	16.0	095
1986 XT	1990 11	14.88692	02 37	29.38	+21 10	37.5	16.2	095
1986 XT	1990 11	14.90081	02 37	28.62	+21 10	41.6	16.2	095
1987 DE6	1990 08	29.93125	00 05	49.67	+06 53	57.5	16.0	095
1987 DE6	1990 08	29.94792	00 05	49.06	+06 53	54.5	16.0	095
1987 DE6	1990 09	18.91377	23 51	51.39	+06 15	48.5	16.5	E 095
1987 DE6	1990 09	18.93461	23 51	50.40	+06 15	45.1	16.5	E 095
1987 DE6	1990 09	22.88197	23 48	42.81	+06 02	52.1	16.5	E 095
1987 DE6	1990 09	22.89586	23 48	42.11	+06 02	51.1	16.5	E 095
1987 DE6	1990 10	17.77699	23 31	44.57	+04 31	41.7	16.0	095
1987 DE6	1990 10	17.79088	23 31	44.11	+04 31	39.7	16.0	095
1987 DS6	1990 09	22.96877	01 35	21.14	+05 37	16.7		095
1987 DS6	1990 09	22.98266	01 35	20.71	+05 37	08.7		095
1988 BO4	1990 08	26.91152	22 09	49.45	+01 20	00.5	16.2	E 095
1988 BO4	1990 08	26.92679	22 09	48.50	+01 19	59.8	16.2	E 095
1988 BO4	1990 08	30.91381	22 06	38.23	+01 07	41.1	15.8	095
1988 BO4	1990 08	30.92770	22 06	37.52	+01 07	38.2	15.8	095
1988 CC2	1990 09	15.80889	22 17	15.12	-06 45	00.4	16.2	095
1988 CF3	1990 09	24.04164	01 32	25.88	+14 07	17.7	16.0	095
1988 CF3	1990 09	30.03461	01 28	11.08	+14 02	36.8	16.0	095
1988 CF3	1990 10	15.90614	01 14	00.65	+13 19	36.9	15.0	095

1988	CF3	1990	10	15.92003	01	13	59.90	+13	19	34.6	15.0	095
1988	CV3	1990	09	18.91377	23	34	32.72	+03	54	13.2	15.0	P 095
1988	CV3	1990	09	18.93461	23	34	32.26	+03	53	53.0	15.0	095
1988	CV3	1990	09	22.88197	23	32	07.38	+03	01	25.6	15.0	095
1988	CV3	1990	09	22.89586	23	32	06.94	+03	01	13.9	15.0	095
1988	CF7	1990	09	22.79170	23	01	26.50	+07	26	09.9	15.5	095
1988	CF7	1990	09	22.81254	23	01	25.68	+07	26	02.5	15.5	095
1988	DJ1	1990	09	21.88260	23	10	56.84	-09	08	27.9		095
1988	DJ2	1990	08	28.87221	22	41	59.13	-07	45	00.3	16.5	095
1988	DJ2	1990	08	28.88610	22	41	58.56	-07	45	09.6	16.5	095
1989	GN	1990	08	26.91152	22	26	33.29	-05	53	09.7	16.2	095
1989	GN	1990	08	26.92679	22	26	32.75	-05	53	18.9	16.2	095
1989	GC1	1990	09	23.89652	00	09	40.26	+06	21	43.2	16.8	095
1989	GT3	1990	10	15.90614	01	05	03.36	+08	46	18.1		E 095
1989	GT3	1990	10	15.92003	01	05	02.48	+08	46	08.5		E 095
1989	GT3	1990	10	23.90034	00	58	08.26	+07	58	17.6		E 095
1989	GF4	1990	08	30.91381	22	30	02.42	+01	31	34.7	15.8	E 095
1989	GF4	1990	08	30.92770	22	30	01.74	+01	31	31.3	15.8	E 095
1989	GF4	1990	09	15.80889	22	19	18.86	-00	24	11.0		095
1989	GF4	1990	09	23.82427	22	15	25.13	-01	22	56.0	16.0	095
1989	GT4	1990	11	15.91278	03	26	45.03	+14	45	00.9		095
1989	GT4	1990	11	15.92361	03	26	43.97	+14	44	55.6		095
1989	GT4	1990	11	21.85087	03	20	20.11	+14	16	01.6		095
1989	GT4	1990	11	21.87153	03	20	19.20	+14	15	55.6		095
1990	DD	1990	03	17.80486	09	58	21.19	+09	17	02.7	16.5	E 095
1990	DD	1990	03	17.82361	09	58	20.28	+09	17	01.6	16.5	E 095
1990	DM2	1990	03	17.80486	09	38	24.99	+11	15	17.7	16.5	095
1990	DM2	1990	03	17.82361	09	38	24.32	+11	15	22.2	16.5	095
1990	DN9 *	1990	02	25.81145	09	17	43.50	+03	25	14.5	16.0	095
1990	DN9	1990	02	25.82881	09	17	43.19	+03	25	17.0	16.0	095
1990	DO9 *	1990	02	25.81145	09	30	38.84	-00	53	37.1	15.5	095
1990	DO9	1990	02	25.82881	09	30	37.86	-00	53	34.6	15.5	095
1990	EB	1990	03	17.89895	11	14	41.93	+13	47	55.6	16.0	095
1990	EB	1990	03	17.90936	11	14	41.61	+13	47	58.1	16.0	095
1990	EN10*	1990	03	01.82650	09	44	15.44	+08	28	43.1	16.5	E 095
1990	EO10*	1990	03	01.82650	09	45	25.26	+09	53	51.8	16.5	E 095
1990	EP10*	1990	03	01.82650	10	07	15.60	+06	23	00.8	15.5	095
1990	EQ10*	1990	03	01.82650	10	10	00.39	+12	08	18.6	16.5	095
1990	ER10*	1990	03	01.82650	10	10	03.79	+11	05	00.2	16.0	095
1990	ER10	1990	03	17.80486	09	59	02.22	+12	17	01.2	16.5	E 095
1990	ER10	1990	03	17.82361	09	59	01.39	+12	17	05.8	16.5	E 095
1990	FD	1990	04	17.76414	11	18	18.06	-06	32	43.6		095
1990	FD	1990	04	19.76736	11	16	59.10	-06	55	57.4		095
1990	FD	1990	04	19.78125	11	16	58.50	-06	56	08.5		095
1990	FA5 *	1990	03	17.80486	09	37	14.30	+09	02	54.4	16.5	095
1990	FB5 *	1990	03	17.80486	09	44	57.78	+10	52	13.7		095
1990	FB5	1990	03	17.82361	09	44	57.18	+10	52	18.8		095
1990	FC5 *	1990	03	17.80486	09	45	45.03	+07	12	56.0	16.5	095
1990	FC5	1990	03	17.82361	09	45	44.92	+07	12	57.7	16.5	095
1990	FD5 *	1990	03	17.80486	09	48	04.31	+09	47	13.9	16.5	095
1990	FD5	1990	03	17.82361	09	48	03.57	+09	47	13.8	16.5	095
1990	FE5 *	1990	03	17.89895	10	55	09.81	+10	32	57.4	16.5	E 095
1990	FE5	1990	03	17.90936	10	55	09.58	+10	33	01.7	16.5	E 095
1990	FF5 *	1990	03	17.89895	11	03	58.68	+11	12	14.2	16.5	095
1990	FF5	1990	03	17.90936	11	03	58.20	+11	12	15.1	16.5	095
1990	FG5 *	1990	03	17.89895	11	12	28.66	+14	52	50.3	16.5	095
1990	FG5	1990	03	17.90936	11	12	28.38	+14	52	51.2	16.5	095
1990	FH5 *	1990	03	17.89895	11	15	04.08	+16	05	44.7	16.5	095
1990	FH5	1990	03	17.90936	11	15	03.78	+16	05	45.0	16.5	095

1990 FJ5 *	1990 03 17.89895	11 28 01.34	+12 38 56.8	15.5	095
1990 FJ5	1990 03 17.90936	11 28 00.88	+12 39 05.5	15.5	095
1990 FK5 *	1990 03 21.77013	10 05 16.02	+13 28 19.3	16.0	095
1990 FK5	1990 03 21.79088	10 05 15.80	+13 28 21.2	16.0	095
1990 FL5 *	1990 03 25.76782	09 34 15.81	+12 06 28.4	16.5	095
1990 FL5	1990 03 25.79265	09 34 14.43	+12 06 25.6	16.5	095
1990 HK	1990 04 17.91322	14 18 55.07	-07 54 33.9	16.3	095
1990 HK	1990 04 17.92711	14 18 54.26	-07 54 28.8	16.3	095
1990 HK	1990 05 16.83574	13 58 10.63	-03 19 52.2	16.0	095
1990 HK	1990 05 18.84038	13 57 08.97	-03 06 33.3	16.2	095
1990 HK	1990 05 18.85427	13 57 08.74	-03 06 29.6	16.2	095
1990 HR	1990 05 24.84992	14 41 52.23	-13 53 26.7	15.8	095
1990 HR	1990 05 24.86381	14 41 51.80	-13 53 27.1	15.8	095
1990 HW4 *	1990 04 17.82294	12 14 20.37	+04 20 35.1		095
1990 HW4	1990 04 17.84377	12 14 19.27	+04 20 43.7		095
1990 HX4 *	1990 04 17.91322	14 01 55.88	-09 37 26.5	15.5	095
1990 HX4	1990 04 17.92711	14 01 55.27	-09 37 24.0	15.5	095
1990 HY4 *	1990 04 17.91322	14 08 00.98	-09 49 43.8	16.0	095
1990 HY4	1990 04 17.92711	14 08 00.62	-09 49 38.6	16.0	095
1990 HZ4 *	1990 04 19.83333	11 35 22.25	+17 11 17.0	16.5	095
1990 HZ4	1990 04 19.84896	11 35 21.57	+17 11 21.4	16.5	095
1990 HA5 *	1990 04 19.83333	11 39 55.01	+13 09 07.1	17.0	095
1990 HA5	1990 04 19.84896	11 39 54.63	+13 09 10.3	17.0	095
1990 HB5 *	1990 04 19.91388	13 35 07.69	-02 30 23.8	16.0	095
1990 HB5	1990 04 19.92777	13 35 06.77	-02 30 19.7	16.0	095
1990 HC5 *	1990 04 28.87194	13 29 21.93	-09 37 45.2	16.0	095
1990 HC5	1990 04 28.88583	13 29 21.70	-09 37 41.4	16.0	095
1990 KV	1990 05 22.93251	16 11 05.36	-17 52 29.2	16.0	E 095
1990 KV	1990 05 22.94675	16 11 04.83	-17 52 12.7	16.0	E 095
1990 KX	1990 05 18.93280	16 19 30.22	-13 29 01.5	16.0	095
1990 KX	1990 05 18.94767	16 19 29.58	-13 29 01.3	16.0	095
1990 KX	1990 05 22.93251	16 15 36.93	-13 29 40.8	15.5	095
1990 KX	1990 05 22.94675	16 15 36.09	-13 29 41.2	15.5	095
1990 KZ	1990 05 20.92566	16 28 02.81	-01 16 55.5	16.0	095
1990 KZ	1990 05 20.93954	16 28 02.17	-01 16 54.5	16.0	095
1990 KZ	1990 05 24.93534	16 24 28.27	-01 10 11.0	16.2	095
1990 KZ	1990 05 24.94922	16 24 27.63	-01 10 12.0	16.2	095
1990 KB1	1990 05 20.92566	16 35 39.79	-02 05 19.2	15.0	095
1990 KB1	1990 05 20.93954	16 35 39.12	-02 05 18.6	15.0	095
1990 KB1	1990 05 24.93534	16 32 21.40	-02 05 37.8	15.0	095
1990 KB1	1990 05 24.94922	16 32 20.55	-02 05 37.5	15.0	095
1990 KK2 *	1990 05 16.83574	13 49 55.40	-04 30 32.5	16.5	095
1990 KK2	1990 05 18.84038	13 48 27.00	-04 32 20.9	16.5	M 095
1990 KL2 *	1990 05 16.83574	13 52 45.61	-07 33 27.6		E 095
1990 KM2 *	1990 05 16.83574	13 53 25.67	-01 15 50.9	16.5	095
1990 KM2	1990 05 18.84038	13 52 08.50	-01 17 45.3	16.2	095
1990 KM2	1990 05 18.85427	13 52 07.90	-01 17 54.5	16.2	095
1990 KN2 *	1990 05 16.83574	14 10 13.67	-06 51 11.4		095
1990 KO2 *	1990 05 17.88218	15 17 20.80	-13 37 49.0	15.5	E 095
1990 KO2	1990 05 17.89676	15 17 19.91	-13 37 47.8	15.5	E 095
1990 KO2	1990 05 23.86111	15 11 28.29	-13 15 22.3	16.0	E 095
1990 KO2	1990 05 23.87500	15 11 27.62	-13 15 21.9	16.0	E 095
1990 KP2 *	1990 05 17.88218	15 20 12.67	-13 03 35.4	16.0	095
1990 KP2	1990 05 17.89676	15 20 11.95	-13 03 33.7	16.0	095
1990 KP2	1990 05 23.86111	15 13 52.63	-13 00 33.2	16.0	095
1990 KP2	1990 05 23.87500	15 13 51.87	-13 00 43.3	16.0	P 095
1990 KQ2 *	1990 05 17.88218	15 27 35.02	-15 23 25.7	15.5	095
1990 KQ2	1990 05 17.89676	15 27 34.25	-15 23 24.5	15.5	095
1990 KQ2	1990 05 23.86111	15 21 49.41	-15 17 44.1	16.0	095

1990 KQ2	1990 05	23.87500	15 21	48.59	-15 17	43.6	16.0	095
1990 KR2 *	1990 05	17.88218	15 34	31.19	-15 16	45.7	16.5	095
1990 KR2	1990 05	17.89676	15 34	30.40	-15 16	43.1	16.5	095
1990 KR2	1990 05	23.86111	15 28	41.39	-14 52	05.5	16.0	095
1990 KR2	1990 05	23.87500	15 28	40.55	-14 52	00.4	16.0	095
1990 KS2 *	1990 05	17.88218	15 43	24.44	-13 58	00.2	16.3	095
1990 KS2	1990 05	17.89676	15 43	23.59	-13 57	57.9	16.3	095
1990 KT2 *	1990 05	17.88218	15 45	52.42	-11 39	32.2	15.0	095
1990 KT2	1990 05	17.89676	15 45	51.58	-11 39	33.7	15.0	P 095
1990 KT2	1990 05	23.86111	15 39	25.16	-12 15	59.4	15.0	095
1990 KT2	1990 05	23.87500	15 39	24.32	-12 16	03.3	15.0	095
1990 KU2 *	1990 05	17.88218	15 46	54.14	-16 35	41.1	16.3	095
1990 KU2	1990 05	17.89676	15 46	53.40	-16 35	39.1	16.3	095
1990 KV2 *	1990 05	17.88218	15 52	50.90	-14 45	02.9	16.5	E 095
1990 KV2	1990 05	17.89676	15 52	50.22	-14 45	01.0	16.5	E 095
1990 KW2 *	1990 05	18.85427	13 43	49.31	-07 31	02.3		N 095
1990 KX2 *	1990 05	20.83745	13 34	20.17	-06 02	46.8		E 095
1990 KY2 *	1990 05	20.83745	13 46	55.04	-04 38	39.1	16.5	M 095
1990 KZ2 *	1990 05	20.83745	13 50	57.30	-01 16	58.6	16.5	M 095
1990 KA3 *	1990 05	20.83745	13 55	56.64	-03 08	11.6	16.5	M 095
1990 KB3 *	1990 05	20.92566	16 12	53.34	-03 46	02.4	16.0	E 095
1990 KB3	1990 05	20.93954	16 12	52.56	-03 45	59.2	16.0	E 095
1990 KC3 *	1990 05	20.92566	16 24	02.35	-02 02	49.1	16.5	095
1990 KC3	1990 05	20.93954	16 24	01.54	-02 02	44.5	16.5	095
1990 KD3 *	1990 05	20.92566	16 30	35.36	-04 03	45.6	16.2	095
1990 KD3	1990 05	20.93954	16 30	34.52	-04 03	43.2	16.2	095
1990 KD3	1990 05	24.93534	16 26	44.11	-06 04	31.3	16.2	095
1990 KE3 *	1990 05	20.92566	16 31	14.75	-07 10	34.8	16.5	095
1990 KF3 *	1990 05	22.84432	14 57	47.38	+14 24	43.9	16.5	095
1990 KF3	1990 05	22.85821	14 57	46.78	+14 24	35.4	16.5	095
1990 KG3 *	1990 05	22.93251	16 22	29.34	-14 08	50.2	16.5	095
1990 KG3	1990 05	22.94675	16 22	28.64	-14 08	49.0	16.5	095
1990 KH3 *	1990 05	22.93251	16 35	45.62	-14 12	29.3	16.0	095
1990 KH3	1990 05	22.94675	16 35	44.98	-14 12	26.0	16.0	095
1990 KJ3 *	1990 05	24.84992	14 38	18.54	-14 48	38.2		095
1990 KJ3	1990 05	24.86381	14 38	18.03	-14 48	31.3		095
1990 KK3 *	1990 05	24.84992	14 45	00.05	-08 14	27.0	16.0	095
1990 KK3	1990 05	24.86381	14 44	59.28	-08 14	24.8	16.0	095
1990 KL3 *	1990 05	24.84992	14 48	40.59	-13 43	53.8	16.2	095
1990 KM3 *	1990 05	24.93534	16 17	25.73	+00 28	01.4	16.2	E 095
1990 KM3	1990 05	24.94922	16 17	24.98	+00 28	04.9	16.2	E 095
1990 KN3 *	1990 05	24.93534	16 18	12.75	-04 09	38.1	16.0	095
1990 KN3	1990 05	24.94922	16 18	11.96	-04 09	36.0	16.0	095
1990 OD4	1990 08	29.84549	21 27	11.52	-02 26	49.5	15.8	095
1990 OE4	1990 08	29.84549	21 43	51.44	+00 08	56.3	16.0	095
1990 PA	1990 10	14.97221	03 11	55.95	+00 03	13.4	15.3	095
1990 PA	1990 10	14.99302	03 11	55.01	+00 03	11.1	15.3	095
1990 PA	1990 10	16.93748	03 10	35.20	+00 00	04.7	15.3	095
1990 PA	1990 10	16.95831	03 10	34.24	+00 00	03.0	15.3	095
1990 QG	1990 08	28.87221	22 35	03.00	-07 18	21.1	16.5	E 095
1990 QG	1990 08	28.88610	22 35	01.94	-07 18	17.4	16.5	E 095
1990 QR	1990 08	26.91152	22 22	29.18	-03 41	15.5	15.8	095
1990 QR	1990 08	26.92679	22 22	28.48	-03 41	24.0	15.8	095
1990 QR	1990 08	30.91381	22 19	40.40	-04 31	11.8	15.8	095
1990 QR	1990 08	30.92770	22 19	39.81	-04 31	21.2	15.8	095
1990 QW	1990 08	28.87221	22 18	35.19	-14 41	55.6	16.5	095
1990 QW	1990 08	28.88610	22 18	34.00	-14 41	57.5	16.5	095
1990 QY	1990 09	18.82558	22 55	32.73	-00 15	41.1	16.3	095
1990 QY	1990 09	18.84606	22 55	31.97	-00 15	54.4	16.3	095

1990 QA1	1990 09	22.79170	22 57	31.87	-00 30	42.6	16.5	095
1990 QA1	1990 09	22.81254	22 57	30.82	-00 30	47.9	16.5	095
1990 QC1	1990 08	26.91152	21 59	07.98	-05 19	07.9	15.5	E 095
1990 QC1	1990 08	26.92679	21 59	06.94	-05 19	10.6	15.5	E 095
1990 QC1	1990 08	30.91381	21 55	04.34	-05 25	34.6	15.8	E 095
1990 QC1	1990 08	30.92770	21 55	03.40	-05 25	32.8	15.8	E 095
1990 QG1	1990 08	28.95485	23 14	19.06	-05 32	31.7	16.0	095
1990 QG1	1990 08	28.97290	23 14	18.00	-05 32	32.2	16.0	095
1990 QD2	1990 08	28.95485	23 33	34.25	-05 40	46.1	16.0	E 095
1990 QD2	1990 08	28.97290	23 33	33.71	-05 40	54.1	16.0	E 095
1990 QD2	1990 09	21.88260	23 14	50.73	-08 03	38.5	15.5	095
1990 QR2	1990 08	29.93125	00 01	27.80	+02 21	55.0	16.5	095
1990 QR2	1990 08	29.94792	00 01	26.97	+02 21	52.1	16.5	095
1990 QL3	1990 09	21.88260	23 13	42.48	-04 08	39.0	16.5	095
1990 QO3	1990 08	28.95485	23 15	45.75	-08 14	14.7		095
1990 QO3	1990 08	28.97290	23 15	45.20	-08 14	15.3		095
1990 QN4	1990 08	28.95485	23 07	17.44	-04 18	53.7	15.0	095
1990 QN4	1990 08	28.97290	23 07	16.90	-04 19	01.5	15.0	095
1990 QN4	1990 09	21.88260	22 51	25.47	-06 49	09.5	16.0	E 095
1990 QF5	1990 08	28.95485	23 10	35.19	-09 30	04.9	16.5	095
1990 QF5	1990 08	28.97290	23 10	34.39	-09 30	05.2	16.5	095
1990 QF5	1990 09	21.88260	22 50	28.96	-09 52	40.6		M 095
1990 QL5	1990 08	28.87221	22 28	42.44	-10 51	49.1	16.5	E 095
1990 QL5	1990 08	28.88610	22 28	41.63	-10 51	54.5	16.5	E 095
1990 QM5	1990 08	28.87221	22 32	26.50	-11 45	02.1	16.5	095
1990 QM5	1990 08	28.88610	22 32	25.81	-11 45	10.9	16.5	095
1990 QU5	1990 08	26.91152	22 32	35.52	-06 08	01.2	16.2	E 095
1990 QU5	1990 08	26.92679	22 32	34.90	-06 08	04.7	16.2	E 095
1990 QU5	1990 08	28.87221	22 31	02.63	-06 19	20.4	16.5	095
1990 QU5	1990 08	28.88610	22 31	01.94	-06 19	25.7	16.5	095
1990 QU5	1990 08	30.91381	22 29	26.16	-06 31	07.7	16.0	E 095
1990 QU5	1990 08	30.92770	22 29	25.37	-06 31	13.2	16.0	E 095
1990 QQ17*	1990 08	24.98906	23 56	16.05	-05 44	20.8	15.5	095
1990 QR17*	1990 08	26.84072	21 07	12.68	+05 37	17.4	15.5	095
1990 QS17*	1990 08	26.84072	21 17	38.28	+04 05	36.7	16.2	095
1990 QT17*	1990 08	26.84072	21 22	55.44	+01 54	57.8	16.5	E 095
1990 QU17*	1990 08	26.91152	22 04	42.76	-08 14	05.5	15.5	E 095
1990 QU17	1990 08	26.92679	22 04	42.18	-08 14	17.1	15.5	E 095
1990 QV17*	1990 08	26.91152	22 06	43.19	-06 17	26.3	16.0	095
1990 QV17	1990 08	26.92679	22 06	42.64	-06 17	32.0	16.0	095
1990 QW17*	1990 08	26.91152	22 14	12.98	-02 56	13.8	15.3	095
1990 QW17	1990 08	26.92679	22 14	12.07	-02 56	15.0	15.3	095
1990 QW17	1990 08	30.91381	22 10	35.45	-03 02	16.9	15.3	095
1990 QW17	1990 08	30.92770	22 10	34.60	-03 02	17.2	15.3	095
1990 QW17	1990 09	15.80889	21 58	16.19	-03 37	45.6	16.0	095
1990 QW17	1990 09	23.82427	21 54	35.63	-03 55	46.4	16.0	095
1990 QX17*	1990 08	26.91152	22 15	04.58	-07 59	01.0	15.3	E 095
1990 QX17	1990 08	26.92679	22 15	03.81	-07 59	04.3	15.3	E 095
1990 QY17*	1990 08	26.91152	22 18	13.63	-05 04	24.5	16.2	095
1990 QY17	1990 08	26.92679	22 18	12.90	-05 04	27.7	16.2	095
1990 QY17	1990 08	30.91381	22 15	00.95	-05 14	06.7	15.8	095
1990 QY17	1990 08	30.92770	22 15	00.26	-05 14	08.2	15.8	095
1990 QZ17*	1990 08	26.91152	22 20	48.29	-06 31	25.5	15.5	095
1990 QZ17	1990 08	26.92679	22 20	47.57	-06 31	31.4	15.5	095
1990 QZ17	1990 08	30.92770	22 17	37.16	-07 41	55.0	15.8	E 095
1990 QA18*	1990 08	26.91152	22 27	46.06	-04 27	08.0	16.5	095
1990 QA18	1990 08	26.92679	22 27	45.19	-04 27	15.1	16.5	095
1990 QA18	1990 08	30.92770	22 24	33.71	-04 55	50.3	16.0	095
1990 QB18*	1990 08	26.92679	21 57	41.84	-01 34	44.6	16.2	E 095

1990	QC18*	1990	08	27.01220	00	38	39.40	+08	15	41.2	16.8	095
1990	QC18	1990	09	23.89652	00	18	52.96	+05	52	32.0	16.8	095
1990	QD18*	1990	08	28.87221	22	13	28.63	-08	07	49.2	16.0	E 095
1990	QD18	1990	08	28.88610	22	13	27.81	-08	07	58.2	16.0	E 095
1990	QE18*	1990	08	28.87221	22	19	18.63	-06	49	04.0	16.5	E 095
1990	QE18	1990	08	28.88610	22	19	18.81	-06	49	09.8	16.5	E 095
1990	QF18*	1990	08	28.87221	22	21	50.19	-13	09	19.4	16.5	095
1990	QF18	1990	08	28.88610	22	21	49.31	-13	09	22.3	16.5	095
1990	QG18*	1990	08	28.87221	22	30	21.88	-08	02	47.7	17.0	M 095
1990	QG18	1990	08	28.88610	22	30	20.88	-08	02	58.3	17.0	M 095
1990	QH18*	1990	08	28.87221	22	30	58.56	-14	24	41.2		095
1990	QH18	1990	08	28.88610	22	30	57.44	-14	24	42.3		095
1990	QJ18*	1990	08	28.87221	22	37	33.25	-12	59	06.8	16.5	095
1990	QJ18	1990	08	28.88610	22	37	32.69	-12	59	00.1	16.5	095
1990	QK18*	1990	08	28.87221	22	37	48.31	-12	10	25.3	16.0	095
1990	QK18	1990	08	28.88610	22	37	47.50	-12	10	32.0	16.0	095
1990	QL18*	1990	08	28.87221	22	42	59.31	-12	29	31.7	16.5	E 095
1990	QL18	1990	08	28.88610	22	42	58.25	-12	29	36.4	16.5	E 095
1990	QM18*	1990	08	28.87221	22	43	08.31	-14	22	28.4	16.5	E 095
1990	QM18	1990	08	28.88610	22	43	07.38	-14	22	32.2	16.5	E 095
1990	QN18*	1990	08	28.95485	23	28	54.63	-10	32	04.1	17.0	M 095
1990	QO18*	1990	08	28.97290	23	24	15.07	-04	29	54.5	17.0	095
1990	QP18*	1990	08	29.84549	21	43	43.02	+02	47	00.5	16.5	095
1990	QQ18*	1990	08	29.93125	00	01	27.80	+02	21	55.0	16.5	095
1990	QQ18	1990	08	29.94792	00	01	26.97	+02	21	52.1	16.5	095
1990	QR18*	1990	08	29.93125	00	03	10.38	+03	14	30.9	16.5	095
1990	QR18	1990	08	29.94792	00	03	09.62	+03	14	25.9	16.5	095
1990	QS18*	1990	08	29.93125	00	04	14.33	+00	59	54.7	16.5	095
1990	QS18	1990	08	29.94792	00	04	13.69	+00	59	52.8	16.5	P 095
1990	QT18*	1990	08	29.93125	00	14	54.13	+05	07	23.7	16.3	095
1990	QT18	1990	08	29.94792	00	14	53.49	+05	07	26.3	16.3	095
1990	QU18*	1990	08	29.93125	23	45	49.52	+03	31	37.0	16.5	095
1990	QU18	1990	08	29.94792	23	45	48.65	+03	31	33.2	16.5	095
1990	QV18*	1990	08	29.93125	23	47	39.91	+03	50	01.6	16.5	095
1990	QV18	1990	08	29.94792	23	47	39.17	+03	49	55.2	16.5	095
1990	QW18*	1990	08	29.93125	23	51	21.05	+05	44	14.7	16.3	095
1990	QW18	1990	08	29.94792	23	51	20.43	+05	44	10.2	16.3	095
1990	QX18*	1990	08	30.03125	00	52	34.26	-06	49	59.0	16.0	E 095
1990	QY18*	1990	08	30.03125	00	57	14.61	-03	33	42.9	15.5	095
1990	QZ18*	1990	08	30.92770	22	32	19.86	+01	11	04.0		N 095
1990	QA19*	1990	08	30.99852	00	13	59.25	+06	21	55.3	16.8	E 095
1990	QA19	1990	08	31.01241	00	13	58.53	+06	21	56.3	16.8	E 095
1990	QB19*	1990	08	31.01241	00	32	26.64	+07	29	50.6	16.0	095
1990	RE2	1990	09	18.91377	23	45	39.72	+00	52	27.8	16.5	095
1990	RE2	1990	09	18.93461	23	45	38.82	+00	52	17.9	16.5	095
1990	RE2	1990	09	22.88197	23	42	35.14	+00	21	25.6	16.5	095
1990	RE2	1990	09	22.89586	23	42	34.65	+00	21	17.7	16.5	095
1990	RG2	1990	08	29.93125	23	58	34.52	+04	41	25.6	16.8	095
1990	RG2	1990	08	29.94792	23	58	33.85	+04	41	18.1	16.8	095
1990	RG2	1990	09	18.91377	23	47	55.74	+01	45	07.6	16.5	095
1990	RG2	1990	09	18.93461	23	47	54.93	+01	45	05.0	16.5	095
1990	RG2	1990	09	22.88197	23	45	31.09	+01	05	43.0	16.8	095
1990	RG2	1990	09	22.89586	23	45	30.40	+01	05	34.3	16.8	095
1990	RQ2	1990	08	26.99832	00	21	26.49	+03	27	09.1	16.5	095
1990	RQ2	1990	08	27.01220	00	21	25.97	+03	27	09.7	16.5	095
1990	RQ2	1990	08	30.99852	00	19	36.76	+03	33	52.8	16.2	095
1990	RQ2	1990	08	31.01241	00	19	36.31	+03	33	53.8	16.2	095
1990	RQ2	1990	09	15.88955	00	07	43.99	+03	36	15.1	16.0	095
1990	RQ2	1990	09	15.90344	00	07	43.05	+03	36	14.7	16.0	095

1990 RQ2	1990 09	23.89652	23 59	47.64	+03 25	11.5	15.5	095
1990 RQ2	1990 10	11.83965	23 42	25.28	+02 51	06.0	15.5	E 095
1990 RQ2	1990 10	15.82212	23 39	22.25	+02 45	09.1	15.5	E 095
1990 RQ2	1990 10	15.83601	23 39	21.69	+02 45	08.7	15.5	E 095
1990 RR2	1990 08	29.93125	00 18	00.88	+06 27	14.3	16.0	E 095
1990 RR2	1990 08	29.94792	00 18	00.15	+06 27	05.4	16.0	E 095
1990 RR2	1990 09	15.88955	00 08	27.30	+04 23	17.9	16.0	095
1990 RR2	1990 09	15.90344	00 08	26.57	+04 23	10.9	16.0	095
1990 RR2	1990 09	23.89652	00 02	31.37	+03 08	36.2	16.0	095
1990 RR2	1990 10	11.83965	23 50	06.88	+00 18	52.7	16.5	095
1990 RR2	1990 10	14.82290	23 48	32.12	-00 06	15.0	15.5	095
1990 RR2	1990 10	14.85068	23 48	31.22	-00 06	29.1	15.5	095
1990 RR2	1990 10	15.82212	23 48	03.06	-00 14	20.7	16.2	095
1990 RR2	1990 10	15.83601	23 48	02.56	-00 14	27.3	16.2	095
1990 RS2	1990 09	15.88955	00 13	03.11	+05 27	59.4	16.0	095
1990 RS2	1990 09	15.90344	00 13	02.45	+05 27	59.7	16.0	095
1990 RS2	1990 09	23.89652	00 05	57.00	+04 50	57.2	16.0	095
1990 RS2	1990 10	11.83965	23 50	33.25	+03 14	31.8	16.0	095
1990 RS2	1990 10	15.82212	23 47	53.88	+02 54	59.3	16.0	095
1990 RT2	1990 09	15.88955	00 14	09.66	+02 39	23.7	16.8	095
1990 RT2	1990 09	15.90344	00 14	08.82	+02 39	23.9	16.8	095
1990 RT2	1990 09	23.89652	00 06	02.06	+02 49	28.6	16.2	095
1990 RT2	1990 10	11.83965	23 48	27.03	+03 06	37.4	16.0	095
1990 RT2	1990 10	15.82212	23 45	13.94	+03 11	20.1	15.8	095
1990 RT2	1990 10	15.83601	23 45	13.19	+03 11	16.8	15.8	095
1990 RV2	1990 10	17.77699	23 24	39.03	+03 33	08.6	16.0	095
1990 RV2	1990 10	17.79088	23 24	38.57	+03 33	07.4	16.0	095
1990 RC3	1990 08	29.93125	00 00	48.80	+03 39	18.9	16.8	095
1990 RC3	1990 08	29.94792	00 00	47.84	+03 39	13.1	16.8	095
1990 RC3	1990 09	18.91377	23 44	41.43	+01 37	35.4	16.5	095
1990 RC3	1990 09	18.93461	23 44	40.76	+01 37	28.1	16.5	095
1990 RC3	1990 09	22.88197	23 41	15.73	+01 09	50.7	16.5	095
1990 RC3	1990 09	22.89586	23 41	15.02	+01 09	45.3	16.5	095
1990 RH3	1990 09	18.91377	23 48	42.90	-01 12	57.3	16.5	P 095
1990 RH3	1990 09	18.93461	23 48	42.12	-01 13	04.3	16.5	095
1990 RH3	1990 09	22.88197	23 46	00.21	-01 47	25.9	16.5	095
1990 RH3	1990 09	22.89586	23 45	59.61	-01 47	36.3	16.5	095
1990 RN3	1990 08	29.93125	00 08	55.01	+02 34	26.8	16.5	095
1990 RN3	1990 08	29.94792	00 08	54.19	+02 34	19.5	16.5	095
1990 RW3	1990 09	18.91377	23 58	35.29	-03 00	47.3	16.0	095
1990 RW3	1990 09	18.93461	23 58	34.30	-03 00	53.7	16.0	095
1990 RW3	1990 09	22.88197	23 55	07.17	-03 17	52.9	16.0	E 095
1990 RW3	1990 09	22.89586	23 55	06.39	-03 17	55.5	16.0	E 095
1990 RW3	1990 09	26.95123	23 51	36.54	-03 34	21.4	15.0	095
1990 RW3	1990 09	26.97195	23 51	35.45	-03 34	27.1	15.0	095
1990 RW3	1990 10	14.82290	23 39	12.54	-04 21	44.9	15.5	095
1990 RW3	1990 10	14.85068	23 39	11.71	-04 21	46.7	15.5	095
1990 RF5	1990 08	29.93125	23 56	34.41	+07 17	34.6	16.0	095
1990 RF5	1990 08	29.94792	23 56	33.92	+07 17	29.5	16.0	095
1990 RF5	1990 09	18.91377	23 43	36.47	+05 05	41.7	16.0	095
1990 RF5	1990 09	18.93461	23 43	35.65	+05 05	32.0	16.0	095
1990 RF5	1990 09	22.88197	23 40	39.18	+04 30	47.9	16.5	095
1990 RF5	1990 09	22.89586	23 40	38.72	+04 30	44.1	16.5	095
1990 RK5	1990 08	29.93125	00 01	37.07	+05 46	39.9	16.3	095
1990 RK5	1990 08	29.94792	00 01	36.45	+05 46	32.9	16.3	095
1990 RK5	1990 09	18.91377	23 49	31.88	+03 42	28.0	16.0	095
1990 RK5	1990 09	18.93461	23 49	31.03	+03 42	19.4	16.0	095
1990 RK5	1990 09	22.88197	23 46	48.05	+03 12	10.7	16.0	095
1990 RK5	1990 09	22.89586	23 46	47.41	+03 12	06.5	16.0	095

1990 RM5	1990 09	15.88955	00 17	34.14	+01 13	35.4	16.8	E	095
1990 RM5	1990 09	15.90344	00 17	33.56	+01 13	35.1	16.8	E	095
1990 RM5	1990 09	23.89652	00 11	03.10	+00 36	51.0	16.0		095
1990 RM5	1990 09	26.95123	00 08	30.21	+00 22	38.4	15.5		095
1990 RM5	1990 09	26.97195	00 08	29.16	+00 22	31.3	15.5		095
1990 RM5	1990 10	11.83965	23 57	33.56	-00 36	52.1	16.5		095
1990 RM5	1990 10	15.82212	23 55	25.06	-00 47	43.2	16.5		095
1990 RR5	1990 09	23.89652	00 24	51.16	+04 18	44.9	16.5		095
1990 RR5	1990 10	11.83965	00 09	51.48	+02 15	49.3	16.5		095
1990 RR5	1990 10	15.82212	00 07	01.78	+01 50	57.5	16.2		095
1990 RR5	1990 10	15.83601	00 07	01.25	+01 50	56.1	16.2		095
1990 RV5	1990 08	28.87221	22 21	36.75	-12 03	59.3	16.0		095
1990 RV5	1990 08	28.88610	22 21	35.63	-12 04	01.9	16.0		095
1990 RE6	1990 08	28.87221	22 25	30.13	-09 13	40.0	16.5		095
1990 RE6	1990 08	28.88610	22 25	29.13	-09 13	49.6	16.5		095
1990 RM9	1990 08	26.91152	22 09	12.04	+01 42	19.0	16.2	E	095
1990 RM9	1990 08	26.92679	22 09	11.37	+01 42	16.9	16.2	E	095
1990 RM9	1990 08	30.91381	22 06	20.18	+01 26	31.7	15.5		095
1990 RM9	1990 08	30.92770	22 06	19.53	+01 26	27.1	15.5		095
1990 RN9	1990 08	26.91152	22 19	03.38	+00 59	56.1	16.2	E	095
1990 RN9	1990 08	26.92679	22 19	02.15	+01 00	03.6	16.2	E	095
1990 RN9	1990 08	30.91381	22 15	04.18	+01 07	18.0	15.8		095
1990 RN9	1990 08	30.92770	22 15	03.38	+01 07	18.6	15.8		095
1990 RN9	1990 09	15.80889	22 00	31.81	+01 16	57.3	16.2	E	095
1990 RN9	1990 09	23.82427	21 55	09.50	+01 14	26.8	16.0		095
1990 RQ9	1990 08	26.91152	22 02	30.70	-00 43	45.1	15.5		095
1990 RQ9	1990 08	26.92679	22 02	29.73	-00 43	50.4	15.5		095
1990 RQ9	1990 08	30.91381	21 59	35.62	-01 15	34.3	16.0		095
1990 RZ16*	1990 09	15.80889	21 54	47.97	+00 25	46.3	16.5	N	095
1990 RZ16	1990 09	23.82427	21 50	59.23	-00 22	47.8	16.2		095
1990 RA17*	1990 09	15.80889	22 03	23.66	-05 55	23.7	16.2		095
1990 RA17	1990 09	23.82427	21 57	58.84	-06 16	22.9	16.3	E	095
1990 RB17*	1990 09	15.88955	00 02	21.37	+05 09	08.1	16.8	E	095
1990 RB17	1990 09	15.90344	00 02	20.44	+05 09	02.7	16.8	E	095
1990 RB17	1990 09	23.89652	23 55	04.34	+04 41	32.2	16.5	E	095
1990 RC17*	1990 09	15.88955	00 10	27.85	+01 00	39.9	17.0	N	095
1990 RC17	1990 09	23.89652	00 04	42.15	+00 06	25.3	16.5	E	095
1990 RD17*	1990 09	15.88955	00 22	04.06	+01 04	43.5	17.0	N	095
1990 RD17	1990 09	23.89652	00 15	56.78	+00 34	36.0	16.2		095
1990 RE17*	1990 09	15.88955	00 24	21.47	+09 46	00.8	16.2	E	095
1990 RE17	1990 09	15.90344	00 24	20.65	+09 46	05.8	16.2	E	095
1990 RF17*	1990 09	15.88955	00 25	54.38	+07 39	08.0	16.8	D	095
1990 RF17	1990 09	15.90344	00 25	53.96	+07 38	52.4	16.8	D	095
1990 RF17	1990 09	23.89652	00 20	34.06	+06 07	44.0	16.2		095
1990 RF17	1990 10	11.83965	00 07	59.74	+02 22	48.6	16.2	D	095
1990 RF17	1990 10	15.82212	00 05	34.76	+01 34	36.3	16.5		095
1990 RF17	1990 10	15.83601	00 05	34.24	+01 34	33.3	16.5		095
1990 RG17*	1990 09	15.88955	23 58	41.79	+06 42	55.1	16.0	E	095
1990 RG17	1990 09	15.90344	23 58	41.18	+06 42	53.8	16.0	E	095
1990 RH17*	1990 09	15.97950	00 54	54.72	+16 58	05.9	16.5		095
1990 RH17	1990 09	23.96873	00 50	22.98	+16 09	21.7	16.2		095
1990 RJ17*	1990 09	15.97950	01 01	21.99	+18 36	57.9	16.5	D	095
1990 RK17*	1990 09	15.97950	01 02	38.41	+17 18	28.2	16.5		095
1990 RK17	1990 09	23.96873	00 57	06.57	+17 07	02.0	16.2		095
1990 RL17*	1990 09	15.97950	01 09	34.32	+18 36	15.3	16.2		095
1990 RL17	1990 09	23.96873	01 03	28.12	+18 27	24.8	16.0		095
1990 RM17*	1990 09	15.97950	01 10	14.04	+15 40	38.2	16.5	E	095
1990 RM17	1990 09	23.96873	01 04	25.88	+15 47	31.0	16.0		095
1990 RN17*	1990 09	15.97950	01 12	41.10	+18 21	03.8	16.5		095

1990 RN17	1990 09	23.96873	01 07	34.78	+18 09	25.1	16.0	095
1990 RN17	1990 10	23.82674	00 45	02.43	+16 04	28.7	16.2	095
1990 RO17*	1990 09	15.97950	01 13	15.17	+16 43	40.6	16.5	M 095
1990 RO17	1990 09	23.96873	01 07	12.82	+16 16	09.3	16.2	095
1990 RP17*	1990 09	15.97950	01 13	28.98	+17 36	07.3	16.8	M 095
1990 RP17	1990 09	23.96873	01 07	00.94	+17 17	34.0	16.0	095
1990 RQ17*	1990 09	15.97950	01 15	34.38	+17 39	32.8	16.5	M 095
1990 RR17*	1990 09	15.97950	01 16	12.58	+16 48	33.4	16.2	095
1990 RR17	1990 09	23.96873	01 10	41.56	+16 26	21.4	16.0	095
1990 RS17*	1990 09	15.97950	01 19	24.81	+16 22	44.0	16.0	095
1990 RS17	1990 09	23.96873	01 13	20.20	+16 30	03.7	15.5	095
1990 RS17	1990 10	23.82674	00 44	06.90	+14 50	42.8	15.5	095
1990 RT17*	1990 09	15.97950	01 21	05.14	+19 47	48.0	16.2	095
1990 RT17	1990 09	23.96873	01 15	41.45	+19 24	53.0	16.2	095
1990 SH1	1990 10	23.90034	00 33	18.52	+05 53	22.0	16.0	E 095
1990 SA2	1990 09	24.04164	01 56	22.26	+12 46	03.4	16.2	095
1990 SA2	1990 09	30.03461	01 52	43.20	+12 34	07.0	16.5	095
1990 SA2	1990 10	15.90614	01 39	01.45	+11 37	25.3	16.2	095
1990 SA2	1990 10	15.92003	01 39	00.52	+11 37	21.9	16.2	095
1990 SJ2	1990 09	22.96877	01 31	12.35	-00 18	38.4	17.0	E 095
1990 SJ2	1990 09	22.98266	01 31	11.78	-00 18	40.2	17.0	E 095
1990 SB4	1990 09	15.97950	00 49	12.88	+20 41	07.8	16.0	E 095
1990 SN4	1990 10	13.84158	01 35	13.01	+21 57	12.8	15.5	095
1990 SN4	1990 10	13.85547	01 35	12.09	+21 57	13.9	15.5	095
1990 SN4	1990 10	17.87213	01 30	41.89	+22 01	54.9	15.5	095
1990 SN4	1990 10	17.88637	01 30	40.95	+22 01	55.9	15.5	095
1990 SN4	1990 11	14.79771	01 02	51.91	+21 31	09.6	15.5	095
1990 SN4	1990 11	14.81194	01 02	51.46	+21 31	11.9	15.5	095
1990 SO4	1990 10	17.87213	01 39	23.98	+27 37	52.5	15.0	095
1990 SO4	1990 10	17.88637	01 39	23.09	+27 37	46.2	15.0	095
1990 SO4	1990 11	14.79771	01 16	23.07	+24 11	29.9	15.0	095
1990 SO4	1990 11	14.81194	01 16	22.78	+24 11	21.5	15.0	095
1990 SW4	1990 09	24.88156	00 23	06.11	-02 23	51.1	16.0	095
1990 SW4	1990 09	24.90267	00 23	05.15	-02 23	58.3	16.0	095
1990 SM6	1990 10	16.81667	00 11	39.19	-01 31	35.3	16.5	095
1990 SM6	1990 10	16.83681	00 11	38.22	-01 31	40.8	16.5	095
1990 ST10	1990 08	29.93125	00 09	52.68	+04 57	50.5	16.0	095
1990 ST10	1990 08	29.94792	00 09	51.77	+04 57	58.0	16.0	095
1990 ST10	1990 09	18.91377	23 50	46.19	+05 46	58.6	16.5	E 095
1990 ST10	1990 09	18.93461	23 50	44.98	+05 46	57.4	16.5	E 095
1990 SU10	1990 09	18.91377	23 53	30.11	+04 40	07.3	16.5	095
1990 SU10	1990 09	18.93461	23 53	29.17	+04 40	02.4	16.5	095
1990 SU10	1990 09	22.88197	23 50	14.91	+04 21	10.5	16.0	095
1990 SU10	1990 09	22.89586	23 50	14.27	+04 21	05.3	16.0	095
1990 SX10	1990 08	30.99852	00 24	24.76	+10 25	42.8	16.8	E 095
1990 SX10	1990 08	31.01241	00 24	24.31	+10 25	46.0	16.8	E 095
1990 SM14	1990 09	22.96877	01 34	02.40	+03 04	41.2	16.0	095
1990 SM14	1990 09	22.98266	01 34	01.84	+03 04	34.9	16.0	095
1990 SM14	1990 09	29.96794	01 29	15.45	+02 12	58.2	16.2	E 095
1990 SA15	1990 09	22.79170	23 09	25.20	+03 41	39.2	16.3	095
1990 SA15	1990 09	22.81254	23 09	24.14	+03 41	31.4	16.3	095
1990 SV15	1990 08	26.91152	22 25	18.25	-04 31	21.1	16.5	095
1990 SV15	1990 08	26.92679	22 25	17.55	-04 31	23.3	16.5	095
1990 SJ16	1990 08	26.91152	22 18	13.63	-05 04	24.5	16.2	095
1990 SJ16	1990 08	26.92679	22 18	12.90	-05 04	27.7	16.2	095
1990 SJ16	1990 08	30.91381	22 15	00.95	-05 14	06.7	15.8	095
1990 SJ16	1990 08	30.92770	22 15	00.26	-05 14	08.2	15.8	095
1990 SF26*	1990 09	18.91377	23 45	39.82	+01 18	33.8	16.5	095
1990 SF26	1990 09	18.93461	23 45	38.77	+01 18	27.6	16.5	095

1990	SF26	1990	09	22.88197	23	41	15.94	+01	03	05.2	16.5	095
1990	SF26	1990	09	22.89586	23	41	15.23	+01	03	02.1	16.5	095
1990	SG26*	1990	09	18.91377	23	49	33.65	+00	45	37.7	16.8	095
1990	SG26	1990	09	18.93461	23	49	32.99	+00	45	32.0	16.8	095
1990	SH26*	1990	09	21.78296	21	59	20.18	-11	21	06.9	16.0	E 095
1990	SJ26*	1990	09	21.78296	22	16	11.42	-15	05	22.5	16.5	095
1990	SK26*	1990	09	21.88260	22	54	01.34	-08	22	18.9	16.5	M 095
1990	SL26*	1990	09	21.88260	22	55	58.50	-08	54	07.6	16.0	095
1990	SM26*	1990	09	21.88260	22	58	10.03	-09	31	55.8	16.5	095
1990	SN26*	1990	09	21.88260	23	02	20.67	-06	16	33.5	16.5	095
1990	SO26*	1990	09	21.88260	23	04	05.30	-06	21	40.1	16.5	095
1990	SP26*	1990	09	21.88260	23	07	04.31	-09	26	47.9	16.5	095
1990	SQ26*	1990	09	21.88260	23	13	39.90	-05	07	05.6	16.0	095
1990	SR26*	1990	09	22.79170	23	02	22.98	+02	56	35.6	16.5	095
1990	SR26	1990	09	22.81254	23	02	22.44	+02	56	25.9	16.5	095
1990	SS26*	1990	09	22.96877	01	08	55.56	+00	27	49.6	16.0	095
1990	SS26	1990	09	22.98266	01	08	54.94	+00	27	46.6	16.0	095
1990	ST26*	1990	09	22.96877	01	10	04.20	+02	00	25.1	16.8	095
1990	ST26	1990	09	22.98266	01	10	03.30	+02	00	30.0	16.8	095
1990	SU26*	1990	09	22.96877	01	14	19.28	+00	22	31.5	16.0	E 095
1990	SU26	1990	09	22.98266	01	14	18.57	+00	22	25.6	16.0	E 095
1990	SV26*	1990	09	22.96877	01	15	45.96	+04	57	57.7	17.0	095
1990	SV26	1990	09	22.98266	01	15	45.35	+04	57	53.2	17.0	095
1990	SW26*	1990	09	22.96877	01	17	48.06	+05	50	23.2	16.2	095
1990	SW26	1990	09	22.98266	01	17	47.50	+05	50	15.4	16.2	095
1990	SX26*	1990	09	22.96877	01	18	26.79	+07	35	14.4	17.0	095
1990	SX26	1990	09	22.98266	01	18	26.36	+07	35	07.6	17.0	095
1990	SY26*	1990	09	22.96877	01	18	37.18	+03	11	23.8	16.0	095
1990	SY26	1990	09	22.98266	01	18	36.38	+03	11	20.7	16.0	095
1990	SZ26*	1990	09	22.96877	01	19	08.00	+02	40	59.0	16.0	095
1990	SZ26	1990	09	22.98266	01	19	07.49	+02	40	56.7	16.0	095
1990	SA27*	1990	09	22.96877	01	27	10.77	+06	03	34.7	17.0	095
1990	SA27	1990	09	22.98266	01	27	10.44	+06	03	30.1	17.0	095
1990	SB27*	1990	09	23.82427	22	07	49.94	-00	18	07.7	16.2	095
1990	SC27*	1990	09	23.89652	00	05	00.60	+04	28	38.2	16.8	095
1990	SD27*	1990	09	23.89652	00	05	30.20	+01	26	43.2	16.8	095
1990	SE27*	1990	09	23.89652	00	08	49.34	+02	16	42.1	17.0	095
1990	SF27*	1990	09	23.89652	00	11	36.85	+00	47	53.4	16.8	095
1990	SG27*	1990	09	23.89652	00	13	52.78	+03	28	51.2	16.8	095
1990	SH27*	1990	09	23.89652	00	14	09.59	+06	15	44.9	17.0	095
1990	SJ27*	1990	09	23.89652	00	14	12.60	+03	27	09.6	16.8	095
1990	SK27*	1990	09	23.89652	00	15	08.79	+00	54	45.3	16.8	095
1990	SL27*	1990	09	23.89652	00	15	35.22	-00	05	32.1	16.5	E 095
1990	SM27*	1990	09	23.89652	00	15	52.48	+06	44	45.0		095
1990	SN27*	1990	09	23.89652	00	15	58.26	+07	58	56.5	16.8	E 095
1990	SO27*	1990	09	23.89652	00	17	20.63	+07	42	14.7	16.8	N 095
1990	SP27*	1990	09	23.89652	00	17	30.38	+03	31	35.0	16.8	D 095
1990	SQ27*	1990	09	23.89652	00	18	19.90	+02	44	26.1	16.8	095
1990	SR27*	1990	09	23.89652	00	18	55.12	+02	26	24.8	16.8	095
1990	SS27*	1990	09	23.89652	00	23	03.99	+00	29	22.1	16.8	095
1990	ST27*	1990	09	23.89652	00	23	23.66	+00	59	19.4	17.0	095
1990	SU27*	1990	09	23.89652	00	25	44.92	+04	55	39.8	16.8	095
1990	SV27*	1990	09	23.89652	00	27	00.04	+00	54	09.5	17.0	D 095
1990	SW27*	1990	09	23.89652	00	27	55.51	+05	20	04.3	16.8	095
1990	SX27*	1990	09	23.89652	00	30	06.00	+06	16	17.8	16.0	E 095
1990	SY27*	1990	09	23.89652	00	31	12.35	+05	45	07.4	16.8	N 095
1990	SZ27*	1990	09	23.89652	23	53	33.39	+01	21	17.0	16.5	E 095
1990	SA28*	1990	09	23.89652	23	58	51.14	+01	09	01.6	16.8	095
1990	SB28*	1990	09	23.96873	00	53	33.18	+18	07	43.2	16.2	095

1990	SC28*	1990	09	23.96873	00	54	11.31	+15	57	24.0	16.2	R	095
1990	SD28*	1990	09	23.96873	00	58	57.72	+17	04	12.7	16.2	D	095
1990	SE28*	1990	09	23.96873	01	02	51.18	+23	57	24.5	16.0	E	095
1990	SF28*	1990	09	23.96873	01	06	20.94	+17	51	43.9	16.2		095
1990	SG28*	1990	09	23.96873	01	06	27.88	+15	59	39.8	16.2		095
1990	SH28*	1990	09	24.04164	01	31	01.82	+09	21	36.0	16.5		095
1990	SH28	1990	09	30.03461	01	27	16.19	+09	01	01.8	16.5	M	095
1990	SJ28*	1990	09	24.04164	01	34	07.80	+09	23	48.4	16.5		095
1990	SK28*	1990	09	24.04164	01	37	59.70	+12	30	07.4	16.5		095
1990	SK28	1990	09	30.03461	01	33	50.98	+12	18	24.5	16.5		095
1990	SK28	1990	10	15.90614	01	20	06.71	+11	25	05.6	16.2		095
1990	SK28	1990	10	15.92003	01	20	05.94	+11	25	03.1	16.2		095
1990	SL28*	1990	09	24.04164	01	46	34.60	+12	53	09.5	16.2		095
1990	SL28	1990	09	30.03461	01	42	23.07	+12	34	10.1	16.5		095
1990	SL28	1990	10	15.90614	01	28	44.96	+11	23	47.2	16.2		095
1990	SL28	1990	10	15.92003	01	28	44.19	+11	23	41.8	16.2		095
1990	SM28*	1990	09	24.04164	01	48	58.60	+15	49	33.2	16.2		095
1990	SM28	1990	09	30.03461	01	44	48.01	+15	28	39.6	16.0		095
1990	SM28	1990	10	15.90614	01	30	05.39	+13	59	39.5	16.0		095
1990	SM28	1990	10	15.92003	01	30	04.52	+13	59	35.0	16.0		095
1990	SN28*	1990	09	24.04164	01	50	26.42	+12	34	17.8	16.5		095
1990	SN28	1990	09	30.03461	01	45	55.52	+12	20	05.8	16.5		095
1990	SN28	1990	10	15.90614	01	30	44.99	+11	19	31.5	16.5		095
1990	SN28	1990	10	15.92003	01	30	44.23	+11	19	29.9	16.5		095
1990	SO28*	1990	09	24.88156	00	17	57.23	-04	13	02.9	15.8	E	095
1990	SO28	1990	09	24.90267	00	17	55.35	-04	13	11.8	15.8	E	095
1990	SO28	1990	09	26.95123	00	15	56.26	-04	14	24.9	16.2		095
1990	SO28	1990	09	26.97195	00	15	54.95	-04	14	23.6	16.2		095
1990	SP28*	1990	09	24.88156	00	26	15.82	+00	47	11.7	16.0	E	095
1990	SP28	1990	09	24.90267	00	26	14.93	+00	47	00.0	16.0	E	095
1990	SQ28*	1990	09	24.88156	00	44	08.96	-01	53	01.9	15.0		095
1990	SQ28	1990	09	24.90267	00	44	07.62	-01	53	03.7	15.0		095
1990	SR28*	1990	09	24.88156	00	46	47.77	-04	10	08.7	16.3		095
1990	SR28	1990	09	24.90267	00	46	46.59	-04	10	15.8	16.3		095
1990	SS28*	1990	09	24.88156	00	47	41.82	-02	21	11.0	16.0		095
1990	SS28	1990	09	24.90267	00	47	40.56	-02	21	19.5	16.0		095
1990	ST28*	1990	09	24.88156	00	49	49.36	-02	56	52.1	16.3		095
1990	ST28	1990	09	24.90267	00	49	48.24	-02	56	59.4	16.3		095
1990	SU28*	1990	09	24.97558	02	18	23.86	+08	24	18.6	16.0		095
1990	SU28	1990	09	24.99641	02	18	23.67	+08	24	07.7	16.0		095
1990	SV28*	1990	09	26.95123	00	13	06.99	-00	31	09.3	15.8		095
1990	SV28	1990	09	26.97195	00	13	05.96	-00	31	18.9	15.8		095
1990	SW28*	1990	09	29.96794	00	51	12.72	+04	03	33.9	16.0	E	095
1990	SX28*	1990	09	29.96794	00	53	36.52	+01	32	53.2	16.2	E	095
1990	SY28*	1990	09	29.96794	00	58	35.12	+03	41	13.2	15.8		095
1990	SZ28*	1990	09	29.96794	00	59	19.53	+06	20	58.4	15.8	D	095
1990	SA29*	1990	09	29.96794	01	00	30.49	+05	46	06.0	16.0		095
1990	SB29*	1990	09	29.96794	01	02	50.00	+02	22	28.8	16.0		095
1990	SC29*	1990	09	29.96794	01	03	49.66	+00	05	34.2	16.2		095
1990	SD29*	1990	09	29.96794	01	04	30.60	+01	18	52.7	16.2		095
1990	SE29*	1990	09	29.96794	01	10	06.38	+08	27	17.8	15.8	E	095
1990	SF29*	1990	09	29.96794	01	10	18.21	+00	31	27.4	16.2		095
1990	SG29*	1990	09	29.96794	01	11	41.44	+02	58	07.8	15.8		095
1990	SH29*	1990	09	29.96794	01	14	03.88	+04	38	07.9	15.8	D	095
1990	TF	1990	09	18.82558	22	59	10.75	+01	16	36.1	15.8		095
1990	TF	1990	09	18.84606	22	59	09.32	+01	16	37.9	15.8		095
1990	TF	1990	09	22.79170	22	55	18.51	+01	21	19.7	16.0		095
1990	TF	1990	09	22.81254	22	55	17.39	+01	21	21.3	16.0		095
1990	TF	1990	09	24.78819	22	53	27.81	+01	23	29.3	15.8		095

1990 TF	1990 09 24.80894	22 53 26.31	+01 23 37.3	15.8	095
1990 TF	1990 09 26.85738	22 51 37.28	+01 25 44.1	16.0	095
1990 TF	1990 09 26.87822	22 51 36.26	+01 25 44.3	16.0	095
1990 TN	1990 09 24.97558	02 02 39.87	+06 53 29.5	16.0	095
1990 TN	1990 09 24.99641	02 02 39.12	+06 53 27.2	16.0	095
1990 TS	1990 10 13.92907	02 20 45.56	+18 30 03.8	16.0	095
1990 TS	1990 10 13.94018	02 20 44.75	+18 30 01.0	16.0	095
1990 TS	1990 10 17.95892	02 17 06.31	+18 31 37.6	16.0	095
1990 TS	1990 10 17.97976	02 17 05.11	+18 31 37.1	16.0	095
1990 TG3	1990 09 24.04164	01 37 42.48	+12 57 18.8	16.0	095
1990 TG3	1990 09 30.03461	01 34 11.44	+12 10 26.2	16.0	095
1990 TG3	1990 10 15.90614	01 21 57.30	+09 37 20.9	15.5	095
1990 TG3	1990 10 15.92003	01 21 56.57	+09 37 10.9	15.5	095
1990 TK3	1990 10 16.04084	02 55 17.57	+18 44 08.7	15.8	095
1990 TK3	1990 10 16.05473	02 55 16.84	+18 44 13.2	15.8	095
1990 TK3	1990 10 23.97255	02 46 45.31	+19 41 25.9	16.0	095
1990 TL4	1990 09 15.97950	01 15 37.01	+21 52 04.4	16.0	095
1990 TL4	1990 09 23.96873	01 10 24.95	+21 41 19.4	15.5	095
1990 TL4	1990 10 23.82674	00 46 20.85	+19 01 51.8	15.8	095
1990 TN4	1990 10 14.97221	02 43 53.31	+00 59 22.4	17.0	095
1990 TN4	1990 10 14.99302	02 43 52.41	+00 59 20.1	17.0	095
1990 TG5	1990 09 18.82558	22 56 45.97	+00 27 21.9	16.5	095
1990 TG5	1990 09 18.84606	22 56 44.76	+00 27 16.0	16.5	095
1990 TG5	1990 09 26.85738	22 50 24.78	-00 04 30.7	16.3	095
1990 TG5	1990 09 26.87822	22 50 23.77	-00 04 35.5	16.3	095
1990 TL6	1990 09 18.82558	22 55 39.42	-00 29 59.1	16.3	095
1990 TL6	1990 09 18.84606	22 55 38.22	-00 30 03.8	16.3	095
1990 TL6	1990 09 22.79170	22 52 27.59	-00 42 25.7	16.5	095
1990 TL6	1990 09 22.81254	22 52 26.58	-00 42 32.6	16.5	095
1990 TL6	1990 09 24.78819	22 50 59.39	-00 48 33.6	16.2	095
1990 TL6	1990 09 24.80894	22 50 58.36	-00 48 37.2	16.2	095
1990 TL6	1990 09 26.85738	22 49 34.36	-00 54 42.9	16.0	095
1990 TL6	1990 09 26.87822	22 49 33.38	-00 54 45.8	16.0	095
1990 TU8	1990 09 24.04164	01 41 03.23	+10 55 22.6	16.5	095
1990 TU8	1990 09 30.03461	01 36 30.98	+10 42 12.8	16.2	095
1990 TU8	1990 10 15.90614	01 21 40.26	+09 47 36.0	16.0	095
1990 TU8	1990 10 15.92003	01 21 39.31	+09 47 29.9	16.0	095
1990 TX8	1990 10 15.90614	01 26 17.11	+09 26 35.7	16.5	095
1990 TX8	1990 10 15.92003	01 26 16.28	+09 26 35.1	16.5	095
1990 TK10	1990 10 15.90614	01 20 16.46	+12 23 11.6	16.0	095
1990 TK10	1990 10 15.92003	01 20 15.80	+12 23 03.8	16.0	095
1990 TL10	1990 10 15.90614	01 21 23.82	+12 25 48.6	16.5	D 095
1990 TL10	1990 10 15.92003	01 21 23.08	+12 25 52.3	16.5	D 095
1990 TU10	1990 09 30.03461	01 34 58.79	+16 40 28.7	16.5	N 095
1990 TU10	1990 10 15.90614	01 22 58.94	+14 47 11.7	16.0	D 095
1990 TU10	1990 10 15.92003	01 22 58.17	+14 46 58.4	16.0	D 095
1990 TD15*	1990 10 11.83965	00 01 48.82	-02 25 47.5		E 095
1990 TE15*	1990 10 13.84158	01 15 12.70	+23 22 54.2	16.0	E 095
1990 TE15	1990 10 13.85547	01 15 12.04	+23 22 57.9	16.0	E 095
1990 TE15	1990 10 17.87213	01 11 55.50	+22 42 37.7	16.5	E 095
1990 TE15	1990 10 17.88637	01 11 55.03	+22 42 28.7	16.5	E 095
1990 TF15*	1990 10 13.84158	01 16 29.69	+23 51 40.3	16.5	E 095
1990 TF15	1990 10 13.85547	01 16 28.81	+23 51 37.3	16.5	E 095
1990 TG15*	1990 10 13.84158	01 25 25.83	+23 35 00.7	16.5	095
1990 TG15	1990 10 13.85547	01 25 25.08	+23 35 00.0	16.5	095
1990 TG15	1990 10 17.87213	01 21 55.20	+23 25 23.4	16.0	095
1990 TG15	1990 10 17.88637	01 21 54.30	+23 25 18.3	16.0	095
1990 TH15*	1990 10 13.84158	01 31 20.82	+23 25 06.1	16.0	095
1990 TH15	1990 10 13.85547	01 31 20.04	+23 25 05.6	16.0	095

1990	TH15	1990	10	17.87213	01	27	12.87	+22	58	20.1	16.0	095
1990	TH15	1990	10	17.88637	01	27	12.08	+22	58	10.3	16.0	095
1990	TJ15*	1990	10	13.84158	01	39	07.58	+25	10	10.7	16.0	095
1990	TJ15	1990	10	13.85547	01	39	06.72	+25	10	08.8	16.0	095
1990	TJ15	1990	10	17.87213	01	35	29.21	+24	58	05.0	16.5	095
1990	TJ15	1990	10	17.88637	01	35	28.37	+24	57	59.2	16.5	095
1990	TJ15	1990	11	14.79771	01	14	08.91	+22	25	17.1	16.0	095
1990	TJ15	1990	11	14.81194	01	14	08.58	+22	25	11.4	16.0	095
1990	TK15*	1990	10	13.84158	01	40	46.20	+19	20	28.4	16.5	095
1990	TK15	1990	10	13.85547	01	40	45.48	+19	20	26.2	16.5	E 095
1990	TK15	1990	10	17.87213	01	36	35.94	+19	13	32.6	16.0	E 095
1990	TK15	1990	10	17.88637	01	36	35.21	+19	13	31.4	16.0	E 095
1990	TK15	1990	11	14.79771	01	12	05.77	+17	38	21.4	16.0	095
1990	TK15	1990	11	14.81194	01	12	05.02	+17	38	19.2	16.0	095
1990	TL15*	1990	10	13.84158	01	47	28.13	+24	31	33.7	16.5	095
1990	TL15	1990	10	13.85547	01	47	27.06	+24	31	33.4	16.5	095
1990	TL15	1990	10	17.87213	01	41	52.37	+24	57	23.5	16.5	095
1990	TL15	1990	10	17.88637	01	41	51.89	+24	57	26.8	16.5	095
1990	TM15	1990	09	27.04833	02	14	17.35	+18	25	01.4	16.0	095
1990	TM15	1990	09	27.06221	02	14	16.57	+18	25	09.8	16.0	095
1990	TM15*	1990	10	13.92907	02	00	57.72	+18	54	36.6	16.0	E 095
1990	TM15	1990	10	13.94018	02	00	56.90	+18	54	35.2	16.0	E 095
1990	TM15	1990	10	17.95892	01	57	11.54	+18	57	30.9	16.0	E 095
1990	TM15	1990	10	17.97976	01	57	10.31	+18	57	30.3	16.0	E 095
1990	TN15*	1990	10	13.92907	02	02	07.73	+24	07	11.1	15.5	E 095
1990	TN15	1990	10	13.94018	02	02	07.07	+24	07	12.4	15.5	E 095
1990	TN15	1990	10	17.95892	01	58	47.65	+24	09	52.3	15.5	E 095
1990	TN15	1990	10	17.97976	01	58	46.57	+24	09	54.8	15.5	E 095
1990	TO15*	1990	10	13.92907	02	04	21.61	+21	59	22.3	16.0	095
1990	TO15	1990	10	13.94018	02	04	21.00	+21	59	10.2	16.0	095
1990	TP15*	1990	10	13.92907	02	09	35.17	+14	43	26.4	16.5	095
1990	TP15	1990	10	13.94018	02	09	34.73	+14	43	27.3	16.5	095
1990	TQ15*	1990	10	13.92907	02	13	09.44	+16	38	22.8	16.5	095
1990	TQ15	1990	10	13.94018	02	13	08.71	+16	38	14.8	16.5	095
1990	TR15*	1990	10	13.92907	02	20	27.37	+17	50	59.0	16.5	095
1990	TS15*	1990	10	13.92907	02	20	55.37	+19	18	49.7	16.5	095
1990	TS15	1990	10	13.94018	02	20	54.69	+19	18	52.1	16.5	095
1990	TS15	1990	10	17.95892	02	17	18.61	+19	23	01.3	16.5	095
1990	TS15	1990	10	17.97976	02	17	17.75	+19	23	03.5	16.5	095
1990	TT15*	1990	10	13.92907	02	21	09.22	+23	42	11.1	17.0	M 095
1990	TT15	1990	10	13.94018	02	21	09.03	+23	42	26.5	17.0	M 095
1990	TU15*	1990	10	13.92907	02	22	15.15	+20	45	34.1	16.5	E 095
1990	TU15	1990	10	13.94018	02	22	14.59	+20	45	38.3	16.5	E 095
1990	TV15*	1990	10	14.82290	23	48	32.12	-00	06	15.0	15.5	095
1990	TV15	1990	10	14.85068	23	48	31.22	-00	06	29.1	15.5	095
1990	TW15*	1990	10	14.82290	23	59	48.05	-04	08	11.1	16.5	095
1990	TW15	1990	10	14.85068	23	59	46.64	-04	08	16.6	16.5	095
1990	TW15	1990	10	16.81667	23	57	17.86	-03	59	44.3	16.0	095
1990	TW15	1990	10	16.83681	23	57	17.06	-03	59	55.2	16.0	095
1990	TX15*	1990	10	14.82290	23	59	57.39	-02	44	50.6	16.3	095
1990	TX15	1990	10	14.85068	23	59	56.22	-02	45	00.5	16.3	095
1990	TX15	1990	10	16.81667	23	58	49.51	-02	56	26.0	16.5	095
1990	TX15	1990	10	16.83681	23	58	48.74	-02	56	33.9	16.5	095
1990	TY15*	1990	10	14.97221	02	55	41.36	+02	27	30.0	17.0	095
1990	TY15	1990	10	14.99302	02	55	40.92	+02	27	16.6	17.0	095
1990	TY15	1990	10	16.93748	02	54	40.15	+02	11	37.1	17.0	095
1990	TY15	1990	10	16.95831	02	54	39.32	+02	11	32.2	17.0	095
1990	TZ15*	1990	10	15.90614	01	09	09.75	+11	05	14.5	16.5	N 095
1990	TA16*	1990	10	15.90614	01	13	38.39	+11	06	07.7	16.2	095

1990	TA16	1990	10	15.92003	01	13	37.73	+11	06	05.6	16.2	095
1990	TB16*	1990	10	15.90614	01	13	44.42	+08	03	03.6	16.0	095
1990	TB16	1990	10	15.92003	01	13	43.39	+08	02	56.0	16.0	095
1990	TC16*	1990	10	15.90614	01	14	15.14	+07	54	24.6	16.5	095
1990	TC16	1990	10	15.92003	01	14	14.57	+07	54	21.0	16.5	095
1990	TD16*	1990	10	15.90614	01	15	24.97	+07	54	43.7	16.2	095
1990	TD16	1990	10	15.92003	01	15	24.27	+07	54	38.1	16.2	095
1990	TE16*	1990	10	15.90614	01	15	50.08	+09	35	57.1	16.5	095
1990	TE16	1990	10	15.92003	01	15	49.28	+09	35	51.4	16.5	095
1990	TF16*	1990	10	15.90614	01	23	13.26	+08	57	08.3	16.0	095
1990	TF16	1990	10	15.92003	01	23	12.57	+08	57	08.0	16.0	095
1990	UF	1990	09	24.04164	02	00	53.53	+13	16	41.2	16.5	E 095
1990	UY	1990	10	14.97221	03	03	22.81	+04	18	36.3	16.5	095
1990	UY	1990	10	14.99302	03	03	22.01	+04	18	29.6	16.5	095
1990	UY	1990	10	16.93748	03	02	14.33	+04	04	30.6	16.5	095
1990	UY	1990	10	16.95831	03	02	13.61	+04	04	20.2	16.5	095
1990	UZ	1990	10	14.97221	03	10	35.41	+04	29	28.4	16.0	095
1990	UZ	1990	10	14.99302	03	10	34.49	+04	29	24.1	16.0	095
1990	UZ	1990	10	16.93748	03	09	16.76	+04	24	56.3	16.0	E 095
1990	UZ	1990	10	16.95831	03	09	15.96	+04	24	56.3	16.0	E 095
1990	UB1	1990	10	16.04084	03	11	15.46	+21	14	09.6	16.2	E 095
1990	UB1	1990	10	16.05473	03	11	15.06	+21	14	09.9	16.2	E 095
1990	UB1	1990	11	14.88692	02	43	26.04	+22	21	20.6	15.5	E 095
1990	UB1	1990	11	14.90081	02	43	25.18	+22	21	19.9	15.5	E 095
1990	UF1	1990	10	16.04084	03	13	14.17	+14	39	59.2	16.2	095
1990	UF1	1990	10	16.05473	03	13	13.57	+14	39	58.7	16.2	095
1990	UF1	1990	10	23.97255	03	06	14.45	+14	31	56.4	16.2	095
1990	UF1	1990	11	14.88692	02	42	17.73	+13	58	48.8	16.2	E 095
1990	UF1	1990	11	14.90081	02	42	16.97	+13	58	49.0	16.2	E 095
1990	UG2	1990	10	14.97221	03	05	10.91	+00	18	25.3	16.5	095
1990	UG2	1990	10	14.99302	03	05	10.29	+00	18	15.8	16.5	095
1990	UG2	1990	10	16.93748	03	03	57.94	+00	10	04.1	16.5	095
1990	UG2	1990	10	16.95831	03	03	57.15	+00	09	58.2	16.5	095
1990	UL2	1990	10	28.99653	03	31	14.97	+15	34	55.7	16.0	095
1990	UL2	1990	10	29.00521	03	31	14.48	+15	34	58.6	16.0	095
1990	UL2	1990	11	15.91278	03	12	21.84	+15	39	31.5	16.0	095
1990	UL2	1990	11	15.92361	03	12	20.46	+15	39	29.8	16.0	095
1990	UL2	1990	11	21.85087	03	05	47.91	+15	41	41.7	16.0	095
1990	UL2	1990	11	21.87153	03	05	46.40	+15	41	42.4	16.0	095
1990	UL2	1990	11	23.83368	03	03	42.62	+15	42	48.3	16.0	095
1990	UL2	1990	11	23.84722	03	03	41.65	+15	42	50.0	16.0	095
1990	UO2	1990	11	14.81194	01	24	11.91	+23	59	28.6	15.5	E 095
1990	UQ2	1990	10	17.03817	03	50	09.87	+19	34	06.2	16.0	P 095
1990	UQ2	1990	10	17.05953	03	50	09.17	+19	34	17.5	16.0	P 095
1990	UD3	1990	10	16.04084	03	07	18.94	+20	35	24.2	16.5	E 095
1990	UD3	1990	10	16.05473	03	07	18.57	+20	35	20.6	16.5	E 095
1990	UD3	1990	10	23.97255	03	02	47.77	+19	32	47.0	16.2	095
1990	UD3	1990	11	14.88692	02	46	19.76	+16	08	18.4	16.2	095
1990	UD3	1990	11	14.90081	02	46	19.08	+16	08	11.4	16.2	095
1990	UG3	1990	11	14.88692	03	01	59.91	+15	03	46.5	15.5	E 095
1990	UG3	1990	11	14.90081	03	01	58.98	+15	03	47.8	15.5	E 095
1990	UG3	1990	11	15.91278	03	01	04.51	+15	07	32.3	14.5	095
1990	UG3	1990	11	15.92361	03	01	03.32	+15	07	31.9	14.5	095
1990	UG3	1990	11	21.85087	02	55	53.24	+15	30	33.4	15.0	095
1990	UG3	1990	11	21.87153	02	55	52.15	+15	30	44.8	15.0	095
1990	UG3	1990	11	23.83368	02	54	17.19	+15	38	43.8	15.5	095
1990	UG3	1990	11	23.84722	02	54	16.52	+15	38	45.1	15.5	095
1990	UJ11*	1990	10	16.04084	02	52	44.82	+13	56	53.8	16.5	095
1990	UJ11	1990	10	16.05473	02	52	43.98	+13	56	48.6	16.5	095

1990	UJ11	1990	10	23.97255	02	45	27.59	+13	39	10.6	16.2	095
1990	UK11*	1990	10	16.04084	02	57	51.07	+20	03	29.5	16.5	095
1990	UK11	1990	10	16.05473	02	57	50.62	+20	03	28.8	16.5	095
1990	UL11*	1990	10	16.04084	03	10	29.54	+14	33	39.8	16.5	095
1990	UL11	1990	10	16.05473	03	10	28.96	+14	33	38.8	16.5	095
1990	UL11	1990	10	23.97255	03	04	45.67	+14	14	40.0	16.2	095
1990	UM11*	1990	10	16.04084	03	13	27.95	+11	57	18.5	16.5	E 095
1990	UM11	1990	10	16.05473	03	13	27.40	+11	57	15.1	16.5	E 095
1990	UM11	1990	10	23.97255	03	07	17.52	+11	52	47.2	16.2	E 095
1990	UN11*	1990	10	16.93748	02	51	30.65	+00	36	23.1	16.5	095
1990	UN11	1990	10	16.95831	02	51	29.61	+00	36	16.4	16.5	095
1990	UO11*	1990	10	17.03817	03	29	49.33	+22	01	21.1	14.5	P 095
1990	UO11	1990	10	17.05953	03	29	48.04	+22	00	44.1	14.5	P 095
1990	UP11*	1990	10	17.03817	03	41	05.95	+18	01	08.1	16.5	095
1990	UP11	1990	10	17.05953	03	41	05.20	+18	01	06.5	16.5	095
1990	UQ11*	1990	10	17.03817	03	46	04.34	+16	53	18.0	16.5	095
1990	UQ11	1990	10	17.05953	03	46	03.59	+16	53	17.5	16.5	095
1990	UQ11	1990	11	15.91278	03	23	15.87	+16	36	42.2	16.0	095
1990	UQ11	1990	11	15.92361	03	23	14.89	+16	36	38.1	16.0	095
1990	UQ11	1990	11	21.85087	03	18	05.22	+16	31	52.5	15.8	095
1990	UQ11	1990	11	21.87153	03	18	04.22	+16	31	47.4	15.8	095
1990	UQ11	1990	11	23.83368	03	16	23.69	+16	30	21.8	16.0	095
1990	UQ11	1990	11	23.84722	03	16	23.10	+16	30	20.0	16.0	095
1990	UR11*	1990	10	17.03817	03	48	34.15	+13	30	23.7	16.0	E 095
1990	UR11	1990	10	17.05953	03	48	33.52	+13	30	16.2	16.0	E 095
1990	UR11	1990	10	28.99653	03	41	14.72	+13	01	35.1	16.0	095
1990	UR11	1990	10	29.00521	03	41	14.35	+13	01	33.4	16.0	095
1990	US11*	1990	10	17.87213	01	24	49.65	+23	48	29.9	17.0	095
1990	US11	1990	10	17.88637	01	24	48.74	+23	48	34.1	17.0	095
1990	UT11*	1990	10	17.87213	01	25	58.35	+24	12	51.4	16.5	095
1990	UT11	1990	10	17.88637	01	25	57.71	+24	12	52.3	16.5	095
1990	UU11*	1990	10	17.95892	02	16	09.87	+17	30	59.2	16.5	E 095
1990	UU11	1990	10	17.97976	02	16	08.71	+17	31	01.1	16.5	E 095
1990	UV11*	1990	10	18.80208	23	02	46.73	-06	45	01.1		095
1990	UV11	1990	10	18.81493	23	02	46.44	-06	45	04.4		095
1990	UW11*	1990	10	23.82674	00	36	03.63	+16	41	16.8	15.8	095
1990	UX11*	1990	10	23.82674	00	36	35.99	+17	43	18.6	15.5	095
1990	UY11*	1990	10	23.82674	00	37	00.62	+14	19	57.0	16.0	095
1990	UZ11*	1990	10	23.82674	00	38	16.37	+13	32	08.6	15.8	095
1990	UA12*	1990	10	23.82674	00	38	33.32	+14	58	24.0	16.0	095
1990	UB12*	1990	10	23.82674	00	39	52.02	+15	29	27.0	16.0	095
1990	UC12*	1990	10	23.82674	00	41	51.52	+14	45	06.4	16.0	095
1990	UD12*	1990	10	23.82674	00	42	46.27	+18	38	48.3	15.8	D 095
1990	UE12*	1990	10	23.82674	00	44	43.86	+12	52	27.6	16.5	095
1990	UF12*	1990	10	23.82674	00	44	46.25	+13	09	55.6	16.2	D 095
1990	UG12*	1990	10	23.82674	00	48	12.18	+17	54	45.1	16.2	095
1990	UH12*	1990	10	23.82674	00	53	31.42	+16	06	23.5	16.2	E 095
1990	UJ12*	1990	10	23.82674	00	57	53.19	+19	22	50.5	15.5	E 095
1990	UK12*	1990	10	23.82674	00	58	24.44	+18	37	56.1	16.2	E 095
1990	UL12*	1990	10	23.90034	00	33	25.10	+03	31	17.8	16.0	E 095
1990	UM12*	1990	10	23.90034	00	36	26.13	+03	47	14.7	16.2	095
1990	UN12*	1990	10	23.90034	00	39	15.02	+04	04	48.8	16.2	095
1990	UO12*	1990	10	23.90034	00	40	13.96	+02	36	32.4	16.2	095
1990	UP12*	1990	10	23.90034	00	46	15.22	+00	54	14.6	16.2	D 095
1990	UQ12*	1990	10	23.90034	00	46	59.88	+02	24	24.0	16.0	095
1990	UR12*	1990	10	23.90034	00	47	00.58	-00	51	36.9	16.2	E 095
1990	US12*	1990	10	23.90034	00	51	51.26	+05	52	42.4	16.0	095
1990	UT12*	1990	10	23.90034	00	55	33.66	+02	06	04.8	16.2	095
1990	UU12*	1990	10	23.90034	00	57	27.06	+04	19	50.6	16.5	095

1990 UV12*	1990 10	23.90034	00 58	13.59	-01 40	37.5	16.2	N	095
1990 UW12*	1990 10	23.90034	00 59	20.80	+02 22	42.7	16.2		095
1990 UX12*	1990 10	23.90034	01 09	35.72	+04 53	53.4		E	095
1990 UY12*	1990 10	23.97255	02 47	48.76	+11 11	56.3	15.0	E	095
1990 UZ12*	1990 10	23.97255	02 51	08.02	+20 30	14.3	16.5	E	095
1990 UA13*	1990 10	23.97255	02 56	29.75	+13 12	16.4	16.5		095
1990 UB13*	1990 10	23.97255	02 56	36.00	+13 03	15.3	16.5		095
1990 UC13*	1990 10	23.97255	02 56	40.84	+15 07	07.8	16.5		095
1990 UD13*	1990 10	23.97255	02 57	50.57	+17 27	14.8	16.5		095
1990 UE13*	1990 10	23.97255	02 58	13.82	+17 54	20.3	16.2		095
1990 UF13*	1990 10	23.97255	03 02	25.86	+13 48	07.6	16.5		095
1990 UG13*	1990 10	23.97255	03 05	05.38	+12 07	36.2	16.5	E	095
1990 UH13*	1990 10	23.97255	03 07	01.12	+18 40	34.4	16.5		095
1990 UJ13*	1990 10	23.97255	03 08	08.58	+17 32	40.0	16.5		095
1990 UK13*	1990 10	28.99653	03 13	34.29	+15 59	25.4	16.0		095
1990 UK13	1990 10	29.00521	03 13	33.94	+15 59	24.5	16.0		095
1990 UL13*	1990 10	28.99653	03 21	04.89	+17 26	29.9	16.0		095
1990 UL13	1990 10	29.00521	03 21	04.69	+17 26	33.8	16.0		095
1990 UM13*	1990 10	28.99653	03 28	24.39	+12 02	25.2	16.0	E	095
1990 UM13	1990 10	29.00521	03 28	24.08	+12 02	24.0	16.0	E	095
1990 UN13*	1990 10	28.99653	03 39	13.21	+17 28	11.6	16.0		095
1990 UN13	1990 10	29.00521	03 39	12.84	+17 28	11.1	16.0		095
1990 UN13	1990 11	15.91278	03 23	02.77	+17 09	19.9	16.0		095
1990 UN13	1990 11	15.92361	03 23	01.68	+17 09	18.4	16.0		095
1990 UN13	1990 11	21.85087	03 17	22.12	+17 02	01.4	16.4		095
1990 UN13	1990 11	21.87153	03 17	21.04	+17 02	00.2	16.4		095
1990 UN13	1990 11	23.83368	03 15	31.95	+16 59	44.4	16.5		095
1990 UN13	1990 11	23.84722	03 15	31.16	+16 59	44.0	16.0		095
1990 UO13*	1990 10	28.99653	03 43	47.90	+20 17	36.9	16.0		095
1990 UO13	1990 10	29.00521	03 43	47.68	+20 17	36.2	16.0		095
1990 VM	1990 10	16.93748	03 01	32.28	+03 17	40.8			095
1990 VM	1990 10	16.95831	03 01	31.58	+03 17	37.7			095
1990 VZ	1990 11	21.85087	03 24	24.86	+19 50	20.0	16.0	E	095
1990 VZ	1990 11	21.87153	03 24	23.84	+19 50	20.1	16.0	E	095
1990 VZ	1990 11	23.83368	03 22	43.82	+19 47	07.5	16.0		095
1990 VZ	1990 11	23.84722	03 22	43.20	+19 47	06.8	16.0		095
1990 VM1	1990 11	23.83368	03 19	17.80	+19 05	56.7	16.0		095
1990 VM1	1990 11	23.84722	03 19	17.21	+19 05	48.1	16.0		095
1990 VB2	1990 11	15.91278	03 00	43.00	+13 36	51.6	16.0		095
1990 VB2	1990 11	15.92361	03 00	41.64	+13 36	31.1	16.0		095
1990 VD2	1990 10	28.99653	03 43	53.20	+19 01	18.6	16.0		095
1990 VD2	1990 10	29.00521	03 43	53.13	+19 01	18.1	16.0		095
1990 VD2	1990 11	15.91278	03 29	54.55	+18 07	56.0	16.0		095
1990 VD2	1990 11	15.92361	03 29	53.53	+18 07	51.2	16.0		095
1990 VD2	1990 11	23.83368	03 23	07.03	+17 41	21.5	16.0		095
1990 VD2	1990 11	23.84722	03 23	06.35	+17 41	19.0	16.0		095
1990 VP2	1990 10	16.04084	03 17	02.34	+14 07	33.0	16.2		095
1990 VP2	1990 10	16.05473	03 17	01.64	+14 07	33.6	16.2		095
1990 VP2	1990 10	23.97255	03 11	01.74	+14 23	58.8	15.5		095
1990 VP2	1990 10	28.99653	03 06	36.80	+14 33	41.4	16.0	E	095
1990 VP2	1990 10	29.00521	03 06	36.37	+14 33	42.0	16.0	E	095
1990 VP2	1990 11	14.88692	02 50	07.98	+15 04	31.5	15.5		095
1990 VP2	1990 11	14.90081	02 50	07.01	+15 04	32.2	15.5		095
1990 VV2	1990 11	14.90081	03 04	42.05	+16 30	42.2	16.5	E	095
1990 VV2	1990 11	15.91278	03 03	52.22	+16 22	35.4	15.8		095
1990 VV2	1990 11	15.92361	03 03	51.13	+16 22	20.1	15.8		095
1990 VV2	1990 11	21.85087	02 59	06.88	+15 35	08.5	16.5		095
1990 VV2	1990 11	21.87153	02 59	05.95	+15 34	56.6	16.5		095
1990 VV2	1990 11	23.83368	02 57	37.33	+15 19	53.7	16.0		095

1990	VV2	1990	11	23.84722	02	57	36.85	+15	19	46.0	16.0	095
1990	VW2	1990	11	23.83368	03	00	12.96	+15	00	23.7	16.0	095
1990	VW2	1990	11	23.84722	03	00	12.27	+15	00	21.0	16.0	095
1990	VO3	1990	11	15.99652	05	30	16.54	+18	43	12.6	16.0	095
1990	VO3	1990	11	16.01736	05	30	15.69	+18	43	06.1	16.0	095
1990	VU3	1990	11	23.83368	03	07	43.56	+15	25	18.0	16.8	095
1990	VU3	1990	11	23.84722	03	07	43.00	+15	25	19.9	16.8	095
1990	VH4	1990	10	17.03817	03	27	23.43	+17	52	10.9	16.5	095
1990	VH4	1990	10	17.05953	03	27	22.82	+17	52	07.9	16.5	095
1990	VH4	1990	10	28.99653	03	18	45.50	+17	28	55.7	16.0	095
1990	VH4	1990	10	29.00521	03	18	45.10	+17	28	52.3	16.0	095
1990	VH4	1990	11	14.88692	03	03	52.67	+16	44	33.9	16.2	E 095
1990	VH4	1990	11	14.90081	03	03	51.49	+16	44	32.2	16.2	E 095
1990	VH4	1990	11	15.91278	03	02	57.60	+16	41	45.5	15.5	095
1990	VH4	1990	11	15.92361	03	02	56.41	+16	41	39.4	15.5	095
1990	VH4	1990	11	21.85087	02	57	44.76	+16	25	27.6	15.8	095
1990	VH4	1990	11	21.87153	02	57	43.66	+16	25	24.7	15.8	095
1990	VH4	1990	11	23.83368	02	56	04.77	+16	20	15.6	16.0	095
1990	VH4	1990	11	23.84722	02	56	04.20	+16	20	12.9	16.0	095
1990	VO13*	1990	11	14.79771	00	54	58.52	+17	15	44.1	16.0	E 095
1990	VO13	1990	11	14.81194	00	54	58.46	+17	15	33.2	16.0	E 095
1990	VP13*	1990	11	14.79771	01	07	53.68	+16	53	11.9	16.0	095
1990	VP13	1990	11	14.81194	01	07	53.02	+16	53	14.9	16.0	095
1990	VQ13*	1990	11	14.79771	01	11	09.11	+18	51	05.2	16.0	095
1990	VR13*	1990	11	14.79771	01	24	57.81	+22	38	37.8	16.0	E 095
1990	VR13	1990	11	14.81194	01	24	57.12	+22	38	24.6	16.0	E 095
1990	VS13*	1990	11	14.88692	02	46	51.15	+18	16	21.6	16.5	D 095
1990	VS13	1990	11	14.90081	02	46	50.25	+18	16	13.5	16.5	D 095
1990	VT13*	1990	11	14.88692	02	48	58.38	+17	24	25.2	16.5	095
1990	VT13	1990	11	14.90081	02	48	57.58	+17	24	20.9	16.5	095
1990	VU13*	1990	11	14.88692	02	49	15.89	+18	13	08.9	16.5	095
1990	VU13	1990	11	14.90081	02	49	15.01	+18	13	11.9	16.5	095
1990	VV13*	1990	11	14.88692	02	53	25.30	+18	48	39.8	16.5	095
1990	VV13	1990	11	14.90081	02	53	24.46	+18	48	32.4	16.5	095
1990	VW13*	1990	11	14.88692	02	56	07.54	+17	08	45.2		095
1990	VW13	1990	11	14.90081	02	56	06.87	+17	08	43.8		095
1990	VX13*	1990	11	14.90081	02	52	45.17	+14	01	02.3	16.5	E 095
1990	VY13*	1990	11	14.97719	04	35	03.85	+22	19	06.0	16.5	E 095
1990	VY13	1990	11	14.99108	04	35	03.10	+22	19	05.5	16.5	E 095
1990	VY13	1990	11	20.86764	04	30	12.51	+22	17	26.0	15.5	095
1990	VY13	1990	11	20.88153	04	30	12.04	+22	17	25.5	15.5	095
1990	VZ13*	1990	11	14.97719	04	36	58.55	+25	32	39.7	16.0	E 095
1990	VZ13	1990	11	14.99108	04	36	57.67	+25	32	36.2	16.0	E 095
1990	VZ13	1990	11	20.86764	04	32	11.31	+25	25	25.8	16.0	095
1990	VZ13	1990	11	20.88153	04	32	10.74	+25	25	25.0	16.0	095
1990	VA14*	1990	11	14.97719	04	41	45.10	+20	25	48.7	16.0	E 095
1990	VA14	1990	11	14.99108	04	41	44.32	+20	25	47.1	16.0	E 095
1990	VB14*	1990	11	14.97719	04	41	49.35	+24	43	33.4	16.5	095
1990	VB14	1990	11	14.99108	04	41	48.62	+24	43	31.7	16.5	095
1990	VB14	1990	11	20.86764	04	36	46.18	+24	31	20.4	16.0	095
1990	VB14	1990	11	20.88153	04	36	45.34	+24	31	16.8	16.0	095
1990	VC14*	1990	11	14.97719	04	44	23.86	+22	47	48.2	16.5	095
1990	VC14	1990	11	14.99108	04	44	23.24	+22	47	45.8	16.5	095
1990	VD14*	1990	11	14.97719	04	44	28.95	+27	26	14.5	16.0	095
1990	VD14	1990	11	14.99108	04	44	28.02	+27	26	14.9	16.0	095
1990	VE14*	1990	11	14.97719	04	49	33.03	+25	52	43.2	16.5	095
1990	VE14	1990	11	14.99108	04	49	32.14	+25	52	40.0	16.5	095
1990	VE14	1990	11	20.86764	04	44	09.49	+26	04	38.7	16.0	095
1990	VE14	1990	11	20.88153	04	44	08.44	+26	04	35.2	16.0	095

1990	VF14*	1990	11	14.97719	04	52	18.54	+25	38	45.5	16.0	095
1990	VF14	1990	11	14.99108	04	52	17.78	+25	38	39.5	16.0	095
1990	VF14	1990	11	20.86764	04	46	08.86	+25	13	19.4	16.5	095
1990	VG14*	1990	11	14.97719	04	52	47.67	+25	38	44.3	16.5	095
1990	VG14	1990	11	14.99108	04	52	46.45	+25	38	39.8	16.5	095
1990	VH14*	1990	11	14.97719	04	54	08.43	+21	28	34.5	16.5	095
1990	VH14	1990	11	14.99108	04	54	07.93	+21	28	35.7	16.5	095
1990	VJ14*	1990	11	14.97719	04	54	53.03	+21	53	04.6	16.5	095
1990	VJ14	1990	11	14.99108	04	54	52.51	+21	53	05.1	16.5	095
1990	VK14*	1990	11	14.97719	05	01	02.99	+27	26	22.5	16.5	095
1990	VK14	1990	11	14.99108	05	01	02.34	+27	26	18.3	16.5	095
1990	VL14*	1990	11	14.97719	05	04	47.94	+25	26	37.1	16.0	M 095
1990	VL14	1990	11	14.99108	05	04	47.11	+25	26	46.3	16.0	M 095
1990	VM14*	1990	11	14.99108	05	17	11.25	+27	36	47.8	16.5	E 095
1990	VN14*	1990	11	15.91278	02	57	26.60	+13	15	48.4	16.5	E 095
1990	VN14	1990	11	15.92361	02	57	25.63	+13	15	41.9	16.5	E 095
1990	VN14	1990	11	21.85087	02	52	47.30	+12	58	19.1	16.5	095
1990	VN14	1990	11	21.87153	02	52	46.37	+12	58	13.5	16.5	095
1990	VO14*	1990	11	15.91278	03	02	14.05	+12	32	42.5	16.0	095
1990	VO14	1990	11	15.92361	03	02	12.83	+11	32	31.0	16.0	095
1990	VO14	1990	11	21.85087	02	56	54.49	+11	26	12.9	16.5	095
1990	VO14	1990	11	21.87153	02	56	53.37	+11	26	12.7	16.5	095
1990	VP14*	1990	11	15.91278	03	02	30.99	+12	29	48.5	16.5	095
1990	VP14	1990	11	15.92361	03	02	30.06	+12	29	38.4	16.5	095
1990	VQ14*	1990	11	15.91278	03	02	44.13	+12	13	13.1	16.0	095
1990	VQ14	1990	11	15.92361	03	02	43.01	+12	13	06.2	16.0	095
1990	VR14*	1990	11	15.91278	03	02	57.74	+17	06	48.2	15.8	095
1990	VR14	1990	11	15.92361	03	02	56.38	+17	06	44.1	15.8	095
1990	VR14	1990	11	21.85087	02	56	56.87	+16	59	06.1	16.0	095
1990	VR14	1990	11	21.87153	02	56	55.55	+16	59	03.0	16.0	095
1990	VR14	1990	11	23.83368	02	55	04.19	+16	56	49.5	16.0	095
1990	VR14	1990	11	23.84722	02	55	03.66	+16	56	45.4	16.0	095
1990	VS14*	1990	11	15.91278	03	03	34.39	+13	48	39.9	16.3	095
1990	VS14	1990	11	15.92361	03	03	33.79	+13	48	53.2	16.3	095
1990	VT14*	1990	11	15.91278	03	11	36.50	+12	38	18.3	16.3	095
1990	VT14	1990	11	15.92361	03	11	35.41	+12	38	14.9	16.3	095
1990	VU14*	1990	11	15.91278	03	13	19.18	+11	37	59.3	16.5	095
1990	VU14	1990	11	15.92361	03	13	18.03	+11	37	58.3	16.5	095
1990	VU14	1990	11	21.85087	03	08	07.49	+11	32	43.2	16.0	095
1990	VU14	1990	11	21.87153	03	08	06.28	+11	32	42.7	16.0	095
1990	VV14*	1990	11	15.91278	03	18	19.59	+17	24	39.5	16.0	095
1990	VV14	1990	11	15.92361	03	18	18.52	+17	24	38.3	16.0	095
1990	VW14*	1990	11	15.91278	03	18	27.29	+17	38	35.9	16.0	095
1990	VW14	1990	11	15.92361	03	18	26.27	+17	38	29.4	16.0	095
1990	VX14*	1990	11	15.91278	03	20	11.36	+14	13	56.5	16.8	095
1990	VX14	1990	11	15.92361	03	20	11.17	+14	14	01.7	16.8	095
1990	VY14*	1990	11	15.91278	03	20	18.72	+13	44	37.6	16.5	095
1990	VY14	1990	11	15.92361	03	20	17.49	+13	44	36.2	16.5	095
1990	VY14	1990	11	23.83368	03	12	55.82	+13	36	26.6	16.3	095
1990	VY14	1990	11	23.84722	03	12	55.08	+13	36	25.6	16.3	095
1990	VZ14*	1990	11	15.91278	03	20	53.53	+15	34	53.6	16.0	095
1990	VZ14	1990	11	15.92361	03	20	52.38	+15	34	50.7	16.0	095
1990	VA15*	1990	11	15.91278	03	21	07.80	+10	33	59.4	16.0	E 095
1990	VA15	1990	11	15.92361	03	21	06.40	+10	34	02.1	16.0	E 095
1990	VB15*	1990	11	15.91278	03	23	33.47	+12	19	18.7	16.0	095
1990	VB15	1990	11	15.92361	03	23	32.13	+12	19	18.3	16.0	095
1990	VB15	1990	11	21.85087	03	17	16.13	+12	10	04.4	16.1	095
1990	VB15	1990	11	21.87153	03	17	14.83	+12	10	04.3	16.1	095
1990	VB15	1990	11	23.83368	03	15	15.56	+12	07	52.7	16.0	095

1990	VB15	1990	11	23.84722	03	15	14.78	+12	07	52.7	16.0	095
1990	VC15*	1990	11	15.91278	03	23	55.57	+13	22	43.0	16.5	095
1990	VC15	1990	11	15.92361	03	23	54.49	+13	22	37.6	16.5	095
1990	VC15	1990	11	21.85087	03	18	36.27	+12	58	05.4	16.3	095
1990	VC15	1990	11	21.87153	03	18	35.33	+12	58	01.5	16.3	095
1990	VC15	1990	11	23.83368	03	16	52.96	+12	50	27.8	16.0	095
1990	VC15	1990	11	23.84722	03	16	52.14	+12	50	25.2	16.0	095
1990	VD15*	1990	11	15.91278	03	26	22.12	+18	27	45.7	16.5	095
1990	VD15	1990	11	15.92361	03	26	21.04	+18	27	46.1	16.5	095
1990	VE15*	1990	11	15.91278	03	27	29.17	+17	33	08.9	16.5	095
1990	VE15	1990	11	15.92361	03	27	27.82	+17	33	15.4	16.5	095
1990	VF15*	1990	11	15.91278	03	29	15.69	+11	20	23.3	16.5	095
1990	VF15	1990	11	15.92361	03	29	14.63	+11	20	15.6	16.5	095
1990	VG15*	1990	11	15.91278	03	36	08.54	+15	44	46.8	16.5	E 095
1990	VG15	1990	11	15.92361	03	36	07.36	+15	44	43.1	16.5	E 095
1990	VH15*	1990	11	15.99652	05	12	01.56	+14	57	29.7	16.0	E 095
1990	VH15	1990	11	16.01736	05	12	00.44	+14	57	31.8	16.0	E 095
1990	WD13*	1990	11	20.86764	04	30	20.66	+23	55	39.5	16.0	095
1990	WD13	1990	11	20.88153	04	30	20.11	+23	55	35.5	16.0	095
1990	WE13*	1990	11	20.86764	04	31	14.17	+23	07	31.7	16.5	095
1990	WE13	1990	11	20.88153	04	31	13.53	+23	07	32.6	16.5	095
1990	WF13*	1990	11	20.86764	04	37	09.26	+20	20	38.9		095
1990	WF13	1990	11	20.88153	04	37	08.59	+20	20	36.4		095
1990	WG13*	1990	11	20.86764	04	39	02.60	+26	08	45.8	16.5	095
1990	WG13	1990	11	20.88153	04	39	01.59	+26	08	47.5	16.5	095
1990	WH13*	1990	11	20.86764	04	39	13.46	+27	38	11.6	16.0	E 095
1990	WH13	1990	11	20.88153	04	39	13.01	+27	38	04.9	16.0	E 095
1990	WJ13*	1990	11	20.86764	04	41	22.38	+22	08	19.1	16.5	095
1990	WJ13	1990	11	20.88153	04	41	22.26	+22	08	12.8	16.5	095
1990	WK13*	1990	11	20.86764	04	43	17.02	+24	04	38.6		095
1990	WK13	1990	11	20.88153	04	43	16.05	+24	04	37.3		095
1990	WL13*	1990	11	20.86764	04	48	41.48	+22	52	13.2		095
1990	WL13	1990	11	20.88153	04	48	40.69	+22	52	12.5		095
1990	WM13*	1990	11	20.86764	04	49	39.53	+21	25	43.7	15.5	095
1990	WM13	1990	11	20.88153	04	49	38.62	+21	25	41.6	15.5	095
1990	WN13*	1990	11	20.86764	04	51	51.21	+20	09	38.9		095
1990	WN13	1990	11	20.88153	04	51	50.33	+20	09	42.0		095
1990	WO13*	1990	11	20.95581	04	13	46.56	+39	42	13.4	16.5	E 095
1990	WO13	1990	11	20.96970	04	13	46.20	+39	42	17.1	16.5	E 095
1990	WP13*	1990	11	20.95581	04	23	39.00	+33	54	45.8	16.5	095
1990	WP13	1990	11	20.96970	04	23	38.15	+33	54	46.1	16.5	095
1990	WQ13*	1990	11	20.95581	04	25	15.16	+37	48	42.1	16.5	095
1990	WQ13	1990	11	20.96970	04	25	14.22	+37	48	33.2	16.5	095
1990	WR13*	1990	11	20.95581	04	27	17.02	+38	18	57.7	17.0	095
1990	WR13	1990	11	20.96970	04	27	16.68	+38	19	00.3	17.0	095
1990	WS13*	1990	11	20.95581	04	33	32.63	+35	03	22.8	15.0	095
1990	WS13	1990	11	20.96970	04	33	31.76	+35	03	20.4	15.0	095
1990	WT13*	1990	11	20.95581	04	39	49.17	+36	28	54.8	16.0	095
1990	WT13	1990	11	20.96970	04	39	48.47	+36	28	54.4	16.0	095
1990	WU13*	1990	11	20.95581	04	39	58.11	+33	49	43.6	15.0	095
1990	WU13	1990	11	20.96970	04	39	57.25	+33	49	39.9	15.0	095
1990	WV13*	1990	11	20.95581	04	43	04.50	+38	02	38.3	16.5	095
1990	WV13	1990	11	20.96970	04	43	04.14	+38	02	39.4	16.5	095
1990	WW13*	1990	11	20.95581	04	48	10.57	+36	02	03.8	15.5	095
1990	WW13	1990	11	20.96970	04	48	09.59	+36	02	07.1	15.5	095
1990	WX13*	1990	11	20.95581	04	52	14.88	+32	57	18.6	16.0	E 095
1990	WX13	1990	11	20.96970	04	52	14.56	+32	57	27.9	16.0	E 095
1990	WY13*	1990	11	20.95581	04	52	41.08	+35	28	42.1	16.0	095
1990	WY13	1990	11	20.96970	04	52	40.49	+35	28	44.8	16.0	095

1990	WZ13*	1990	11	20.95581	04	53	27.88	+36	16	38.6	16.0	095
1990	WZ13	1990	11	20.96970	04	53	27.03	+36	16	35.6	16.0	095
1990	WA14*	1990	11	20.95581	04	53	41.98	+36	21	47.9	15.5	095
1990	WA14	1990	11	20.96970	04	53	41.31	+36	21	50.1	15.5	095
1990	WB14*	1990	11	20.95581	05	02	03.76	+37	32	51.3	16.0	E 095
1990	WB14	1990	11	20.96970	05	02	03.13	+37	32	51.9	16.0	E 095
1990	WC14*	1990	11	21.04192	06	24	15.35	+22	18	47.2	16.5	095
1990	WC14	1990	11	21.05581	06	24	15.21	+22	18	53.2	16.5	095
1990	WD14*	1990	11	21.04192	06	26	22.58	+25	19	32.0	16.5	095
1990	WD14	1990	11	21.05581	06	26	21.86	+25	19	33.7	16.5	095
1990	WE14*	1990	11	21.85087	02	46	48.59	+14	50	28.0	16.0	E 095
1990	WE14	1990	11	21.87153	02	46	48.28	+14	50	44.4	16.0	E 095
1990	WF14*	1990	11	21.85087	02	57	45.34	+16	28	14.4	16.0	095
1990	WF14	1990	11	21.87153	02	57	44.23	+16	28	06.4	16.0	095
1990	WF14	1990	11	23.83368	02	56	09.13	+16	18	56.2	16.0	095
1990	WF14	1990	11	23.84722	02	56	08.71	+16	18	50.6	16.0	095
1990	WG14*	1990	11	21.85087	03	02	14.98	+10	56	09.8	16.0	E 095
1990	WG14	1990	11	21.87153	03	02	13.94	+10	56	04.1	16.0	E 095
1990	WG14	1990	11	23.83368	03	00	46.82	+10	42	59.2	16.5	095
1990	WG14	1990	11	23.84722	03	00	45.82	+10	42	56.1	16.5	095
1990	WH14*	1990	11	21.85087	03	13	04.31	+17	14	42.2	16.0	095
1990	WH14	1990	11	21.87153	03	13	03.23	+17	14	38.8	16.0	095
1990	WJ14*	1990	11	21.85087	03	13	40.11	+11	50	46.3	16.3	095
1990	WJ14	1990	11	21.87153	03	13	39.17	+11	50	44.0	16.3	095
1990	WJ14	1990	11	23.83368	03	12	02.14	+11	45	07.5	16.8	095
1990	WJ14	1990	11	23.84722	03	12	01.34	+11	45	08.3	16.8	095
1990	WK14*	1990	11	21.85087	03	14	50.77	+10	34	31.8	16.0	E 095
1990	WK14	1990	11	21.87153	03	14	49.64	+10	34	35.0	16.0	E 095
1990	WK14	1990	11	23.83368	03	12	40.93	+10	09	06.1	16.3	095
1990	WK14	1990	11	23.84722	03	12	40.62	+10	09	04.4	16.3	095
1990	WL14*	1990	11	21.85087	03	19	29.99	+13	01	42.0	16.3	095
1990	WL14	1990	11	21.87153	03	19	29.05	+13	01	37.1	16.3	095
1990	WM14*	1990	11	21.85087	03	23	14.87	+17	18	13.4	16.0	E 095
1990	WM14	1990	11	21.87153	03	23	14.05	+17	18	06.4	16.0	E 095
1990	WN14*	1990	11	21.85087	03	24	16.35	+12	57	53.5	16.5	E 095
1990	WN14	1990	11	21.87153	03	24	15.93	+12	57	43.4	16.5	E 095
1990	WO14*	1990	11	21.87153	02	48	02.61	+18	20	47.2	16.0	E 095
1990	WO14	1990	11	23.83368	02	46	00.23	+18	21	23.5	16.3	E 095
1990	WO14	1990	11	23.84722	02	45	59.14	+18	21	14.9	16.3	E 095
1990	WP14*	1990	11	23.83368	02	47	43.11	+13	29	51.1	17.2	095
1990	WP14	1990	11	23.84722	02	47	42.51	+13	29	48.8	17.2	095
1990	WQ14*	1990	11	23.83368	02	48	24.94	+12	04	31.7	16.5	E 095
1990	WQ14	1990	11	23.84722	02	48	22.82	+12	04	28.2	16.5	E 095
1990	WR14*	1990	11	23.83368	02	50	27.00	+15	31	46.5	16.0	E 095
1990	WR14	1990	11	23.84722	02	50	26.26	+15	31	44.7	16.0	E 095
1990	WS14*	1990	11	23.83368	02	51	00.39	+17	17	49.7	17.7	095
1990	WS14	1990	11	23.84722	02	50	59.72	+17	17	48.0	17.7	095
1990	WT14*	1990	11	23.83368	02	53	56.27	+11	48	03.1	16.8	095
1990	WT14	1990	11	23.84722	02	53	55.58	+11	47	51.6	16.8	095
1990	WU14*	1990	11	23.83368	03	05	41.23	+18	15	47.5	16.5	095
1990	WU14	1990	11	23.84722	03	05	40.94	+18	15	40.2	16.5	095
1990	WV14*	1990	11	23.83368	03	08	25.16	+16	06	25.2	16.8	095
1990	WV14	1990	11	23.84722	03	08	24.61	+16	06	22.0	16.8	095
1990	WW14*	1990	11	23.83368	03	11	15.38	+16	37	55.6	16.0	095
1990	WW14	1990	11	23.84722	03	11	14.40	+16	37	46.2	16.0	095
1990	WX14*	1990	11	23.83368	03	13	05.76	+15	27	35.5	16.5	095
1990	WX14	1990	11	23.84722	03	13	04.96	+15	27	37.1	15.5	095
1990	WY14*	1990	11	23.83368	03	14	42.39	+17	37	16.2	16.0	095
1990	WY14	1990	11	23.84722	03	14	41.89	+17	37	12.1	16.0	095

1990	WZ14*	1990	11	23.83368	03	19	46.22	+17	38	39.7	16.5	095
1990	WZ14	1990	11	23.84722	03	19	45.27	+17	38	23.6	16.5	095
1990	WA15*	1990	11	23.83368	03	26	16.77	+17	45	55.1	16.5	E 095
1990	WA15	1990	11	23.84722	03	26	16.08	+17	45	52.7	16.5	E 095
1990	YA	1990	10	13.84158	01	49	55.55	+19	37	19.7	16.5	E 095
1990	YA	1990	10	13.85547	01	49	54.99	+19	37	18.2	16.5	E 095
1990	YA	1990	10	17.87213	01	47	05.89	+19	15	12.4	16.0	E 095
1990	YA	1990	10	17.88637	01	47	05.16	+19	15	07.6	16.0	E 095
1990	YD	1990	11	15.99652	05	40	53.40	+15	04	26.0	15.0	095
1990	YD	1990	11	16.01736	05	40	52.70	+15	04	16.4	15.0	095
2017	P-L	1990	08	31.01241	00	32	44.63	+08	34	02.5		095
2164	P-L	1990	09	24.04164	01	34	34.36	+14	16	13.2	16.5	095
2541	P-L	1990	09	23.89652	00	08	54.18	-00	09	27.5	16.8	N 095
3045	P-L	1990	09	22.79170	23	13	31.52	+04	20	28.1	16.0	095
3045	P-L	1990	09	22.81254	23	13	29.88	+04	20	32.2	16.0	095
3535	P-L	1990	08	29.93125	23	50	38.05	+03	24	30.1	16.0	095
3535	P-L	1990	08	29.94792	23	50	36.83	+03	24	30.6	16.0	095
3535	P-L	1990	09	22.88197	23	25	07.12	+03	01	19.0	16.0	095
3535	P-L	1990	09	22.89586	23	25	06.36	+03	01	17.0	16.0	095
5568	P-L	1990	09	24.88156	00	28	45.68	-03	53	50.7		095
5568	P-L	1990	09	24.90267	00	28	44.44	-03	53	53.4		095
1053	T-2	1990	09	18.91377	23	49	28.52	-00	45	16.6	16.5	P 095
1053	T-2	1990	09	18.93461	23	49	27.62	-00	45	18.5	16.5	095
1053	T-2	1990	09	22.88197	23	46	10.14	-01	08	55.3	16.5	095
1053	T-2	1990	09	22.89586	23	46	09.51	-01	08	58.7	16.5	095
2216	T-2	1990	09	23.89652	00	19	21.81	+01	24	52.4	17.0	095
5006	T-2	1990	10	13.85547	01	16	03.51	+22	58	13.8	16.5	E 095
18		1990	03	17.89895	10	57	59.62	+11	37	37.3		E 095
18		1990	03	17.90936	10	57	59.03	+11	37	44.2		E 095
19		1990	11	21.04192	06	32	43.98	+21	14	32.4		E 095
19		1990	11	21.05581	06	32	43.70	+21	14	30.2		E 095
23		1990	03	25.97891	12	48	34.64	+12	12	57.2		095
23		1990	03	25.99975	12	48	33.21	+12	13	02.7		095
46		1990	10	17.05953	03	42	03.42	+16	58	30.5		095
46		1990	10	28.99653	03	34	08.02	+16	12	07.8		095
46		1990	10	29.00521	03	34	07.56	+16	12	05.0		095
46		1990	11	21.85087	03	11	57.21	+14	25	54.0		095
46		1990	11	21.87153	03	11	56.15	+14	25	48.5		095
46		1990	11	23.83368	03	10	10.53	+14	18	05.3		095
46		1990	11	23.84722	03	10	09.88	+14	18	02.3		095
49		1990	03	25.87684	10	55	59.47	+02	31	51.0		E 095
49		1990	03	25.89767	10	55	58.58	+02	31	56.5		E 095
50		1990	05	18.93280	16	45	08.44	-18	10	31.1		E 095
50		1990	05	18.94767	16	45	07.70	-18	10	29.2		E 095
50		1990	05	22.93251	16	41	35.95	-18	00	49.2		E 095
50		1990	05	22.94675	16	41	35.41	-18	00	47.6		E 095
52		1990	05	18.93280	16	46	46.53	-13	02	30.2		E 095
52		1990	05	18.94767	16	46	45.70	-13	02	28.9		E 095
52		1990	05	22.93251	16	43	45.08	-12	57	11.4		E 095
52		1990	05	22.94675	16	43	44.42	-12	57	10.0		E 095
53		1990	04	19.99652	16	15	58.91	-13	51	52.7		095
53		1990	05	17.88218	15	54	25.94	-12	24	12.6		E 095
53		1990	05	17.89676	15	54	25.10	-12	24	10.9		E 095
53		1990	05	23.86111	15	48	59.54	-12	08	07.2		E 095
53		1990	05	23.87500	15	48	58.78	-12	08	05.8		E 095
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60		1990	10	17.05953	03	34	32.23	+16	04	42.2		095
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60	1990 10 29.00521	03 27 32.61	+15 04 10.6	095
60	1990 11 15.91278	03 11 30.07	+13 17 40.3	095
60	1990 11 15.92361	03 11 28.76	+13 17 30.5	095
60	1990 11 21.85087	03 05 50.73	+12 43 55.8	095
60	1990 11 21.87153	03 05 49.55	+12 43 48.0	095
60	1990 11 23.83368	03 04 02.22	+12 33 25.4	095
60	1990 11 23.84722	03 04 01.54	+12 33 23.4	095
65	1990 08 24.97517	23 41 55.15	-03 06 33.7	095
65	1990 08 24.98906	23 41 54.58	-03 06 40.4	095
65	1990 09 21.88260	23 24 13.73	-05 26 12.2	E 095
67	1990 10 17.03817	03 43 13.65	+16 09 31.5	095
67	1990 10 17.05953	03 43 12.81	+16 09 24.6	095
67	1990 10 28.99653	03 34 12.32	+14 59 06.9	095
67	1990 10 29.00521	03 34 11.77	+14 59 02.6	095
67	1990 11 15.91278	03 16 45.59	+13 06 22.4	095
67	1990 11 15.92361	03 16 44.36	+13 06 13.0	095
67	1990 11 21.85087	03 10 58.21	+12 32 03.6	095
67	1990 11 21.87153	03 10 57.08	+12 31 57.5	095
67	1990 11 23.83368	03 09 07.80	+12 21 24.5	095
67	1990 11 23.84722	03 09 07.05	+12 21 22.5	095
69	1990 04 19.91388	13 19 59.14	-04 06 48.7	095
69	1990 04 19.92777	13 19 58.47	-04 06 41.4	095
69	1990 04 28.87194	13 13 56.93	-03 10 24.8	095
69	1990 04 28.88583	13 13 56.37	-03 10 23.0	095
73	1990 08 26.99832	00 52 06.82	+05 04 59.5	E 095
73	1990 08 27.01220	00 52 06.28	+05 04 57.7	E 095
73	1990 08 30.99852	00 50 38.11	+04 58 58.9	E 095
73	1990 08 31.01241	00 50 37.75	+04 58 57.6	E 095
73	1990 10 11.83965	00 19 33.72	+02 21 52.5	E 095
73	1990 10 15.82212	00 16 24.65	+02 05 27.8	E 095
73	1990 10 15.83601	00 16 24.06	+02 05 26.5	E 095
80	1990 10 16.04084	03 09 57.06	+18 31 20.2	095
80	1990 10 16.05473	03 09 56.58	+18 31 11.6	095
80	1990 10 23.97255	03 04 38.78	+17 11 04.4	095
80	1990 11 14.88692	02 45 40.49	+13 07 14.8	E 095
80	1990 11 14.90081	02 45 39.92	+13 07 08.4	E 095
83	1990 04 17.82294	11 54 31.68	+03 18 19.4	095
83	1990 04 17.84377	11 54 30.82	+03 18 19.1	095
90	1990 11 21.04192	06 37 17.39	+24 02 26.8	095
90	1990 11 21.05581	06 37 16.75	+24 02 27.9	095
97	1990 03 25.87684	10 40 47.45	+11 07 59.6	E 095
97	1990 03 25.89767	10 40 46.85	+11 08 08.7	E 095
106	1990 04 28.87194	13 40 22.91	-06 44 26.2	095
106	1990 04 28.88583	13 40 22.47	-06 44 21.8	095
112	1990 03 25.87684	10 43 52.20	+06 12 38.3	095
112	1990 03 25.89767	10 43 51.18	+06 12 44.3	095
114	1990 09 22.96877	01 37 24.93	+05 57 18.7	E 095
114	1990 09 22.98266	01 37 24.40	+05 57 13.1	E 095
117	1990 08 29.93125	00 00 56.32	+01 49 26.7	095
117	1990 08 29.94792	00 00 55.46	+01 49 26.5	095
117	1990 09 18.91377	23 43 52.01	+01 41 11.8	095
117	1990 09 18.93461	23 43 51.02	+01 41 10.5	095
117	1990 09 22.88197	23 40 13.62	+01 37 05.5	095
117	1990 09 22.89586	23 40 12.89	+01 37 04.1	095
117	1990 10 17.77699	23 20 39.59	+01 14 38.7	095
117	1990 10 17.79088	23 20 39.10	+01 14 37.9	095
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120	1990 10	15.92003	01 20	13.88	+15 45	07.8	E	095
121	1990 11	21.04192	06 30	59.42	+25 22	37.0		095
121	1990 11	21.05581	06 30	58.92	+25 22	39.3		095
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124	1990 03	17.80486	09 54	49.33	+10 17	35.2		095
124	1990 03	17.82361	09 54	48.49	+10 17	42.8		095
125	1990 10	11.77022	22 31	12.88	-09 30	29.2	E	095
125	1990 10	13.75968	22 30	49.46	-09 36	04.2	E	095
126	1990 09	24.04164	01 42	18.28	+09 52	25.0		095
126	1990 09	30.03461	01 37	53.53	+09 37	16.8		095
126	1990 10	15.90614	01 23	25.93	+08 41	44.8		095
126	1990 10	15.92003	01 23	25.13	+08 41	40.6		095
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134	1990 03	21.79088	10 13	45.22	+12 15	26.6		095
138	1990 11	14.97719	04 55	03.48	+23 38	25.4		095
138	1990 11	14.99108	04 55	02.69	+23 38	23.5		095
138	1990 11	20.86764	04 49	10.39	+23 37	05.4		095
138	1990 11	20.88153	04 49	09.53	+23 37	05.5		095
139	1990 10	23.90034	00 31	03.01	+07 41	26.6	E	095
140	1990 04	17.82294	11 46	23.36	+06 24	25.3	E	095
140	1990 04	17.84377	11 46	22.60	+06 24	27.4	E	095
143	1990 04	17.76414	11 10	37.44	-04 26	48.0		095
143	1990 04	19.76736	11 09	43.32	-04 23	54.2		095
143	1990 04	19.78125	11 09	42.94	-04 23	54.6		095
151	1990 04	28.87194	13 25	00.72	-06 55	07.5		095
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167	1990 03	21.79088	10 34	00.02	+08 56	56.9	E	095
167	1990 03	25.87684	10 31	28.17	+09 14	47.4	E	095
167	1990 03	25.89767	10 31	27.52	+09 14	50.0	E	095
177	1990 04	17.82294	11 46	48.86	+00 46	57.0	E	095
177	1990 04	17.84377	11 46	48.10	+00 47	01.9	E	095
179	1990 11	21.04192	06 09	59.56	+21 36	20.9		095
179	1990 11	21.05581	06 09	59.07	+21 36	16.3		095
202	1990 04	19.91388	13 38	47.48	+02 54	02.3		095
202	1990 04	19.92777	13 38	46.86	+02 54	05.1		095
203	1990 03	21.77013	10 23	40.57	+10 26	33.9		095
203	1990 03	21.79088	10 23	39.81	+10 26	37.6		095
205	1990 09	24.04164	01 28	17.79	+13 56	19.1	E	095
205	1990 09	30.03461	01 24	30.36	+13 14	07.2	E	095
205	1990 10	15.90614	01 12	47.50	+11 01	27.5		095
205	1990 10	15.92003	01 12	46.79	+11 01	20.3		095
209	1990 08	24.88595	22 38	35.88	-13 37	56.3		095
209	1990 08	24.90018	22 38	35.19	-13 37	57.7		095
209	1990 08	28.87221	22 35	23.00	-13 49	02.1		095
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209	1990 09	21.78296	22 17	32.05	-14 33	18.1		095
211	1990 08	26.99832	00 41	32.89	+10 22	28.8	E	095
211	1990 08	27.01220	00 41	32.57	+10 22	28.3	E	095
211	1990 08	30.99852	00 40	06.75	+10 18	50.0	E	095
211	1990 08	31.01241	00 40	06.37	+10 18	49.2	E	095
211	1990 09	15.88955	00 31	27.44	+09 39	52.2		095
211	1990 09	15.90344	00 31	26.99	+09 39	48.7		095

211	1990 10 15.82212	00 09 23.82	+07 10 19.9	E 095
211	1990 10 15.83601	00 09 23.32	+07 10 16.8	E 095
212	1990 03 25.87684	10 43 35.95	+04 21 33.4	095
212	1990 03 25.89767	10 43 35.10	+04 21 40.2	095
215	1990 03 25.87684	10 56 28.27	+08 19 52.4	095
215	1990 03 25.89767	10 56 27.35	+08 19 55.5	095
217	1990 03 25.76782	09 17 37.96	+12 31 37.5	E 095
217	1990 03 25.79265	09 17 37.74	+12 31 46.3	E 095
222	1990 09 24.97558	02 25 24.61	+11 59 45.2	E 095
222	1990 09 24.99641	02 25 24.14	+11 59 42.1	E 095
228	1990 10 13.92907	02 25 53.45	+19 56 54.4	095
228	1990 10 13.94018	02 25 52.74	+19 56 54.4	095
228	1990 10 17.95892	02 21 54.27	+19 42 23.5	095
228	1990 10 17.97976	02 21 53.04	+19 42 20.4	095
229	1990 10 16.04084	03 12 35.58	+18 38 56.6	095
229	1990 10 16.05473	03 12 35.08	+18 38 55.8	095
229	1990 10 23.97255	03 07 22.30	+18 23 50.0	095
229	1990 11 14.88692	02 50 13.65	+17 25 08.4	095
229	1990 11 14.90081	02 50 13.08	+17 25 06.0	095
229	1990 11 21.85087	02 44 58.47	+17 05 09.6	E 095
229	1990 11 21.87153	02 44 57.84	+17 05 05.6	E 095
239	1990 04 17.91322	14 22 46.10	-09 16 25.8	095
239	1990 04 17.92711	14 22 45.43	-09 16 21.8	095
239	1990 05 16.83574	14 02 11.32	-07 06 07.0	E 095
239	1990 05 18.84038	14 00 57.62	-06 58 59.5	095
239	1990 05 18.85427	14 00 57.17	-06 58 53.6	095
239	1990 05 20.83745	13 59 47.15	-06 52 15.9	E 095
243	1990 08 28.95485	23 00 04.13	-05 51 02.5	E 095
243	1990 08 28.97290	23 00 03.43	-05 51 06.5	E 095
243	1990 10 11.77022	22 31 12.63	-08 33 19.8	E 095
243	1990 10 13.75968	22 30 37.62	-08 36 28.9	E 095
244	1990 11 15.99652	05 16 20.39	+19 43 44.7	E 095
244	1990 11 16.01736	05 16 19.41	+19 43 35.6	E 095
245	1990 04 17.91322	14 12 51.68	-09 44 28.3	095
245	1990 04 17.92711	14 12 51.04	-09 44 26.0	095
245	1990 05 16.83574	13 52 04.53	-08 21 19.6	E 095
245	1990 05 18.84038	13 50 51.93	-08 17 09.7	E 095
245	1990 05 18.85427	13 50 51.59	-08 17 08.0	E 095
252	1990 04 19.99652	16 13 23.67	-13 45 23.5	095
252	1990 05 17.88218	15 56 11.03	-11 30 10.7	E 095
252	1990 05 17.89676	15 56 10.39	-11 30 06.2	E 095
257	1990 04 17.82294	11 49 05.65	+03 52 19.1	095
257	1990 04 17.84377	11 49 05.00	+03 52 20.0	095
267	1990 10 23.97255	02 53 37.40	+11 19 44.7	E 095
270	1990 03 01.82650	10 12 19.90	+07 00 25.6	095
270	1990 03 17.80486	09 57 55.70	+08 27 50.6	E 095
270	1990 03 17.82361	09 57 54.75	+08 27 57.5	E 095
270	1990 03 25.76782	09 52 45.39	+09 02 56.3	E 095
270	1990 03 25.79265	09 52 44.55	+09 03 00.6	E 095
272	1990 03 21.77013	10 26 38.65	+15 37 18.2	E 095
272	1990 03 21.79088	10 26 37.70	+15 37 19.2	E 095
278	1990 09 22.96877	01 26 13.28	-00 02 06.5	095
278	1990 09 22.98266	01 26 12.65	-00 02 08.6	095
278	1990 09 29.96794	01 20 56.16	-00 30 46.5	E 095
278	1990 10 23.90034	01 00 57.80	-01 54 23.6	E 095
279	1990 04 17.82294	12 25 52.46	+00 06 40.4	E 095
279	1990 04 17.84377	12 25 52.03	+00 06 43.6	E 095
281	1990 03 17.89895	11 11 36.71	+11 49 22.6	095
281	1990 03 17.90936	11 11 36.03	+11 49 25.7	095

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282	1990 05	20.93954	16 37	17.09	-07 15	50.2	095
282	1990 05	24.93534	16 33	26.84	-07 06	06.0	095
282	1990 05	24.94922	16 33	25.95	-07 06	04.5	095
286	1990 03	25.97891	13 13	47.46	+10 42	53.5	E 095
286	1990 03	25.99975	13 13	46.61	+10 43	02.1	E 095
289	1990 08	26.99832	00 26	52.85	+04 38	22.6	095
289	1990 08	27.01220	00 26	52.65	+04 38	15.9	095
289	1990 08	30.99852	00 25	47.83	+04 17	47.6	095
289	1990 08	31.01241	00 25	47.44	+04 17	41.9	095
289	1990 09	15.88955	00 18	11.09	+02 27	54.8	095
289	1990 09	15.90344	00 18	10.53	+02 27	48.2	095
289	1990 09	23.89652	00 12	59.25	+01 20	57.1	095
289	1990 09	26.95123	00 10	55.00	+00 54	42.1	095
289	1990 09	26.97195	00 10	54.17	+00 54	32.3	095
289	1990 10	11.83965	00 01	27.90	-01 07	27.8	095
289	1990 10	14.82290	23 59	53.41	-01 29	03.2	095
289	1990 10	14.85068	23 59	52.53	-01 29	17.7	095
289	1990 10	15.82212	23 59	23.69	-01 36	01.2	E 095
289	1990 10	15.83601	23 59	23.31	-01 36	06.9	E 095
289	1990 10	16.81667	23 58	55.53	-01 42	42.9	095
289	1990 10	16.83681	23 58	54.72	-01 42	51.7	095
296	1990 09	22.96877	01 09	38.90	+03 45	29.6	095
296	1990 09	22.98266	01 09	38.33	+03 45	23.0	095
296	1990 09	29.96794	01 04	23.16	+03 04	37.0	095
296	1990 10	23.90034	00 44	30.88	+00 55	28.2	095
306	1990 08	30.03125	00 39	54.42	-03 10	05.2	095
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306	1990 09	26.95123	00 21	18.64	-07 33	55.4	E 095
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313	1990 08	29.94792	00 02	30.32	+01 48	04.3	095
313	1990 09	18.91377	23 47	24.29	-01 16	35.0	095
313	1990 09	18.93461	23 47	23.25	-01 16	46.6	095
313	1990 09	22.88197	23 44	02.25	-01 56	36.2	095
313	1990 09	22.89586	23 44	01.60	-01 56	45.0	095
313	1990 10	14.82290	23 27	35.01	-05 19	05.7	E 095
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313	1990 10	18.81493	23 25	25.67	-05 48	41.0	095
314	1990 05	16.83574	13 53	23.23	+00 56	38.6	E 095
314	1990 05	18.84038	13 52	17.85	+01 02	35.7	E 095
314	1990 05	18.85427	13 52	17.44	+01 02	38.3	E 095
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320	1990 09	23.82427	22 00	55.23	+00 38	30.8	095
334	1990 04	19.99652	15 48	46.15	-13 49	45.8	095
334	1990 05	16.90726	15 32	39.70	-12 46	11.4	E 095
334	1990 05	17.88218	15 32	00.52	-12 44	07.3	095
334	1990 05	17.89676	15 31	59.92	-12 44	06.0	095
334	1990 05	23.86111	15 28	02.63	-12 31	59.4	095
334	1990 05	23.87500	15 28	02.03	-12 31	57.5	095
345	1990 04	19.99652	15 49	55.49	-15 57	33.4	095
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345	1990 05	17.88218	15 26	18.43	-12 23	52.7	095
345	1990 05	17.89676	15 26	17.58	-12 23	46.7	095
345	1990 05	23.86111	15 20	44.93	-11 40	37.5	095
345	1990 05	23.87500	15 20	44.17	-11 40	33.0	095
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366	1990 10	17.88637	01 18	10.48	+18 42	09.1	E	095
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367	1990 09	24.97558	02 00	19.33	+07 31	38.7	E	095
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374	1990 08	30.92770	22 08	18.32	+02 01	23.2		095
374	1990 09	15.80889	21 57	23.12	+00 12	40.3	E	095
374	1990 09	23.82427	21 53	20.89	-00 42	47.5		095
375	1990 03	01.82650	10 07	26.23	+13 07	47.1		095
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375	1990 03	17.82361	09 55	03.62	+13 15	57.9		095
375	1990 03	25.76782	09 50	18.73	+13 13	10.4	E	095
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378	1990 10	16.04084	02 59	34.66	+20 01	29.3		095
378	1990 10	16.05473	02 59	34.18	+20 01	23.7		095
378	1990 10	23.97255	02 54	08.74	+19 15	49.2		095
378	1990 11	14.88692	02 36	11.97	+16 40	18.5		095
378	1990 11	14.90081	02 36	11.25	+16 40	12.9		095
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382	1990 09	22.88197	23 21	39.59	+03 25	43.1	E	095
382	1990 09	22.89586	23 21	38.92	+03 25	39.1	E	095
383	1990 05	17.88218	15 34	33.01	-16 58	36.9		095
383	1990 05	17.89676	15 34	32.27	-16 58	34.5		095
383	1990 05	23.86111	15 29	55.02	-16 44	53.5		095
383	1990 05	23.87500	15 29	54.22	-16 44	50.2		095
385	1990 03	21.77013	10 24	12.73	+10 12	29.2		095
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387	1990 05	22.84432	15 09	18.33	+13 48	58.9		095
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388	1990 08	29.94792	00 00	31.41	-00 26	16.7		095
388	1990 09	18.91377	23 45	12.42	-01 18	51.8		095
388	1990 09	18.93461	23 45	11.43	-01 18	55.1		095
388	1990 09	22.88197	23 41	55.73	-01 30	41.8		095
388	1990 09	22.89586	23 41	55.10	-01 30	44.2		095
388	1990 10	14.82290	23 26	15.31	-02 23	39.2	E	095
388	1990 10	14.85068	23 26	14.28	-02 23	42.3	E	095
388	1990 10	17.77699	23 24	43.14	-02 27	52.5	E	095
388	1990 10	17.79088	23 24	42.77	-02 27	55.0	E	095
388	1990 10	18.80208	23 24	13.51	-02 29	05.9		095
388	1990 10	18.81493	23 24	13.21	-02 29	07.6		095

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392	1990 04	17.92711	14 05	14.85	-11 59	06.6		095
392	1990 05	18.84038	13 44	07.58	-08 19	56.2	E	095
392	1990 05	18.85427	13 44	06.92	-08 19	55.4	E	095
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406	1990 10	13.92907	01 58	39.48	+19 12	21.1	E	095
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406	1990 10	17.95892	01 55	15.11	+18 58	59.5	E	095
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415	1990 05	18.85427	14 00	58.73	-00 32	59.2		095
415	1990 05	20.83745	13 59	45.55	-00 30	11.0		095
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423	1990 04	19.84896	11 45	44.22	+17 07	23.5		095
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428	1990 04	17.82294	12 03	34.78	+00 53	35.7		095
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442	1990 09	21.78296	22 12	19.75	-15 48	04.7		095
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461	1990 03	17.82361	09 51	03.14	+12 59	15.6		095
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476	1990 02	25.82881	09 43	57.13	+00 54	16.6		095
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544	1990 02	25.82881	09 48	27.78	+05 50	53.0	E	095
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544	1990 03	17.80486	09 32	16.07	+06 49	58.0		095
544	1990 03	17.82361	09 32	15.36	+06 50	01.3		095
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546	1990 04	17.82294	12 09	38.87	+03 45	53.6		095
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547	1990 04	17.92711	14 17	46.24	-05 18	57.7		095
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547	1990 05	18.85427	13 55	45.16	-01 55	36.2		095
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590	1990 05	22.93251	16 12	35.85	-09 41	54.1	E	095
590	1990 05	22.94675	16 12	35.22	-09 41	54.2	E	095
592	1990 03	25.87684	10 51	27.68	+07 28	42.6		095
592	1990 03	25.89767	10 51	26.90	+07 28	51.2		095
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614	1990 09	30.03461	01 53	07.66	+14 50	15.4		095
614	1990 10	15.90614	01 41	54.35	+13 01	52.5	E	095
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617	1990 11	20.95581	04 42	24.69	+35 10	00.3		095
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626	1990 04	17.76414	11 03	39.35	-07 45	10.0		095
626	1990 04	19.76736	11 02	26.10	-07 42	07.6		095
626	1990 04	19.78125	11 02	25.66	-07 42	06.3		095
653	1990 08	30.03125	01 04	12.03	-05 52	36.6	E	095
656	1990 09	22.96877	01 14	30.38	+07 44	56.5		095
656	1990 09	22.98266	01 14	29.87	+07 44	51.4		095
656	1990 09	29.96794	01 09	53.72	+07 16	01.2		095

656	1990	10	23.90034	00	52	46.97	+05	27	23.3		095
659	1990	03	01.82650	09	57	11.40	+14	36	59.9	E	095
659	1990	03	17.80486	09	50	14.87	+15	04	57.5	E	095
659	1990	03	17.82361	09	50	14.04	+15	05	00.1	E	095
663	1990	09	15.97950	01	20	38.30	+23	20	48.9	E	095
663	1990	09	23.96873	01	16	01.54	+22	49	47.5	E	095
663	1990	10	23.82674	00	55	04.37	+19	29	06.1	E	095
671	1990	09	24.04164	01	57	33.80	+16	40	39.8		095
671	1990	09	27.04833	01	55	46.61	+16	40	33.5		095
671	1990	09	27.06221	01	55	46.12	+16	40	31.8		095
671	1990	09	30.03461	01	53	50.66	+16	39	28.2	E	095
678	1990	09	15.97950	00	57	01.38	+18	04	25.0		095
678	1990	09	23.96873	00	51	54.37	+17	58	40.2		095
678	1990	10	23.82674	00	28	24.12	+15	29	41.5		095
689	1990	10	11.77022	22	41	10.16	-10	40	41.6		095
689	1990	10	13.75968	22	41	34.78	-10	47	33.4		095
691	1990	05	20.83745	14	04	40.20	+02	05	00.8	E	095
693	1990	10	13.84158	01	27	29.88	+22	06	45.3		095
693	1990	10	13.85547	01	27	29.02	+22	06	44.3		095
693	1990	10	17.87213	01	23	37.10	+22	01	36.3		095
693	1990	10	17.88637	01	23	36.38	+22	01	34.9		095
693	1990	11	14.79771	01	00	26.20	+20	44	54.9		095
693	1990	11	14.81194	01	00	25.87	+20	44	50.2		095
701	1990	10	17.03817	03	43	38.40	+22	31	35.4	E	095
701	1990	10	17.05953	03	43	37.84	+22	31	33.3	E	095
701	1990	11	21.85087	03	17	01.52	+19	59	26.0	E	095
701	1990	11	21.87153	03	17	00.58	+19	59	19.7	E	095
701	1990	11	23.83368	03	15	24.28	+19	49	09.0	E	095
701	1990	11	23.84722	03	15	23.69	+19	49	04.2	E	095
702	1990	08	17.85938	21	22	08.31	+03	07	07.4		095
702	1990	08	17.87326	21	22	07.49	+03	07	05.7		095
702	1990	08	26.84072	21	14	36.67	+03	04	43.2		095
702	1990	08	29.84549	21	12	15.53	+03	01	59.0	E	095
705	1990	10	13.84158	01	28	59.04	+27	04	12.4		095
705	1990	10	13.85547	01	28	58.16	+27	04	11.9		095
705	1990	10	17.87213	01	24	14.14	+27	12	42.7		095
705	1990	10	17.88637	01	24	13.15	+27	12	45.7		095
707	1990	09	18.82558	22	59	01.82	+02	20	34.1		095
707	1990	09	18.84606	22	59	00.62	+02	20	26.1		095
707	1990	09	22.79170	22	55	33.35	+01	59	18.7		095
707	1990	09	22.81254	22	55	32.30	+01	59	12.0		095
707	1990	09	24.78819	22	53	55.22	+01	48	31.2		095
707	1990	09	24.80894	22	53	54.16	+01	48	24.8		095
707	1990	09	26.85738	22	52	19.00	+01	37	23.7		095
707	1990	09	26.87822	22	52	18.01	+01	37	16.4		095
731	1990	05	24.84992	14	32	37.04	-15	31	31.6	E	095
731	1990	05	24.86381	14	32	36.26	-15	31	28.8	E	095
732	1990	10	11.77022	22	30	22.66	-08	56	28.6	E	095
732	1990	10	13.75968	22	30	02.32	-09	07	46.6	E	095
734	1990	08	26.99832	00	29	15.29	+02	11	42.1		095
734	1990	08	27.01220	00	29	14.82	+02	11	41.6		095
734	1990	08	30.99852	00	27	18.43	+02	05	25.6		095
734	1990	08	31.01241	00	27	18.00	+02	05	26.2		095
734	1990	09	15.88955	00	17	05.38	+01	26	45.5	E	095
734	1990	09	15.90344	00	17	04.84	+01	26	42.2	E	095
734	1990	09	23.89652	00	10	56.62	+01	01	44.6		095
734	1990	09	26.95123	00	08	32.20	+00	51	52.0		095
734	1990	09	26.97195	00	08	31.26	+00	51	47.8		095
734	1990	10	11.83965	23	57	16.10	+00	06	19.0		095

734	1990	10	14.82290	23	55	14.87	-00	01	25.6	095
734	1990	10	14.85068	23	55	13.76	-00	01	31.6	095
734	1990	10	15.82212	23	54	35.75	-00	03	55.8	095
734	1990	10	15.83601	23	54	35.25	-00	03	58.5	095
734	1990	10	16.81667	23	53	57.83	-00	06	15.5	095
734	1990	10	16.83681	23	53	56.98	-00	06	19.9	095
737	1990	05	20.83745	13	33	20.84	+00	41	27.5	E 095
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738	1990	08	29.94792	00	17	42.22	-01	47	05.1	E 095
738	1990	09	26.95123	23	59	00.96	-04	14	25.2	095
738	1990	09	26.97195	23	59	00.08	-04	14	32.6	095
738	1990	10	14.82290	23	47	04.13	-05	35	02.5	095
738	1990	10	14.85068	23	47	03.09	-05	35	09.7	095
741	1990	04	19.99652	16	07	15.34	-10	52	30.6	095
741	1990	05	17.88218	15	45	49.26	-10	10	59.1	095
741	1990	05	17.89676	15	45	48.38	-10	10	59.6	095
741	1990	05	23.86111	15	40	21.91	-10	08	10.4	095
741	1990	05	23.87500	15	40	21.09	-10	08	11.7	095
743	1990	08	26.99832	00	43	03.86	+10	24	29.5	E 095
743	1990	08	27.01220	00	43	03.57	+10	24	26.5	E 095
743	1990	08	30.99852	00	41	39.14	+10	16	53.9	E 095
743	1990	08	31.01241	00	41	38.81	+10	16	52.5	E 095
743	1990	09	15.88955	00	32	53.24	+09	19	25.4	095
743	1990	09	15.90344	00	32	52.79	+09	19	19.8	095
743	1990	09	23.89652	00	27	02.82	+08	35	43.5	E 095
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767	1990	08	24.97517	00	04	43.83	-03	39	09.7	E 095
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767	1990	10	14.82290	23	32	07.84	-07	00	27.8	095
767	1990	10	14.85068	23	32	06.98	-07	00	30.9	095
767	1990	10	18.80208	23	30	29.93	-07	05	54.9	095
767	1990	10	18.81493	23	30	29.48	-07	05	55.3	095
771	1990	08	26.84072	21	12	27.86	+06	34	13.2	E 095
774	1990	03	25.76782	09	39	36.76	+06	07	07.8	E 095
774	1990	03	25.79265	09	39	35.86	+06	07	10.0	E 095
775	1990	09	18.82558	22	57	52.87	+05	09	42.6	095
775	1990	09	18.84606	22	57	51.81	+05	09	36.0	095
775	1990	09	22.79170	22	54	53.49	+04	54	04.1	095
775	1990	09	22.81254	22	54	52.59	+04	53	58.2	095
775	1990	09	24.78819	22	53	26.76	+04	46	00.4	095
775	1990	09	24.80894	22	53	25.86	+04	45	54.1	095
775	1990	09	26.85738	22	51	59.68	+04	37	32.8	095
775	1990	09	26.87822	22	51	58.85	+04	37	26.9	095
783	1990	08	24.97517	23	45	30.45	-08	41	08.1	095
783	1990	08	24.98906	23	45	29.98	-08	41	25.1	095
789	1990	10	17.03817	03	40	15.92	+21	13	49.1	095
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789	1990	10	28.99653	03	31	52.62	+20	10	56.1	095
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789	1990 11 23.83368	03 09 07.67	+17 23 27.7	095
789	1990 11 23.84722	03 09 07.00	+17 23 20.5	095
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823	1990 09 22.79170	22 45 59.72	-01 02 47.7	E 095
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823	1990 09 26.85738	22 42 42.35	-01 28 25.1	095
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886	1990 11 21.87153	03 12 07.01	+14 07 30.5	095
886	1990 11 23.83368	03 10 10.92	+14 14 53.3	095
886	1990 11 23.84722	03 10 10.15	+14 14 57.1	095
888	1990 04 19.83333	12 01 18.58	+18 38 39.3	E 095
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904	1990 09 22.79170	23 13 14.94	+05 07 19.7	095
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920	1990 05 24.94922	16 30 07.33	-07 16 36.2	095
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926	1990 10 28.99653	03 40 03.75	+20 28 41.5	095
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937	1990 09 22.79170	22 59 43.01	+01 50 59.3	095
937	1990 09 22.81254	22 59 42.19	+01 50 50.8	095
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937	1990 09 26.87822	22 57 18.36	+01 21 37.8	095
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946	1990 10 13.75968	22 32 23.41	-11 11 45.1	095
947	1990 04 17.82294	12 03 44.62	+06 15 36.2	095
947	1990 04 17.84377	12 03 43.77	+06 15 40.5	095
959	1990 11 14.97719	04 33 15.41	+22 27 44.9	E 095
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972	1990 09	15.97950	01 24	08.48	+23 12	24.4	E 095
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998	1990 11	20.96970	04 54	08.77	+41 26	15.6	095
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1408	1990	09	18.93461	23	56	01.46	+04	54	45.7	095
1408	1990	09	22.88197	23	53	18.90	+04	26	22.9	095
1408	1990	09	22.89586	23	53	18.34	+04	26	16.8	095
1408	1990	10	11.83965	23	41	19.22	+02	07	24.8	E 095
1408	1990	10	15.82212	23	39	19.13	+01	40	21.4	E 095
1408	1990	10	15.83601	23	39	18.69	+01	40	13.7	E 095
1408	1990	10	17.77699	23	38	26.16	+01	27	33.8	095
1408	1990	10	17.79088	23	38	25.86	+01	27	28.0	095
1409	1990	04	17.82294	11	46	55.75	+03	07	22.8	095
1409	1990	04	17.84377	11	46	55.05	+03	07	28.9	095
1412	1990	04	19.83333	11	41	43.50	+09	08	08.8	E 095
1412	1990	04	19.84896	11	41	43.12	+09	08	08.5	E 095
1413	1990	04	17.82294	12	04	05.32	+02	26	03.4	095
1413	1990	04	17.84377	12	04	04.57	+02	26	08.6	095
1420	1990	08	26.91152	22	32	33.92	-03	09	53.0	E 095
1420	1990	08	26.92679	22	32	33.17	-03	09	55.6	E 095
1420	1990	08	30.91381	22	29	16.86	-03	27	21.2	E 095
1420	1990	08	30.92770	22	29	16.15	-03	27	27.5	E 095
1420	1990	09	15.80889	22	17	00.68	-04	41	56.2	095
1420	1990	09	23.82427	22	12	08.04	-05	17	12.1	095
1422	1990	08	29.93125	00	06	24.69	+03	50	16.1	095
1422	1990	08	29.94792	00	06	24.07	+03	50	11.2	095
1422	1990	09	18.91377	23	53	16.45	+01	49	35.8	095
1422	1990	09	18.93461	23	53	15.45	+01	49	26.3	095
1422	1990	09	22.88197	23	50	04.00	+01	19	06.5	095
1422	1990	09	22.89586	23	50	03.29	+01	18	59.9	095
1422	1990	10	14.82290	23	35	30.28	-01	16	49.0	095
1422	1990	10	14.85068	23	35	29.61	-01	17	01.6	095

1422	1990 10	17.77699	23 34	25.13	-01 32	27.4	095
1422	1990 10	17.79088	23 34	24.73	-01 32	29.6	095
1423	1990 11	21.04192	06 42	50.67	+25 00	05.6	E 095
1423	1990 11	21.05581	06 42	50.46	+25 00	07.7	E 095
1434	1990 08	24.88595	22 45	07.44	-09 11	11.0	095
1434	1990 08	24.90018	22 45	06.69	-09 11	16.5	095
1434	1990 08	28.87221	22 42	22.69	-09 43	21.3	E 095
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1446	1990 09	22.96877	01 16	27.37	+07 13	27.0	095
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1466	1990 09	24.90267	00 33	59.26	-07 38	20.3	095
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1487	1990 03	01.82650	10 16	30.35	+14 04	27.6	E 095
1487	1990 03	21.77013	10 03	20.18	+15 16	10.7	E 095
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1488	1990 10	23.82674	00 40	13.97	+11 30	40.4	E 095
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1489	1990 04	17.84377	12 12	08.78	+01 01	35.5	095
1502	1990 05	16.90726	15 00	20.90	-14 12	44.7	095
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1511	1990 05	24.86381	14 44	26.22	-12 06	03.4	095
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1513	1990 09	29.96794	01 28	44.81	+03 01	22.3	E 095
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1539	1990 08	27.01220	00 37	49.90	+02 30	38.0	095
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1539	1990 10	11.83965	00 10	11.36	-01 00	51.4	095
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1539	1990 10	15.83601	00 07	40.72	-01 18	04.2	095
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1542	1990 09	18.91377	23 31	43.03	-00 11	20.0	095
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1542	1990 09	22.89586	23 28	51.77	-00 33	38.1	095
1542	1990 10	17.77699	23 14	57.80	-02 34	25.8	E 095
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1542	1990 10	18.80208	23 14	37.00	-02 38	04.1	095
1542	1990 10	18.81493	23 14	36.80	-02 38	07.4	095
1553	1990 04	17.82294	11 57	33.77	+05 25	55.4	095
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1554	1990 05	16.90726	15 04	21.66	-12 41	35.9	095
1554	1990 05	24.84992	14 57	41.44	-11 43	15.4	095
1554	1990 05	24.86381	14 57	40.73	-11 43	15.1	095
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1558	1990 05	18.94767	16 43	20.42	-11 50	53.6	E 095
1558	1990 05	22.93251	16 40	22.38	-11 48	47.6	095
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1560	1990 09	18.82558	22 59	11.57	+04 37	41.5	095
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1650	1990 08	30.99852	00 14	59.45	+03 45	03.2	E 095
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1650	1990 09	22.89586	23 56	11.72	+01 18	50.3	E 095
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1669	1990 09	22.98266	01 30	37.87	+09 27	23.7	E	095
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1684	1990 10	23.97255	03 14	04.66	+13 23	37.2	E	095
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1687	1990 03	17.89895	10 58	11.00	+10 28	32.2	E	095
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1691	1990 08	27.01220	00 15	02.37	+01 38	17.0	E	095
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1691	1990 08	30.99852	00 13	12.55	+01 24	54.4	E	095
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1691	1990 09	22.89586	23 58	28.17	-00 20	31.4	E	095
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1691	1990 10	17.77699	23 42	14.91	-02 15	21.9	E	095
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1715	1990 03 25.97891	12 51 59.68	+07 16 38.4	095
1715	1990 03 25.99975	12 51 58.17	+07 16 38.0	095
1715	1990 04 17.82294	12 26 39.81	+06 47 52.1	E 095
1715	1990 04 17.84377	12 26 38.97	+06 47 56.3	E 095
1716	1990 09 15.88955	00 03 12.14	+08 41 55.2	095
1716	1990 09 15.90344	00 03 11.46	+08 41 44.8	095
1716	1990 09 23.89652	23 56 50.96	+07 56 42.4	E 095
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1725	1990 11 20.86764	04 45 42.83	+18 32 50.6	095
1725	1990 11 20.88153	04 45 41.88	+18 32 51.8	095
1729	1990 10 17.03817	03 39 43.09	+21 51 00.4	095
1729	1990 10 17.05953	03 39 42.29	+21 50 58.8	095
1729	1990 10 28.99653	03 29 32.99	+21 33 50.8	E 095
1729	1990 10 29.00521	03 29 32.65	+21 33 50.0	E 095
1732	1990 03 17.89895	11 08 46.20	+09 10 41.6	095
1732	1990 03 17.90936	11 08 45.70	+09 10 46.7	095
1739	1990 09 21.88260	22 56 59.51	-03 02 10.3	E 095
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1739	1990 09 24.80894	22 54 50.48	-03 23 36.6	E 095
1739	1990 09 26.85738	22 53 26.79	-03 37 59.2	E 095
1739	1990 09 26.87822	22 53 25.86	-03 38 08.9	E 095
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1743	1990 05 18.94767	16 44 56.95	-12 51 52.0	E 095
1743	1990 05 22.93251	16 41 26.86	-12 33 31.8	E 095
1743	1990 05 22.94675	16 41 26.19	-12 33 28.0	E 095
1754	1990 03 01.82650	10 13 15.04	+08 28 20.2	095
1754	1990 03 21.77013	10 02 46.46	+10 08 01.6	E 095
1754	1990 03 21.79088	10 02 45.68	+10 08 06.1	E 095
1764	1990 10 13.75968	22 27 58.16	-10 28 51.2	E 095
1765	1990 10 14.97221	03 17 04.88	+01 11 28.0	E 095
1765	1990 10 14.99302	03 17 03.86	+01 11 27.8	E 095
1776	1990 03 01.82650	09 50 57.56	+06 49 08.1	095
1776	1990 03 17.80486	09 41 44.48	+08 31 29.3	095
1776	1990 03 17.82361	09 41 43.85	+08 31 36.2	095
1776	1990 03 25.76782	09 38 47.30	+09 15 20.7	095
1776	1990 03 25.79265	09 38 46.77	+09 15 26.4	095
1777	1990 09 24.04164	02 00 41.18	+16 02 06.4	E 095
1777	1990 09 30.03461	01 56 54.70	+15 52 14.2	095
1777	1990 10 15.90614	01 43 53.35	+15 03 00.9	E 095
1777	1990 10 15.92003	01 43 52.55	+15 02 56.1	E 095
1780	1990 09 15.97950	00 58 58.52	+20 01 22.8	095
1780	1990 09 23.96873	00 53 21.34	+19 46 50.3	095
1780	1990 10 23.82674	00 30 18.22	+17 30 54.4	095
1786	1990 09 22.96877	01 03 57.36	+04 58 31.8	E 095
1786	1990 09 22.98266	01 03 56.72	+04 58 27.4	E 095
1786	1990 09 29.96794	00 58 06.02	+04 50 57.6	095
1786	1990 10 23.90034	00 37 25.05	+04 23 08.8	095
1809	1990 08 30.03125	00 44 53.46	-00 24 17.8	095
1809	1990 09 24.88156	00 28 53.09	-02 31 14.8	095
1809	1990 09 24.90267	00 28 52.15	-02 31 21.4	095
1809	1990 10 16.81667	00 12 34.60	-04 08 09.7	095
1809	1990 10 16.83681	00 12 33.69	-04 08 15.7	095
1810	1990 09 27.04833	02 13 56.85	+19 11 56.7	095
1810	1990 09 27.06221	02 13 56.48	+19 11 54.1	095

1810	1990	10	13.92907	02	01	52.05	+18	06	08.0	E	095
1810	1990	10	13.94018	02	01	51.30	+18	06	00.3	E	095
1810	1990	10	17.95892	01	58	04.54	+17	41	46.9	E	095
1810	1990	10	17.97976	01	58	03.27	+17	41	36.0	E	095
1818	1990	08	26.99832	00	29	55.37	+09	35	57.9	E	095
1818	1990	08	27.01220	00	29	54.98	+09	35	57.4	E	095
1818	1990	08	30.99852	00	28	32.12	+09	32	47.2	E	095
1818	1990	08	31.01241	00	28	31.80	+09	32	48.0	E	095
1818	1990	09	15.88955	00	18	20.62	+08	35	59.4		095
1818	1990	09	15.90344	00	18	19.95	+08	35	53.1		095
1818	1990	09	23.89652	00	11	23.88	+07	44	48.8	E	095
1818	1990	10	11.83965	23	56	50.16	+05	30	18.0		095
1818	1990	10	15.82212	23	54	27.44	+05	02	20.3		095
1818	1990	10	15.83601	23	54	27.06	+05	02	12.8		095
1828	1990	02	25.81145	09	17	26.18	+02	03	50.6		095
1828	1990	02	25.82881	09	17	25.49	+02	03	58.8		095
1834	1990	08	17.85938	21	26	43.73	-02	26	43.2		095
1834	1990	08	17.87326	21	26	43.06	-02	26	43.7		095
1834	1990	08	26.84072	21	19	45.54	-02	52	10.9	E	095
1834	1990	08	29.84549	21	17	35.83	-03	01	51.9		095
1839	1990	11	14.97719	04	48	37.24	+26	39	47.0		095
1839	1990	11	14.99108	04	48	36.45	+26	39	46.0		095
1839	1990	11	20.86764	04	43	04.63	+27	03	42.4		095
1839	1990	11	20.88153	04	43	04.03	+27	03	42.6		095
1841	1990	09	24.04164	02	01	33.50	+11	01	44.8	E	095
1841	1990	09	24.97558	02	01	05.57	+10	59	34.6		095
1841	1990	09	24.99641	02	01	04.98	+10	59	31.4		095
1841	1990	09	30.03461	01	58	23.78	+10	46	23.9	E	095
1847	1990	10	14.97221	02	58	33.54	-00	17	23.7		095
1847	1990	10	14.99302	02	58	32.65	-00	17	28.2		095
1847	1990	10	16.93748	02	57	06.91	-00	26	35.5		095
1847	1990	10	16.95831	02	57	06.04	-00	26	41.5		095
1859	1990	09	27.04833	01	51	28.37	+18	52	34.6		095
1859	1990	09	27.06221	01	51	27.92	+18	52	31.4		095
1859	1990	11	14.79771	01	16	14.99	+16	29	12.9		095
1859	1990	11	14.81194	01	16	14.15	+16	29	19.2		095
1874	1990	05	18.93280	16	25	37.91	-14	28	40.1		095
1874	1990	05	18.94767	16	25	37.07	-14	28	36.1		095
1874	1990	05	22.93251	16	22	24.35	-14	18	06.5		095
1874	1990	05	22.94675	16	22	23.75	-14	18	04.0		095
1880	1990	08	28.95485	23	13	41.31	-11	05	55.7		095
1880	1990	08	28.97290	23	13	40.68	-11	06	00.0		095
1899	1990	04	19.91388	13	22	37.34	-01	37	10.2		095
1899	1990	04	19.92777	13	22	36.34	-01	37	11.5		095
1902	1990	09	24.97558	02	31	23.00	+05	24	40.2		095
1902	1990	09	24.99641	02	31	22.44	+05	24	38.8		095
1909	1990	03	25.87684	10	27	46.93	+06	43	07.2	E	095
1909	1990	03	25.89767	10	27	46.21	+06	43	13.9	E	095
1914	1990	09	24.97558	02	14	15.32	+03	58	39.6		095
1914	1990	09	24.99641	02	14	14.52	+03	58	32.6		095
1919	1990	09	15.97950	01	12	45.42	+15	38	36.3	E	095
1919	1990	09	23.96873	01	02	17.50	+17	03	31.0		095
1925	1990	05	16.83574	14	08	15.03	-01	06	53.5		095
1927	1990	09	22.96877	01	13	15.04	+01	34	52.6		095
1927	1990	09	22.98266	01	13	14.32	+01	34	52.9		095
1927	1990	09	29.96794	01	06	53.58	+01	23	45.2		095
1927	1990	10	23.90034	00	43	15.27	+00	55	34.8		095
1935	1990	09	24.78819	22	34	06.70	+00	19	21.7		095
1935	1990	09	24.80894	22	34	05.83	+00	19	10.0		095

1936	1990	10	13.84158	01	33	04.28	+23	55	12.2	095
1936	1990	10	13.85547	01	33	03.39	+23	55	07.0	095
1936	1990	10	17.87213	01	29	30.30	+23	32	02.8	095
1936	1990	10	17.88637	01	29	29.71	+23	31	55.1	095
1936	1990	11	14.79771	01	07	50.05	+20	03	55.2	095
1953	1990	11	21.04192	06	27	22.98	+23	51	29.2	095
1953	1990	11	21.05581	06	27	22.38	+23	51	28.6	095
1958	1990	03	01.82650	10	20	31.30	+13	05	54.2	E 095
1959	1990	10	13.84158	01	41	15.67	+22	22	31.8	095
1959	1990	10	13.85547	01	41	14.81	+22	22	29.7	095
1959	1990	11	14.79771	01	13	52.41	+18	29	17.0	095
1961	1990	09	24.88156	00	35	07.51	-00	28	50.9	095
1961	1990	09	24.90267	00	35	06.61	-00	28	55.4	095
1961	1990	10	16.81667	00	18	23.39	-01	32	40.0	095
1961	1990	10	16.83681	00	18	22.35	-01	32	45.0	095
1962	1990	10	16.04084	03	20	30.44	+19	31	33.6	095
1962	1990	10	16.05473	03	20	30.02	+19	31	29.1	095
1962	1990	10	17.03817	03	19	58.29	+19	30	26.3	095
1962	1990	10	17.05953	03	19	57.56	+19	30	22.5	095
1962	1990	10	23.97255	03	15	41.46	+19	20	14.9	E 095
1962	1990	10	28.99653	03	12	01.26	+19	10	12.8	095
1962	1990	10	29.00521	03	12	00.85	+19	10	10.8	095
1962	1990	11	14.88692	02	58	05.05	+18	24	55.2	095
1962	1990	11	14.90081	02	58	04.09	+18	24	50.9	095
1962	1990	11	15.91278	02	57	14.14	+18	21	55.9	E 095
1962	1990	11	15.92361	02	57	13.17	+18	21	49.7	E 095
1962	1990	11	21.85087	02	52	30.63	+18	04	21.5	095
1962	1990	11	21.87153	02	52	29.75	+18	04	17.5	095
1962	1990	11	23.83368	02	51	01.84	+17	58	41.1	095
1962	1990	11	23.84722	02	51	01.31	+17	58	39.0	095
1969	1990	04	28.87194	13	37	14.43	-09	58	57.0	095
1969	1990	04	28.88583	13	37	14.17	-09	58	50.3	095
1972	1990	09	24.88156	00	35	57.52	-01	30	24.7	095
1972	1990	09	24.90267	00	35	56.35	-01	30	29.2	095
1972	1990	10	16.81667	00	15	23.78	-02	54	33.2	095
1972	1990	10	16.83681	00	15	22.96	-02	54	38.8	095
2001	1990	09	15.88955	00	22	08.97	+05	25	28.0	095
2001	1990	09	15.90344	00	22	07.44	+05	25	33.4	095
2001	1990	09	23.89652	00	09	08.68	+06	03	59.5	095
2008	1990	09	22.96877	01	16	47.98	+07	50	11.7	095
2008	1990	09	22.98266	01	16	47.32	+07	50	09.7	095
2008	1990	09	29.96794	01	11	07.44	+07	47	41.0	E 095
2008	1990	10	23.90034	00	50	30.19	+07	28	49.5	E 095
2009	1990	10	16.04084	02	53	31.97	+12	28	35.2	E 095
2009	1990	10	16.05473	02	53	31.53	+12	28	32.9	E 095
2009	1990	10	23.97255	02	48	00.62	+12	01	55.6	E 095
2015	1990	08	26.99832	00	36	35.63	+08	15	24.9	095
2015	1990	08	27.01220	00	36	35.01	+08	15	27.1	095
2015	1990	08	30.99852	00	33	50.07	+08	25	52.6	095
2015	1990	08	31.01241	00	33	49.43	+08	25	56.4	095
2015	1990	09	15.88955	00	19	07.40	+08	41	46.6	095
2015	1990	09	15.90344	00	19	06.44	+08	41	44.8	095
2015	1990	09	23.89652	00	10	16.28	+08	35	13.0	E 095
2036	1990	11	14.88692	02	37	14.13	+21	38	14.1	095
2036	1990	11	14.90081	02	37	13.29	+21	38	16.4	095
2046	1990	09	24.88156	00	49	34.55	+00	54	32.0	095
2046	1990	09	24.90267	00	49	33.67	+00	54	26.1	095
2051	1990	09	26.85738	23	11	54.67	-03	37	34.6	E 095
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2052	1990 08	29.84549	21 17	57.80	-02 03	05.7		095
2058	1990 08	28.95485	23 12	34.94	-08 59	47.7		095
2058	1990 08	28.97290	23 12	34.18	-08 59	51.0		095
2058	1990 09	21.88260	22 55	03.95	-10 51	27.2		095
2058	1990 10	13.75968	22 44	31.36	-11 41	52.2		095
2095	1990 08	29.93125	23 59	30.75	+01 57	38.0		095
2095	1990 08	29.94792	23 59	29.98	+01 57	35.4		095
2095	1990 09	18.91377	23 43	22.34	+00 45	40.6		095
2095	1990 09	18.93461	23 43	21.42	+00 45	35.0		095
2095	1990 09	22.88197	23 39	53.90	+00 28	33.0		095
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2121	1990 04	19.92777	13 33	50.57	-02 14	41.7		095
2127	1990 10	14.97221	03 06	36.01	-00 27	20.9		095
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2127	1990 10	16.93748	03 05	23.27	-00 34	59.8		095
2127	1990 10	16.95831	03 05	22.46	-00 35	04.9		095
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2162	1990 05	17.89676	15 33	46.54	-14 10	37.4		095
2162	1990 05	23.86111	15 27	32.21	-13 51	25.0		095
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2165	1990 11	14.90081	02 33	36.84	+15 46	42.0		095
2166	1990 08	29.93125	23 48	17.38	-01 45	03.7	E	095
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2170	1990 11	14.97719	04 53	39.94	+23 19	35.3		095
2170	1990 11	14.99108	04 53	39.04	+23 19	31.4		095
2170	1990 11	20.86764	04 48	06.62	+23 03	06.9		095
2170	1990 11	20.88153	04 48	06.05	+23 03	09.2		095
2176	1990 09	26.95123	00 06	23.81	-04 20	45.3		095
2176	1990 09	26.97195	00 06	22.87	-04 20	50.1		095
2180	1990 02	25.81145	09 49	19.61	-00 40	47.6	E	095
2180	1990 02	25.82881	09 49	18.77	-00 40	43.2	E	095
2185	1990 04	19.91388	13 26	51.60	+00 33	19.4		095
2185	1990 04	19.92777	13 26	50.70	+00 33	20.7		095
2188	1990 08	24.88595	22 31	57.94	-10 20	31.6		095
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2188	1990 08	28.87221	22 28	54.31	-10 42	54.9		095
2188	1990 08	28.88610	22 28	53.56	-10 43	02.0		095
2192	1990 09	18.82558	22 52	06.41	+01 35	12.0		095
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2192	1990 09	22.79170	22 49	42.26	+01 04	58.7		095
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2192	1990 09	24.80894	22 48	33.27	+00 49	41.7		095
2192	1990 09	26.85738	22 47	26.32	+00 34	19.8		095
2192	1990 09	26.87822	22 47	25.72	+00 34	10.5		095
2222	1990 03	01.82650	10 14	28.07	+14 28	27.5	E	095
2224	1990 11	14.97719	04 37	36.15	+23 02	33.5	16.5	E 095
2224	1990 11	14.99108	04 37	35.23	+23 02	31.6	16.5	E 095
2224	1990 11	20.86764	04 32	26.64	+22 57	21.5		095
2224	1990 11	20.88153	04 32	25.87	+22 57	19.1		095
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2226	1990 10 15.90614	01 34 39.61	+08 27 19.7	095
2226	1990 10 15.92003	01 34 38.84	+08 27 17.6	095
2232	1990 05 16.90726	15 24 50.40	-16 56 06.0	E 095
2232	1990 05 17.88218	15 23 57.98	-16 51 18.0	095
2232	1990 05 17.89676	15 23 57.21	-16 51 15.3	095
2232	1990 05 23.86111	15 18 40.90	-16 21 56.9	095
2232	1990 05 23.87500	15 18 40.04	-16 21 53.8	095
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2245	1990 04 19.84896	12 02 08.30	+17 57 12.1	P 095
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2249	1990 10 17.05953	03 52 07.82	+14 41 06.4	095
2249	1990 11 15.91278	03 31 59.77	+13 12 39.5	095
2249	1990 11 15.92361	03 31 58.79	+13 12 36.7	095
2249	1990 11 23.83368	03 25 45.90	+12 50 37.3	E 095
2249	1990 11 23.84722	03 25 45.34	+12 50 34.8	E 095
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2250	1990 08 28.97290	23 10 15.16	-05 32 25.2	095
2250	1990 09 21.88260	22 53 48.71	-07 31 46.3	095
2250	1990 10 11.77022	22 45 08.72	-08 35 22.6	095
2250	1990 10 13.75968	22 44 44.80	-08 38 37.4	095
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2251	1990 08 30.91381	21 56 20.66	-03 47 08.1	E 095
2251	1990 08 30.92770	21 56 19.79	-03 47 14.7	E 095
2251	1990 09 15.80889	21 46 08.89	-05 49 06.8	E 095
2251	1990 09 23.82427	21 42 53.08	-06 45 55.7	E 095
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2257	1990 08 26.92679	22 16 49.71	+00 21 07.6	095
2257	1990 08 30.91381	22 13 46.93	+00 01 10.8	095
2257	1990 08 30.92770	22 13 46.31	+00 01 07.2	095
2257	1990 09 15.80889	22 03 13.18	-01 36 02.2	095
2257	1990 09 23.82427	21 59 59.75	-02 26 51.4	095
2268	1990 04 17.91322	14 10 27.87	-08 51 59.9	095
2268	1990 04 17.92711	14 10 27.20	-08 51 54.2	095
2271	1990 10 17.03817	03 49 27.05	+14 59 41.9	095
2271	1990 10 17.05953	03 49 26.39	+14 59 37.4	095
2271	1990 10 28.99653	03 41 52.46	+14 23 00.8	095
2271	1990 10 29.00521	03 41 52.11	+14 22 58.8	095
2271	1990 11 15.91278	03 26 30.56	+13 23 20.4	095
2271	1990 11 15.92361	03 26 29.47	+13 23 16.3	095
2271	1990 11 21.85087	03 21 07.94	+13 05 12.5	095
2271	1990 11 21.87153	03 21 06.89	+13 05 08.2	095
2271	1990 11 23.83368	03 19 23.07	+12 59 36.0	095
2271	1990 11 23.84722	03 19 22.26	+12 59 35.8	095
2287	1990 05 18.93280	16 10 06.64	-15 18 36.3	E 095
2287	1990 05 18.94767	16 10 05.76	-15 18 36.8	E 095
2289	1990 09 23.89652	00 07 49.68	+01 20 42.4	095
2296	1990 10 23.97255	02 39 52.38	+15 27 31.2	E 095
2297	1990 10 16.04084	03 10 18.26	+15 32 12.0	095
2297	1990 10 16.05473	03 10 17.94	+15 32 10.7	095
2297	1990 10 23.97255	03 05 07.35	+15 08 27.2	095
2297	1990 11 14.88692	02 48 31.07	+13 54 49.7	E 095
2297	1990 11 14.90081	02 48 30.60	+13 54 44.1	E 095
2325	1990 08 24.88595	22 45 37.38	-08 47 36.5	095
2325	1990 08 24.90018	22 45 37.06	-08 47 34.5	095
2325	1990 08 28.87221	22 42 45.44	-09 07 39.4	E 095
2325	1990 08 28.88610	22 42 44.56	-09 07 44.6	E 095
2328	1990 05 20.92566	16 28 23.42	-05 46 54.0	095
2328	1990 05 20.93954	16 28 22.62	-05 46 49.8	095

2328	1990 05	24.93534	16 24	35.21	-05 25	44.0	095
2328	1990 05	24.94922	16 24	34.45	-05 25	36.8	095
2343	1990 09	24.04164	01 40	25.94	+12 13	23.0	095
2343	1990 09	30.03461	01 37	58.00	+11 50	24.7	095
2343	1990 10	15.90614	01 27	39.53	+10 20	25.9	095
2343	1990 10	15.92003	01 27	38.83	+10 20	20.2	095
2345	1990 08	26.91152	22 33	43.07	-00 52	21.3	E 095
2345	1990 08	26.92679	22 33	42.54	-00 52	24.4	E 095
2345	1990 08	30.91381	22 30	27.38	-01 01	41.2	E 095
2345	1990 08	30.92770	22 30	26.61	-01 01	44.1	E 095
2345	1990 09	15.80889	22 17	57.60	-01 46	43.5	095
2345	1990 09	23.82427	22 12	37.30	-02 10	37.6	095
2350	1990 08	28.95485	23 32	10.75	-06 56	49.2	E 095
2350	1990 08	28.97290	23 32	10.00	-06 57	03.1	E 095
2350	1990 10	11.77022	22 58	06.41	-12 16	02.8	095
2350	1990 10	13.75968	22 57	19.65	-12 22	14.9	095
2361	1990 09	24.04164	01 59	14.74	+11 20	09.1	095
2361	1990 09	30.03461	01 55	53.92	+11 03	29.2	095
2371	1990 08	26.99832	00 37	55.66	+06 37	44.5	095
2371	1990 08	27.01220	00 37	55.30	+06 37	42.2	095
2371	1990 08	30.99852	00 36	07.66	+06 27	22.4	095
2371	1990 08	31.01241	00 36	07.22	+06 27	19.2	095
2371	1990 09	15.88955	00 25	30.92	+05 20	08.6	095
2371	1990 09	15.90344	00 25	30.38	+05 19	59.7	095
2371	1990 09	23.89652	00 18	42.07	+04 33	47.0	095
2371	1990 10	11.83965	00 03	16.90	+02 41	22.2	095
2371	1990 10	15.82212	00 00	18.60	+02 18	13.2	095
2371	1990 10	15.83601	00 00	17.98	+02 18	04.7	095
2381	1990 05	20.92566	16 36	13.80	-01 45	45.2	095
2381	1990 05	20.93954	16 36	13.25	-01 45	45.2	095
2381	1990 05	24.93534	16 32	48.88	-01 35	10.0	095
2381	1990 05	24.94922	16 32	47.99	-01 35	06.7	095
2391	1990 10	17.03817	03 51	22.77	+15 39	35.4	095
2391	1990 10	17.05953	03 51	22.25	+15 39	30.5	095
2391	1990 10	28.99653	03 45	08.54	+14 53	39.1	E 095
2391	1990 10	29.00521	03 45	08.13	+14 53	37.5	E 095
2391	1990 11	15.92361	03 29	34.13	+13 34	21.8	095
2391	1990 11	21.85087	03 23	49.14	+13 09	52.8	E 095
2391	1990 11	21.87153	03 23	47.92	+13 09	46.9	E 095
2391	1990 11	23.83368	03 21	56.11	+13 02	18.1	E 095
2391	1990 11	23.84722	03 21	55.28	+13 02	15.7	E 095
2394	1990 08	29.93125	00 05	06.58	-01 18	27.4	095
2394	1990 08	29.94792	00 05	06.13	-01 18	34.2	095
2394	1990 09	18.91377	23 52	06.55	-02 54	57.5	E 095
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2394	1990 09	22.88197	23 49	10.58	-03 15	31.4	E 095
2394	1990 09	22.89586	23 49	10.00	-03 15	36.8	E 095
2394	1990 09	26.95123	23 46	10.38	-03 36	14.6	E 095
2394	1990 09	26.97195	23 46	09.41	-03 36	21.3	E 095
2394	1990 10	14.82290	23 34	29.79	-04 53	22.1	095
2394	1990 10	14.85068	23 34	28.90	-04 53	29.9	095
2408	1990 04	19.83333	11 57	12.05	+13 17	19.2	095
2408	1990 04	19.84896	11 57	11.41	+13 17	27.2	095
2413	1990 05	20.92566	16 42	10.20	-07 12	32.7	095
2413	1990 05	20.93954	16 42	09.54	-07 12	27.2	095
2433	1990 08	26.84072	21 09	02.34	-03 10	44.9	E 095
2442	1990 04	28.87194	13 18	21.41	-05 26	06.9	095
2442	1990 04	28.88583	13 18	21.26	-05 26	07.8	095
2445	1990 11	21.04192	06 07	43.91	+21 22	54.7	095

2445	1990	11	21.05581	06	07	43.00	+21	22	50.3	095
2456	1990	03	01.82650	09	53	15.09	+12	08	22.1	095
2456	1990	03	17.80486	09	45	32.93	+12	24	34.2	095
2456	1990	03	17.82361	09	45	32.30	+12	24	34.7	095
2456	1990	03	25.76782	09	42	34.36	+12	28	48.1	095
2456	1990	03	25.79265	09	42	33.69	+12	28	46.2	095
2460	1990	08	28.95485	23	19	19.13	-02	55	24.8	E 095
2460	1990	08	28.97290	23	19	18.33	-02	55	25.1	E 095
2460	1990	09	21.88260	22	57	46.60	-05	53	44.7	095
2460	1990	10	11.77022	22	44	36.44	-07	51	32.1	095
2460	1990	10	13.75968	22	43	49.52	-07	59	44.5	095
2468	1990	08	29.84549	21	41	48.91	-02	43	10.6	095
2475	1990	02	25.81145	09	34	32.14	+02	16	36.9	095
2475	1990	02	25.82881	09	34	31.68	+02	16	40.0	095
2498	1990	03	25.87684	10	41	17.10	+07	48	55.4	095
2498	1990	03	25.89767	10	41	16.42	+07	48	58.1	095
2521	1990	08	26.91152	22	12	15.39	-01	13	16.0	095
2521	1990	08	26.92679	22	12	14.62	-01	13	19.3	095
2521	1990	08	30.91381	22	08	56.23	-01	27	28.4	095
2521	1990	08	30.92770	22	08	55.64	-01	27	28.6	095
2521	1990	09	15.80889	21	56	56.44	-02	29	47.4	095
2521	1990	09	23.82427	21	52	12.66	-03	00	53.7	095
2525	1990	04	17.91322	14	05	23.15	-09	22	19.2	095
2525	1990	04	17.92711	14	05	22.53	-09	22	16.5	095
2537	1990	08	29.93125	23	41	01.92	+03	35	47.2	E 095
2537	1990	08	29.94792	23	41	00.62	+03	35	51.7	E 095
2543	1990	04	19.83333	11	51	10.53	+14	31	16.2	095
2543	1990	04	19.84896	11	51	09.78	+14	31	20.1	095
2555	1990	08	26.99832	00	37	49.13	+05	28	22.5	095
2555	1990	08	27.01220	00	37	48.69	+05	28	20.6	095
2555	1990	08	30.99852	00	36	14.12	+05	20	05.9	095
2555	1990	08	31.01241	00	36	13.69	+05	20	07.3	095
2555	1990	09	15.88955	00	26	50.82	+04	25	43.1	095
2555	1990	09	15.90344	00	26	50.21	+04	25	37.7	095
2555	1990	09	23.89652	00	20	47.50	+03	48	15.4	095
2555	1990	10	11.83965	00	06	57.54	+02	18	19.2	095
2555	1990	10	15.82212	00	04	15.41	+01	59	57.5	095
2555	1990	10	15.83601	00	04	14.91	+01	59	54.5	095
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2559	1990	09	22.88197	23	26	11.95	-02	32	57.0	095
2559	1990	09	22.89586	23	26	11.16	-02	32	58.9	095
2568	1990	05	17.88218	15	44	40.64	-10	38	04.3	095
2568	1990	05	17.89676	15	44	39.48	-10	38	11.6	095
2568	1990	05	23.86111	15	38	15.57	-10	53	33.1	095
2568	1990	05	23.87500	15	38	14.60	-10	53	36.0	095
2573	1990	04	17.91322	14	13	00.66	-04	38	50.6	095
2573	1990	04	17.92711	14	12	59.86	-04	38	52.8	095
2573	1990	05	16.83574	13	48	29.13	-05	01	18.6	095
2573	1990	05	18.84038	13	47	09.86	-05	05	57.3	095
2573	1990	05	18.85427	13	47	09.04	-05	05	58.9	095
2580	1990	10	14.82290	23	29	29.42	-06	42	00.1	095
2580	1990	10	14.85068	23	29	28.86	-06	42	02.6	095
2581	1990	10	17.03817	03	24	11.25	+21	36	28.3	095
2581	1990	10	17.05953	03	24	10.51	+21	36	24.2	095
2581	1990	10	28.99653	03	15	14.49	+20	56	38.3	E 095
2581	1990	10	29.00521	03	15	13.94	+20	56	36.8	E 095
2581	1990	11	14.88692	02	58	06.17	+19	27	03.8	095
2581	1990	11	14.90081	02	58	05.17	+19	26	57.4	095

2581	1990	11	21.85087	02	51	03.83	+18	44	48.8	095
2581	1990	11	21.87153	02	51	02.75	+18	44	41.4	095
2581	1990	11	23.83368	02	49	12.11	+18	32	55.5	E 095
2581	1990	11	23.84722	02	49	11.39	+18	32	51.5	E 095
2582	1990	05	16.83574	13	53	52.12	-01	53	47.9	095
2582	1990	05	18.84038	13	52	28.54	-01	58	25.6	095
2582	1990	05	18.85427	13	52	27.98	-01	58	25.2	095
2582	1990	05	20.83745	13	51	09.02	-02	03	28.0	095
2584	1990	08	26.99832	00	41	47.71	+02	17	52.4	E 095
2584	1990	08	27.01220	00	41	47.44	+02	17	45.6	095
2584	1990	08	30.99852	00	39	56.04	+02	05	24.1	095
2584	1990	08	31.01241	00	39	55.50	+02	05	18.5	095
2584	1990	09	23.89652	00	20	47.84	+00	07	47.2	095
2584	1990	09	24.88156	00	19	49.88	+00	02	10.3	E 095
2584	1990	09	24.90267	00	19	48.73	+00	02	02.7	E 095
2584	1990	09	26.95123	00	17	47.67	-00	09	38.6	095
2584	1990	09	26.97195	00	17	46.31	-00	09	47.0	095
2584	1990	10	11.83965	00	03	54.18	-01	26	37.9	095
2584	1990	10	15.82212	00	00	44.61	-01	42	52.5	E 095
2584	1990	10	15.83601	00	00	43.83	-01	42	50.2	E 095
2584	1990	10	16.81667	00	00	00.76	-01	46	28.6	095
2584	1990	10	16.83681	23	59	59.59	-01	46	34.7	095
2591	1990	09	27.04833	02	17	00.69	+14	53	00.2	095
2591	1990	09	27.06221	02	17	00.31	+14	52	59.3	095
2602	1990	05	17.88218	15	55	48.62	-09	51	38.7	E 095
2602	1990	05	17.89676	15	55	47.44	-09	51	35.9	E 095
2606	1990	05	20.92566	16	21	37.98	-05	24	27.2	095
2606	1990	05	20.93954	16	21	37.19	-05	24	25.5	095
2606	1990	05	24.93534	16	18	21.79	-04	56	03.9	095
2606	1990	05	24.94922	16	18	21.35	-04	55	58.2	095
2618	1990	09	22.79170	22	56	00.15	+08	07	53.9	E 095
2618	1990	09	22.81254	22	55	59.21	+08	07	47.0	E 095
2634	1990	05	22.93251	16	23	09.51	-13	06	28.3	095
2634	1990	05	22.94675	16	23	09.12	-13	06	28.5	095
2635	1990	09	24.04164	01	31	07.43	+16	45	44.7	E 095
2635	1990	09	30.03461	01	26	06.77	+16	23	33.2	E 095
2635	1990	10	15.90614	01	10	35.32	+14	54	54.8	E 095
2635	1990	10	15.92003	01	10	34.50	+14	54	48.1	E 095
2646	1990	10	13.92907	02	20	30.54	+24	22	54.6	E 095
2646	1990	10	13.94018	02	20	29.97	+24	22	58.0	E 095
2646	1990	10	17.95892	02	17	03.69	+24	23	13.8	095
2646	1990	10	17.97976	02	17	02.61	+24	23	13.4	095
2647	1990	08	17.94271	23	22	40.75	+01	49	23.1	095
2647	1990	08	17.95660	23	22	40.24	+01	49	22.9	095
2647	1990	09	18.82558	22	54	18.98	+00	05	15.8	095
2647	1990	09	18.84606	22	54	17.77	+00	05	08.6	095
2647	1990	09	22.79170	22	50	43.45	-00	14	31.9	095
2647	1990	09	22.81254	22	50	42.41	-00	14	38.6	095
2647	1990	09	24.78819	22	49	01.46	-00	24	25.5	095
2647	1990	09	24.80894	22	49	00.30	-00	24	31.8	095
2647	1990	09	26.85738	22	47	20.71	-00	34	31.5	095
2647	1990	09	26.87822	22	47	19.73	-00	34	37.6	095
2648	1990	09	22.79170	23	15	26.69	+05	22	14.3	095
2648	1990	09	22.81254	23	15	25.52	+05	22	07.3	095
2648	1990	09	26.85738	23	11	45.78	+04	59	24.2	E 095
2648	1990	09	26.87822	23	11	44.87	+04	59	14.5	E 095
2657	1990	08	28.87221	22	28	47.88	-13	01	43.2	095
2657	1990	08	28.88610	22	28	47.13	-13	01	46.5	095
2661	1990	10	13.84158	01	31	26.51	+24	26	46.2	095

2661	1990 10	13.85547	01 31	25.74	+24 26	44.3	095
2661	1990 10	17.87213	01 27	52.15	+24 16	18.1	095
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2661	1990 11	14.79771	01 06	16.88	+22 11	48.4	095
2661	1990 11	14.81194	01 06	16.44	+22 11	45.0	095
2666	1990 08	26.84072	21 13	31.69	+01 27	23.8	095
2671	1990 10	17.03817	03 19	13.78	+18 40	29.2	E 095
2671	1990 10	17.05953	03 19	12.82	+18 40	25.6	E 095
2671	1990 10	23.97255	03 14	32.55	+18 17	34.2	E 095
2671	1990 11	14.88692	02 55	06.72	+16 40	25.8	095
2671	1990 11	14.90081	02 55	05.81	+16 40	21.0	095
2671	1990 11	21.85087	02 49	01.29	+16 08	15.0	E 095
2671	1990 11	21.87153	02 49	00.37	+16 08	06.7	E 095
2671	1990 11	23.83368	02 47	25.09	+15 59	29.5	E 095
2671	1990 11	23.84722	02 47	24.60	+15 59	30.4	E 095
2674	1990 10	17.03817	03 26	35.03	+17 03	26.3	095
2674	1990 10	17.05953	03 26	34.87	+17 03	23.8	095
2674	1990 10	28.99653	03 21	20.12	+16 40	52.3	095
2674	1990 10	29.00521	03 21	19.96	+16 40	49.4	095
2674	1990 11	15.91278	03 12	12.49	+16 02	36.3	095
2674	1990 11	15.92361	03 12	12.03	+16 02	32.9	095
2674	1990 11	23.84722	03 08	08.10	+15 45	44.9	095
2675	1990 11	14.97719	04 33	40.00	+26 16	54.2	095
2675	1990 11	14.99108	04 33	38.76	+26 16	51.3	095
2675	1990 11	20.86764	04 27	07.45	+26 12	36.5	E 095
2679	1990 09	24.04164	02 03	15.95	+14 15	01.5	E 095
2679	1990 09	27.04833	02 01	46.63	+13 56	59.2	095
2679	1990 09	27.06221	02 01	46.03	+13 56	56.4	095
2679	1990 09	30.03461	02 00	06.41	+13 37	50.4	E 095
2687	1990 04	19.91388	13 36	13.61	-02 47	23.5	095
2687	1990 04	19.92777	13 36	12.76	-02 47	22.5	095
2687	1990 04	28.87194	13 27	23.24	-02 36	09.0	E 095
2687	1990 04	28.88583	13 27	22.29	-02 36	11.5	E 095
2697	1990 11	20.86764	04 28	20.24	+24 06	20.8	095
2697	1990 11	20.88153	04 28	19.79	+24 06	18.0	095
2703	1990 11	15.91278	03 07	27.90	+17 54	37.0	095
2703	1990 11	21.85087	03 00	34.91	+17 44	25.3	095
2703	1990 11	21.87153	03 00	33.23	+17 44	30.1	095
2705	1990 11	14.97719	04 46	31.12	+29 16	41.9	E 095
2705	1990 11	14.99108	04 46	30.18	+29 16	42.0	E 095
2718	1990 09	24.04164	01 39	59.76	+09 18	13.9	095
2718	1990 09	30.03461	01 36	02.03	+08 57	21.0	095
2718	1990 10	15.90614	01 23	52.22	+07 52	41.8	095
2718	1990 10	15.92003	01 23	51.46	+07 52	37.8	095
2720	1990 11	15.91278	03 30	32.79	+13 21	56.9	095
2720	1990 11	15.92361	03 30	31.24	+13 21	55.4	095
2720	1990 11	21.85087	03 24	15.49	+13 09	11.2	E 095
2720	1990 11	21.87153	03 24	14.16	+13 09	10.8	E 095
2720	1990 11	23.83368	03 22	14.77	+13 05	37.4	E 095
2720	1990 11	23.84722	03 22	13.90	+13 05	38.1	E 095
2730	1990 08	26.99832	00 26	54.08	+00 57	38.6	E 095
2730	1990 08	27.01220	00 26	53.66	+00 57	38.8	E 095
2730	1990 08	30.99852	00 24	28.90	+00 51	00.2	E 095
2730	1990 08	31.01241	00 24	28.40	+00 50	58.7	E 095
2730	1990 09	23.89652	00 04	49.38	-00 15	02.0	E 095
2730	1990 09	26.95123	00 02	02.90	-00 24	41.0	095
2730	1990 09	26.97195	00 02	01.69	-00 24	44.2	095
2730	1990 10	11.83965	23 49	35.82	-01 05	31.5	095
2730	1990 10	14.82290	23 47	28.92	-01 11	36.6	095

2730	1990 10	14.85068	23 47	27.71	-01 11	41.5	095
2730	1990 10	15.82212	23 46	48.69	-01 13	28.9	095
2730	1990 10	15.83601	23 46	48.06	-01 13	30.3	095
2730	1990 10	17.77699	23 45	33.27	-01 16	45.6	E 095
2730	1990 10	17.79088	23 45	32.62	-01 16	49.7	E 095
2732	1990 03	01.82650	09 46	48.39	+14 20	56.5	E 095
2741	1990 04	19.83333	11 42	04.67	+12 41	01.0	095
2741	1990 04	19.84896	11 42	04.15	+12 41	04.9	095
2751	1990 03	25.87684	10 57	05.91	+04 03	56.4	095
2751	1990 03	25.89767	10 57	04.77	+04 04	04.4	095
2761	1990 10	23.97255	02 53	58.62	+17 28	00.2	095
2761	1990 11	14.88692	02 35	22.75	+16 26	32.4	095
2761	1990 11	14.90081	02 35	22.00	+16 26	31.3	095
2762	1990 08	26.99832	00 28	15.81	+09 15	58.1	E 095
2762	1990 08	27.01220	00 28	15.44	+09 15	56.0	E 095
2762	1990 08	30.99852	00 25	59.51	+09 13	00.3	095
2762	1990 08	31.01241	00 25	59.15	+09 12	59.6	095
2762	1990 09	15.88955	00 13	34.48	+08 33	04.3	095
2762	1990 09	15.90344	00 13	33.81	+08 33	03.8	095
2762	1990 09	23.89652	00 05	55.48	+07 57	50.6	E 095
2762	1990 10	15.82212	23 45	40.94	+05 56	51.2	095
2762	1990 10	15.83601	23 45	40.13	+05 56	44.8	095
2762	1990 10	17.77699	23 44	12.20	+05 46	05.1	E 095
2762	1990 10	17.79088	23 44	11.68	+05 46	01.3	E 095
2766	1990 03	21.77013	10 09	58.18	+08 25	48.9	095
2766	1990 03	21.79088	10 09	57.51	+08 25	50.5	095
2769	1990 10	23.97255	02 43	22.98	+12 27	11.0	E 095
2774	1990 02	25.81145	09 43	20.61	+05 34	26.7	095
2774	1990 02	25.82881	09 43	19.88	+05 34	26.7	095
2774	1990 03	17.80486	09 30	31.92	+06 30	34.6	E 095
2774	1990 03	17.82361	09 30	31.40	+06 30	37.8	E 095
2798	1990 08	29.93125	00 09	11.03	+08 03	11.2	E 095
2798	1990 08	29.94792	00 09	10.26	+08 03	05.5	E 095
2798	1990 09	22.88197	23 51	22.60	+05 37	21.9	E 095
2798	1990 09	22.89586	23 51	21.91	+05 37	14.0	E 095
2798	1990 10	17.77699	23 33	40.27	+02 21	11.8	095
2798	1990 10	17.79088	23 33	39.86	+02 21	06.2	095
2803	1990 08	30.99852	00 49	49.45	+04 38	37.8	E 095
2806	1990 05	17.88218	15 45	29.46	-16 24	45.0	095
2806	1990 05	17.89676	15 45	28.69	-16 24	41.2	095
2806	1990 05	23.87500	15 39	27.63	-16 08	15.4	095
2816	1990 05	16.90726	15 12	51.76	-09 40	00.5	095
2823	1990 09	24.04164	01 35	00.06	+15 37	42.8	095
2823	1990 09	30.03461	01 30	53.88	+15 12	45.8	095
2823	1990 10	15.90614	01 17	25.49	+13 36	23.9	095
2823	1990 10	15.92003	01 17	24.71	+13 36	18.8	095
2834	1990 02	25.81145	09 13	40.44	+05 23	23.5	E 095
2834	1990 02	25.82881	09 13	39.77	+05 23	28.3	E 095
2849	1990 10	16.04084	03 01	00.14	+15 56	19.1	095
2849	1990 10	16.05473	03 00	59.58	+15 56	18.8	095
2849	1990 10	23.97255	02 54	13.10	+15 48	40.8	095
2849	1990 11	14.88692	02 32	25.03	+15 13	05.3	095
2849	1990 11	14.90081	02 32	24.15	+15 13	05.3	095
2859	1990 03	25.87684	11 05	01.35	+07 06	43.4	E 095
2859	1990 03	25.89767	11 05	00.37	+07 06	51.1	E 095
2867	1990 05	16.90726	15 19	23.52	-17 49	56.2	E 095
2872	1990 08	26.99832	00 30	49.35	+07 19	03.3	095
2872	1990 08	27.01220	00 30	48.89	+07 18	59.3	095
2872	1990 08	30.99852	00 28	56.68	+07 09	07.7	095

2872	1990 08	31.01241	00 28	56.06	+07 09	07.1		095
2872	1990 09	15.90344	00 18	43.55	+06 07	10.6		095
2872	1990 09	23.89652	00 12	26.66	+05 25	01.0		095
2872	1990 10	11.83965	23 58	17.31	+03 40	13.0		095
2872	1990 10	15.82212	23 55	30.94	+03 17	45.0		095
2872	1990 10	15.83601	23 55	30.44	+03 17	39.4		095
2875	1990 08	30.99852	00 16	45.52	+05 55	20.7		095
2875	1990 08	31.01241	00 16	44.92	+05 55	20.9		095
2875	1990 09	15.88955	00 04	40.92	+05 26	51.0		095
2875	1990 09	15.90344	00 04	40.18	+05 26	53.4		095
2875	1990 09	23.89652	23 57	45.40	+05 03	59.7	E	095
2875	1990 10	15.82212	23 40	04.94	+03 52	55.2	E	095
2875	1990 10	15.83601	23 40	04.31	+03 52	53.0	E	095
2881	1990 04	17.82294	11 58	47.57	+03 18	56.6		095
2881	1990 04	17.84377	11 58	46.87	+03 19	00.5		095
2886	1990 08	30.99852	00 45	19.71	+02 39	01.7		095
2886	1990 08	31.01241	00 45	19.40	+02 39	00.1		095
2886	1990 09	23.89652	00 29	27.74	+00 39	42.1	E	095
2886	1990 09	24.88156	00 28	34.97	+00 33	41.2		095
2886	1990 09	24.90267	00 28	33.81	+00 33	33.3		095
2886	1990 10	11.83965	00 13	10.00	-01 07	39.0		095
2886	1990 10	15.82212	00 09	52.24	-01 27	57.2	N	095
2886	1990 10	15.83601	00 09	51.32	-01 28	02.3	N	095
2886	1990 10	16.81667	00 09	05.51	-01 32	37.1		095
2886	1990 10	16.83681	00 09	04.24	-01 32	44.8		095
2889	1990 05	22.93251	16 15	36.74	-15 31	32.1		095
2889	1990 05	22.94675	16 15	36.03	-15 31	28.7		095
2901	1990 10	16.04084	02 59	59.61	+14 32	59.7		095
2901	1990 10	16.05473	02 59	59.07	+14 32	56.6		095
2901	1990 10	23.97255	02 53	59.48	+14 11	40.6		095
2901	1990 11	14.90081	02 35	02.74	+13 05	34.9	E	095
2910	1990 11	21.04192	06 15	32.79	+26 15	35.0		095
2910	1990 11	21.05581	06 15	32.20	+26 15	36.4		095
2918	1990 05	17.88218	15 30	40.92	-15 46	35.9		095
2918	1990 05	17.89676	15 30	40.21	-15 46	36.1		095
2918	1990 05	23.86111	15 25	52.66	-15 30	10.6		095
2918	1990 05	23.87500	15 25	51.86	-15 30	09.0		095
2941	1990 11	21.04192	06 25	45.83	+28 44	35.2		095
2941	1990 11	21.05581	06 25	45.45	+28 44	39.7		095
2987	1990 11	15.91278	03 27	14.70	+17 21	41.0		095
2987	1990 11	15.92361	03 27	13.73	+17 21	37.5		095
2987	1990 11	21.85087	03 21	57.23	+17 01	29.6		095
2987	1990 11	21.87153	03 21	56.29	+17 01	25.2		095
2987	1990 11	23.83368	03 20	13.43	+16 54	51.8		095
2987	1990 11	23.84722	03 20	12.73	+16 54	48.8		095
2988	1990 05	20.92566	16 49	10.14	-07 27	42.1	E	095
2988	1990 05	20.93954	16 49	09.58	-07 27	42.0	E	095
2988	1990 05	24.94922	16 45	27.19	-07 41	52.7	E	095
2990	1990 08	28.87221	22 28	30.88	-08 14	59.8		095
2990	1990 08	28.88610	22 28	29.81	-08 15	09.6		095
2998	1990 08	30.99852	00 41	26.99	+02 37	15.1	M	095
2998	1990 08	31.01241	00 41	27.08	+02 37	08.2	M	095
2998	1990 09	23.89652	00 29	05.37	+00 06	15.0	E	095
2998	1990 09	24.88156	00 28	21.43	-00 01	12.0		095
2998	1990 09	24.90267	00 28	20.39	-00 01	22.4		095
2998	1990 10	11.83965	00 15	48.61	-01 58	53.1	E	095
2998	1990 10	16.81667	00 12	45.44	-02 25	48.8		095
2998	1990 10	16.83681	00 12	44.68	-02 25	56.3		095
3000	1990 11	15.99652	05 23	25.74	+19 30	06.5		095

3000	1990	11	16.01736	05	23	24.94	+19	30	00.7	095
3007	1990	11	15.91278	03	31	42.09	+15	16	05.3	095
3007	1990	11	15.92361	03	31	40.77	+15	16	04.6	095
3007	1990	11	21.85087	03	24	57.33	+15	16	56.7	E 095
3007	1990	11	21.87153	03	24	55.96	+15	16	53.2	E 095
3007	1990	11	23.83368	03	22	45.58	+15	17	31.2	E 095
3007	1990	11	23.84722	03	22	44.72	+15	17	28.7	E 095
3014	1990	09	24.97558	02	20	51.67	+12	24	44.1	E 095
3014	1990	09	24.99641	02	20	51.23	+12	24	39.4	E 095
3018	1990	10	13.92907	02	15	00.53	+16	19	38.4	E 095
3018	1990	10	13.94018	02	14	59.82	+16	19	37.4	E 095
3026	1990	02	25.81145	09	20	59.25	+01	47	47.8	095
3026	1990	02	25.82881	09	20	58.58	+01	47	54.6	095
3043	1990	09	18.91377	23	33	20.86	+01	33	21.9	095
3043	1990	09	18.93461	23	33	18.17	+01	33	43.1	095
3043	1990	09	22.88197	23	25	52.74	+02	25	55.9	095
3043	1990	09	22.89586	23	25	50.73	+02	26	10.3	095
3048	1990	10	15.90614	01	06	50.17	+07	59	09.2	E 095
3048	1990	10	15.92003	01	06	49.34	+07	59	05.4	E 095
3048	1990	10	23.90034	00	59	33.12	+07	06	17.1	E 095
3051	1990	08	26.84072	21	03	40.77	+02	32	39.8	095
3064	1990	11	15.92361	03	04	46.20	+12	36	18.4	095
3064	1990	11	21.85087	02	59	02.48	+12	11	43.0	095
3064	1990	11	21.87153	02	59	01.23	+12	11	40.4	095
3064	1990	11	23.83368	02	57	11.78	+12	04	09.1	095
3064	1990	11	23.84722	02	57	11.16	+12	04	07.6	095
3068	1990	03	17.89895	10	54	59.68	+14	21	04.0	E 095
3068	1990	03	17.90936	10	54	58.97	+14	21	04.2	E 095
3071	1990	03	17.89895	11	02	08.77	+08	10	44.1	E 095
3071	1990	03	17.90936	11	02	08.29	+08	10	47.3	E 095
3071	1990	03	25.87684	10	56	55.11	+08	46	05.7	095
3071	1990	03	25.89767	10	56	54.16	+08	46	10.7	095
3080	1990	10	17.03817	03	38	01.01	+16	54	03.6	095
3080	1990	10	17.05953	03	38	00.11	+16	54	07.0	095
3080	1990	10	28.99653	03	27	20.96	+17	47	30.6	095
3080	1990	10	29.00521	03	27	20.54	+17	47	31.2	095
3080	1990	11	15.91278	03	06	44.34	+18	53	07.5	095
3080	1990	11	15.92361	03	06	42.75	+18	53	10.9	095
3080	1990	11	21.85087	02	59	56.15	+19	11	13.6	E 095
3080	1990	11	21.87153	02	59	54.76	+19	11	19.5	E 095
3080	1990	11	23.83368	02	57	46.93	+19	17	03.5	E 095
3080	1990	11	23.84722	02	57	46.24	+19	17	03.9	E 095
3086	1990	08	26.84072	21	10	47.04	+02	32	40.0	095
3097	1990	08	26.99832	00	26	33.36	+06	52	59.1	095
3097	1990	08	27.01220	00	26	33.14	+06	52	57.1	095
3097	1990	08	30.99852	00	24	47.28	+06	35	16.3	095
3097	1990	08	31.01241	00	24	46.56	+06	35	11.9	095
3097	1990	09	23.89652	00	09	30.98	+04	05	41.5	095
3097	1990	10	11.83965	23	57	06.25	+01	55	36.4	095
3097	1990	10	15.82212	23	54	46.88	+01	28	59.6	095
3097	1990	10	15.83601	23	54	46.44	+01	28	52.8	095
3116	1990	03	17.89895	11	32	59.86	+12	21	05.8	E 095
3117	1990	08	30.03125	00	44	58.69	-00	23	11.4	095
3117	1990	09	24.88156	00	28	23.85	-02	29	34.6	095
3117	1990	09	24.90267	00	28	22.88	-02	29	40.9	095
3117	1990	10	16.81667	00	11	39.81	-04	06	42.7	095
3117	1990	10	16.83681	00	11	38.96	-04	06	47.6	095
3120	1990	09	27.04833	02	21	40.47	+18	47	46.8	095
3120	1990	09	27.06221	02	21	39.91	+18	47	42.3	095

3120	1990	10	13.92907	02	12	15.87	+16	56	18.2	095
3120	1990	10	13.94018	02	12	15.38	+16	56	19.1	095
3126	1990	10	16.04084	03	07	15.19	+14	07	39.0	095
3126	1990	10	16.05473	03	07	14.70	+14	07	37.2	095
3126	1990	10	23.97255	03	02	12.95	+13	14	16.5	095
3141	1990	08	26.91152	22	33	00.65	-04	51	11.2	E 095
3141	1990	08	26.92679	22	32	59.98	-04	51	15.7	E 095
3141	1990	08	30.91381	22	30	00.20	-04	59	04.8	E 095
3141	1990	08	30.92770	22	29	59.45	-04	59	05.0	E 095
3141	1990	09	15.80889	22	18	28.91	-05	32	18.1	095
3141	1990	09	23.82427	22	13	28.82	-05	47	32.2	095
3148	1990	09	27.04833	02	15	08.77	+14	01	50.6	095
3148	1990	09	27.06221	02	15	08.13	+14	01	49.6	095
3157	1990	10	16.04084	03	05	09.37	+16	49	53.0	095
3157	1990	10	16.05473	03	05	08.82	+16	49	51.5	095
3157	1990	10	23.97255	02	59	14.48	+16	46	11.8	095
3157	1990	11	14.88692	02	40	10.12	+16	21	34.6	095
3157	1990	11	14.90081	02	40	09.53	+16	21	35.1	095
3167	1990	03	17.89895	11	26	38.35	+16	28	48.6	095
3167	1990	03	17.90936	11	26	37.99	+16	28	50.6	095
3168	1990	10	13.92907	02	18	28.82	+16	30	28.1	095
3168	1990	10	13.94018	02	18	28.18	+16	30	26.9	095
3173	1990	05	18.84038	14	16	28.84	-04	42	00.4	E 095
3173	1990	05	18.85427	14	16	27.72	-04	42	04.5	E 095
3186	1990	11	14.97719	05	06	04.81	+21	42	51.8	095
3186	1990	11	14.99108	05	06	03.73	+21	42	54.9	095
3204	1990	11	21.04192	06	28	15.03	+21	51	52.0	095
3204	1990	11	21.05581	06	28	14.55	+21	51	55.5	095
3229	1990	08	29.84549	21	43	48.84	-04	54	20.8	E 095
3232	1990	09	22.96877	01	30	56.94	+08	28	47.6	095
3232	1990	09	22.98266	01	30	56.44	+08	28	41.8	095
3232	1990	09	24.04164	01	30	20.66	+08	21	42.1	E 095
3232	1990	09	29.96794	01	26	43.59	+07	40	01.7	E 095
3237	1990	11	21.04192	06	15	40.48	+27	06	38.9	095
3237	1990	11	21.05581	06	15	40.08	+27	06	37.6	095
3256	1990	09	21.88260	23	01	43.80	-05	09	27.2	095
3264	1990	03	01.82650	10	02	43.72	+12	21	19.9	095
3264	1990	03	17.80486	09	52	42.50	+13	19	27.5	095
3264	1990	03	17.82361	09	52	41.95	+13	19	32.1	095
3272	1990	09	22.96877	01	34	59.92	+02	38	57.9	095
3272	1990	09	22.98266	01	34	59.26	+02	38	52.8	095
3272	1990	09	29.96794	01	29	35.81	+01	59	32.7	E 095
3272	1990	10	23.90034	01	06	37.48	-00	09	19.0	E 095
3275	1990	09	22.96877	01	32	57.38	+02	03	46.4	095
3275	1990	09	22.98266	01	32	56.70	+02	03	44.9	095
3281	1990	10	13.92907	02	10	53.28	+20	05	10.3	095
3281	1990	10	13.94018	02	10	52.57	+20	05	10.5	095
3281	1990	10	17.95892	02	06	48.66	+19	54	54.6	095
3281	1990	10	17.97976	02	06	47.31	+19	54	53.8	095
3283	1990	08	28.95485	23	06	23.81	-09	44	26.8	095
3283	1990	08	28.97290	23	06	22.91	-09	44	28.0	095
3283	1990	10	13.75968	22	31	06.61	-09	40	50.9	E 095
3298	1990	08	29.93125	23	51	13.55	+04	05	13.3	095
3298	1990	08	29.94792	23	51	12.77	+04	05	10.1	095
3298	1990	09	18.91377	23	35	36.31	+02	53	48.3	095
3298	1990	09	18.93461	23	35	35.49	+02	53	42.3	095
3298	1990	09	22.88197	23	32	16.40	+02	33	52.0	095
3298	1990	10	17.77699	23	18	09.92	+00	42	31.8	095
3298	1990	10	17.79088	23	18	09.74	+00	42	28.5	095

3311	1990 08	29.93125	00 08	27.52	+00 29	30.7	095
3311	1990 08	29.94792	00 08	26.66	+00 29	24.4	095
3311	1990 09	18.91377	23 54	09.61	-01 10	18.0	095
3311	1990 09	18.93461	23 54	08.51	-01 10	22.9	095
3311	1990 09	22.88197	23 51	00.05	-01 32	00.2	095
3311	1990 09	22.89586	23 50	59.39	-01 32	04.7	095
3311	1990 09	26.95123	23 47	46.90	-01 53	54.4	E 095
3311	1990 09	26.97195	23 47	45.96	-01 54	00.9	E 095
3311	1990 10	14.82290	23 35	20.62	-03 17	58.6	095
3311	1990 10	14.85068	23 35	19.69	-03 18	07.4	095
3312	1990 11	15.99652	05 34	13.09	+14 32	31.8	095
3312	1990 11	16.01736	05 34	12.36	+14 32	23.7	095
3318	1990 03	25.97891	12 46	14.09	+13 34	47.1	095
3318	1990 03	25.99975	12 46	12.97	+13 34	55.2	095
3326	1990 10	16.04084	03 04	52.91	+20 34	31.3	E 095
3326	1990 10	16.05473	03 04	51.96	+20 34	27.1	E 095
3326	1990 10	23.97255	02 57	26.13	+20 17	26.5	E 095
3326	1990 11	14.88692	02 34	08.17	+18 58	52.6	095
3326	1990 11	14.90081	02 34	07.39	+18 58	50.0	095
3329	1990 08	28.95485	23 31	16.25	-10 53	13.4	095
3329	1990 08	28.97290	23 31	15.50	-10 53	15.9	095
3329	1990 09	21.88260	23 11	10.46	-11 49	00.2	095
3329	1990 10	11.77022	22 57	17.10	-11 54	32.4	095
3329	1990 10	13.75968	22 56	16.44	-11 52	19.6	095
3333	1990 05	16.90726	15 23	20.20	-17 32	16.8	E 095
3333	1990 05	17.88218	15 22	33.97	-17 24	43.8	095
3333	1990 05	17.89676	15 22	33.36	-17 24	39.7	095
3333	1990 05	23.86111	15 17	56.08	-16 38	23.8	P 095
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3334	1990 09	24.97558	02 29	15.54	+10 28	15.2	095
3334	1990 09	24.99641	02 29	14.91	+10 28	11.8	095
3337	1990 09	22.96877	01 37	34.06	+09 10	10.3	E 095
3337	1990 09	22.98266	01 37	33.81	+09 10	07.4	E 095
3337	1990 09	24.04164	01 36	57.21	+09 05	33.5	E 095
3337	1990 09	30.03461	01 33	09.49	+08 37	47.0	E 095
3337	1990 10	15.90614	01 21	02.89	+07 12	23.2	E 095
3337	1990 10	15.92003	01 21	02.20	+07 12	17.3	E 095
3358	1990 11	20.86764	04 34	30.44	+18 37	59.7	E 095
3358	1990 11	20.88153	04 34	29.88	+18 37	55.0	E 095
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3363	1990 09	22.98266	01 11	34.82	+06 42	15.5	095
3363	1990 09	29.96794	01 06	34.30	+06 03	19.6	095
3363	1990 10	23.90034	00 47	55.94	+03 41	40.0	095
3365	1990 05	16.83574	14 16	52.00	-06 18	28.0	E 095
3365	1990 05	18.84038	14 15	28.71	-06 07	28.7	E 095
3365	1990 05	18.85427	14 15	28.26	-06 07	25.1	E 095
3366	1990 08	29.93125	23 46	39.78	+01 30	57.9	095
3366	1990 08	29.94792	23 46	39.14	+01 30	50.4	095
3366	1990 09	18.91377	23 33	42.54	-01 06	06.2	095
3366	1990 09	18.93461	23 33	41.77	-01 06	15.8	095
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3366	1990 10	18.80208	23 17	40.25	-04 43	08.5	095
3366	1990 10	18.81493	23 17	39.84	-04 43	10.4	095
3367	1990 09	27.04833	01 48	38.22	+18 08	49.4	E 095
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3373	1990 03	25.87684	10 58	12.14	+06 07	39.8	095
3373	1990 03	25.89767	10 58	10.95	+06 07	53.1	095
3377	1990 09	24.04164	01 44	52.96	+11 27	53.6	095

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3377	1990 10	15.92003	01 29	20.27	+09 49	49.8		095
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3380	1990 09	22.98266	01 17	33.97	+02 59	17.0		095
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3380	1990 10	23.90034	00 53	37.60	+00 37	37.8		095
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3406	1990 10	17.97976	02 10	28.93	+23 44	27.1		095
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3418	1990 09	29.96794	01 05	15.09	+03 47	06.8		095
3418	1990 10	23.90034	00 47	51.12	+02 09	08.6		095
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3423	1990 11	14.99108	04 52	29.39	+23 09	48.4		095
3423	1990 11	20.86764	04 47	53.57	+23 02	43.0		095
3423	1990 11	20.88153	04 47	52.83	+23 02	40.8		095
3435	1990 04	19.91388	13 46	17.22	-02 19	35.3		095
3435	1990 04	19.92777	13 46	16.58	-02 19	30.4		095
3438	1990 09	26.95123	23 56	09.68	-01 27	58.6		095
3438	1990 09	26.97195	23 56	08.40	-01 27	53.4		095
3438	1990 10	11.83965	23 42	32.72	-00 57	22.6	E	095
3438	1990 10	14.82290	23 40	15.78	-00 49	41.8		095
3438	1990 10	14.85068	23 40	14.55	-00 49	39.3		095
3438	1990 10	17.77699	23 38	12.25	-00 41	31.1		095
3438	1990 10	17.79088	23 38	11.70	-00 41	25.4		095
3438	1990 10	18.80208	23 37	32.54	-00 38	32.4	E	095
3438	1990 10	18.81493	23 37	31.96	-00 38	26.2	E	095
3443	1990 09	18.82558	22 46	04.50	-00 01	41.7		095
3443	1990 09	18.84606	22 46	04.01	-00 02	04.8		095
3443	1990 09	22.79170	22 44	46.20	-01 09	51.3	E	095
3443	1990 09	22.81254	22 44	45.15	-01 10	08.1	E	095
3443	1990 09	24.78819	22 44	15.26	-01 42	41.0		095
3443	1990 09	24.80894	22 44	14.90	-01 43	02.0		095
3443	1990 09	26.85738	22 43	49.37	-02 15	35.0		095
3443	1990 09	26.87822	22 43	49.26	-02 15	55.7		095
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3457	1990 09	26.97195	23 57	51.98	-05 40	38.7		095
3465	1990 05	16.83574	13 44	35.92	-00 02	47.1		095
3479	1990 08	29.84549	21 44	09.08	+01 05	24.1		095
3504	1990 03	17.89895	11 05	00.34	+08 17	35.4	E	095
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3509	1990 08	26.84072	20 49	36.26	+04 51	29.3	E	095
3510	1990 10	23.82674	00 58	16.27	+16 07	04.8	E	095
3516	1990 05	23.86111	15 30	31.99	-15 33	45.3		095
3516	1990 05	23.87500	15 30	31.18	-15 33	41.1		095
3534	1990 08	29.84549	21 36	58.57	-02 03	34.2		095
3538	1990 09	21.88260	23 21	54.92	-04 31	57.5	16.5 M	095
3555	1990 10	13.92907	02 28	22.90	+16 10	14.6		095
3555	1990 10	13.94018	02 28	22.08	+16 10	15.0		095
3561	1990 03	17.89895	11 22	14.39	+14 38	50.9		095
3561	1990 03	17.90936	11 22	14.11	+14 38	52.6		095
3587	1990 09	22.98266	01 25	05.98	+04 28	58.1		095
3587	1990 09	29.96794	01 19	30.93	+04 12	42.4		095
3587	1990 10	23.90034	00 57	50.14	+03 16	17.6		095
3591	1990 11	15.91278	03 16	13.29	+18 50	21.6		095
3591	1990 11	15.92361	03 16	12.32	+18 50	19.5		095

3591	1990	11	21.85087	03	11	21.49	+18	32	40.7	095
3591	1990	11	21.87153	03	11	20.53	+18	32	34.7	095
3591	1990	11	23.83368	03	09	47.07	+18	26	50.6	095
3591	1990	11	23.84722	03	09	46.57	+18	26	46.8	095
3596	1990	03	17.89895	11	09	08.30	+11	00	14.9	095
3596	1990	03	17.90936	11	09	08.14	+11	00	14.8	095
3611	1990	10	14.97221	03	17	20.27	+03	27	22.3	E 095
3611	1990	10	14.99302	03	17	20.02	+03	27	08.2	E 095
3632	1990	10	16.04084	03	18	25.11	+14	49	56.9	095
3632	1990	10	16.05473	03	18	24.81	+14	49	50.8	095
3632	1990	10	17.03817	03	18	08.32	+14	43	02.8	E 095
3632	1990	10	17.05953	03	18	07.86	+14	42	51.1	E 095
3632	1990	10	23.97255	03	15	27.24	+13	51	54.4	E 095
3632	1990	10	28.99653	03	12	43.96	+13	11	29.2	095
3632	1990	10	29.00521	03	12	43.72	+13	11	21.6	095
3632	1990	11	15.91278	03	00	06.96	+10	41	58.1	E 095
3632	1990	11	15.92361	03	00	05.89	+10	41	49.3	E 095
3640	1990	03	01.82650	09	55	01.75	+06	41	24.9	095
3640	1990	03	17.80486	09	42	26.83	+07	40	46.8	095
3640	1990	03	17.82361	09	42	26.20	+07	40	49.6	095
3640	1990	03	25.76782	09	38	59.57	+08	01	57.5	095
3640	1990	03	25.79265	09	38	59.08	+08	02	00.6	095
3654	1990	09	22.96877	01	14	37.80	+08	52	18.4	E 095
3654	1990	09	22.98266	01	14	37.35	+08	52	12.3	E 095
3654	1990	09	29.96794	01	10	16.96	+08	11	30.3	E 095
3654	1990	10	23.90034	00	52	18.72	+05	25	07.6	095
3667	1990	09	27.04833	01	44	58.63	+20	57	10.6	095
3667	1990	09	27.06221	01	44	57.92	+20	57	19.4	095
3667	1990	10	13.84158	01	29	29.18	+21	56	11.3	095
3667	1990	10	13.85547	01	29	28.30	+21	56	12.7	095
3667	1990	10	17.87213	01	25	13.77	+22	03	26.2	095
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3667	1990	11	14.79771	00	59	02.50	+21	57	53.0	095
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3698	1990	05	24.84992	14	50	05.79	-09	30	48.9	095
3698	1990	05	24.86381	14	50	04.91	-09	30	51.9	095
3717	1990	11	15.91278	03	31	26.05	+16	16	25.7	095
3717	1990	11	15.92361	03	31	25.18	+16	16	24.2	095
3717	1990	11	23.83368	03	24	45.31	+15	55	58.4	E 095
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3736	1990	03	17.89895	11	02	37.33	+12	41	32.0	095
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3762	1990	10	16.04084	03	21	57.28	+16	19	52.2	E 095
3762	1990	10	16.05473	03	21	56.58	+16	19	54.0	E 095
3762	1990	10	23.97255	03	16	01.78	+15	49	13.2	E 095
3762	1990	10	28.99653	03	11	29.21	+15	27	04.3	095
3762	1990	10	29.00521	03	11	28.66	+15	27	00.4	095
3762	1990	11	14.90081	02	54	16.05	+14	06	55.1	E 095
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3762	1990	11	23.84722	02	45	45.97	+13	29	02.4	E 095
3763	1990	09	24.88156	00	20	36.76	-02	10	42.6	095
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3763	1990	10	11.83965	00	03	20.77	-03	06	31.4	E 095
3763	1990	10	14.82290	00	00	38.63	-03	13	19.1	095
3763	1990	10	14.85068	00	00	37.10	-03	13	25.5	095
3763	1990	10	16.81667	23	58	55.75	-03	17	12.5	095
3763	1990	10	16.83681	23	58	54.71	-03	17	16.2	095
3764	1990	09	22.96877	01	20	24.00	+01	59	59.8	095

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3773	1990 08	28.95485	23 21	55.06	-07 22	56.4		095
3773	1990 08	28.97290	23 21	54.38	-07 23	00.7		095
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3773	1990 10	13.75968	22 53	29.78	-09 36	43.6		095
3780	1990 09	24.88156	00 40	49.22	+01 10	43.1	E	095
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3780	1990 10	16.81667	00 24	16.72	-00 48	41.2		095
3780	1990 10	16.83681	00 24	15.81	-00 48	49.4		095
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3796	1990 10	13.92907	02 29	46.67	+23 02	27.1		095
3796	1990 10	13.94018	02 29	46.04	+23 02	33.4		095
3796	1990 10	17.95892	02 26	26.08	+22 46	26.3		095
3796	1990 10	17.97976	02 26	25.21	+22 46	19.9		095
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3811	1990 09	22.81254	23 09	50.97	-00 35	36.8		095
3811	1990 09	24.78819	23 07	57.77	-00 37	41.8	E	095
3811	1990 09	24.80894	23 07	56.51	-00 37	41.9	E	095
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3818	1990 08	26.99832	00 34	50.04	+07 29	01.4		095
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3818	1990 08	30.99852	00 33	09.01	+07 20	38.3		095
3818	1990 08	31.01241	00 33	08.53	+07 20	35.2		095
3818	1990 09	15.88955	00 22	24.13	+06 13	44.6		095
3818	1990 09	15.90344	00 22	23.37	+06 13	36.9		095
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3818	1990 10	15.83601	23 57	45.81	+03 01	39.5		095
3824	1990 09	24.04164	02 03	02.22	+16 46	01.2	E	095
3824	1990 09	27.04833	02 01	57.86	+16 50	15.4		095
3824	1990 09	27.06221	02 01	57.64	+16 50	19.1		095
3829	1990 08	30.91381	22 29	25.32	-03 13	46.7	E	095
3829	1990 08	30.92770	22 29	24.67	-03 13	47.2	E	095
3835	1990 08	26.99832	00 41	15.66	+04 08	12.9		095
3835	1990 08	27.01220	00 41	15.27	+04 08	08.8		095
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3835	1990 08	31.01241	00 40	26.81	+03 36	35.7		095
3835	1990 09	23.89652	00 28	35.53	-00 31	41.3	E	095
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3835	1990 10	16.81667	00 13	16.78	-04 44	49.0		095
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3841	1990 11	20.88153	04 38	20.46	+25 34	47.8		095
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3848	1990 05	16.90726	15 26	26.84	-13 49	44.9		095
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3852	1990 09	30.03461	01 37	43.08	+11 57	46.2	095
3852	1990 10	15.90614	01 26	22.14	+10 49	11.7	095
3852	1990 10	15.92003	01 26	21.56	+10 49	08.6	095
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3864	1990 10	13.92907	02 22	57.98	+14 44	27.5	E 095
3864	1990 10	13.94018	02 22	57.27	+14 44	29.5	E 095
3872	1990 10	16.93748	02 46	39.32	-01 58	58.4	095
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3881	1990 10	16.04084	03 26	10.75	+19 02	56.3	E 095
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3881	1990 10	17.05953	03 25	38.24	+19 03	20.9	095
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3881	1990 11	15.92361	02 59	09.97	+18 35	46.0	095
3881	1990 11	21.85087	02 53	14.50	+18 24	28.5	095
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3881	1990 11	23.83368	02 51	22.40	+18 20	45.1	095
3881	1990 11	23.84722	02 51	21.70	+18 20	43.0	095
3896	1990 05	17.88218	15 21	55.70	-18 07	34.8	E 095
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3903	1990 03	25.89767	10 56	56.21	+06 25	44.4	095
3914	1990 03	01.82650	09 50	39.34	+10 42	19.3	095
3914	1990 03	17.80486	09 39	16.67	+11 07	56.2	095
3914	1990 03	17.82361	09 39	15.92	+11 07	55.6	095
3940	1990 05	22.84432	14 49	44.45	+10 39	45.4	N 095
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4005	1990 05	20.83745	13 33	20.51	-02 55	14.7	N 095
4009	1990 09	22.96877	01 24	56.67	+06 01	12.1	095
4009	1990 09	22.98266	01 24	56.19	+06 01	08.2	095
4016	1990 10	23.97255	02 58	47.76	+15 42	58.6	095
4017	1990 09	22.96877	01 30	18.65	+07 43	39.6	095
4017	1990 09	22.98266	01 30	18.10	+07 43	34.4	095
4017	1990 09	29.96794	01 25	01.16	+07 21	28.0	095
4017	1990 10	15.90614	01 10	50.96	+06 20	45.6	E 095
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4017	1990 10	23.90034	01 03	48.22	+05 51	11.2	095
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4026	1990 04	19.92777	13 24	28.38	-03 21	01.7	095
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4036	1990 11	21.87153	03 25	51.89	+11 16	39.1	E	095
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4068	1990 02	25.81145	09 28	04.20	+02 46	00.9		095
4068	1990 02	25.82881	09 28	03.85	+02 46	06.2		095
4070	1990 08	26.91152	22 06	09.44	-03 27	56.0		095
4070	1990 08	26.92679	22 06	08.37	-03 28	02.3		095
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4070	1990 09	15.80889	21 50	06.18	-05 07	18.9	E	095
4070	1990 09	23.82427	21 46	19.10	-05 44	45.6		095
4072	1990 08	28.95485	23 23	48.69	-06 28	29.4		095
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4077	1990 04	19.83333	11 52	43.85	+16 32	02.3		095
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4078	1990 05	23.87500	15 13	33.60	-08 43	46.7	E	095
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4084	1990 04	17.92711	14 15	00.31	-09 16	30.9		095
4084	1990 05	20.83745	13 50	27.27	-07 35	07.0	N	095
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4089	1990 10	13.92907	02 14	28.01	+15 31	59.7	E	095
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4110	1990 08	29.93125	23 55	24.06	+00 46	27.1		095
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4110	1990 10	18.80208	23 23	16.37	-03 13	23.3		095
4110	1990 10	18.81493	23 23	15.84	-03 13	27.0		095
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4192	1990 11	14.99108	05 11	44.31	+22 33	28.7		095
4196	1990 09	22.96877	01 14	55.12	+06 58	46.1		095
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4196	1990 10	23.90034	00 56	11.42	+04 54	04.0		095
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4222	1990 08	29.94792	23 50	34.27	+03 54	31.7		095
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4222	1990 09	22.89586	23 32	22.62	+01 14	35.5		095
4222	1990 10	17.77699	23 15	35.36	-02 03	32.3	E	095
4222	1990 10	17.79088	23 15	34.76	-02 03	32.9	E	095
4222	1990 10	18.80208	23 15	14.85	-02 09	50.7		095
4222	1990 10	18.81493	23 15	14.65	-02 09	55.2		095
4250	1990 11	14.97719	04 52	54.23	+23 02	54.7		095
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4310	1990 05	24.84992	14 40	04.82	-10 04	33.2		095
4310	1990 05	24.86381	14 40	04.08	-10 04	27.1		095
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4409	1990 08	31.01241	00 16	47.44	+02 44	53.6		095
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4409	1990 10	11.83965	23 45	29.34	+00 45	28.7		095
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4512	1990 04	19.83333	11 41	41.52	+17 29	31.1		095
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4592	1990 08	28.95485	23 15	28.50	-05 33	22.3	16.0		095
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4598	1990 08	30.91381	22 18	51.91	-00 55	06.7			095
4598	1990 08	30.92770	22 18	51.49	-00 55	12.9			095
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4603	1990 09	22.88197	23 33	11.69	+04 24	35.1			095
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4603	1990 10	17.77699	23 13	05.53	+03 43	10.5		E	095
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4607	1990 09	23.89652	00 31	31.44	+07 19	34.2		E	095
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4613	1990 10	13.75968	22 44	30.77	-14 42	13.3	15.0	E	095
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4621	1990 10	18.80208	23 31	03.33	-02 29	27.3			095
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4622	1990 08	28.95485	23 11	37.63	-04 48	49.9			095
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4627	1990 08	28.87221	22 19	22.88	-14 36	18.4			095
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4634	1990 10	15.90614	01 37	05.13	+11 23	04.2			095
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4650	1990 09	23.82427	22 03	07.50	-06 03	44.4			095
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4657	1990 10	15.92003	01 11	32.96	+07 46	31.3			095
4657	1990 10	23.90034	01 05	34.38	+07 10	59.9		E	095
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4658	1990 09	23.89652	00 30	41.62	+02 13	34.0	16.0	E	095
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4658	1990 10	15.82212	00 15	28.02	+00 26	30.9	16.0	E	095
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4671	1990 09	27.04833	02 16	22.06	+18 23	23.6			095
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4679	1990 10	16.95831	02 51	37.03	+00 18	09.7	16.5	095
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4682	1990 08	30.99852	00 22	40.91	+06 35	40.4		095
4682	1990 08	31.01241	00 22	40.41	+06 35	38.8		095
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4682	1990 09	23.89652	00 04	14.75	+06 06	43.1		095
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4697	1990 08	26.99832	00 30	35.68	+06 39	18.2		095
4697	1990 08	27.01220	00 30	35.33	+06 39	17.1		095
4697	1990 08	30.99852	00 28	51.62	+06 31	59.7		095
4697	1990 08	31.01241	00 28	51.23	+06 31	54.2		095
4697	1990 09	15.88955	00 18	04.94	+05 31	31.3		095
4697	1990 09	15.90344	00 18	04.15	+05 31	24.0		095
4697	1990 09	23.89652	00 11	10.78	+04 46	41.2		095
4697	1990 10	11.83965	23 56	34.63	+02 59	35.2		095
4697	1990 10	15.82212	23 54	03.00	+02 38	29.7		095
4697	1990 10	15.83601	23 54	02.38	+02 38	26.9		095
4709	1990 11	14.97719	05 00	35.25	+23 16	49.7		095
4709	1990 11	14.99108	05 00	34.72	+23 16	48.1		095
4709	1990 11	20.86764	04 57	25.26	+22 56	33.1		095
4709	1990 11	20.88153	04 57	24.56	+22 56	28.6		095
4712	1990 11	20.95581	04 50	30.07	+39 36	12.9		095
4712	1990 11	20.96970	04 50	29.57	+39 36	11.4		095
4729	1990 09	24.04164	01 29	10.62	+13 44	56.7		E 095
4729	1990 09	30.03461	01 25	25.32	+13 22	06.4		E 095
4729	1990 10	15.90614	01 12	27.06	+11 48	41.1		095
4729	1990 10	15.92003	01 12	26.32	+11 48	35.2		095
4737	1990 11	15.91278	03 10	29.91	+10 22	52.6		095
4737	1990 11	15.92361	03 10	28.88	+10 22	48.8		095
4741	1990 08	28.95485	23 26	15.63	-06 23	03.9	16.0	095
4741	1990 08	28.97290	23 26	14.97	-06 23	07.2	16.0	095
4741	1990 09	21.88260	23 09	19.36	-08 05	52.8	15.5	095
4741	1990 10	11.77022	22 58	52.91	-08 55	58.3	15.5	095
4741	1990 10	13.75968	22 58	16.41	-08 57	54.0	15.5	095
4758	1990 11	20.86764	04 34	35.72	+22 13	40.4		095
4758	1990 11	20.88153	04 34	35.09	+22 13	37.7		095
4763	1990 11	20.95581	04 26	31.07	+39 24	32.9		095
4763	1990 11	20.96970	04 26	30.15	+39 24	31.8		095
4775	1990 08	24.98906	23 26	30.38	-03 54	08.0	15.0	N 095
4795	1990 08	28.95485	23 23	13.88	-09 01	15.7		095
4795	1990 08	28.97290	23 23	13.10	-09 01	33.8		095
4795	1990 09	21.88260	23 01	50.91	-12 18	00.4		E 095
4796	1990 11	21.04192	06 15	41.68	+25 30	14.8	16.5	095
4796	1990 11	21.05581	06 15	40.90	+25 30	15.4	16.5	095
4812	1990 10	23.90034	00 44	30.37	+07 46	47.8		E 095
4843	1990 03	17.80486	09 36	21.39	+11 30	27.6	16.5	095
4843	1990 03	17.82361	09 36	20.70	+11 30	27.5	16.5	095
4848	1990 09	22.96877	01 34	08.07	+00 55	41.5	17.0	095

4848	1990 09	22.98266	01 34	07.67	+00 55	38.6	17.0	095
4873	1990 03	17.89895	11 15	56.13	+11 28	29.9	16.5	095
4873	1990 03	17.90936	11 15	55.68	+11 28	33.5	16.5	095
4909	1990 08	24.88595	22 46	14.63	-11 52	09.2	15.5	095
4909	1990 08	24.90018	22 46	14.19	-11 52	18.5	15.5	095
4909	1990 08	28.87221	22 43	38.44	-12 18	36.2	15.5	E 095
4909	1990 08	28.88610	22 43	37.63	-12 18	43.2	15.5	E 095
4909	1990 09	21.78296	22 29	20.35	-14 17	31.6	16.0	E 095
4967	1990 05	20.92566	16 33	46.40	-00 14	58.8	16.0	E 095
4967	1990 05	20.93954	16 33	45.77	-00 14	56.9	16.0	E 095
4967	1990 05	24.93534	16 30	41.54	-00 12	24.6	16.2	E 095
4967	1990 05	24.94922	16 30	41.00	-00 12	26.9	16.2	E 095
4975	1990 08	26.99832	00 23	59.45	+04 40	49.0	16.8	095
4975	1990 08	27.01220	00 23	59.30	+04 40	38.7	16.8	095
4975	1990 08	30.99852	00 22	51.47	+04 09	32.6	16.2	095
4975	1990 08	31.01241	00 22	51.06	+04 09	27.3	16.2	095
4975	1990 09	15.88955	00 15	33.16	+01 36	04.6	16.2	E 095
4975	1990 09	15.90344	00 15	32.51	+01 36	01.4	16.2	E 095
4975	1990 09	23.89652	00 10	41.22	+00 07	01.8	16.0	095
4975	1990 09	26.95123	00 08	45.09	-00 27	42.8	14.8	095
4975	1990 09	26.97195	00 08	44.34	-00 27	55.3	14.8	095

323 Perth

M. P. Candy, Perth Observatory, Bickley, WA 6076, Australia
 Observers G. Lowe, T. Smith

0.3-m astrograph

1991 EE	1991 09	04.50521	16 32	15.05	+09 33	12.8		323
1991 EE	1991 09	05.47917	17 04	19.14	+07 06	00.0		323
1991 EE	1991 09	09.50000	19 32	58.25	-05 26	33.8		323
1991 EE	1991 09	10.50000	20 05	22.58	-08 01	07.1		323

364 JCPM Kagoshima Station

M. Takeishi, Odori 4, Hamatonbetsu Esashigun, Hokkaido 098-57, Japan

Observer M. Mukai

Measurer M. Takeishi

0.25-m f/4.2 Wright-Schmidt telescope

1990 VG13*	1990 11	12.57917	03 53	00.78	+15 57	39.4	17	364
1990 VG13	1990 11	12.60069	03 54	59.49	+15 57	31.7		364
1990 WX11*	1990 11	17.63889	02 29	44.32	+13 00	35.4	17	364
1990 WX11	1990 11	17.65625	02 29	43.64	+13 00	31.9		364
1990 WA12*	1990 11	21.54583	02 52	40.76	+14 59	55.0	17	364
1990 WA12	1990 11	21.56319	02 52	39.83	+14 59	50.6		364

366 Miyasaka Observatory

S. Miyasaka, 3-8-501, 4 Chome, Nagayama, Tama, Tokyo 206, Japan

Observer S. Miyasaka

0.25-m reflector

PPM

Long. and Parallax 138.30, -346, -248 (see MPC 16637)

1986 RD1	1991 10	13.64775	01 49	31.61	+25 36	17.5		366
1986 RD1	1991 10	13.67100	01 49	30.37	+25 36	15.1		366

367 Yatsuka

S. Miyasaka, 3-8-501, 4 Chome, Nagayama, Tama, Tokyo 206, Japan

Observer H. Abe

Measurer S. Miyasaka

0.26-m reflector

Long. and Parallax 133.17, -347, -246 (see MPC 16637)

1979 QK4	1991 10	02.56047	00 37	54.73	+03 57	34.9	367
1979 QK4	1991 10	02.58542	00 37	53.49	+03 57	25.4	367
996	1991 10	02.56047	00 41	16.19	+04 50	25.8	367
996	1991 10	02.58542	00 41	15.02	+04 50	19.1	367
1878	1991 10	02.56047	00 42	05.75	+04 22	55.9	367
1878	1991 10	02.58542	00 42	04.56	+04 22	48.2	367
4896	1991 09	10.54931	23 57	18.07	+27 44	38.1	367
4896	1991 09	10.57014	23 57	17.21	+27 44	37.9	367

372 Geisei

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

0.60-m reflector

1937 NN	1987 10	01.63924	23 23	19.34	+06 17	34.7	17.5	372
1937 NN	1987 10	01.65660	23 23	18.38	+06 17	28.8		372
1990 OU5 *	1990 07	20.67743	21 24	26.11	-15 32	17.4	18	372
1990 OU5	1990 07	20.68785	21 24	25.70	-15 32	15.5		372
1990 QM17*	1990 08	20.60729	21 20	00.53	-16 24	14.4	18.5	372
1990 QM17	1990 08	20.62049	21 20	00.13	-16 24	17.5		372
1990 QO17*	1990 08	27.73646	23 30	51.66	-02 18	52.8	18.5	372
1990 QP17*	1990 08	31.67656	22 33	28.40	-07 14	49.4	18	372
1990 QP17	1990 08	31.68819	22 33	27.97	-07 14	50.3		372
1990 SW25*	1990 09	20.55799	22 19	01.64	-10 56	39.5	18.5	372
1990 SW25	1990 09	20.56771	22 19	01.10	-10 56	42.1		372
1990 SX25*	1990 09	21.65417	01 16	51.52	+09 44	10.7	17.5	372
1990 SX25	1990 09	21.66528	01 16	51.31	+09 44	10.2		372
1990 SY25*	1990 09	21.67639	00 37	42.55	+04 38	35.3	18	372
1990 SY25	1990 09	21.68681	00 37	42.03	+04 38	33.7		372
1990 SZ25*	1990 09	21.67639	00 38	45.09	+04 30	26.7	18	372
1990 SZ25	1990 09	21.68681	00 38	44.39	+04 30	26.1		372
1990 SB26*	1990 09	26.68611	00 45	18.40	+06 20	55.9	19	372
1990 SB26	1990 09	26.69514	00 45	18.18	+06 20	48.1		372
1990 SC26*	1990 09	26.76111	01 55	47.10	+12 40	02.3	18.5	372
1990 SC26	1990 09	26.77222	01 55	47.40	+12 39	59.3		372
1990 TB15*	1990 10	15.64583	00 36	03.93	+03 31	38.9	17	372
1990 TB15	1990 10	15.65556	00 36	03.16	+03 31	37.9		372
1990 TC15*	1990 10	15.66771	00 33	06.74	+02 47	32.5	18	372
1990 TC15	1990 10	15.67771	00 33	06.33	+02 47	32.0		372
1990 UL10*	1990 10	17.58924	00 17	13.91	+11 16	21.0	17.5	372
1990 UL10	1990 10	17.60069	00 17	13.55	+11 16	24.1		372
1990 UM10*	1990 10	17.58924	00 18	49.11	+11 09	50.0	18	372
1990 UM10	1990 10	17.60069	00 18	48.29	+11 09	43.4		372
1990 UU10*	1990 10	23.67847	02 42	26.67	+12 31	34.1	18.5	372
1990 UU10	1990 10	23.70069	02 42	25.03	+12 31	31.6		372
1990 UA11*	1990 10	26.69896	00 59	47.10	+12 29	11.2	18	372
1990 UA11	1990 10	26.71181	00 59	46.95	+12 29	15.6		372
1990 UB11*	1990 10	27.61771	01 10	59.35	-08 58	21.9	17	372
1990 UB11	1990 10	27.62882	01 10	58.81	-08 58	20.9		372
1990 UF11*	1990 10	28.67326	22 34	16.35	-08 19	07.2	17	372
1990 UF11	1990 10	28.68576	22 34	16.24	-08 19	05.0		372
1990 VE12	1990 11	14.59340	04 07	26.67	+12 11	31.9	17	372
1990 VE12	1990 11	14.60486	04 07	25.89	+12 11	29.4		372
1990 VV12*	1990 11	10.58958	01 04	31.85	-04 28	46.2	18	372
1990 VV12	1990 11	10.60139	01 04	31.55	-04 28	45.7		372
1990 VW12*	1990 11	10.63722	02 12	08.59	-13 31	12.3	17	372
1990 VW12	1990 11	10.64687	02 12	08.07	-13 31	11.9		372
1990 VZ12*	1990 11	10.65666	02 16	34.49	-11 22	11.3	17.5	372
1990 VZ12	1990 11	10.66701	02 16	34.23	-11 22	11.5		372
1990 VC13*	1990 11	11.55583	01 50	15.15	+11 39	29.3	18	372
1990 VC13	1990 11	11.56500	01 50	14.90	+11 39	25.9		372

1990	VJ13*	1990	11	14.62823	01	06	21.76	-04	18	28.2	18	372
1990	VJ13	1990	11	14.63993	01	06	21.47	-04	18	34.7		372
1990	VK13*	1990	11	14.65035	02	23	17.47	+11	02	52.9	17.5	372
1990	VK13	1990	11	14.66042	02	23	17.14	+11	02	57.1		372
1990	VL13*	1990	11	14.65035	02	24	00.02	+10	34	39.9	18.5	372
1990	VL13	1990	11	14.66042	02	23	59.62	+10	34	42.1		372
1990	VM13*	1990	11	14.71840	03	14	17.42	+16	03	18.2	19	372
1990	VM13	1990	11	14.72865	03	14	16.72	+16	03	15.8		372
1990	VN13*	1990	11	14.73993	04	08	01.82	+10	44	07.4	18	372
1990	VN13	1990	11	14.75035	04	08	01.16	+10	44	09.4		372
1990	WB12*	1990	11	21.63889	03	07	54.67	+15	12	12.6	18	372
1990	WB12	1990	11	21.65104	03	07	54.12	+15	12	09.7		372
1990	WC12*	1990	11	21.63889	03	12	04.57	+15	22	23.6	18	372
1990	WC12	1990	11	21.65104	03	12	04.06	+15	22	21.2		372
1990	WN12*	1990	11	23.64080	02	39	08.82	+14	43	40.0	18	372
1990	WN12	1990	11	23.65243	02	39	08.30	+14	43	37.8		372
1990	WO12*	1990	11	23.66493	02	51	23.60	+11	55	29.4	16	372
1990	WO12	1990	11	23.67882	02	51	23.00	+11	55	26.8		372
1990	WP12*	1990	11	23.69167	03	31	19.89	+14	19	13.5	18	372
1990	WP12	1990	11	23.70347	03	31	19.09	+14	19	17.8		372
1990	WQ12*	1990	11	23.69167	03	32	42.11	+13	30	20.5	17	372
1990	WQ12	1990	11	23.70347	03	32	41.49	+13	30	14.5		372
1990	WR12*	1990	11	23.69167	03	33	41.24	+13	28	35.0	17	372
1990	WR12	1990	11	23.70347	03	33	40.77	+13	28	32.8		372
1990	WS12*	1990	11	23.69167	03	33	52.28	+14	10	09.5	18	372
1990	WS12	1990	11	23.70347	03	33	51.48	+14	10	08.4		372
1990	WT12*	1990	11	23.69167	03	34	29.30	+13	35	20.7	18	372
1990	WT12	1990	11	23.70347	03	34	28.54	+13	35	19.1		372
1990	WU12*	1990	11	23.69167	03	34	39.16	+14	16	03.2	17	372
1990	WU12	1990	11	23.70347	03	34	38.65	+14	15	56.1		372
1990	WV12*	1990	11	23.69167	03	35	11.72	+13	37	03.1	17.5	372
1990	WV12	1990	11	23.70347	03	35	11.20	+13	36	59.1		372
1990	WW12*	1990	11	23.71562	02	28	52.82	+21	10	41.5	18	372
1990	WW12	1990	11	23.72708	02	28	52.17	+21	10	38.2	18	372
1990	WX12*	1990	11	23.71562	02	29	12.43	+20	53	07.3	17.5	372
1990	WX12	1990	11	23.72708	02	29	11.96	+20	53	07.4	17.5	372
1990	XX1 *	1990	12	06.43090	00	41	06.66	+04	46	36.0	16.5	372
1990	XX1	1990	12	06.44514	00	41	07.23	+04	46	40.5		372
1990	XY1 *	1990	12	10.52153	02	14	50.03	+11	18	56.6	18	372
1990	XY1	1990	12	10.53750	02	14	49.43	+11	19	03.5		372
1990	XZ1 *	1990	12	10.55139	03	18	33.16	+14	53	51.2	18	372
1990	XZ1	1990	12	10.56528	03	18	32.62	+14	53	49.6		372
1990	XA2 *	1990	12	10.55139	03	20	10.95	+14	25	58.5	18	372
1990	XA2	1990	12	10.56528	03	20	10.23	+14	25	54.1		372
1990	XB2 *	1990	12	10.55139	03	21	10.85	+13	57	45.5	18	372
1990	XB2	1990	12	10.56528	03	21	10.49	+13	57	40.6		372
1990	XC2 *	1990	12	10.60729	03	24	25.58	+14	47	41.3	18	372
1990	XC2	1990	12	10.61979	03	24	25.29	+14	47	40.5		372
1990	XD2 *	1990	12	12.70521	03	58	53.73	+15	51	52.4	18	372
1990	XD2	1990	12	12.71528	03	58	53.30	+15	51	55.5		372
1990	YM1 *	1990	12	24.58958	07	05	30.90	+32	02	33.8	18	372
1990	YM1	1990	12	24.60139	07	05	30.18	+32	02	28.7		372
1990	YN1 *	1990	12	27.73299	09	15	40.27	+18	20	18.2	18	372
1990	YN1	1990	12	27.74566	09	15	40.09	+18	20	10.4		372
1991	TZ *	1991	10	01.65174	02	15	49.11	+04	48	18.2	17	372
1991	TZ	1991	10	01.66354	02	15	48.44	+04	48	15.6		372
1991	TZ	1991	10	02.69913	02	15	02.14	+04	42	35.2	17	372
435		1991	10	12.77640	08	57	01.39	+18	59	40.2	16	372
435		1991	10	13.79723	08	58	21.27	+18	54	43.0	16	372

630	1991 10 20.79514	09 17 30.88	+17 38 49.1	17.5	372
1777	1991 10 20.79514	09 16 33.39	+17 50 06.1	17.5	372
3737	1991 10 17.78403	08 58 52.42	+18 26 26.1	18	372

374 Minami-Oda

T. Nomura, 1-1-8, Yamate, Tarumi-Ku, Kobe 655, Japan

Observers M. Sugano

Measurer T. Nomura

0.25-m f/3.4 Schmidt camera

AGK3, SAOC

1990 SX2	1990 09 21.69948	01 09 49.19	+00 32 04.1	15.5	374
1990 SX2	1990 09 21.72031	01 09 47.87	+00 31 59.2	15.5	374
1990 SG3	1990 09 21.69948	01 15 15.45	+00 32 25.2	16.0	374
1990 SG3	1990 09 21.72031	01 15 13.75	+00 32 11.7	16.0	374
1990 VB13*	1990 11 11.53611	03 27 33.37	+23 22 05.7	16.0	374
1990 VB13	1990 11 11.58681	03 27 29.99	+23 21 53.8	16.0	374
2780 P-L	1991 04 16.59574	14 08 45.47	-05 18 47.6	16.0V	374
2780 P-L	1991 04 16.61657	14 08 44.36	-05 18 40.9		374

376 Uenohara

N. Kawasato, 3-51, Hana-Koganei, Kodaira, Tokyo 187, Japan

GSC

1988 EB	1991 10 15.59132	02 20 05.52	+12 55 16.1		376
1991 TW	1991 10 15.55727	01 03 47.33	+15 34 46.2	16.5	376
1991 TW	1991 10 15.57743	01 03 46.03	+15 34 43.2		376
2090	1991 10 15.50035	00 51 13.33	+18 20 45.4		376
2090	1991 10 15.52049	00 51 12.30	+18 20 43.6		376

385 Nihondaira Observatory Oohira station

T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan

0.30-m f/3.8 hyperboloid astrocamera

GSC

1976 UD4	1991 09 28.45972	00 09 39.6	-00 07 23	16	p 385
1976 UD4	1991 09 28.47222	00 09 39.07	-00 07 25.2		385
1987 UJ	1991 09 28.49722	00 38 45.90	+06 50 22.4	16.5	385
1990 UN10*	1990 10 18.57315	02 18 49.46	+05 13 07.3	17.5	V 385
1990 UN10	1990 10 18.59787	02 18 48.57	+05 13 11.8		V 385
1990 UY10*	1990 10 26.59167	02 13 22.7	+05 17 19	17	F 385
1990 UY10	1990 10 26.61603	02 13 21.4	+05 17 22		F 385
1990 UZ10*	1990 10 26.60417	02 11 17.86	-02 13 10.0	17.5	F 385
1990 UZ10	1990 10 26.62847	02 11 16.59	-02 13 11.9		F 385
1990 VX12*	1990 11 10.63750	02 25 15.54	+05 34 37.5	17	385
1990 VX12	1990 11 10.66250	02 25 14.1	+05 34 19		V 385
1990 WE12*	1990 11 22.48125	01 51 47.95	+01 08 36.2	17.5	385
1990 WE12	1990 11 22.51181	01 51 47.17	+01 08 34.7		385
1990 WF12*	1990 11 22.48125	01 52 59.41	+01 38 35.7	16.5	385
1990 WF12	1990 11 22.51181	01 52 58.58	+01 38 32.8		385
1990 WG12*	1990 11 22.48125	01 55 00.65	+01 59 27.6	16	385
1990 WG12	1990 11 22.51181	01 55 00.79	+01 59 26.6		385
1990 WH12*	1990 11 22.48125	01 56 21.63	+01 11 50.9	16.5	385
1990 WH12	1990 11 22.51181	01 56 20.37	+01 12 01.1		385
1990 WK12*	1990 11 22.52708	02 06 39.16	+08 09 18.2	17	385
1990 WK12	1990 11 22.55764	02 06 37.92	+08 09 28.1		385
1990 WL12*	1990 11 22.54236	02 08 06.0	+07 07 52	16.5	p 385
1990 WL12	1990 11 22.57292	02 08 04.6	+07 07 51		p 385
1991 AB	1991 02 17.49583	07 53 52.3	+21 00 21	17	385
1991 AB	1991 02 17.51250	07 53 51.8	+21 00 31		385
1991 TP1	1991 09 28.48472	00 55 57.39	+11 57 58.7	16.3	385

399 Kushiro

H. Kaneda, Taiyo MS 2-H, 2 chome 2-15, kawazoe 8 jo, Minami-ku,
Sapporo 005, Japan

Observer S. Ueda

Measurer H. Kaneda

0.25-m f/3.4 reflector

AGK3, ACRS, GSC

1987 UW1	1991 09	15.59225	23 46	09.11	+11 40	44.2	16	399
1987 UW1	1991 09	30.42361	23 34	48.90	+09 42	01.0	16	399
1987 UW1	1991 10	18.66076	23 24	30.59	+06 56	40.5	16.5	399
1987 UW1	1991 10	18.67465	23 24	30.27	+06 56	30.6		399
1990 UP10*	1990 10	22.46181	00 16	58.03	-01 50	17.0	16	399
1990 UP10	1990 10	22.47986	00 16	57.01	-01 50	13.0		399
1990 UP10	1990 10	22.49618	00 16	56.29	-01 50	10.5		399
1990 UQ10*	1990 10	22.46181	00 23	58.97	-03 28	55.6	16	399
1990 UQ10	1990 10	22.47986	00 23	58.41	-03 28	44.1		399
1990 UQ10	1990 10	22.49618	00 23	57.75	-03 28	31.7		399
1990 UT10*	1990 10	22.51840	01 36	30.96	+07 56	55.0	16.5	399
1990 UT10	1990 10	22.53970	01 36	29.85	+07 56	51.8		399
1990 UT10	1990 10	22.55660	01 36	29.10	+07 56	45.4		399
1990 UC11*	1990 10	27.64855	02 08	31.23	+13 10	04.0	16.5	399
1990 UC11	1990 10	27.66383	02 08	30.12	+13 10	05.3		399
1990 UD11*	1990 10	27.64855	02 09	51.27	+14 10	43.8	16.5	399
1990 UD11	1990 10	27.66383	02 09	50.61	+14 10	36.3		399
1990 VH13*	1990 11	12.62396	04 39	06.99	+31 28	36.0	16.5	399
1990 VH13	1990 11	12.64340	04 39	05.76	+31 28	40.3		399
1990 VH13	1990 11	12.66146	04 39	04.35	+31 28	42.3		399
1990 WY11*	1990 11	19.49583	03 49	33.10	+28 13	25.7	17	399
1990 WY11	1990 11	19.51076	03 49	32.28	+28 13	26.7		399
1990 WZ11*	1990 11	21.54444	04 28	08.26	+32 19	19.9	16.5	399
1990 WZ11	1990 11	21.56007	04 28	06.97	+32 19	10.0		399
1991 RR1	1991 09	30.42361	23 37	33.82	+09 46	35.2	16	399
1991 RR1	1991 10	18.66076	23 28	04.84	+07 21	52.3	17	399
1991 RR1	1991 10	18.67465	23 28	04.44	+07 21	47.1		399
1991 RP4	1991 09	15.59225	23 45	09.48	+12 06	02.7	16.5	399
1991 RQ7	1991 09	30.42361	23 27	53.72	+11 50	14.7	16.5	399
1991 RQ7	1991 10	18.66076	23 17	33.21	+10 33	54.4	17	399
1991 RQ7	1991 10	18.67465	23 17	32.97	+10 33	49.4		399
1991 UA *	1991 10	18.69661	01 43	52.02	+12 56	46.6	16.5	399
1991 UA	1991 10	18.71215	01 43	51.35	+12 56	43.1		399
1991 UA	1991 10	19.70833	01 43	10.04	+12 53	35.2	16.5	399
1991 UA	1991 10	19.72396	01 43	09.33	+12 53	31.9		399
1991 UB *	1991 10	18.69661	01 43	53.30	+14 57	12.2	17	399
1991 UB	1991 10	18.71215	01 43	52.30	+14 57	13.1		399
1991 UB	1991 10	19.70833	01 42	49.53	+14 57	33.4	17	399
1991 UB	1991 10	19.72396	01 42	48.76	+14 57	33.8		399
1991 UC *	1991 10	18.69661	01 45	07.39	+12 34	49.8	17	399
1991 UC	1991 10	18.71215	01 45	06.59	+12 34	43.6		399
1991 UC	1991 10	19.70833	01 44	16.79	+12 30	15.5	17	399
1991 UC	1991 10	19.72396	01 44	15.77	+12 30	11.3		399
1991 UD *	1991 10	18.69661	01 45	13.31	+13 15	02.4	17	399
1991 UD	1991 10	18.71215	01 45	12.53	+13 14	53.5		399
1991 UD	1991 10	19.70833	01 44	19.51	+13 06	31.1	17	399
1991 UD	1991 10	19.72396	01 44	18.37	+13 06	22.8		399
1991 UE *	1991 10	18.69661	01 45	13.58	+14 46	03.6	17	399
1991 UE	1991 10	18.71215	01 45	12.60	+14 45	57.8		399
1991 UE	1991 10	19.70833	01 44	11.14	+14 41	45.8	17	399
1991 UE	1991 10	19.72396	01 44	10.25	+14 41	41.0		399
1991 UF *	1991 10	18.69661	01 45	32.26	+15 48	47.6	16.5	399

1991 UF		1991 10	18.71215	01 45	31.36	+15 48	42.6		399
1991 UF		1991 10	19.70833	01 44	35.33	+15 42	57.3	16.5	399
1991 UF		1991 10	19.72396	01 44	34.32	+15 42	51.5		399
1991 UG	*	1991 10	18.69661	01 46	01.97	+14 09	36.3	16.5	399
1991 UG		1991 10	18.71215	01 46	01.24	+14 09	32.1		399
1991 UG		1991 10	19.70833	01 45	07.36	+14 07	47.2	16.5	399
1991 UG		1991 10	19.72396	01 45	06.52	+14 07	45.3		399
1991 UH	*	1991 10	18.69661	01 46	10.14	+12 24	00.1	16.5	399
1991 UH		1991 10	18.71215	01 46	09.14	+12 23	58.4		399
1991 UH		1991 10	19.70833	01 45	07.48	+12 20	26.9	16.5	399
1991 UH		1991 10	19.72396	01 45	06.29	+12 20	22.8		399
1991 UJ	*	1991 10	18.69661	01 47	44.36	+14 32	54.8	16.5	399
1991 UJ		1991 10	18.71215	01 47	43.33	+14 32	51.4		399
1991 UJ		1991 10	19.70833	01 46	44.55	+14 30	46.8	16.5	399
1991 UJ		1991 10	19.72396	01 46	43.53	+14 30	44.6		399
1991 UK	*	1991 10	18.69661	01 48	40.57	+14 47	17.6	16	399
1991 UK		1991 10	18.71215	01 48	39.61	+14 47	11.4		399
1991 UK		1991 10	19.70833	01 47	45.42	+14 41	33.5	16.5	399
1991 UK		1991 10	19.72396	01 47	44.58	+14 41	27.2		399
1991 UL	*	1991 10	18.69661	01 50	32.49	+13 03	45.1	17	399
1991 UL		1991 10	18.71215	01 50	31.57	+13 03	36.1		399
1991 UL		1991 10	19.70833	01 49	32.76	+12 55	07.4	17	399
1991 UL		1991 10	19.72396	01 49	31.80	+12 54	59.3		399
1991 UM	*	1991 10	18.69661	01 52	40.22	+12 48	32.2	17	399
1991 UM		1991 10	18.71215	01 52	39.20	+12 48	27.4		399
1991 UM		1991 10	19.70833	01 51	38.61	+12 44	31.0	17	399
1991 UM		1991 10	19.72396	01 51	37.63	+12 44	27.0		399
1991 UN	*	1991 10	18.69661	01 52	49.05	+13 27	21.0	17	399
1991 UN		1991 10	18.71215	01 52	48.19	+13 27	19.0		399
1991 UN		1991 10	19.70833	01 51	55.56	+13 25	04.4	17	399
1991 UN		1991 10	19.72396	01 51	54.80	+13 25	03.7		399
1991 UO	*	1991 10	18.69661	01 53	05.99	+16 03	28.4	17	399
1991 UO		1991 10	18.71215	01 53	04.80	+16 03	24.5		399
1991 UO		1991 10	19.70833	01 52	02.75	+16 01	40.7	17	399
1991 UO		1991 10	19.72396	01 52	01.75	+16 01	39.5		399
1991 UP	*	1991 10	18.69661	01 53	28.06	+15 37	41.3	17	399
1991 UP		1991 10	18.71215	01 53	27.11	+15 37	33.5		399
1991 UP		1991 10	19.70833	01 52	33.25	+15 32	02.9	17	399
1991 UP		1991 10	19.72396	01 52	32.40	+15 31	57.3		399
1991 UQ	*	1991 10	18.69661	01 53	48.31	+12 38	55.5	17	399
1991 UQ		1991 10	18.71215	01 53	47.15	+12 38	52.8		399
1991 UQ		1991 10	19.70833	01 52	43.60	+12 35	01.2	17	399
1991 UQ		1991 10	19.72396	01 52	42.68	+12 34	58.5		399
1991 UR	*	1991 10	18.69661	01 54	54.09	+16 13	52.8	16.5	399
1991 UR		1991 10	18.71215	01 54	53.12	+16 13	50.4		399
1991 UR		1991 10	19.70833	01 53	46.76	+16 12	45.4	17	399
1991 UR		1991 10	19.72396	01 53	45.76	+16 12	45.1		399
1991 US	*	1991 10	18.69661	01 55	07.41	+14 28	07.4	17	399
1991 US		1991 10	18.71215	01 55	06.60	+14 28	05.6		399
1991 US		1991 10	19.70833	01 54	18.52	+14 23	58.3	17	399
1991 US		1991 10	19.72396	01 54	17.67	+14 23	55.3		399
1991 UT	*	1991 10	18.73900	02 20	56.59	+18 06	52.2	17	399
1991 UT		1991 10	18.75451	02 20	55.70	+18 06	46.6		399
1991 UT		1991 10	19.75347	02 20	01.59	+18 02	38.6	16.5	399
1991 UT		1991 10	19.76840	02 20	00.72	+18 02	34.0		399
1991 UU	*	1991 10	18.73900	02 22	49.52	+17 18	33.8	16.5	399
1991 UU		1991 10	18.75451	02 22	48.53	+17 18	27.5		399
1991 UU		1991 10	19.75347	02 21	48.24	+17 10	56.9	16.5	399
1991 UU		1991 10	19.76840	02 21	47.30	+17 10	48.5		399

1991 UV	*	1991 10	18.73900	02 25	32.56	+14 47	22.8	16.5	399
1991 UV		1991 10	18.75451	02 25	31.70	+14 47	17.0		399
1991 UV		1991 10	19.75347	02 24	32.71	+14 41	23.0	16.5	399
1991 UV		1991 10	19.76840	02 24	31.89	+14 41	18.3		399
1991 UW	*	1991 10	18.77326	02 44	14.23	+10 14	51.4	17	399
1991 UW		1991 10	18.78646	02 44	13.25	+10 14	45.0		399
1991 UW		1991 10	19.78750	02 43	11.14	+10 11	57.2	17	399
1991 UW		1991 10	19.80139	02 43	10.36	+10 11	57.0		399
1991 UX	*	1991 10	18.77326	02 50	26.25	+09 47	35.4	15	399
1991 UX		1991 10	18.78646	02 50	25.54	+09 47	37.1		399
1991 UX		1991 10	19.78750	02 49	30.67	+09 48	36.2	15.5	399
1991 UX		1991 10	19.80139	02 49	29.87	+09 48	38.1		399
1991 UY	*	1991 10	18.77326	02 55	54.24	+07 35	14.4	16.5	399
1991 UY		1991 10	18.78646	02 55	53.50	+07 35	12.0		399
1991 UY		1991 10	19.78750	02 55	02.27	+07 34	00.0	16.5	399
1991 UY		1991 10	19.80139	02 55	01.49	+07 34	00.3		399
1991 UA1	*	1991 10	18.73900	02 27	49.26	+17 23	55.8	16	399
1991 UA1		1991 10	18.75451	02 27	48.34	+17 23	54.1		399
1991 UA1		1991 10	19.75347	02 26	57.13	+17 21	49.1	16	399
1991 UA1		1991 10	19.76840	02 26	56.27	+17 21	46.0		399
1991 UB1	*	1991 10	18.73900	02 29	49.93	+14 28	10.1	17	399
1991 UB1		1991 10	18.75451	02 29	49.15	+14 28	03.8		399
1991 UB1		1991 10	19.75347	02 29	00.46	+14 21	04.7	17	399
1991 UB1		1991 10	19.76840	02 28	59.75	+14 20	59.1		399
1991 UC1	*	1991 10	18.77326	02 52	30.52	+10 43	30.3	17	399
1991 UC1		1991 10	18.78646	02 52	29.88	+10 43	25.3		399
1991 UC1		1991 10	19.78750	02 51	45.73	+10 36	47.6	17	399
1991 UC1		1991 10	19.80139	02 51	45.11	+10 36	42.7		399
1991 UD1	*	1991 10	18.69661	01 51	18.70	+16 04	56.9	17	399
1991 UD1		1991 10	18.71215	01 51	18.09	+16 04	53.1		399
1991 UD1		1991 10	19.70833	01 50	23.14	+16 02	42.8	17	399
1991 UD1		1991 10	19.72396	01 50	22.51	+16 02	38.4		399
1991 UE1	*	1991 10	18.73900	02 19	24.96	+15 58	42.3	17	399
1991 UE1		1991 10	18.75451	02 19	24.17	+15 58	39.1		399
1991 UE1		1991 10	19.75347	02 18	36.11	+15 56	11.2	17	399
1991 UE1		1991 10	19.76840	02 18	35.35	+15 56	09.7		399
1991 UF1	*	1991 10	18.77326	02 44	27.67	+09 29	58.8	17	399
1991 UF1		1991 10	18.78646	02 44	26.92	+09 29	55.0		399
1991 UF1		1991 10	19.78750	02 43	43.33	+09 27	01.2	17	399
1991 UF1		1991 10	19.80139	02 43	42.56	+09 26	57.8		399
1991 UK1	*	1991 10	28.46250	01 16	14.49	+17 15	08.8	16.5	399
1991 UK1		1991 10	28.47778	01 16	13.77	+17 15	05.0		399
1991 UK1		1991 10	29.41250	01 15	25.24	+17 10	56.0	16.5	399
1991 UK1		1991 10	29.42743	01 15	24.55	+17 10	54.7		399
1991 UL1	*	1991 10	28.46250	01 19	15.60	+18 52	30.1	17	399
1991 UL1		1991 10	28.47778	01 19	14.98	+18 52	21.9		399
1991 UL1		1991 10	29.41250	01 18	36.11	+18 44	30.2	17	399
1991 UL1		1991 10	29.42743	01 18	35.53	+18 44	23.2		399
1991 UM1	*	1991 10	28.46250	01 25	38.41	+17 21	42.7	15.5	399
1991 UM1		1991 10	28.47778	01 25	37.61	+17 21	39.9		399
1991 UM1		1991 10	29.41250	01 24	43.52	+17 17	12.4	15.5	399
1991 UM1		1991 10	29.42743	01 24	42.48	+17 17	07.2		399
1991 UN1	*	1991 10	28.46250	01 26	45.12	+20 37	54.0	17	399
1991 UN1		1991 10	28.47778	01 26	44.47	+20 37	49.4		399
1991 UN1		1991 10	29.41250	01 25	51.78	+20 32	42.1	17	399
1991 UN1		1991 10	29.42743	01 25	50.67	+20 32	33.0		399
2557 P-L		1991 10	18.69661	01 45	39.63	+12 53	03.3	17	399
2557 P-L		1991 10	18.71215	01 45	38.85	+12 52	59.1		399
2557 P-L		1991 10	19.70833	01 44	34.25	+12 48	58.9	17	399

2557	P-L	1991	10	19.72396	01	44	33.32	+12	48	56.0		399
2503		1991	10	18.69661	01	44	38.15	+15	32	49.4	14	399
2503		1991	10	18.71215	01	44	37.05	+15	32	52.5		399
2503		1991	10	19.70833	01	43	32.02	+15	35	38.6	14.5	399
2503		1991	10	19.72396	01	43	30.94	+15	35	41.2		399
3109		1991	10	18.69661	01	52	04.77	+12	48	31.5	15	399
3109		1991	10	18.71215	01	52	03.78	+12	48	28.8		399
3109		1991	10	19.70833	01	51	01.81	+12	46	04.1	14.5	399
3109		1991	10	19.72396	01	51	00.89	+12	46	02.7		399

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GSC

1990	SU25*	1990	09	16.57500	23	01	10.18	-05	28	25.8	16.0	400
1990	SU25	1990	09	16.59236	23	01	09.07	-05	28	33.4		400
1990	SV25*	1990	09	16.60903	00	32	31.93	+06	40	58.6	16.0	400
1990	SV25	1990	09	16.62708	00	32	30.89	+06	40	44.4		400
1990	SA26*	1990	09	26.63889	00	22	39.96	+02	39	59.5	16.5	400
1990	SA26	1990	09	26.66042	00	22	39.18	+02	39	53.9		400
1990	TA15*	1990	10	11.60347	01	35	35.66	+16	57	18.2	17	400
1990	TA15	1990	10	11.62639	01	35	34.41	+16	57	10.5		400
1990	TA15	1990	10	11.64097	01	35	33.68	+16	57	06.7		400
1990	UR10*	1990	10	22.47986	01	30	35.58	+09	25	15.2	17	400
1990	UR10	1990	10	22.49653	01	30	34.85	+09	25	01.5		400
1990	US10*	1990	10	22.47986	01	34	30.61	+09	21	22.0	17	400
1990	US10	1990	10	22.49653	01	34	29.84	+09	21	16.4		400
1990	UW10*	1990	10	24.69896	02	21	47.59	+17	52	44.1	16.0	400
1990	UW10	1990	10	24.71701	02	21	46.64	+17	52	32.7		400
1990	UW10	1990	10	24.72917	02	21	46.24	+17	52	29.1		400
1990	VA13*	1990	11	11.48646	03	05	47.10	+14	26	22.4	16.5	400
1990	VA13	1990	11	11.50174	03	05	46.09	+14	26	10.3		400
1990	WY12*	1990	11	24.55104	04	00	18.57	+16	30	14.8	16.5	400
1990	WY12	1990	11	24.56632	04	00	17.45	+16	30	13.5		400
1990	WZ12*	1990	11	24.55104	04	01	31.78	+16	20	28.8	16.5	400
1990	WZ12	1990	11	24.56632	04	01	30.95	+16	20	27.0		400
1990	WA13*	1990	11	24.59375	05	10	44.54	+21	50	34.5	17	400
1990	WA13	1990	11	24.61458	05	10	43.10	+21	50	30.6		400
1990	XE2 *	1990	12	13.54792	03	22	50.79	+28	34	03.5	17	400
1990	XE2	1990	12	13.56736	03	22	49.92	+28	34	01.4		400
1991	PM11	1991	09	30.46076	23	47	23.73	+04	54	37.1	15.5	400
1991	PM11	1991	09	30.47674	23	47	22.99	+04	54	35.8		400
1991	RS1	1991	10	08.47049	23	40	23.82	+04	46	00.8	16.0	400
1991	RS1	1991	10	08.48785	23	40	22.88	+04	46	00.5		400
1991	SB	1991	10	08.50313	00	25	23.62	+04	54	41.5	16.5	400
1991	SB	1991	10	08.51910	00	25	22.83	+04	54	33.0		400
1991	SL1 *	1991	09	30.53368	01	13	58.79	+06	57	34.6	16.5	400
1991	SL1	1991	09	30.54965	01	13	57.87	+06	57	31.8		400
1991	SL1	1991	10	05.62465	01	08	48.73	+06	42	11.2	17.0	400
1991	SL1	1991	10	05.63993	01	08	47.74	+06	42	06.1		400
1991	SL1	1991	10	18.63507	00	55	20.73	+06	00	34.5	16.5	400
1991	SL1	1991	10	18.65035	00	55	19.72	+06	00	29.7		400
1991	SM1 *	1991	09	30.53368	01	15	48.00	+11	10	31.5	16.5	400
1991	SM1	1991	09	30.54965	01	15	47.26	+11	10	25.8		400
1991	SM1	1991	10	05.62465	01	12	07.14	+10	44	31.0	16.5	400
1991	SM1	1991	10	05.63993	01	12	06.37	+10	44	26.7		400

1991	SN1	*	1991	09	30.53368	01	16	35.07	+10	16	20.6	16.5	400
1991	SN1		1991	09	30.54965	01	16	34.25	+10	16	11.6		400
1991	SN1		1991	10	05.62465	01	12	54.07	+09	25	34.6	16.5	400
1991	SN1		1991	10	05.63993	01	12	53.36	+09	25	27.3		400
1991	SN1		1991	10	18.66632	01	02	50.22	+07	07	06.2	16.0	400
1991	SN1		1991	10	18.68299	01	02	49.36	+07	06	54.0		400
1991	SO1	*	1991	09	30.46076	23	48	58.63	+08	42	49.2	16.5	400
1991	SO1		1991	09	30.47674	23	48	57.90	+08	42	43.5		400
1991	SO1		1991	10	08.47049	23	42	51.58	+07	46	12.5	16.5	400
1991	SO1		1991	10	08.48785	23	42	50.98	+07	46	04.1		400
1991	SP1	*	1991	09	30.46076	23	49	18.81	+07	37	48.6	16.5	400
1991	SP1		1991	09	30.47674	23	49	18.08	+07	37	39.8		400
1991	SP1		1991	10	08.47049	23	43	11.03	+06	23	27.3	16.5	400
1991	SP1		1991	10	08.48785	23	43	10.17	+06	23	23.4		400
1991	SQ1	*	1991	09	30.46076	23	49	44.92	+09	12	29.3	16.5	400
1991	SQ1		1991	09	30.47674	23	49	44.25	+09	12	27.4		400
1991	SQ1		1991	10	08.47049	23	43	47.66	+08	54	03.1	17	400
1991	SQ1		1991	10	08.48785	23	43	46.79	+08	53	57.0		400
1991	TG1	*	1991	10	08.56493	01	51	54.42	+25	53	09.8	16.0	400
1991	TG1		1991	10	08.58368	01	51	53.54	+25	53	08.5		400
1991	TG1		1991	10	10.49618	01	50	18.86	+25	51	07.7	16.0	400
1991	TG1		1991	10	10.51597	01	50	18.13	+25	51	04.1		400
1991	TF2	*	1991	10	08.59965	02	10	08.60	+25	38	16.1	16.5	400
1991	TF2		1991	10	08.61840	02	10	07.28	+25	38	17.8		400
1991	TF2		1991	10	16.62396	02	00	45.04	+25	30	45.6	16.0	400
1991	TF2		1991	10	16.64271	02	00	43.62	+25	30	44.9		400
2070			1991	10	05.62465	01	13	18.58	+09	20	48.4	16.0	400
2070			1991	10	05.63993	01	13	17.62	+09	20	46.8		400

402 Dynic Astronomical Observatory

A. Sugie, Dynic Astronomical Observatory, Taga 270, Taga-Cho, Inukami-Gun,
Shiga-Ken, 522-03, Japan

0.25-m f/3.4 Schmidt

AGK3

1990	SD26*		1990	09	27.59306	00	42	10.52	+06	37	14.7	17.0	402
1990	SD26		1990	09	27.61042	00	42	10.74	+06	37	17.7		402
1990	SE26*		1990	09	27.59306	00	54	57.83	+07	33	53.0	16.5	402
1990	SE26		1990	09	27.61042	00	54	56.70	+07	33	44.6		402
1990	UO10*		1990	10	19.65174	03	00	42.73	+21	58	43.7	17.0	402
1990	UO10		1990	10	19.66667	03	00	41.80	+21	58	42.0		402
1990	UE11*		1990	10	28.65208	02	43	36.75	+03	38	14.0	17.5	402
1990	UE11		1990	10	28.66597	02	43	35.41	+03	38	15.2		402
1990	UG11*		1990	10	28.75139	04	07	42.57	+26	08	11.5	17.0	402
1990	UG11		1990	10	28.76528	04	07	41.53	+26	08	01.2		402
1990	WB13*		1990	11	24.60833	02	27	29.73	+18	59	11.5	16.5	402
1990	WB13		1990	11	24.62500	02	27	29.06	+18	59	03.6		402
1990	WC13*		1990	11	24.60833	02	31	19.86	+20	28	33.4	17.0	402
1990	WC13		1990	11	24.62500	02	31	19.02	+20	28	28.6		402
1990	YL1	*	1990	12	21.72708	08	09	47.75	+39	39	45.5	17.0	402
1990	YL1		1990	12	21.74375	08	09	46.21	+39	39	26.2		402
1991	RX10		1991	10	03.51875	01	03	24.68	+12	58	49.9	17.0	402
1991	RX10		1991	10	03.53333	01	03	23.66	+12	58	52.6		402
1991	RX10		1991	10	03.57092	01	03	21.39	+12	58	58.1		402
1991	RX10		1991	10	03.58472	01	03	20.26	+12	58	58.0		402
1991	SM1		1991	09	11.68056	01	26	09.00	+12	18	22.2	17.5	402
1991	SM1		1991	09	11.70139	01	26	08.42	+12	18	21.6		402

403 Kani

T. Furuta, Mitsuike 17-2, Kakiya-Cho, Tokai, Aichi-Ken 477, Japan

Observers Y. Mizuno, T. Furuta

Measurer T. Furuta

0.25-m f/4.2 Wright-Schmidt camera

SAOC

1969 TA	1991 10 03.55602	00 52 51.84	+15 12 53.8	15.5	403
1969 TA	1991 10 03.56667	00 52 51.16	+15 12 48.9		403
1975 YD	1991 10 13.64971	02 36 11.02	+18 09 13.7	15.5	403
1975 YD	1991 10 13.66238	02 36 10.64	+18 09 04.6		403
1983 RQ4	1991 10 02.61036	01 11 04.44	+06 55 03.9	16.0	403
1983 RQ4	1991 10 03.60052	01 10 21.49	+06 45 35.2		403
1983 RQ4	1991 10 03.61146	01 10 21.05	+06 45 28.0		403
1990 QN17*	1990 08 26.58785	21 53 05.0	-09 47 57	16.0	403
1990 QN17	1990 08 26.60764	21 53 03.7	-09 48 00		403
1990 VE13*	1990 11 12.53472	03 41 31.70	+19 49 00.3	16.5	403
1990 VF13*	1990 11 12.53472	03 42 26.78	+18 34 50.2	16.5	403
1990 YK1 *	1990 12 19.58958	07 09 46.0	+24 48 12	16.0	403
1990 YK1	1990 12 19.60035	07 09 45.4	+24 48 13		403
1991 PU11	1991 09 06.58056	23 05 18.13	-05 34 48.3	15.5	403
1991 PU11	1991 09 06.59167	23 05 17.46	-05 34 48.2		403
1991 RH8	1991 10 02.54861	00 59 35.9	+01 50 30	15.5	403
1991 RH8	1991 10 02.56424	00 59 34.75	+01 50 38.9		403
1991 RH8	1991 10 03.55602	00 58 26.44	+01 56 31.4		403
1991 RH8	1991 10 03.56667	00 58 25.75	+01 56 35.6		403
1991 TV *	1991 10 02.52581	00 56 54.5	+05 02 33	16.0	403
1991 TV	1991 10 02.53657	00 56 54.1	+05 02 24		403
1991 TV	1991 10 03.53391	00 56 07.6	+04 51 04		403
1991 TV	1991 10 03.54479	00 56 07.2	+04 50 58		403
1991 TH2	1991 10 13.62384	02 24 01.1	+09 55 37	16.0	403
1991 TH2	1991 10 13.63646	02 24 00.6	+09 55 34		403
368	1991 10 13.64971	02 37 06.65	+18 04 32.8	14.5	403
368	1991 10 13.66238	02 37 06.14	+18 04 29.2		403
3597	1991 10 02.54861	00 57 49.1	+01 50 45	15.5	403
3597	1991 10 02.56424	00 57 48.2	+01 50 41		403
3597	1991 10 03.55602	00 57 04.41	+01 46 16.9		403
3597	1991 10 03.56667	00 57 04.0	+01 46 13		403

408 Nyukasa

K. Watanabe, 3-8 Mason Hashimoto B-203, Atsubetsu Chuo 3 Jo 4 Chome,
Atsubetsu-Ku, Sapporo 004, Japan

Observers M. Hirasawa, S. Suzuki

Measurer K. Watanabe

0.16-m f/3.8 Wright-Schmidt camera

GSC

1991 TH2 *	1991 10 13.74826	02 23 55.76	+09 54 58.6	16.5	408
1991 TH2	1991 10 13.76910	02 23 54.97	+09 54 51.9		408
1991 TH2	1991 10 15.70313	02 22 35.94	+09 43 35.9	16.5	408
1991 TH2	1991 10 15.72396	02 22 34.85	+09 43 27.8		408
1991 TJ2 *	1991 10 13.74826	02 26 16.93	+09 26 05.5	16.5	408
1991 TJ2	1991 10 13.76910	02 26 15.44	+09 26 03.2		408
1991 TJ2	1991 10 15.70313	02 24 07.50	+09 22 24.0	16.5	408
1991 TJ2	1991 10 15.72396	02 24 06.23	+09 22 22.6		408

411 Oizumi

T. Kobayashi, 1717-2 Shimo-Koizumi, Oizumi-machi, Ora-gun,
Gunma-ken, 370-05 Japan

0.16-m f/4.8 reflector + CCD

GSC

550	1991 09 28.42546	23 52 27.46	+19 25 42.2		411
550	1991 09 28.43581	23 52 27.01	+19 25 38.6		411

413 Siding Spring

R. H. McNaught, Siding Spring Observatory, Coonabarabran, N.S.W. 2357,
AustraliaObservers J. Barton, R. D. Cannon, M. Hartley, S. M. Hughes, R. H. McNaught,
K. S. Russell, A. Savage

Measurer R. H. McNaught

1.2-m U.K. Schmidt, Uppsala Southern Schmidt

1975 LR	1991 09	27.43265	20 10	01.04	-32 51	43.1	16.5V	413
1975 LR	1991 09	30.50475	20 11	10.71	-32 40	56.6		413
1981 QP3	1991 09	02.64324	00 42	55.32	-00 17	31.6		413
1981 QP3	1991 09	03.78924	00 42	19.82	-00 22	05.8		413
1982 QM	1991 09	02.61720	00 41	07.35	-00 32	27.7	16.5V	413
1982 QM	1991 09	02.66928	00 41	06.38	-00 32	49.2		413
1982 QM	1991 09	03.78924	00 40	46.95	-00 40	47.4		413
1986 WQ2	1991 10	14.56553	01 03	23.88	-42 04	56.5		413
1987 QW7	1991 09	04.61176	23 11	42.80	-01 22	03.1		413
1989 CA	1991 09	04.59093	23 15	49.21	-01 59	05.5		413
1989 CA	1991 09	04.63259	23 15	46.95	-01 59	19.2		413
1991 PY14	1991 09	03.53137	21 58	07.56	-02 24	03.5	16 V	413
1991 PY14	1991 09	03.57650	21 58	04.96	-02 24	04.4		413
1991 PY14	1991 09	04.60417	21 57	07.60	-02 24	43.6		413
1991 PY14	1991 09	04.65301	21 57	04.72	-02 24	46.1		413
1991 QE	1991 09	27.46285	19 38	44.68	-48 47	06.5		413
1991 RA	1991 10	05.53819	23 50	23.84	+08 39	23.5		413
1991 RJ	1991 09	07.57236	23 16	42.24	-00 11	59.9		p 413
1991 RM1	1991 10	02.75787	00 35	15.71	-24 00	00.0		413
1991 RM1	1991 10	05.65266	00 31	57.34	-23 47	14.0		413
1991 RJ2	1991 10	05.51392	23 26	22.43	-11 21	21.0		F 413
1991 RJ2	1991 10	05.55558	23 26	24.84	-11 21	47.3		F 413
1991 RO9	1991 09	04.47738	21 04	08.64	-39 10	32.6		413
1991 RO9	1991 09	04.51905	21 04	06.73	-39 10	29.4		413
1991 RO9 *	1991 09	05.47817	21 03	23.81	-39 09	06.4	17.5V	413
1991 RO9	1991 09	07.42557	21 02	00.21	-39 05	49.4		V 413
1991 RO9	1991 09	07.55057	21 01	54.25	-39 05	33.0		V 413
1991 RP9 *	1991 09	05.47817	21 12	48.15	-41 48	15.5	17 V	413
1991 RP9	1991 09	07.42557	21 11	13.82	-41 41	58.8		413
1991 RP9	1991 09	07.55057	21 11	07.67	-41 41	31.7		F 413
1991 RP9	1991 10	05.45922	21 02	01.22	-38 40	18.8		413
1991 RP9	1991 10	05.50089	21 02	01.43	-38 39	57.4		413
1991 SL	1991 10	09.44583	22 49	48.17	-18 45	39.3		413
1991 SL	1991 10	12.58044	22 47	06.07	-17 55	08.5		413
1991 SM	1991 10	09.44583	22 50	22.51	-20 39	50.3		413
1991 SM	1991 10	09.45707	22 50	22.24	-20 39	51.0		413
1991 SM	1991 10	12.59190	22 49	28.03	-20 42	30.7		413
1991 SN	1991 10	09.45707	22 53	41.53	-22 08	19.2		413
1991 SN	1991 10	12.59190	22 52	34.91	-22 07	28.3		413
1991 SO	1991 10	09.44583	22 53	01.00	-20 29	09.5		413
1991 SO	1991 10	09.45707	22 53	00.65	-20 29	06.1		413
1991 SO	1991 10	12.59190	22 51	41.04	-20 12	08.9		413
1991 SP	1991 10	09.44583	22 55	30.15	-20 04	03.4		413
1991 SP	1991 10	09.45707	22 55	29.97	-20 03	59.7		413
1991 SP	1991 10	12.59190	22 55	00.44	-19 46	34.4		413
1991 SQ	1991 08	18.62561	23 36	03.37	-21 15	59.0		413
1991 SQ	1991 08	18.68811	23 36	01.22	-21 16	13.0		413
1991 SQ	1991 10	09.44583	22 55	23.70	-20 34	00.2		413
1991 SQ	1991 10	09.45707	22 55	23.32	-20 33	55.2		413
1991 SQ	1991 10	12.59190	22 54	12.87	-20 09	55.4		413
1991 SR	1991 10	09.45707	22 56	09.58	-22 37	12.2		413
1991 ST	1991 10	12.59190	22 57	32.35	-20 37	57.8		413

1991 SU	1991 10	12.59190	22 56	22.56	-20 36	19.0	413
1991 SV	1991 08	18.62561	23 40	04.66	-19 43	55.3	413
1991 SV	1991 08	18.68811	23 40	02.58	-19 44	18.4	413
1991 SV	1991 10	12.59190	23 00	01.01	-22 28	54.1	E 413
1991 SW	1991 10	02.55556	23 06	13.28	-19 33	12.8	413
1991 SW	1991 10	05.52552	23 04	40.70	-19 39	58.3	413
1991 SW	1991 10	09.48056	23 02	51.73	-19 46	16.2	413
1991 SW	1991 10	12.60932	23 01	37.91	-19 48	59.1	413
1991 SX	1991 10	02.55556	23 06	30.02	-18 10	38.9	413
1991 SX	1991 10	05.52552	23 05	20.65	-18 14	19.1	413
1991 SX	1991 10	09.48056	23 04	12.96	-18 14	38.7	413
1991 SX	1991 10	12.60932	23 03	40.05	-18 11	18.2	413
1991 SY	1991 08	18.62561	23 48	53.69	-18 13	28.4	F 413
1991 SY	1991 08	18.68811	23 48	50.71	-18 13	44.2	F 413
1991 SY	1991 10	02.55556	23 07	56.66	-19 28	11.8	413
1991 SY	1991 10	05.52552	23 05	42.89	-19 21	19.4	413
1991 SY	1991 10	09.48056	23 03	02.38	-19 09	41.7	413
1991 SY	1991 10	12.60932	23 01	10.35	-18 58	33.8	413
1991 SZ	1991 09	05.59238	23 33	35.67	-16 57	12.1	413
1991 SZ	1991 09	05.63405	23 33	33.25	-16 57	22.3	413
1991 SZ	1991 10	02.55556	23 09	33.64	-17 30	43.5	413
1991 SZ	1991 10	02.73611	23 09	26.03	-17 30	20.6	413
1991 SZ	1991 10	05.52552	23 07	39.80	-17 23	35.7	413
1991 SZ	1991 10	09.48056	23 05	31.61	-17 10	49.5	413
1991 SZ	1991 10	12.60932	23 04	10.00	-16 58	09.5	413
1991 SA1	1991 09	05.59238	23 27	42.67	-14 06	24.2	413
1991 SA1	1991 09	05.63405	23 27	41.09	-14 06	50.7	413
1991 SA1	1991 10	02.55556	23 11	20.82	-18 13	23.4	413
1991 SA1	1991 10	05.52552	23 10	00.19	-18 30	49.8	413
1991 SA1	1991 10	09.48056	23 08	28.45	-18 50	27.2	413
1991 SA1	1991 10	12.60932	23 07	29.62	-19 03	01.7	413
1991 SB1	1991 09	05.59238	23 34	32.08	-18 01	45.5	413
1991 SB1	1991 09	05.63405	23 34	29.89	-18 02	03.8	413
1991 SB1	1991 10	02.55556	23 12	30.52	-19 54	57.5	413
1991 SB1	1991 10	05.52552	23 10	44.70	-19 54	12.4	413
1991 SB1	1991 10	12.60932	23 07	32.63	-19 41	26.3	413
1991 SC1	1991 09	05.59238	23 34	25.92	-17 49	11.9	413
1991 SC1	1991 09	05.63405	23 34	23.79	-17 49	20.4	413
1991 SC1	1991 10	02.55556	23 12	26.14	-18 26	25.1	413
1991 SC1	1991 10	02.73611	23 12	18.56	-18 26	13.3	413
1991 SC1	1991 10	05.52552	23 10	28.30	-18 22	37.2	413
1991 SC1	1991 10	09.48056	23 08	07.10	-18 15	01.3	413
1991 SC1	1991 10	12.60932	23 06	29.33	-18 06	58.0	413
1991 SD1	1991 09	05.59238	23 34	56.36	-16 03	13.0	413
1991 SD1	1991 09	05.63405	23 34	54.29	-16 03	36.5	413
1991 SD1	1991 10	02.55556	23 13	54.48	-19 25	27.6	413
1991 SD1	1991 10	05.52552	23 12	02.77	-19 38	08.3	413
1991 SD1	1991 10	09.48056	23 09	49.40	-19 51	45.8	413
1991 SE1	1991 09	05.59238	23 37	42.64	-17 14	51.3	413
1991 SE1	1991 09	05.63405	23 37	40.53	-17 15	10.2	413
1991 SE1	1991 10	02.55556	23 15	46.79	-19 30	30.7	413
1991 SE1	1991 10	05.52552	23 13	56.60	-19 32	40.7	413
1991 SE1	1991 10	09.48056	23 11	51.33	-19 31	17.2	413
1991 SE1	1991 10	12.60932	23 10	30.96	-19 26	46.8	413
1991 SH1	1991 09	05.47817	21 24	13.67	-39 05	41.4	16.5V 413
1991 SH1	1991 09	07.42557	21 23	05.91	-39 01	11.2	413
1991 SH1	1991 09	07.55057	21 23	01.63	-39 00	52.0	413
1991 TA	1991 08	18.62561	23 36	11.73	-23 02	01.2	413
1991 TA	1991 08	18.68811	23 36	09.97	-23 02	38.2	413

1991 TA	1991 10 09.46789	23 02 15.44	-26 47 25.6	413
1991 TA	1991 10 13.60400	23 01 08.96	-26 27 30.8	413
1991 TB	1991 09 30.47640	21 52 24.52	-23 06 35.5	413
1991 TB	1991 10 05.51412	21 51 10.15	-22 34 35.0	413
1991 TC	1991 09 30.45557	21 53 42.14	-22 34 05.2	413
1991 TC	1991 10 05.51412	21 52 14.45	-20 27 32.6	413
1991 TC	1991 10 12.57240	21 52 03.96	-17 42 42.3	413
1991 TD	1991 10 09.46789	22 59 48.60	-26 35 52.1	413
1991 TE	1991 10 09.46789	23 09 45.62	-27 50 51.3	413
1991 TF	1991 10 05.66157	01 06 14.29	-03 56 54.0	413
1991 TF	1991 10 07.69120	01 05 09.85	-04 29 25.2	413
1991 TF	1991 10 15.66979	01 00 54.22	-06 28 38.7	413
1991 TG	1991 10 05.66157	01 13 52.34	-04 06 29.4	413
1991 TG	1991 10 07.69120	01 12 53.12	-05 14 38.4	413
1991 TG	1991 10 14.65628	01 09 20.50	-09 01 16.3	413
1991 TH	1991 10 15.65370	00 59 05.53	-02 20 02.2	413
1991 TJ	1991 10 05.66157	01 05 40.21	-03 16 25.3	413
1991 TJ	1991 10 15.65370	00 57 11.31	-03 36 18.3	413
1991 TK	1991 10 05.66157	01 06 28.74	-02 07 09.8	413
1991 TK	1991 10 15.65370	00 57 16.17	-03 03 28.8	413
1991 TL	1991 10 05.66157	01 07 34.71	-02 31 54.1	413
1991 TL	1991 10 07.69120	01 05 40.88	-02 48 38.4	413
1991 TL	1991 10 15.65370	00 58 18.76	-03 47 17.3	413
1991 TM	1991 10 05.66157	01 07 54.34	-03 04 57.3	413
1991 TM	1991 10 07.69120	01 06 06.56	-03 20 13.9	413
1991 TM	1991 10 15.65370	00 59 06.53	-04 14 27.3	413
1991 TN	1991 10 15.65370	00 58 36.97	-03 23 44.1	413
1991 TO	1991 10 05.66157	01 09 49.82	-03 06 19.1	413
1991 TO	1991 10 15.65370	01 00 54.17	-04 09 00.6	413
1991 TP	1991 10 05.66157	01 10 35.11	-03 20 23.2	413
1991 TP	1991 10 07.69120	01 09 10.84	-03 37 33.7	413
1991 TP	1991 10 15.65370	01 03 38.92	-04 40 51.3	413
1991 TQ	1991 10 05.66157	01 11 27.14	-01 34 38.0	413
1991 TQ	1991 10 15.65370	01 03 14.86	-02 07 26.8	413
1991 TR	1991 10 07.69120	01 11 07.91	-03 02 58.3	413
1991 TR	1991 10 15.65370	01 03 35.92	-03 46 57.8	413
1991 TS	1991 10 05.66157	01 14 15.09	-03 12 58.0	413
1991 TS	1991 10 07.69120	01 12 28.90	-03 27 22.8	413
1991 TS	1991 10 15.65370	01 05 29.48	-04 18 17.0	413
1991 TX	* 1991 10 01.63840	02 49 52.71	-31 18 36.0	17 V V 413
1991 TX	1991 10 01.70090	02 49 49.97	-31 18 36.5	V 413
1991 TX	1991 10 05.69381	02 46 12.90	-31 14 51.4	413
1991 TX	1991 10 07.73891	02 44 06.30	-31 09 51.2	413
1991 TX	1991 10 15.69855	02 34 34.18	-30 27 55.2	413
1991 TY	* 1991 10 02.55603	01 56 22.96	-37 47 41.6	16 V 413
1991 TY	1991 10 02.61853	01 56 21.46	-37 48 26.6	413
1991 TY	1991 10 05.67593	01 55 08.80	-38 24 54.8	413
1991 TY	1991 10 07.73275	01 54 11.56	-38 45 50.5	413
1991 TY	1991 10 15.68084	01 49 46.26	-39 38 34.0	413
1991 TB1	1991 10 14.62581	23 21 56.42	+11 50 44.2	17 V V 413
1991 TC1	1991 10 10.53356	00 00 11.07	-21 26 41.3	413
1991 TC1	1991 10 10.57523	00 00 08.81	-21 26 26.4	413
1991 TC1	* 1991 10 10.59002	00 00 07.93	-21 26 20.6	15 V 413
1991 TC1	1991 10 12.62159	23 58 23.07	-21 13 21.9	413
1991 TC1	1991 10 15.63715	23 55 58.40	-20 51 41.8	413
1991 TD1	* 1991 10 12.62922	03 23 10.19	-00 47 21.2	16 V 413
1991 TD1	1991 10 12.68131	03 23 09.30	-00 48 55.0	413
1991 TD1	1991 10 13.73495	03 22 54.21	-01 20 58.8	413
1991 TD1	1991 10 15.70766	03 22 19.53	-02 21 06.4	413

1991	TE1	*	1991	10	12.65527	03	14	33.08	-01	49	59.3	17	V	413
1991	TE1		1991	10	13.73495	03	13	51.80	-01	53	43.9			413
1991	TE1		1991	10	15.70766	03	12	32.29	-02	00	18.4			413
1991	TF1	*	1991	10	12.65527	03	20	24.54	-01	24	20.1	17	V	413
1991	TF1		1991	10	13.73495	03	19	58.08	-01	34	27.8			413
1991	TF1		1991	10	15.70766	03	19	06.54	-01	52	55.5			413
1991	TM1	*	1991	10	12.56205	00	55	56.44	-27	03	05.7	16.5V		413
1991	TM1		1991	10	12.61413	00	55	53.45	-27	02	53.2			413
1991	TM1		1991	10	13.72500	00	54	51.90	-26	58	36.5			413
1991	TN1	*	1991	10	12.56205	01	02	32.06	-27	15	52.9	17	V	413
1991	TN1		1991	10	12.61413	01	02	29.42	-27	15	53.8			413
1991	TN1		1991	10	13.72500	01	01	32.89	-27	16	08.6			413
1991	UG1	*	1991	10	29.46369	01	09	54.61	-40	13	19.7	16	V	413
1991	UG1		1991	10	30.60233	01	08	37.82	-39	38	41.4			413
6743	P-L		1985	09	08.55873	23	04	28.15	-13	53	04.5	18	V F	413
6743	P-L		1985	09	08.61081	23	04	22.17	-13	53	28.4			413
6743	P-L		1991	08	17.68380	20	48	25.68	-28	53	16.4	20	V	413
7571	P-L		1991	09	05.59238	23	27	39.02	-12	07	20.5			413
7571	P-L		1991	09	05.63405	23	27	36.74	-12	07	31.5			413
795			1991	09	05.47817	21	01	33.04	-41	36	25.7			413
795			1991	09	07.42557	21	00	06.57	-41	23	40.6			413
795			1991	09	07.55057	21	00	01.01	-41	22	48.7			413
1781			1991	09	05.59238	23	33	06.79	-14	51	37.0			413
1781			1991	09	05.63405	23	33	04.38	-14	51	47.3			413
2448			1991	10	10.53356	00	00	52.32	-20	57	40.4			413
2448			1991	10	10.57523	00	00	50.62	-20	57	49.5			413
2448			1991	10	10.59002	00	00	49.96	-20	57	53.7			413
2448			1991	10	12.62158	23	59	28.69	-21	05	32.3			413
3167			1991	09	05.47817	21	00	13.58	-38	53	58.1			413
3167			1991	09	07.42557	20	58	56.47	-38	37	47.2			413
3167			1991	09	07.55057	20	58	51.52	-38	36	43.4			413
4119			1991	10	12.62922	03	23	47.15	+00	29	35.7			413
4119			1991	10	12.68131	03	23	45.44	+00	29	22.2			413
4953			1991	10	07.70139	01	50	40.44	-34	20	34.0			413
4953			1991	10	15.68958	01	33	43.53	-35	54	01.9			413
4961			1991	09	03.53137	22	06	26.10	-06	50	28.3	15.5V		413
4961			1991	09	03.57650	22	06	23.78	-06	50	30.6			413
4961			1991	09	04.62338	22	05	32.62	-06	51	33.5			413

474 Mount John

A. C. Gilmore, P.O. Box 57, Lake Tekapo, New Zealand

Observer A. C. Gilmore

Measurer P. M. Kilmartin

0.25-m astrograph (1) and 0.6-m f/14 Cassegrain reflector

AGK3, SAOC, CPZ, field plates from Carter Observatory

1991	JY		1991	07	11.41889	11	24	20.63	-46	33	25.6	19.1		474
1991	JY		1991	07	11.46137	11	24	21.55	-46	33	44.7			474
1991	MA		1991	07	05.56494	19	47	41.82	-49	52	25.9	18.0		474
1991	MA		1991	07	05.59515	19	47	38.92	-49	53	10.3			474
1991	MA		1991	07	11.56287	19	37	50.47	-52	07	39.7			474
1991	MA		1991	07	11.57745	19	37	48.89	-52	07	57.5	16.9		474
3071			1991	07	11.52016	16	24	12.31	-19	09	15.0	17.4		474
3071			1991	07	11.53926	16	24	11.86	-19	09	16.1			474
4898			1991	07	10.46424	14	03	41.74	-40	42	39.9	17.7		474
4898			1991	07	10.48576	14	03	42.83	-40	42	34.9			474

479 Sollies-Pont

B. Candela, 533 Chemin des Laugiers, F-83210 Sollies-Pont, France

Observer B. Candela

27	1991 04 07.83857	08 42 38.87	+20 09 02.1	479
27	1991 04 07.84827	08 42 39.59	+20 08 59.8	479
79	1991 04 07.85591	10 43 45.29	+04 02 30.5	479
79	1991 04 07.87362	10 43 44.81	+04 02 36.2	479
101	1991 04 08.89115	10 17 44.04	+09 33 16.4	479
101	1991 04 08.90556	10 17 43.65	+09 33 16.8	479
103	1991 05 19.85938	12 51 57.78	+02 11 09.5	479
103	1991 05 19.87761	12 51 57.39	+02 11 09.2	479
113	1990 12 06.83820	03 28 32.25	+11 34 36.7	479
113	1990 12 06.85139	03 28 31.23	+11 34 34.9	479
261	1991 02 22.92987	09 11 18.51	+21 15 12.4	479
261	1991 02 22.94271	09 11 17.81	+21 15 15.4	479
347	1991 03 14.11251	12 48 27.49	+17 33 23.0	479
347	1991 03 14.12587	12 48 26.93	+17 33 30.6	479
444	1991 04 30.88507	11 26 02.19	+01 02 52.0	479
444	1991 04 30.90093	11 26 02.04	+01 02 56.0	479
451	1990 12 10.79063	03 30 51.68	+07 58 04.8	479
451	1990 12 10.80139	03 30 51.45	+07 58 09.7	479
451	1990 12 10.82952	03 30 49.98	+07 58 12.5	479
451	1990 12 10.84619	03 30 49.19	+07 58 16.9	479
532	1991 03 12.84445	06 18 31.92	+26 43 59.8	479
532	1991 03 12.85348	06 18 32.33	+26 44 00.4	479
758	1991 04 08.91667	11 30 16.06	+11 11 28.6	479
758	1991 04 08.93403	11 30 15.42	+11 11 31.5	479

511 Haute Provence

E. W. Elst, Royal Observatory, B-1180 Brussels, Belgium

Observers E. W. Elst, G. Traversa

Measurer E. W. Elst

0.6-m Schmidt

1991 EA4	1991 02 22.06007	09 56 45.34	+12 45 13.4	511
1991 RJ	1991 09 05.97639	23 18 24.52	-00 14 22.1	511
1991 RJ	1991 09 06.01458	23 18 21.98	-00 14 19.2	17.7 511

552 San Vittore

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

Observers C. Vacchi, G. Sassi, R. di Luca

Measurers C. Vacchi, V. Goretti, E. Colombini

AGK3, SAOC

0.25-m f/2.5 Schmidt, 0.45-m f/5 reflector

1991 RN1	1991 10 01.90139	23 02 46.00	-05 25 03.4	16.8 552
1991 RN1	1991 10 01.92153	23 02 45.25	-05 25 09.2	552
1991 RN1	1991 10 13.85833	22 58 54.56	-06 14 10.8	17.0 552
1991 RN1	1991 10 13.88333	22 58 54.37	-06 14 13.9	552
107	1991 10 01.90139	23 04 18.04	-05 22 47.0	13.0 552
107	1991 10 01.92153	23 04 17.37	-05 22 53.1	552
107	1991 10 13.85833	22 59 00.59	-06 21 47.1	13.0 552
107	1991 10 13.88333	22 59 00.06	-06 21 52.6	552

553 Chorzow

I. Wlodarczyk, Planetarium and Astronomical Observatory,

PL-41501 Chorzow 1 s.p.10, Poland

Observers I. Wlodarczyk, S. Janta, M. Szczepanski, T. Firszt

Measurers I. Wlodarczyk, B. Osiejuk

0.2-m f/5 astrograph

18	1991 05 21.92117	17 22 58.80	-07 01 27.1	553
18	1991 05 21.94200	17 22 57.86	-07 01 23.9	553
18	1991 05 21.96183	17 22 56.87	-07 01 18.2	553
18	1991 05 21.99169	17 22 55.42	-07 01 13.3	553

18	1991 06 09.95895	17 04 49.00	-06 21 21.3	553
18	1991 06 09.97948	17 04 47.56	-06 21 27.4	553
18	1991 06 09.99846	17 04 46.40	-06 21 23.7	553
18	1991 06 15.89100	16 58 37.73	-06 20 26.9	553
18	1991 06 15.91390	16 58 36.29	-06 20 29.2	553
18	1991 06 15.93426	16 58 34.98	-06 20 29.5	553

589 Santa Lucia Stroncone

A. Vagnozzi, Santa Lucia 68, I-05039 Stroncone (Terni), Italy
 Observers A. Vagnozzi, G. C. Morando, S. Casulli, R. Castellani
 0.5-m f/7.5 Ritchey-Chretien
 SAOC, AGK3

1991 RN1	1991 09 16.84028	23 12 31.79	-03 51 22.8	589
1991 RN1	1991 09 16.85278	23 12 31.35	-03 51 25.6	589
1991 RN1	1991 09 16.86528	23 12 30.82	-03 51 28.3	589
1991 RN1	1991 09 17.82639	23 11 47.56	-03 58 06.8	589
1991 RN1	1991 09 17.83889	23 11 47.10	-03 58 10.6	589
1991 RN1	1991 09 17.85139	23 11 46.58	-03 58 15.1	589
107	1991 09 16.84028	23 13 01.40	-03 54 28.9	589
107	1991 09 16.85287	23 13 01.05	-03 54 31.4	589
107	1991 09 16.86528	23 13 00.66	-03 54 33.8	589
107	1991 09 17.82639	23 12 24.79	-04 00 29.8	589
107	1991 09 17.83889	23 12 24.37	-04 00 33.3	589
107	1991 09 17.85139	23 12 23.97	-04 00 37.7	589

591 Resse Observatory

N. Ehring, Detmoldstrasse 8, W-3000 Hannover 1, Federal Republic of Germany

25	1991 07 28.91016	21 09 37.75	+28 49 59.0	591
25	1991 07 28.91384	21 09 37.61	+28 49 59.5	591
56	1991 08 17.93328	23 15 33.17	+04 23 46.4	591
56	1991 08 17.93649	23 15 33.11	+04 23 44.5	591
252	1991 08 15.93730	21 22 47.93	-01 26 47.0	591
252	1991 08 15.94116	21 22 47.74	-01 26 49.7	591
266	1991 08 15.88770	19 54 03.57	-00 21 16.5	591
266	1991 08 15.89883	19 54 03.11	-00 21 19.9	591
420	1991 08 17.94898	23 49 58.30	+08 14 13.3	591
420	1991 08 17.96148	23 49 57.98	+08 14 12.2	591
441	1991 08 17.90946	21 35 06.61	-01 57 11.0	591
441	1991 08 17.91666	21 35 06.26	-01 57 13.1	591
675	1991 08 15.96032	23 31 34.57	+13 14 00.5	591
675	1991 08 15.97339	23 31 34.22	+13 14 02.0	591
995	1991 08 15.91017	20 47 43.65	+06 31 38.1	591
995	1991 08 15.92597	20 47 42.87	+06 31 32.9	591

595 Farra d'Isonzo

L. Bittesini, Via dei Conventi 10, I-34070 Farra D'Isonzo (GO), Italy
 Observers G. Lombardi, E. Pettarin, F. Piani
 Measurers L. Bittesini, W. Boschini, G. Lombardi, E. Pettarin, F. Piani
 0.4-m f/4.5 reflector

107	1991 10 03.94236	23 03 16.15	-05 33 47.3	595
107	1991 10 04.93611	23 02 47.06	-05 39 04.0	595
2382	1991 08 06.86458	18 40 18.72	+26 53 37.2	595
2382	1991 08 07.91250	18 39 47.14	+26 55 00.6	595

657 Victoria, Climenhaga Observatory

J. B. Tatum, Dept. of Physics, University of Victoria, P.O. Box 1700,
 Victoria, BC V8W 2Y2, Canada
 Observers J. B. Tatum, D. D. Balam
 0.25-m astrograph, 0.5-m reflector + CCD

1991 BB	1991 09 04.22753	17 23 32.57	+76 23 51.2	657
1991 BB	1991 09 04.23969	17 23 31.67	+76 23 36.6	657
1991 EE	1991 10 01.26997	23 23 03.28	-17 11 33.0	657
1991 EE	1991 10 01.27417	23 23 03.83	-17 11 32.3	657
1991 EE	1991 10 01.27781	23 23 04.31	-17 11 32.9	657

675 Palomar

H. Kosai, National Astronomical Observatory, Mitaka, Tokyo, Japan (1); object originally classified as SN 1950E

E. Helin, MS 183-501, Jet Propulsion Laboratory, Pasadena, CA 91109, U.S.A. (2)

C. Shoemaker, P.O. Box 984, Flagstaff, AZ 86002, U.S.A. (3)

C. J. van Houten, Sterrewacht Leiden, Postbus 9513, NL-2300 RA Leiden, The Netherlands (4)

E. Bowell, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001, U.S.A. (6)

J. Mueller, Palomar Observatory, Palomar Mountain, CA 92060, U.S.A. (7)

9 = 3 + 6

Observers R. Bamberg (2, S), C. Brewer (7, L), S. Cohen (2, S), T. Gehrels (4, L), E. Helin (2, S), H. E. Holt (9, S), T. M. King (9, S), C. T. Kowal (6, L), K. Lawler (9, S), K. Lawrence (2, S), D. H. Levy (3, S), F. J. Mendez (9, S), J. Mueller (7, L), C. M. Olmstead (9, S), P. Rose (2, S), C. S. Shoemaker (3, S), E. M. Shoemaker (3, S), J. Stiffler (9, S), L. A. Zimmerman (9, S)

Measurers J. Alu (2), S. Cohen (2), K. Lawrence (2), T. M. King (3), H. Kosai (A), J. Mueller (7), C. M. Olmstead (9), P. Rose (2), C. S. Shoemaker (3), B. A. Skiff (9), C. J. van Houten (4), I. van Houten-Groeneveld (4), A. Wisse (4)

1.2-m (L) and 0.46-m (S) Schmidt telescopes

1932 CY	1971 05 13.17535	11 51 38.07	+02 33 06.5	4 675
1932 CY	1971 05 14.20694	11 51 41.66	+02 32 20.8	4 675
1932 CY	1971 05 16.31510	11 51 53.19	+02 30 18.0	4 675
1940 ED	1991 09 16.46272	01 25 39.47	+07 55 55.7	9 675
1940 ED	1991 09 16.49449	01 25 38.24	+07 55 46.2	18.5 9 675
1957 VA	1991 05 13.35295	14 50 35.94	-16 36 15.4	17.0 3 675
1964 VT1	1991 09 17.40885	00 33 13.95	-00 47 33.2	9 675
1964 VT1	1991 09 17.45938	00 33 11.58	-00 47 45.8	17.2 9 675
1971 FD	1971 03 25.27326	12 14 56.03	-01 32 41.0	18.6 4 675
1972 RX1	1991 09 10.37515	00 18 47.42	+02 12 31.0	17.5 9 675
1972 RX1	1991 09 10.42622	00 18 45.36	+02 12 09.8	9 675
1972 RX1	1991 09 17.40885	00 14 03.39	+01 20 29.9	9 675
1972 RX1	1991 09 17.45938	00 14 01.05	+01 20 05.9	17.0 9 675
1972 RU3	1971 05 13.17535	11 54 10.43	+03 48 39.1	4 675
1972 RU3	1971 05 14.20694	11 54 01.40	+03 46 45.7	4 675
1972 RU3	1971 05 16.31510	11 53 48.45	+03 42 20.8	4 675
1974 MG	1991 09 13.40370	01 03 10.46	+14 08 34.9	17.5 9 675
1974 MG	1991 09 13.46267	01 03 07.62	+14 08 36.0	9 675
1974 MG	1991 09 15.42644	01 01 33.68	+14 08 45.1	17.5 9 675
1974 MG	1991 09 15.47448	01 01 31.20	+14 08 44.7	9 675
1975 VP	1991 09 11.40625	00 59 58.98	+02 12 56.4	9 675
1975 VP	1991 09 11.46094	00 59 57.27	+02 12 36.5	9 675
1975 VP	1991 09 14.41091	00 58 25.66	+01 53 00.4	17.2 9 675
1975 VP	1991 09 14.46302	00 58 23.70	+01 52 39.4	9 675
1976 UD4	1991 09 10.37515	00 23 32.14	+01 56 01.4	17.2 9 675
1976 UD4	1991 09 10.42622	00 23 29.98	+01 55 42.5	9 675
1976 UD4	1991 09 17.40885	00 18 37.24	+01 11 09.9	9 675
1976 UD4	1991 09 17.45938	00 18 34.84	+01 10 49.5	17.2 9 675
1977 DY8	1991 09 10.37515	00 26 58.16	-01 02 59.3	17.2 9 675
1977 DY8	1991 09 10.42622	00 26 55.33	-01 03 12.1	9 675

1977	DY8	1991	09	17.40885	00	20	39.33	-01	32	32.7		9	675
1977	DY8	1991	09	17.45938	00	20	36.29	-01	32	45.3	17.2	9	675
1977	QD2	1991	09	10.37515	00	29	31.26	+04	48	33.5		9	675
1977	QD2	1991	09	10.42622	00	29	28.74	+04	48	36.6		9	675
1977	QD2	1991	09	17.40885	00	23	36.46	+04	52	45.6		9	675
1977	QD2	1991	09	17.45938	00	23	33.56	+04	52	46.4	17.0	9	675
1978	RZ	1971	05	13.17535	11	40	26.26	+05	55	34.5		4	675
1978	RZ	1971	05	14.20694	11	40	24.74	+05	54	52.8		4	675
1978	RZ	1971	05	16.31510	11	40	25.59	+05	53	06.6		4	675
1978	RD10	1971	05	13.17535	11	45	19.36	+02	39	49.2		4	675
1978	RD10	1971	05	14.20694	11	45	15.54	+02	40	22.3		4	675
1978	SS2	1971	05	13.18941	11	55	45.26	-00	21	30.3		4	675
1978	SS2	1971	05	14.21962	11	55	43.22	-00	18	11.6		4	675
1978	TT2	1971	05	13.17535	12	04	01.90	+01	54	11.3		4	675
1978	TT2	1971	05	13.20278	12	04	01.62	+01	54	09.5		4	675
1978	TT2	1971	05	14.20694	12	03	54.72	+01	53	29.5		4	675
1978	TT2	1971	05	14.23246	12	03	54.59	+01	53	26.3		4	675
1978	TT2	1971	05	16.29774	12	03	44.68	+01	51	33.9		4	675
1978	TT2	1971	05	16.31510	12	03	44.87	+01	51	31.5		4	675
1978	VL5	1991	09	13.40370	01	00	23.79	+15	55	52.7		9	675
1978	VL5	1991	09	13.46267	01	00	21.43	+15	55	45.8		9	675
1978	VL5	1991	09	15.42644	00	59	04.67	+15	51	18.8	16.8	9	675
1978	VL5	1991	09	15.47448	00	59	02.60	+15	51	11.7		9	675
1979	MA4	1971	05	13.18941	12	04	16.03	-00	05	29.7		4	675
1979	MA4	1971	05	13.20278	12	04	15.84	-00	05	28.3		4	675
1979	MA4	1971	05	14.21962	12	04	03.49	-00	03	32.1		4	675
1979	MA4	1971	05	14.23246	12	04	03.30	-00	03	30.9		4	675
1979	MA4	1971	05	16.29774	12	03	41.15	+00	00	03.6		4	675
1979	MS6	1991	09	13.40370	01	00	37.10	+14	10	27.0	18.0	9	675
1979	MS6	1991	09	13.46267	01	00	34.77	+14	10	14.6		9	675
1979	MS6	1991	09	15.42644	00	59	17.70	+14	03	15.8	18.0	9	675
1979	MS6	1991	09	15.47448	00	59	15.71	+14	03	05.1		9	675
1979	QK4	1971	03	24.42015	12	35	03.74	-03	36	53.3		4	675
1979	QK4	1971	03	25.33090	12	34	25.66	-03	32	56.7		4	675
1979	QK4	1971	03	26.29653	12	33	44.94	-03	28	46.9		4	675
1979	QK4	1971	03	26.33611	12	33	43.28	-03	28	34.7	19.2	4	675
1979	QK4	1971	03	27.33854	12	33	01.09	-03	24	15.0		4	675
1979	QK4	1971	04	02.42604	12	28	43.34	-02	57	38.1		4	675
1979	QK4	1971	04	16.22812	12	19	31.75	-02	00	36.5		4	675
1979	QK4	1971	04	16.30139	12	19	28.92	-02	00	19.7		4	675
1979	QK4	1991	09	11.40625	00	51	50.14	+05	18	51.8	17.8	9	675
1979	QK4	1991	09	11.46094	00	51	48.35	+05	18	42.2		9	675
1979	QK4	1991	09	14.41091	00	50	12.13	+05	09	29.1	18.2	9	675
1979	QK4	1991	09	14.46302	00	50	10.29	+05	09	18.8		9	675
1979	SW2	1971	03	24.37118	11	56	39.67	+02	05	10.0		4	675
1979	SW2	1971	03	25.24340	11	55	56.87	+02	06	49.7		4	675
1979	SW2	1971	03	25.28715	11	55	54.72	+02	06	55.7	18.2	4	675
1979	SW2	1971	03	26.25208	11	55	07.40	+02	08	44.3		4	675
1979	SW2	1971	03	27.31181	11	54	15.43	+02	10	41.4		4	675
1979	SU11	1971	05	13.17535	11	44	46.67	+04	55	25.0		4	675
1979	SU11	1971	05	14.20694	11	44	38.94	+04	55	23.5		4	675
1980	RP	1991	10	10.13177	21	53	31.22	-08	13	55.9	16.5	2	675
1980	RP	1991	10	10.15347	21	53	30.98	-08	13	52.8		2	675
1980	RP	1991	10	11.15747	21	53	22.89	-08	08	52.4		2	675
1980	RP	1991	10	11.18125	21	53	22.69	-08	08	45.1		2	675
1980	TW5	1991	10	05.40590	02	18	20.04	+18	59	00.3	17.6	3	675
1980	TW5	1991	10	06.44288	02	17	41.02	+18	56	07.3		3	675
1980	TW5	1991	10	06.47378	02	17	39.93	+18	56	02.1		3	675
1980	TB12	1991	09	13.40370	00	43	12.73	+12	59	00.9	18.0	9	675

1980 TB12	1991 09	13.46267	00 43	10.64	+12 58	44.6		9 675
1980 TB12	1991 09	14.40191	00 42	38.58	+12 54	25.4		9 675
1980 TB12	1991 09	14.45498	00 42	36.61	+12 54	12.0	17.2	9 675
1980 VU1	1971 03	24.42015	12 21	46.05	-02 23	15.7		4 675
1980 VU1	1971 03	25.33090	12 20	57.23	-02 17	24.8		4 675
1980 VU1	1971 03	26.29653	12 20	05.50	-02 11	10.3		4 675
1980 VU1	1971 03	26.33611	12 20	03.27	-02 10	57.5	18.1	4 675
1980 VU1	1971 03	27.33854	12 19	09.38	-02 04	28.2		4 675
1980 VU1	1971 05	13.17535	11 50	39.56	+01 26	45.7		4 675
1980 VU1	1971 05	14.20694	11 50	31.15	+01 28	05.0		4 675
1981 EG1	1991 09	16.46272	01 32	11.71	+08 47	03.1		9 675
1981 EG1	1991 09	16.49449	01 32	10.50	+08 46	59.2	18.2	9 675
1981 EA12	1971 05	13.18941	11 43	56.34	+00 19	03.0		4 675
1981 EA12	1971 05	14.21962	11 44	09.29	+00 19	14.0		4 675
1981 EP19	1971 05	13.17535	11 55	57.48	+02 53	08.2		4 675
1981 EY30	1971 05	13.17535	11 53	41.71	+04 30	22.6		4 675
1981 EY30	1971 05	14.20694	11 53	34.31	+04 31	02.4		4 675
1981 EY30	1971 05	16.31510	11 53	24.44	+04 31	48.0		4 675
1981 GM1	1991 09	10.37515	00 29	14.73	+02 26	26.3	18.5	9 675
1981 GM1	1991 09	10.42622	00 29	11.80	+02 26	22.6		9 675
1981 GM1	1991 09	17.40885	00 22	50.70	+02 17	42.8		9 675
1981 GM1	1991 09	17.45938	00 22	47.72	+02 17	38.8	18.0	9 675
1981 JB3	1991 06	06.41962	18 53	07.38	-28 35	40.3	17.8	3 675
1981 JB3	1991 06	08.38854	18 51	45.78	-28 46	38.7		3 675
1981 RR3	1991 09	10.37515	00 36	14.68	+02 11	11.7		9 675
1981 RR3	1991 09	17.40885	00 32	54.80	+00 58	29.2		9 675
1981 RR3	1991 09	17.45938	00 32	52.97	+00 57	56.7	16.5	9 675
1982 SL6	1991 09	10.37515	00 28	09.62	+01 33	19.2	18.0	9 675
1982 SL6	1991 09	10.42622	00 28	07.21	+01 33	10.5		9 675
1982 SL6	1991 09	17.40885	00 22	36.39	+01 13	52.0		9 675
1982 SL6	1991 09	17.45938	00 22	33.81	+01 13	43.4	17.0	9 675
1983 CM	1991 09	10.40573	01 16	11.88	+06 05	44.1		9 675
1983 CM	1991 09	10.46042	01 16	09.50	+06 05	37.4	18.8	9 675
1983 CM	1991 09	16.46272	01 11	36.68	+05 50	33.3		9 675
1983 CM	1991 09	16.49449	01 11	34.94	+05 50	27.8	18.8	9 675
1983 HJ	1991 09	10.40573	01 22	37.35	+05 48	25.7		9 675
1983 HJ	1991 09	10.46042	01 22	35.72	+05 48	14.1	18.8	9 675
1983 HJ	1991 09	16.46272	01 19	39.78	+05 26	48.5		9 675
1983 HJ	1991 09	16.49449	01 19	38.69	+05 26	41.6	18.8	9 675
1983 JQ	1971 05	13.20278	12 07	58.88	+03 06	04.1		4 675
1983 JQ	1971 05	14.23246	12 07	48.70	+03 06	14.6		4 675
1983 JQ	1971 05	16.29774	12 07	32.51	+03 06	05.0		4 675
1983 PY	1971 04	16.21476	12 22	28.99	-01 18	42.1		4 675
1983 PY	1971 04	16.22812	12 22	28.51	-01 18	35.2		4 675
1983 PY	1971 04	16.27708	12 22	25.86	-01 18	13.8		4 675
1983 PY	1971 04	16.30139	12 22	24.66	-01 17	58.2		4 675
1983 PY	1971 05	13.20278	12 07	41.18	+01 19	50.8	19.0	4 675
1983 PY	1971 05	14.23246	12 07	27.53	+01 23	18.8	19.0	4 675
1983 PY	1971 05	16.29774	12 07	04.96	+01 29	38.7	19.0	4 675
1983 RQ4	1991 09	10.40573	01 22	10.07	+09 48	11.5		9 675
1983 RQ4	1991 09	10.46042	01 22	09.21	+09 47	52.9	17.2	9 675
1983 RQ4	1991 09	16.46272	01 20	18.30	+09 10	27.4		9 675
1983 RQ4	1991 09	16.49449	01 20	17.49	+09 10	13.7	17.2	9 675
1984 SM	1991 09	13.40370	00 43	57.25	+16 34	12.0	17.5	9 675
1984 SM	1991 09	13.46267	00 43	54.58	+16 34	04.6		9 675
1984 SM	1991 09	15.42644	00 42	27.14	+16 29	20.6	17.5	9 675
1984 SM	1991 09	15.47448	00 42	24.81	+16 29	12.6		9 675
1985 CE2	1991 09	11.40625	00 47	30.95	+01 34	03.9	17.5	9 675
1985 CE2	1991 09	11.46094	00 47	28.88	+01 33	42.7		9 675

1985	FD	1991	10	06.41910	02	02	03.06	-10	07	48.4	17.8	3	675
1985	FD	1991	10	06.45139	02	02	01.47	-10	07	59.2			3 675
1985	FD	1991	10	07.42326	02	01	13.88	-10	12	48.1			3 675
1985	HG1	1971	05	13.20278	12	24	54.63	+03	16	19.7	17.5	4	675
1985	HG1	1971	05	14.23246	12	24	55.24	+03	13	27.5	17.5	4	675
1985	HG1	1971	05	16.29774	12	25	02.27	+03	07	05.1	17.5	4	675
1985	JY	1991	05	14.36910	15	17	30.49	-17	44	58.4	17.2	3	675
1985	JY	1991	05	14.39826	15	17	29.09	-17	44	54.4			3 675
1985	JY	1991	05	16.36111	15	15	54.29	-17	40	55.3			3 675
1985	JY	1991	06	07.25469	15	00	25.18	-17	01	35.1	17.8	3	675
1985	JY	1991	06	07.28924	15	00	23.87	-17	01	32.3			3 675
1985	JY	1991	06	09.27743	14	59	20.08	-16	59	05.2			3 675
1985	TW3	1991	06	06.41962	19	00	19.52	-28	29	19.6	16.2	3	675
1985	TW3	1991	06	06.45139	19	00	18.62	-28	29	29.3			3 675
1985	TW3	1991	06	08.38854	18	59	26.92	-28	39	42.0			3 675
1985	TW3	1991	06	08.43871	18	59	25.11	-28	39	56.7			3 675
1985	VN	1971	05	13.18941	12	03	16.84	-04	55	42.5	18.0	4	675
1985	VN	1971	05	14.19427	12	03	05.78	-04	49	56.4	18.5	4	675
1985	VN	1971	05	14.21962	12	03	05.55	-04	49	48.1	18.0	4	675
1985	VN	1971	05	14.24549	12	03	05.31	-04	49	39.8	18.5	4	675
1985	VN	1971	05	16.27535	12	02	47.36	-04	38	31.7	18.5	4	675
1986	AO2	1971	05	13.18941	11	41	37.94	-01	54	17.4			4 675
1986	AO2	1971	05	14.21962	11	41	38.72	-01	55	36.6			4 675
1986	EJ	1991	10	05.30955	23	50	15.77	+18	58	26.0	17.8	3	675
1986	EJ	1991	10	05.34306	23	50	13.33	+18	58	22.1			3 675
1986	EJ	1991	10	06.31667	23	49	05.37	+18	56	19.1			3 675
1986	VF5	1991	09	11.40625	00	38	18.96	+04	02	29.6	17.2	9	675
1986	VF5	1991	09	11.46094	00	38	16.56	+04	02	26.9			9 675
1986	VF5	1991	09	14.41091	00	36	06.60	+03	59	44.1	17.2	9	675
1986	VF5	1991	09	14.46302	00	36	04.17	+03	59	41.3			9 675
1986	VF5	1991	09	17.40885	00	33	46.72	+03	56	16.3			9 675
1986	VF5	1991	09	17.45938	00	33	44.28	+03	56	13.2	17.2	9	675
1986	WP8	1991	09	11.40625	00	56	22.78	+04	08	35.5	18.2	9	675
1986	WP8	1991	09	11.46094	00	56	20.99	+04	08	21.3			9 675
1987	HE1	1991	09	10.40573	01	21	17.81	+04	02	55.0			9 675
1987	HE1	1991	09	10.46042	01	21	15.97	+04	02	33.6	17.8	9	675
1987	SG1	1991	10	10.13177	22	02	49.50	-09	55	54.0	16.5	2	675
1987	SG1	1991	10	10.15347	22	02	50.03	-09	56	03.2			2 675
1987	SG1	1991	10	11.15747	22	03	17.51	-10	02	56.5			2 675
1987	SG1	1991	10	11.18125	22	03	18.07	-10	03	05.1			2 675
1987	ST11	1971	05	13.20278	12	06	56.78	+03	19	27.8			4 675
1987	ST11	1971	05	14.23246	12	06	44.51	+03	17	36.5			4 675
1987	UJ	1991	09	11.40625	00	51	45.41	+07	40	55.7	17.2	9	675
1987	UJ	1991	09	11.46094	00	51	43.27	+07	40	49.2			9 675
1987	UJ	1991	09	14.46302	00	49	48.80	+07	34	48.3	17.2	9	675
1988	BB	1991	09	15.42644	01	02	22.22	+17	16	12.8	18.0	9	675
1988	BB	1991	09	15.47448	01	02	20.39	+17	16	10.6			9 675
1988	BX1	1990	03	30.39427	13	07	52.62	+33	21	36.4	17.7	3	675
1988	BX1	1990	03	30.41753	13	07	52.05	+33	21	39.3			3 675
1988	BX1	1990	04	01.39358	13	06	42.80	+33	25	21.8			3 675
1988	BX1	1990	04	20.32517	12	55	46.75	+33	31	16.5			3 675
1988	BX1	1990	04	20.36441	12	55	45.50	+33	31	14.7			3 675
1988	BL2	1991	10	03.44340	01	15	19.07	-00	31	33.1	16.1	3	675
1988	BL2	1991	10	06.38003	01	12	18.13	-00	28	13.2			3 675
1988	BL2	1991	10	06.41059	01	12	16.15	-00	28	12.1			3 675
1988	EL	1991	10	10.12049	21	50	07.10	-13	47	32.5	16.5	2	675
1988	EL	1991	10	10.14253	21	50	06.66	-13	47	17.3			2 675
1988	EL	1991	10	11.13299	21	49	50.26	-13	35	53.4			2 675
1988	EU	1971	05	13.17535	12	00	45.89	+02	20	08.9			4 675

1988	EU	1971	05	14.20694	12	00	34.87	+02	19	36.5		4	675
1988	EU	1971	05	16.31510	12	00	16.30	+02	18	11.8		4	675
1988	EA2	1971	03	24.37118	12	06	38.15	+02	32	41.6		4	675
1988	EA2	1971	03	25.24340	12	05	51.73	+02	39	49.9		4	675
1988	EA2	1971	03	25.28715	12	05	49.18	+02	40	11.9	17.4	4	675
1988	EA2	1971	03	26.25208	12	04	57.45	+02	47	57.8		4	675
1988	EA2	1971	03	27.31181	12	04	00.59	+02	56	28.9		4	675
1988	EA2	1971	04	02.41285	11	58	44.18	+03	42	59.8		4	675
1988	ER2	1971	03	24.38924	12	13	27.08	-05	10	41.1		4	675
1988	ER2	1971	03	25.27326	12	12	37.90	-05	05	03.3		4	675
1988	ER2	1971	03	25.31562	12	12	35.47	-05	04	47.2	16.6	4	675
1988	ER2	1971	03	26.26771	12	11	42.28	-04	58	38.0		4	675
1988	ER2	1971	03	27.32500	12	10	43.10	-04	51	47.1		4	675
1988	ER2	1971	04	02.40000	12	05	10.73	-04	11	47.5		4	675
1988	ER2	1971	04	16.18087	11	54	46.18	-02	47	58.9		4	675
1988	ER2	1971	04	16.26458	11	54	42.91	-02	47	30.1		4	675
1988	ER2	1971	05	13.18941	11	49	55.50	-01	31	05.6		4	675
1988	ER2	1971	05	14.21962	11	50	11.80	-01	31	04.4		4	675
1988	PL1	1991	10	06.42778	01	34	21.23	+38	03	27.9	17.6	3	675
1988	PL1	1991	10	07.39392	01	33	25.30	+37	54	17.3		3	675
1988	PL1	1991	10	07.42969	01	33	23.09	+37	53	56.1		3	675
1988	TP1	1971	05	13.17535	11	51	15.71	+03	28	38.4		4	675
1988	TP1	1971	05	14.20694	11	51	08.80	+03	28	34.5		4	675
1988	TP1	1971	05	16.31510	11	50	58.45	+03	28	02.6		4	675
1988	VM3	1991	09	10.37515	00	12	43.43	+01	05	49.9		9	675
1988	VM3	1991	09	10.42622	00	12	40.66	+01	05	41.8		9	675
1988	WB	1991	09	12.47793	00	32	22.07	+06	29	26.4		9	675
1988	WB	1991	09	12.50122	00	32	20.99	+06	29	19.2		9	675
1988	WB	1991	09	14.40191	00	30	47.40	+06	21	01.1		9	675
1988	WB	1991	09	14.45498	00	30	44.57	+06	20	46.5	16.8	9	675
1988	WB	1991	09	17.40885	00	28	10.96	+06	06	44.6		9	675
1988	WB	1991	09	17.45938	00	28	08.12	+06	06	28.5	17.0	9	675
1988	XT	1991	09	10.40573	01	31	54.03	+10	52	16.0		9	675
1988	XT	1991	09	10.46042	01	31	52.51	+10	52	07.9	18.8	9	675
1988	XT	1991	09	16.46272	01	28	55.73	+10	36	00.9		9	675
1988	XT	1991	09	16.49449	01	28	54.43	+10	35	54.9	18.8	9	675
1989	CZ	1991	10	10.48559	03	01	00.87	+18	37	49.1	15.5	2	675
1989	CZ	1991	10	10.51684	03	00	59.89	+18	37	52.2		2	675
1989	CZ	1991	10	13.43958	02	59	24.41	+18	40	58.4		2	675
1989	CZ	1991	10	13.46267	02	59	23.45	+18	40	59.5		2	675
1989	CW1	1990	02	20.45208	11	50	31.15	-05	27	22.5	17.9	3	675
1989	CW1	1990	02	20.50868	11	50	29.60	-05	27	14.6		3	675
1989	CW1	1990	02	22.44132	11	49	40.13	-05	24	56.2		3	675
1989	CW1	1990	04	01.32326	11	30	54.88	-04	01	50.7	18.0	3	675
1989	CW1	1990	04	01.35313	11	30	54.02	-04	01	47.4		3	675
1989	CW1	1991	05	14.31441	13	20	36.51	-19	33	58.3	18.0	3	675
1989	CW1	1991	05	17.25243	13	19	29.43	-19	25	19.6		3	675
1989	CW1	1991	05	17.28281	13	19	28.67	-19	25	15.7		3	675
1989	CO3	1991	09	13.40370	01	04	54.84	+10	55	20.2	18.2	9	675
1989	CO3	1991	09	13.46267	01	04	53.29	+10	55	00.8		9	675
1989	CO3	1991	09	15.42644	01	04	01.16	+10	43	49.2		9	675
1989	CJ5	1971	03	24.38924	12	11	00.15	-02	42	51.6		4	675
1989	CJ5	1971	03	25.27326	12	10	10.79	-02	37	51.8		4	675
1989	CJ5	1971	03	25.31562	12	10	08.24	-02	37	36.4	18.9	4	675
1989	CJ5	1971	03	26.26771	12	09	15.30	-02	32	13.7		4	675
1989	CJ5	1971	03	27.32500	12	08	16.23	-02	26	13.2		4	675
1989	CJ5	1971	04	02.40000	12	02	44.32	-01	52	05.0		4	675
1989	CJ5	1971	04	16.18087	11	51	40.87	-00	42	05.9		4	675
1989	CJ5	1971	04	16.26458	11	51	37.20	-00	41	43.7		4	675

1989	CJ5	1971	05	13.18941	11	40	44.74	+00	31	35.0		4	675
1989	CJ5	1971	05	14.21962	11	40	39.49	+00	32	20.3		4	675
1989	CJ5	1991	09	10.37515	00	24	24.99	+04	22	52.9	17.0	9	675
1989	CJ5	1991	09	10.42622	00	24	22.96	+04	22	46.2		9	675
1989	CJ5	1991	09	17.40885	00	19	42.17	+04	04	30.2		9	675
1989	CJ5	1991	09	17.45938	00	19	39.75	+04	04	21.0	16.5	9	675
1989	EL	1991	10	10.48559	03	00	16.05	+21	11	10.4	17.0	2	675
1989	EL	1991	10	10.51684	03	00	14.88	+21	11	03.4		2	675
1989	EL	1991	10	13.43958	02	58	29.87	+21	00	46.8		2	675
1989	EL	1991	10	13.46267	02	58	29.07	+21	00	42.7		2	675
1989	TO11	1990	10	21.43594	03	05	18.09	+09	54	51.4	17.9	3	675
1989	TO11	1990	10	21.48750	03	05	16.66	+09	54	37.6		3	675
1990	DM3	1991	09	10.37515	00	21	31.33	+02	12	41.2	18.2	9	675
1990	DM3	1991	09	10.42622	00	21	28.19	+02	12	31.7		9	675
1990	DM3	1991	09	17.40885	00	14	33.79	+01	51	14.8		9	675
1990	DM3	1991	09	17.45938	00	14	30.62	+01	51	05.5	18.0	9	675
1990	FR1	1991	05	14.42830	17	06	23.02	-07	54	10.7	18.2	3	675
1990	FR1	1991	05	17.43038	17	04	22.50	-07	54	46.4		3	675
1990	FR1	1991	06	06.32205	16	48	48.50	-08	19	06.4	17.9	3	675
1990	FR1	1991	06	08.33472	16	47	08.38	-08	23	45.2		3	675
1990	FR1	1991	06	08.36528	16	47	06.77	-08	23	49.4		3	675
1990	FW1	1971	05	13.17535	11	40	00.65	+04	58	10.9		4	675
1990	FW1	1971	05	14.20694	11	40	14.93	+04	54	33.3		4	675
1990	QB4	1971	05	13.17535	12	03	32.96	+05	02	33.3		4	675
1990	QB4	1971	05	13.20278	12	03	32.54	+05	02	32.6		4	675
1990	QB4	1971	05	14.20694	12	03	26.23	+05	03	10.7		4	675
1990	QB4	1971	05	14.23246	12	03	26.05	+05	03	09.0		4	675
1990	QB4	1971	05	16.29774	12	03	16.31	+05	03	54.7		4	675
1990	QB4	1971	05	16.31510	12	03	16.40	+05	03	55.3		4	675
1991	GW1	1991	05	13.34514	14	47	36.76	-07	53	33.1		3	675
1991	GW1	1991	05	15.36545	14	46	12.23	-07	04	27.5		3	675
1991	PA7	1991	08	06.35503	21	57	51.12	-14	32	41.9	17.0	9	675
1991	PA7	1991	08	06.38698	21	57	49.43	-14	32	47.1		9	675
1991	PL10	1991	08	08.31128	21	43	25.44	-15	05	30.5	17.2	9	675
1991	PL10	1991	08	08.34045	21	43	23.98	-15	05	47.2		9	675
1991	PL17	1991	08	09.37257	22	11	33.12	-05	47	17.0		9	675
1991	QB	1991	08	07.33698	21	55	12.70	-06	31	32.9	16.0	9	675
1991	QB	1991	08	07.36840	21	55	11.00	-06	31	45.8		9	675
1991	QB	1991	08	10.34201	21	52	38.05	-06	52	25.0	15.8	9	675
1991	QB	1991	08	10.37049	21	52	36.49	-06	52	37.7		9	675
1991	QC	1991	08	08.38038	22	37	50.88	-01	54	34.0	16.5	9	675
1991	QC	1991	08	08.41649	22	37	49.42	-01	54	40.1		9	675
1991	QD	1991	08	08.38038	22	51	36.01	-01	57	01.1	16.0	9	675
1991	QD	1991	08	08.41649	22	51	34.61	-01	56	55.2		9	675
1991	RA	1991	10	10.25938	23	42	34.73	+09	14	21.3	16.0	2	675
1991	RA	1991	10	10.28837	23	42	31.77	+09	14	33.5		2	675
1991	RP	1991	08	08.43003	23	02	04.03	+00	43	20.3	16.0	9	675
1991	RP	1991	08	08.46441	23	02	04.11	+00	42	36.2		9	675
1991	RW	1991	10	10.22865	23	53	06.02	-14	43	57.9	17.0	2	675
1991	RW	1991	10	10.25087	23	53	05.28	-14	44	15.9		2	675
1991	RW	1991	10	12.28299	23	52	08.54	-15	11	47.6		2	675
1991	RW	1991	10	12.30660	23	52	07.87	-15	12	07.0		2	675
1991	RO1	1991	09	12.47793	00	38	52.59	+10	27	18.2		9	675
1991	RO1	1991	09	12.50122	00	38	51.59	+10	27	18.0	16.5	9	675
1991	RO1	1991	09	14.40191	00	37	36.08	+10	26	57.6		9	675
1991	RO1	1991	09	14.45498	00	37	33.82	+10	26	57.2	16.8	9	675
1991	RP1	1991	09	13.40370	00	43	44.03	+12	20	44.9	17.5	9	675
1991	RP1	1991	09	13.46267	00	43	40.53	+12	20	59.4		9	675
1991	RP1	1991	09	15.42644	00	41	45.49	+12	28	49.3	17.5	9	675

1991 RP1	1991 09 15.47448	00 41 42.58	+12 28 59.9		9 675
1991 RM2	1991 09 11.40625	00 50 58.35	+01 25 06.9	16.2	9 675
1991 RM2	1991 09 11.46094	00 50 57.23	+01 24 26.2		9 675
1991 RM2	1991 10 11.27378	00 34 43.54	-05 03 09.5	15.0	2 675
1991 RM2	1991 10 11.29844	00 34 42.45	-05 03 26.5		2 675
1991 RM2	1991 10 14.28264	00 32 59.87	-05 35 07.8		2 675
1991 RM2	1991 10 14.30747	00 32 58.88	-05 35 23.6		2 675
1991 RN2	1991 09 11.40625	00 42 15.36	+08 19 21.5	17.2	9 675
1991 RN2	1991 09 11.46094	00 42 13.26	+08 19 00.1		9 675
1991 RN2	1991 09 14.41091	00 40 18.44	+08 00 16.5	17.2	9 675
1991 RN2	1991 09 14.46302	00 40 16.12	+07 59 55.2		9 675
1991 RO2	1991 09 13.40370	00 46 50.32	+10 32 59.8	17.5	9 675
1991 RO2	1991 09 13.46267	00 46 48.73	+10 32 34.7		9 675
1991 RO2	1991 09 15.42644	00 45 59.70	+10 17 57.6		9 675
1991 RO2	1991 09 15.47448	00 45 58.37	+10 17 35.2	17.5	9 675
1991 RS2	1991 09 12.47793	00 23 39.40	+08 35 02.5		9 675
1991 RS2	1991 09 12.50122	00 23 38.36	+08 34 51.9	17.2	9 675
1991 RS2	1991 09 14.40191	00 22 13.15	+08 21 49.5		9 675
1991 RS2	1991 09 14.45498	00 22 10.56	+08 21 28.0	17.8	9 675
1991 RK3	1991 09 12.47793	00 26 40.56	+09 47 36.8		9 675
1991 RK3	1991 09 12.50122	00 26 39.20	+09 47 43.5	17.5	9 675
1991 RK3	1991 09 14.40191	00 24 51.13	+09 54 47.3		9 675
1991 RK3	1991 09 14.45498	00 24 47.91	+09 54 59.2	17.2	9 675
1991 RZ3	1991 09 11.40625	00 47 16.17	+08 59 31.7	18.0	9 675
1991 RZ3	1991 09 11.46094	00 47 13.09	+08 59 39.1		9 675
1991 RZ3	1991 09 14.41091	00 44 19.04	+09 05 03.0	18.2	9 675
1991 RZ3	1991 09 14.46302	00 44 15.73	+09 05 09.1		9 675
1991 RC4	1991 09 11.40625	00 53 03.65	+09 26 48.1	17.8	9 675
1991 RC4	1991 09 11.46094	00 53 01.64	+09 26 35.1		9 675
1991 RC4	1991 09 14.41091	00 51 10.54	+09 14 23.2	17.5	9 675
1991 RC4	1991 09 14.46302	00 51 08.30	+09 14 08.9		9 675
1991 RR4	1991 09 10.40573	01 04 37.69	+10 15 47.3		9 675
1991 RR4	1991 09 10.46042	01 04 36.13	+10 15 50.8	18.0	9 675
1991 RR4	1991 09 13.40370	01 03 07.66	+10 18 15.7	18.0	9 675
1991 RR4	1991 09 13.46267	01 03 05.56	+10 18 17.7		9 675
1991 RR4	1991 09 15.42644	01 01 57.23	+10 18 54.2		9 675
1991 RR4	1991 09 15.47448	01 01 55.35	+10 18 53.2		9 675
1991 RW4	1971 03 24.38924	12 10 46.46	-01 35 16.3		4 675
1991 RW4	1971 03 25.27326	12 09 58.58	-01 32 31.8		4 675
1991 RW4	1971 03 25.31562	12 09 56.25	-01 32 23.7	18.7	4 675
1991 RW4	1971 03 26.26771	12 09 04.73	-01 29 26.4		4 675
1991 RW4	1971 03 27.32500	12 08 07.15	-01 26 10.7		4 675
1991 RW4	1971 04 02.40000	12 02 40.56	-01 07 39.4		4 675
1991 RW4	1971 04 16.18087	11 51 32.84	-00 31 43.3		4 675
1991 RW4	1971 04 16.26458	11 51 29.17	-00 31 32.5		4 675
1991 RW4	1971 05 13.18941	11 39 47.65	-00 13 31.0		4 675
1991 RW4	1971 05 14.21962	11 39 40.24	-00 14 33.8		4 675
1991 RW4	1991 09 10.40573	01 08 10.31	+08 42 36.8		9 675
1991 RW4	1991 09 10.46042	01 08 08.07	+08 42 38.1	18.5	9 675
1991 RW4	1991 09 16.46272	01 03 54.83	+08 43 27.9		9 675
1991 RW4	1991 09 16.49449	01 03 53.34	+08 43 22.0	18.5	9 675
1991 RY4	1991 09 10.40573	01 08 26.22	+09 15 16.4		9 675
1991 RY4	1991 09 10.46042	01 08 24.79	+09 15 06.1	18.2	9 675
1991 RY4	1991 09 16.46272	01 05 36.94	+08 53 46.3		9 675
1991 RY4	1991 09 16.49449	01 05 35.88	+08 53 37.1	18.2	9 675
1991 RZ4	1991 09 10.40573	01 08 49.69	+09 26 13.8		9 675
1991 RZ4	1991 09 10.46042	01 08 47.88	+09 26 02.0	18.0	9 675
1991 RZ4	1991 09 16.46272	01 05 10.75	+09 01 06.8		9 675
1991 RZ4	1991 09 16.49449	01 05 09.48	+09 00 57.0	18.0	9 675

1991 RB5	1991 09 10.40573	01 10 14.44	+10 46 38.6		9 675
1991 RB5	1991 09 10.46042	01 10 12.60	+10 46 45.7	18.5	9 675
1991 RB5	1991 09 13.40370	01 08 32.91	+10 51 57.4	18.0	9 675
1991 RB5	1991 09 13.46267	01 08 30.61	+10 52 01.5		9 675
1991 RB5	1991 09 15.42644	01 07 15.25	+10 54 36.7		9 675
1991 RB5	1991 09 15.47448	01 07 13.18	+10 54 38.3		9 675
1991 RB5	1991 09 16.46272	01 06 32.75	+10 55 41.8		9 675
1991 RB5	1991 09 16.49449	01 06 31.41	+10 55 41.7	18.5	9 675
1991 RC5	1991 09 10.40573	01 11 19.88	+10 12 38.2		9 675
1991 RC5	1991 09 10.46042	01 11 17.97	+10 12 39.3	18.8	9 675
1991 RC5	1991 09 16.46272	01 07 34.01	+10 15 57.3		9 675
1991 RC5	1991 09 16.49449	01 07 32.73	+10 15 57.3	18.8	9 675
1991 RH5	1991 09 11.40625	00 47 16.46	+02 45 16.6	17.8	9 675
1991 RH5	1991 09 11.46094	00 47 14.67	+02 44 57.3		9 675
1991 RH5	1991 09 14.41091	00 45 40.12	+02 27 18.4		9 675
1991 RH5	1991 09 14.46302	00 45 38.39	+02 26 58.9		9 675
1991 RK5	1991 09 11.40625	00 48 05.55	+02 04 57.7	17.0	9 675
1991 RK5	1991 09 11.46094	00 48 03.14	+02 04 56.2		9 675
1991 RK5	1991 09 14.41091	00 45 53.32	+02 02 44.4	17.2	9 675
1991 RK5	1991 09 14.46302	00 45 50.86	+02 02 41.3		9 675
1991 RN5	1991 09 11.40625	00 46 15.97	+01 32 29.5	17.5	9 675
1991 RN5	1991 09 11.46094	00 46 13.99	+01 32 07.3		9 675
1991 RP5	1991 09 17.40885	00 34 59.40	-00 34 48.3	17.8	9 675
1991 RB7	1991 09 17.40885	00 32 40.35	+02 46 06.7		9 675
1991 RB7	1991 09 17.45938	00 32 37.69	+02 46 04.8	17.2	9 675
1991 RD7	1991 09 17.40885	00 29 48.33	+01 39 59.1		9 675
1991 RD7	1991 09 17.45938	00 29 44.74	+01 40 14.1	16.5	9 675
1991 RE7	1991 09 11.40625	00 42 55.47	+02 27 04.1	17.0	9 675
1991 RE7	1991 09 11.46094	00 42 52.76	+02 27 04.9		9 675
1991 RE7	1991 09 14.41091	00 40 27.96	+02 27 42.7	17.2	9 675
1991 RE7	1991 09 14.46302	00 40 25.22	+02 27 43.1		9 675
1991 RE7	1991 09 17.40885	00 37 53.82	+02 27 52.2		9 675
1991 RE7	1991 09 17.45938	00 37 51.14	+02 27 51.9	17.0	9 675
1991 RV7 *	1991 09 12.37795	01 03 26.21	+00 02 55.8	17.8	9 675
1991 RV7	1991 09 12.43078	01 03 24.92	+00 02 25.6		9 675
1991 RV7	1991 09 14.41973	01 02 41.41	-00 17 09.0	17.8	9 675
1991 RV7	1991 09 14.47101	01 02 39.89	-00 17 39.7		9 675
1991 RW7 *	1991 09 12.37795	01 06 28.36	+02 01 17.0	18.0	9 675
1991 RW7	1991 09 12.43078	01 06 26.80	+02 01 01.4		9 675
1991 RW7	1991 09 14.41973	01 05 31.19	+01 51 10.5	18.2	9 675
1991 RW7	1991 09 14.47101	01 05 29.52	+01 50 56.0		9 675
1991 RX7 *	1991 09 12.37795	01 07 50.21	+03 46 48.6	18.0	9 675
1991 RX7	1991 09 12.43078	01 07 48.41	+03 46 34.8		9 675
1991 RX7	1991 09 14.41973	01 06 43.15	+03 37 48.0	17.8	9 675
1991 RX7	1991 09 14.47101	01 06 41.28	+03 37 34.0		9 675
1991 RY7 *	1991 09 12.37795	01 08 07.35	+00 37 27.1	18.2	9 675
1991 RY7	1991 09 12.43078	01 08 06.03	+00 37 15.1		9 675
1991 RY7	1991 09 14.41973	01 07 20.92	+00 29 30.6	18.0	9 675
1991 RY7	1991 09 14.47101	01 07 19.40	+00 29 19.0		9 675
1991 RZ7 *	1991 09 12.37795	01 08 30.02	+04 19 02.1	18.2	9 675
1991 RZ7	1991 09 12.43078	01 08 27.93	+04 18 59.3		9 675
1991 RZ7	1991 09 14.41973	01 07 12.19	+04 16 50.8	17.8	9 675
1991 RZ7	1991 09 14.47101	01 07 10.13	+04 16 45.1		9 675
1991 RA8 *	1991 09 12.37795	01 10 56.48	+03 23 09.9	16.8	9 675
1991 RA8	1991 09 12.43078	01 10 54.13	+03 23 18.7		9 675
1991 RA8	1991 09 14.41973	01 09 28.20	+03 28 34.1	16.5	9 675
1991 RA8	1991 09 14.47101	01 09 25.80	+03 28 42.2		9 675
1991 RB8 *	1991 09 12.37795	01 11 43.51	+02 17 16.1	18.0	9 675
1991 RB8	1991 09 12.43078	01 11 41.34	+02 17 08.5		9 675

1991	RB8		1991	09	14.41973	01	10	24.12	+02	11	34.5	17.5	9	675
1991	RB8		1991	09	14.47101	01	10	21.95	+02	11	26.6		9	675
1991	RC8	*	1991	09	12.37795	01	12	12.22	-00	54	14.9	19.0	9	675
1991	RC8		1991	09	12.43078	01	12	09.83	-00	54	26.7		9	675
1991	RC8		1991	09	14.41973	01	10	47.09	-01	01	47.9	18.5	9	675
1991	RC8		1991	09	14.47101	01	10	44.79	-01	01	58.8		9	675
1991	RD8	*	1991	09	12.37795	01	12	57.69	-00	03	04.4	17.8	9	675
1991	RD8		1991	09	12.43078	01	12	55.52	-00	03	22.1		9	675
1991	RD8		1991	09	14.41973	01	11	37.32	-00	15	14.5	17.5	9	675
1991	RD8		1991	09	14.47101	01	11	35.04	-00	15	33.7		9	675
1991	RE8	*	1991	09	12.37795	01	13	03.27	+01	22	19.0	18.8	9	675
1991	RE8		1991	09	12.43078	01	13	01.46	+01	22	03.9		9	675
1991	RE8		1991	09	14.41973	01	11	53.93	+01	11	50.0	18.2	9	675
1991	RE8		1991	09	14.47101	01	11	51.93	+01	11	33.9		9	675
1991	RF8	*	1991	09	12.37795	01	15	46.53	+01	00	53.3	18.2	9	675
1991	RF8		1991	09	12.43078	01	15	44.92	+01	00	49.6		9	675
1991	RF8		1991	09	14.41973	01	14	47.92	+00	57	53.5	18.2	9	675
1991	RF8		1991	09	14.47101	01	14	46.20	+00	57	49.2		9	675
1991	RG8	*	1991	09	12.37795	01	18	03.46	+03	41	05.8	17.5	9	675
1991	RG8		1991	09	12.43078	01	18	02.11	+03	40	55.9		9	675
1991	RG8		1991	09	14.41973	01	17	12.65	+03	34	27.1	17.8	9	675
1991	RG8		1991	09	14.47101	01	17	11.22	+03	34	17.2		9	675
1991	RH8	*	1991	09	12.37795	01	18	24.90	-00	07	54.9	16.5	9	675
1991	RH8		1991	09	12.43078	01	18	22.72	-00	07	35.1		9	675
1991	RH8		1991	09	14.41973	01	17	04.38	+00	04	12.5	15.5	9	675
1991	RH8		1991	09	14.47101	01	17	02.01	+00	04	30.3		9	675
1991	RJ8	*	1991	09	12.37795	01	19	19.90	-01	02	03.8	18.5	9	675
1991	RJ8		1991	09	12.43078	01	19	18.09	-01	02	10.9		9	675
1991	RJ8		1991	09	14.41973	01	18	12.91	-01	07	02.4	17.2	9	675
1991	RJ8		1991	09	14.47101	01	18	10.95	-01	07	11.2		9	675
1991	RK8	*	1991	09	12.37795	01	19	32.37	-01	11	32.0	18.2	9	675
1991	RK8		1991	09	12.43078	01	19	30.21	-01	11	39.2		9	675
1991	RK8		1991	09	14.41973	01	18	12.03	-01	16	32.3	18.0	9	675
1991	RK8		1991	09	14.47101	01	18	09.72	-01	16	40.9		9	675
1991	RL8	*	1991	09	12.37795	01	20	50.77	+03	43	16.5	18.0	9	675
1991	RL8		1991	09	12.43078	01	20	48.97	+03	43	23.2		9	675
1991	RL8		1991	09	14.41973	01	19	43.76	+03	47	33.2	17.2	9	675
1991	RL8		1991	09	14.47101	01	19	41.79	+03	47	39.9		9	675
1991	RM8	*	1991	09	12.37795	01	21	15.82	+03	21	21.8	17.2	9	675
1991	RM8		1991	09	12.43078	01	21	14.69	+03	21	26.0		9	675
1991	RM8		1991	09	14.41973	01	20	34.67	+03	23	23.5	17.0	9	675
1991	RM8		1991	09	14.47101	01	20	33.36	+03	23	25.9		9	675
1991	RN8	*	1991	09	12.37795	01	22	15.24	+03	20	48.8	18.2	9	675
1991	RN8		1991	09	12.43078	01	22	13.66	+03	20	30.2		9	675
1991	RN8		1991	09	14.41973	01	21	17.70	+03	08	54.1	18.5	9	675
1991	RN8		1991	09	14.47101	01	21	15.85	+03	08	35.3		9	675
1991	RO8	*	1991	09	12.37795	01	23	32.99	+04	37	20.3	17.8	9	675
1991	RO8		1991	09	12.43078	01	23	31.83	+04	36	45.5		9	675
1991	RO8		1991	09	14.41973	01	22	53.08	+04	14	55.3	17.8	9	675
1991	RO8		1991	09	14.47101	01	22	51.82	+04	14	20.7		9	675
1991	RP8	*	1991	09	12.37795	01	26	48.06	+02	49	06.4	18.0	9	675
1991	RP8		1991	09	12.43078	01	26	46.40	+02	48	50.5		9	675
1991	RP8		1991	09	14.41973	01	25	48.54	+02	38	05.4	17.5	9	675
1991	RP8		1991	09	14.47101	01	25	46.85	+02	37	47.9		9	675
1991	RR8	*	1991	09	11.40625	00	37	39.03	+07	34	06.2	18.0	9	675
1991	RR8		1991	09	11.46094	00	37	36.93	+07	33	54.7		9	675
1991	RR8		1991	09	14.41091	00	35	50.82	+07	21	32.7	18.0	9	675
1991	RR8		1991	09	14.46302	00	35	48.74	+07	21	18.9		9	675
1991	RS8	*	1991	09	11.40625	00	38	16.82	+06	34	39.9	17.8	9	675

1991	RS8	1991	09	11.46094	00	38	13.98	+06	34	43.4		9	675		
1991	RS8	1991	09	12.47793	00	37	23.35	+06	35	27.7			9	675	
1991	RS8	1991	09	12.50122	00	37	21.97	+06	35	29.2	17.2		9	675	
1991	RS8	1991	09	14.40191	00	35	43.68	+06	36	30.1			9	675	
1991	RS8	1991	09	14.41091	00	35	43.17	+06	36	30.8	17.5		9	675	
1991	RS8	1991	09	14.45498	00	35	40.68	+06	36	31.5			9	675	
1991	RS8	1991	09	14.46302	00	35	40.27	+06	36	31.9			9	675	
1991	RT8	*	1991	09	11.40625	00	42	04.91	+02	33	59.5	17.5		9	675
1991	RT8		1991	09	11.46094	00	42	03.12	+02	34	17.7			9	675
1991	RT8		1991	09	14.41091	00	40	29.30	+02	50	58.1	18.0		9	675
1991	RT8		1991	09	14.46302	00	40	27.30	+02	51	16.0			9	675
1991	RT8		1991	09	17.40885	00	38	38.10	+03	07	30.8			9	675
1991	RT8		1991	09	17.45938	00	38	36.01	+03	07	46.8	17.8		9	675
1991	RU8	*	1991	09	11.40625	00	42	29.86	+04	21	15.8	18.0		9	675
1991	RU8		1991	09	11.46094	00	42	27.23	+04	21	04.6			9	675
1991	RU8		1991	09	14.41091	00	40	08.64	+04	10	23.0	17.8		9	675
1991	RU8		1991	09	14.46302	00	40	05.90	+04	10	11.5			9	675
1991	RU8		1991	09	17.40885	00	37	37.19	+03	58	24.7			9	675
1991	RU8		1991	09	17.45938	00	37	34.50	+03	58	12.3	18.2		9	675
1991	RV8	*	1991	09	11.40625	00	42	46.50	+04	14	54.4	18.5		9	675
1991	RV8		1991	09	11.46094	00	42	43.78	+04	14	48.5			9	675
1991	RV8		1991	09	14.41091	00	40	16.80	+04	08	23.7	18.2		9	675
1991	RV8		1991	09	14.46302	00	40	13.90	+04	08	16.2			9	675
1991	RW8	*	1991	09	11.40625	00	43	24.08	+07	50	05.7	17.8		9	675
1991	RW8		1991	09	11.46094	00	43	21.35	+07	49	58.2			9	675
1991	RW8		1991	09	14.41091	00	40	54.11	+07	43	50.0	18.0		9	675
1991	RW8		1991	09	14.46302	00	40	51.24	+07	43	42.3			9	675
1991	RX8	*	1991	09	11.40625	00	45	23.81	+04	38	03.6	17.8		9	675
1991	RX8		1991	09	11.46094	00	45	21.49	+04	37	52.9			9	675
1991	RX8		1991	09	14.41091	00	43	20.23	+04	27	44.9	18.0		9	675
1991	RX8		1991	09	14.46302	00	43	17.90	+04	27	33.8			9	675
1991	RY8	*	1991	09	11.40625	00	46	18.22	+03	52	39.8	17.2		9	675
1991	RY8		1991	09	11.46094	00	46	15.89	+03	52	34.6			9	675
1991	RY8		1991	09	14.41091	00	44	11.55	+03	47	50.0	17.2		9	675
1991	RY8		1991	09	14.46302	00	44	09.09	+03	47	44.3			9	675
1991	RZ8	*	1991	09	11.40625	00	49	42.17	+05	55	03.3	18.0		9	675
1991	RZ8		1991	09	11.46094	00	49	40.04	+05	54	52.1			9	675
1991	RZ8		1991	09	14.41091	00	47	46.45	+05	44	36.3	18.2		9	675
1991	RZ8		1991	09	14.46302	00	47	44.07	+05	44	28.9			9	675
1991	RA9	*	1991	09	11.40625	00	50	27.87	+02	24	08.4	18.2		9	675
1991	RA9		1991	09	11.46094	00	50	25.54	+02	23	57.0			9	675
1991	RA9		1991	09	14.41091	00	48	25.19	+02	12	46.7	18.2		9	675
1991	RA9		1991	09	14.46302	00	48	22.85	+02	12	33.6			9	675
1991	RB9	*	1991	09	11.40625	00	50	50.75	+05	04	08.7	18.2		9	675
1991	RB9		1991	09	11.46094	00	50	48.82	+05	03	53.9			9	675
1991	RB9		1991	09	14.41091	00	49	04.87	+04	50	34.5	18.5		9	675
1991	RB9		1991	09	14.46302	00	49	02.85	+04	50	19.3			9	675
1991	RC9	*	1991	09	11.40625	00	51	13.40	+03	02	24.0	17.5		9	675
1991	RC9		1991	09	11.46094	00	51	10.95	+03	02	17.7			9	675
1991	RC9		1991	09	14.41091	00	49	01.78	+02	55	32.8	18.2		9	675
1991	RC9		1991	09	14.46302	00	48	59.18	+02	55	25.4			9	675
1991	RD9	*	1991	09	11.40625	00	51	36.89	+07	06	24.9	18.2		9	675
1991	RD9		1991	09	11.46094	00	51	34.85	+07	06	12.0			9	675
1991	RD9		1991	09	14.41091	00	49	45.21	+06	54	47.5	18.2		9	675
1991	RD9		1991	09	14.46302	00	49	43.15	+06	54	35.3			9	675
1991	RE9	*	1991	09	11.40625	00	52	03.63	+05	34	57.2	17.2		9	675
1991	RE9		1991	09	11.46094	00	52	01.79	+05	34	48.5			9	675
1991	RE9		1991	09	14.41091	00	50	21.95	+05	26	22.5	17.5		9	675
1991	RE9		1991	09	14.46302	00	50	19.90	+05	26	12.8			9	675

1991	RF9	*	1991	09	11.40625	00	54	52.86	+06	53	09.9	17.8	9	675
1991	RF9		1991	09	11.46094	00	54	50.92	+06	52	55.9			9 675
1991	RF9		1991	09	14.41091	00	53	06.10	+06	39	44.9	18.0		9 675
1991	RF9		1991	09	14.46302	00	53	03.98	+06	39	30.2			9 675
1991	RG9	*	1991	09	11.40625	00	55	09.64	+07	55	58.6	17.0		9 675
1991	RG9		1991	09	11.46094	00	55	07.33	+07	55	39.7			9 675
1991	RG9		1991	09	14.41091	00	53	03.57	+07	38	09.1	17.8		9 675
1991	RG9		1991	09	14.46302	00	53	01.16	+07	37	49.9			9 675
1991	RH9	*	1991	09	11.40625	00	56	44.19	+02	16	49.1	18.2		9 675
1991	RH9		1991	09	11.46094	00	56	41.54	+02	16	45.4			9 675
1991	RH9		1991	09	14.41091	00	54	26.90	+02	12	33.3	18.2		9 675
1991	RH9		1991	09	14.46302	00	54	24.26	+02	12	28.4			9 675
1991	RJ9	*	1991	09	11.40625	00	58	56.93	+06	06	09.1	18.0		9 675
1991	RJ9		1991	09	11.46094	00	58	55.59	+06	05	54.9			9 675
1991	RJ9		1991	09	14.41091	00	57	44.80	+05	52	39.7	18.0		9 675
1991	RJ9		1991	09	14.46302	00	57	43.28	+05	52	25.0			9 675
1991	RK9	*	1991	09	11.40625	01	01	06.38	+06	37	22.4	18.2		9 675
1991	RK9		1991	09	11.46094	01	01	05.54	+06	36	42.6			9 675
1991	RK9		1991	09	14.41091	01	00	22.39	+05	59	43.8	18.5		9 675
1991	RK9		1991	09	14.46302	01	00	21.36	+05	59	03.3			9 675
1991	RL9	*	1991	09	11.40625	01	02	02.87	+08	34	06.8	17.5		9 675
1991	RL9		1991	09	11.46094	01	02	01.32	+08	33	55.1			9 675
1991	RL9		1991	09	14.41091	01	00	39.82	+08	22	50.6	18.0		9 675
1991	RL9		1991	09	14.46302	01	00	38.15	+08	22	39.2			9 675
1991	RM9	*	1991	09	11.40625	01	03	15.73	+06	26	45.4	17.8		9 675
1991	RM9		1991	09	11.46094	01	03	13.59	+06	26	27.0			9 675
1991	RM9		1991	09	14.41091	01	01	17.27	+06	08	36.7	17.8		9 675
1991	RM9		1991	09	14.46302	01	01	15.02	+06	08	16.9			9 675
1991	RN9	*	1991	09	11.40625	01	03	55.25	+04	56	28.3	18.0		9 675
1991	RN9		1991	09	11.46094	01	03	53.24	+04	56	30.2			9 675
1991	RN9		1991	09	14.41091	01	02	03.28	+04	56	46.2	18.2		9 675
1991	RN9		1991	09	14.46302	01	02	01.11	+04	56	45.6			9 675
1991	RQ9	*	1991	09	10.37515	00	16	11.24	+04	09	53.7	17.8		9 675
1991	RQ9		1991	09	10.42622	00	16	08.61	+04	09	42.3			9 675
1991	RQ9		1991	09	17.40885	00	10	26.76	+03	42	06.2			9 675
1991	RQ9		1991	09	17.45938	00	10	24.02	+03	41	52.9	17.2		9 675
1991	RR9	*	1991	09	10.37515	00	19	47.10	+03	19	05.0	17.5		9 675
1991	RR9		1991	09	10.42622	00	19	44.80	+03	19	04.1			9 675
1991	RR9		1991	09	17.40885	00	14	40.24	+03	15	49.4			9 675
1991	RR9		1991	09	17.45938	00	14	37.70	+03	15	46.2	17.0		9 675
1991	RS9	*	1991	09	10.37515	00	20	38.83	+02	48	19.5	18.0		9 675
1991	RS9		1991	09	10.42622	00	20	36.44	+02	48	07.8			9 675
1991	RS9		1991	09	17.40885	00	15	11.76	+02	19	40.5			9 675
1991	RS9		1991	09	17.45938	00	15	09.08	+02	19	26.2	17.5		9 675
1991	RT9	*	1991	09	10.37515	00	26	01.55	+05	20	06.8			9 675
1991	RT9		1991	09	10.42622	00	25	59.27	+05	19	59.0			9 675
1991	RT9		1991	09	17.40885	00	20	55.80	+04	58	30.3			9 675
1991	RT9		1991	09	17.45938	00	20	53.23	+04	58	19.1	17.2		9 675
1991	RU9	*	1991	09	10.37515	00	26	51.21	+05	24	30.0			9 675
1991	RU9		1991	09	10.42622	00	26	49.01	+05	24	18.5			9 675
1991	RU9		1991	09	17.40885	00	21	37.62	+04	55	23.8			9 675
1991	RU9		1991	09	17.45938	00	21	34.93	+04	55	10.2	17.5		9 675
1991	RV9	*	1991	09	10.37515	00	29	38.55	+01	35	16.0	18.0		9 675
1991	RV9		1991	09	10.42622	00	29	35.94	+01	35	05.4			9 675
1991	RV9		1991	09	17.40885	00	23	33.69	+01	09	58.6			9 675
1991	RV9		1991	09	17.45938	00	23	30.82	+01	09	47.2	17.5		9 675
1991	RW9	*	1991	09	10.37515	00	30	27.85	+05	47	53.5			9 675
1991	RW9		1991	09	10.42622	00	30	25.93	+05	47	25.6			9 675
1991	RW9		1991	09	17.40885	00	26	11.05	+04	46	24.8			9 675

1991 RX9 *	1991 09 10.37515	00 32 37.39	+05 00 19.5	9 675
1991 RX9	1991 09 10.42622	00 32 35.17	+05 00 13.2	9 675
1991 RX9	1991 09 17.40885	00 27 16.54	+04 40 11.5	9 675
1991 RX9	1991 09 17.45938	00 27 13.95	+04 40 03.1	18.5 9 675
1991 RY9 *	1991 09 12.47793	00 21 12.36	+13 10 52.0	9 675
1991 RY9	1991 09 12.50122	00 21 11.08	+13 10 47.6	9 675
1991 RY9	1991 09 14.40191	00 19 32.92	+13 04 17.6	9 675
1991 RY9	1991 09 14.45498	00 19 30.01	+13 04 06.9	16.8 9 675
1991 RZ9 *	1991 09 12.47793	00 23 40.07	+06 39 48.5	9 675
1991 RZ9	1991 09 12.50122	00 23 39.15	+06 39 34.4	9 675
1991 RZ9	1991 09 14.40191	00 22 34.60	+06 23 42.1	9 675
1991 RZ9	1991 09 14.45498	00 22 32.69	+06 23 15.9	17.2 9 675
1991 RA10*	1991 09 12.47793	00 24 30.86	+12 54 47.3	9 675
1991 RA10	1991 09 12.50122	00 24 29.69	+12 54 40.5	9 675
1991 RA10	1991 09 14.40191	00 22 57.80	+12 47 25.6	9 675
1991 RA10	1991 09 14.45498	00 22 55.13	+12 47 16.6	9 675
1991 RB10*	1991 09 12.47793	00 29 06.85	+11 27 28.0	9 675
1991 RB10	1991 09 12.50122	00 29 05.65	+11 27 25.5	17.8 9 675
1991 RB10	1991 09 14.40191	00 27 34.70	+11 24 16.0	9 675
1991 RB10	1991 09 14.45498	00 27 31.92	+11 24 11.3	17.5 9 675
1991 RC10*	1991 09 12.47793	00 29 21.82	+06 47 30.1	9 675
1991 RC10	1991 09 12.50122	00 29 20.63	+06 47 29.6	17.8 9 675
1991 RC10	1991 09 14.40191	00 27 53.67	+06 46 32.7	9 675
1991 RC10	1991 09 14.45498	00 27 51.03	+06 46 30.3	9 675
1991 RD10*	1991 09 12.47793	00 29 37.34	+10 45 05.3	9 675
1991 RD10	1991 09 12.50122	00 29 36.21	+10 45 04.3	18.5 9 675
1991 RD10	1991 09 14.40191	00 28 17.72	+10 42 33.8	9 675
1991 RD10	1991 09 14.45498	00 28 15.24	+10 42 29.4	17.8 9 675
1991 RE10*	1991 09 12.47793	00 29 47.92	+13 08 07.1	9 675
1991 RE10	1991 09 12.50122	00 29 46.83	+13 08 07.1	17.5 9 675
1991 RE10	1991 09 14.40191	00 28 23.94	+13 06 31.6	9 675
1991 RE10	1991 09 14.45498	00 28 21.44	+13 06 29.7	17.5 9 675
1991 RF10*	1991 09 12.47793	00 32 20.20	+12 12 52.2	9 675
1991 RF10	1991 09 12.50122	00 32 19.31	+12 12 43.6	17.2 9 675
1991 RF10	1991 09 14.40191	00 31 10.19	+12 02 04.1	9 675
1991 RF10	1991 09 14.45498	00 31 08.13	+12 01 46.5	17.2 9 675
1991 RG10*	1991 09 12.47793	00 36 47.38	+08 52 30.5	9 675
1991 RG10	1991 09 12.50122	00 36 46.56	+08 52 23.6	17.0 9 675
1991 RG10	1991 09 14.40191	00 35 39.97	+08 43 09.6	9 675
1991 RG10	1991 09 14.45498	00 35 37.89	+08 42 54.4	17.8 9 675
1991 RH10*	1991 09 12.47793	00 38 43.12	+11 02 04.3	9 675
1991 RH10	1991 09 12.50122	00 38 42.22	+11 02 02.6	17.2 9 675
1991 RH10	1991 09 14.40191	00 37 29.86	+10 59 01.9	9 675
1991 RH10	1991 09 14.45498	00 37 27.68	+10 58 58.1	17.2 9 675
1991 RJ10*	1991 09 10.40573	01 09 25.67	+06 47 30.9	9 675
1991 RJ10	1991 09 10.46042	01 09 24.08	+06 47 22.2	17.8 9 675
1991 RJ10	1991 09 16.46272	01 06 19.83	+06 30 51.5	9 675
1991 RJ10	1991 09 16.49449	01 06 18.66	+06 30 45.5	17.8 9 675
1991 RK10*	1991 09 10.40573	01 09 33.83	+07 18 55.6	9 675
1991 RK10	1991 09 10.46042	01 09 32.77	+07 18 23.1	18.0 9 675
1991 RK10	1991 09 16.46272	01 07 24.97	+06 16 19.7	9 675
1991 RK10	1991 09 16.49449	01 07 24.09	+06 15 58.5	18.0 9 675
1991 RL10*	1991 09 10.40573	01 10 47.65	+07 31 20.1	9 675
1991 RL10	1991 09 10.46042	01 10 45.97	+07 31 14.0	19.0 9 675
1991 RL10	1991 09 16.46272	01 07 55.77	+07 20 43.0	9 675
1991 RL10	1991 09 16.49449	01 07 54.63	+07 20 38.8	19.0 9 675
1991 RM10*	1991 09 10.40573	01 10 59.73	+06 50 27.5	9 675
1991 RM10	1991 09 10.46042	01 10 58.43	+06 50 15.7	17.8 9 675
1991 RM10	1991 09 16.46272	01 08 12.39	+06 29 31.3	9 675

1991 RM10	1991 09 16.49449	01 08 11.31	+06 29 21.6	17.8	9 675
1991 RN10*	1991 09 10.40573	01 11 10.39	+08 09 05.9		9 675
1991 RN10	1991 09 10.46042	01 11 08.56	+08 09 04.6	17.2	9 675
1991 RN10	1991 09 16.46272	01 07 35.80	+08 05 23.7		9 675
1991 RN10	1991 09 16.49449	01 07 34.64	+08 05 24.4	17.2	9 675
1991 RO10*	1991 09 10.40573	01 14 59.97	+07 02 02.8		9 675
1991 RO10	1991 09 10.46042	01 14 57.94	+07 02 03.0	19.0	9 675
1991 RO10	1991 09 16.46272	01 11 09.02	+07 01 14.7		9 675
1991 RO10	1991 09 16.49449	01 11 07.55	+07 01 14.9	19.0	9 675
1991 RP10*	1991 09 10.40573	01 20 31.58	+12 07 07.3		9 675
1991 RP10	1991 09 10.46042	01 20 29.99	+12 07 01.5	18.2	9 675
1991 RP10	1991 09 16.46272	01 17 34.18	+11 54 35.4		9 675
1991 RP10	1991 09 16.49449	01 17 33.00	+11 54 28.2	18.2	9 675
1991 RQ10*	1991 09 10.40573	01 20 36.86	+08 18 04.9		9 675
1991 RQ10	1991 09 10.46042	01 20 34.81	+08 17 58.7	17.8	9 675
1991 RQ10	1991 09 16.46272	01 16 32.86	+08 04 27.9		9 675
1991 RQ10	1991 09 16.49449	01 16 31.40	+08 04 23.3	17.8	9 675
1991 RR10*	1991 09 10.40573	01 21 30.12	+08 49 53.4		9 675
1991 RR10	1991 09 10.46042	01 21 28.48	+08 49 59.9	18.5	9 675
1991 RR10	1991 09 16.46272	01 18 05.60	+09 00 41.4		9 675
1991 RR10	1991 09 16.49449	01 18 04.29	+09 00 43.9	18.5	9 675
1991 RS10*	1991 09 10.40573	01 21 51.81	+10 12 54.2		9 675
1991 RS10	1991 09 10.46042	01 21 49.92	+10 13 05.1	18.8	9 675
1991 RS10	1991 09 16.46272	01 18 03.12	+10 31 35.6		9 675
1991 RS10	1991 09 16.49449	01 18 01.64	+10 31 39.1	18.8	9 675
1991 RT10*	1991 09 10.40573	01 21 55.64	+11 46 23.6		9 675
1991 RT10	1991 09 10.46042	01 21 54.05	+11 46 22.0	18.5	9 675
1991 RT10	1991 09 16.46272	01 18 46.06	+11 44 19.6		9 675
1991 RT10	1991 09 16.49449	01 18 45.04	+11 44 17.8	18.5	9 675
1991 RU10*	1991 09 10.40573	01 22 38.68	+11 07 25.7		9 675
1991 RU10	1991 09 10.46042	01 22 37.40	+11 07 36.4	18.2	9 675
1991 RU10	1991 09 16.46272	01 19 56.35	+11 25 20.5		9 675
1991 RU10	1991 09 16.49449	01 19 55.28	+11 25 19.6	18.2	9 675
1991 RV10*	1991 09 10.40573	01 23 16.29	+05 12 21.0		9 675
1991 RV10	1991 09 10.46042	01 23 14.88	+05 12 14.2	18.5	9 675
1991 RV10	1991 09 16.46272	01 20 20.11	+04 58 57.1		9 675
1991 RV10	1991 09 16.49449	01 20 18.98	+04 58 52.8	18.5	9 675
1991 RW10*	1991 09 10.40573	01 24 17.23	+11 00 02.8		9 675
1991 RW10	1991 09 10.46042	01 24 15.31	+10 59 55.0	19.0	9 675
1991 RW10	1991 09 16.46272	01 20 41.13	+10 44 15.3		9 675
1991 RW10	1991 09 16.49449	01 20 39.83	+10 44 10.5	19.0	9 675
1991 RX10*	1991 09 10.40573	01 24 32.47	+11 46 06.4		9 675
1991 RX10	1991 09 10.46042	01 24 30.47	+11 46 21.6	19.0	9 675
1991 RX10	1991 09 16.46272	01 20 17.67	+12 12 44.2		9 675
1991 RX10	1991 09 16.49449	01 20 15.99	+12 12 52.7	19.0	9 675
1991 RY10*	1991 09 10.40573	01 27 30.67	+04 58 51.2		9 675
1991 RY10	1991 09 10.46042	01 27 29.76	+04 58 53.2		9 675
1991 RY10	1991 09 16.46272	01 25 25.66	+04 58 50.2		9 675
1991 RY10	1991 09 16.49449	01 25 24.73	+04 58 48.8	19.0	9 675
1991 RZ10*	1991 09 10.40573	01 34 20.09	+05 56 38.8		9 675
1991 RZ10	1991 09 10.46042	01 34 18.93	+05 56 29.9	19.0	9 675
1991 RZ10	1991 09 16.46272	01 31 47.67	+05 38 40.9		9 675
1991 RZ10	1991 09 16.49449	01 31 46.75	+05 38 35.2	19.0	9 675
1991 RA11*	1991 09 10.40573	01 36 49.41	+07 39 25.2		9 675
1991 RA11	1991 09 10.46042	01 36 47.72	+07 39 27.3	18.2	9 675
1991 RA11	1991 09 16.46272	01 33 30.09	+07 42 53.0		9 675
1991 RA11	1991 09 16.49449	01 33 28.89	+07 42 54.6	18.2	9 675
1991 RB11*	1991 09 10.40573	01 37 19.39	+08 45 55.2		9 675
1991 RB11	1991 09 10.46042	01 37 18.31	+08 45 45.4		9 675

1991 RB11	1991 09 16.46272	01 35 17.98	+08 29 00.9		9 675
1991 RB11	1991 09 16.49449	01 35 17.18	+08 28 55.2	18.0	9 675
1991 RC11*	1991 09 13.40370	00 41 02.95	+15 30 43.9	17.8	9 675
1991 RC11	1991 09 13.46267	00 41 01.17	+15 30 10.6		9 675
1991 RC11	1991 09 15.42644	00 40 02.67	+15 10 55.1		9 675
1991 RC11	1991 09 15.47448	00 40 01.12	+15 10 25.9		9 675
1991 RD11*	1991 09 13.40370	00 46 53.54	+14 22 25.5	18.8	9 675
1991 RD11	1991 09 13.46267	00 46 51.06	+14 22 36.5		9 675
1991 RD11	1991 09 15.42644	00 45 29.34	+14 28 28.3		9 675
1991 RD11	1991 09 15.47448	00 45 27.15	+14 28 36.4		9 675
1991 RE11*	1991 09 13.40370	00 47 12.97	+14 01 27.8	18.0	9 675
1991 RE11	1991 09 13.46267	00 47 10.60	+14 01 28.5		9 675
1991 RE11	1991 09 15.42644	00 45 52.85	+14 01 03.7		9 675
1991 RE11	1991 09 15.47448	00 45 50.77	+14 01 02.1	18.0	9 675
1991 RF11*	1991 09 13.40370	00 54 22.03	+12 02 07.5	18.2	9 675
1991 RF11	1991 09 13.46267	00 54 19.95	+12 02 12.5		9 675
1991 RF11	1991 09 15.42644	00 53 11.83	+12 04 34.3	18.0	9 675
1991 RF11	1991 09 15.47448	00 53 09.95	+12 04 37.1		9 675
1991 RG11*	1991 09 13.40370	01 03 08.88	+12 22 36.2	18.2	9 675
1991 RG11	1991 09 13.46267	01 03 06.11	+12 22 37.1		9 675
1991 RG11	1991 09 15.42644	01 01 35.18	+12 22 43.2	18.2	9 675
1991 RG11	1991 09 15.47448	01 01 32.73	+12 22 42.3		9 675
1991 RH11*	1991 09 13.40370	01 04 32.89	+13 06 01.8	18.5	9 675
1991 RH11	1991 09 13.46267	01 04 31.77	+13 05 50.2		9 675
1991 RH11	1991 09 15.42644	01 03 55.24	+12 58 54.2	18.2	9 675
1991 RH11	1991 09 15.47448	01 03 54.16	+12 58 43.1		9 675
1991 SB	1991 09 11.40625	00 46 07.94	+07 40 45.0	17.8	9 675
1991 SB	1991 09 11.46094	00 46 05.91	+07 40 29.8		9 675
1991 SB	1991 09 12.47793	00 45 31.24	+07 36 09.3		9 675
1991 SB	1991 09 12.50122	00 45 30.39	+07 36 04.8	17.5	9 675
1991 SB	1991 09 14.40191	00 44 21.66	+07 27 21.4		9 675
1991 SB	1991 09 14.41091	00 44 21.35	+07 27 18.3	17.5	9 675
1991 SB	1991 09 14.45498	00 44 19.54	+07 27 07.0	17.8	9 675
1991 SB	1991 09 14.46302	00 44 19.28	+07 27 03.9		9 675
1991 SC1	1991 10 11.20747	23 07 11.88	-18 10 51.1	17	2 675
1991 SC1	1991 10 11.22899	23 07 11.13	-18 10 47.0		2 675
1991 SC1	1991 10 13.19271	23 06 12.93	-18 05 20.7		2 675
1991 SC1	1991 10 13.21701	23 06 12.09	-18 05 18.1		2 675
1991 SJ1	1991 09 12.37795	01 08 39.79	-00 19 07.9	18.0	9 675
1991 SJ1	1991 09 12.43078	01 08 38.18	-00 19 38.2		9 675
1991 SJ1	1991 09 14.41973	01 07 40.48	-00 39 00.8	17.5	9 675
1991 SJ1	1991 09 14.47101	01 07 38.80	-00 39 31.4		9 675
1991 SJ1 *	1991 09 16.39935	01 06 38.40	-00 58 45.2	17.0	9 675
1991 SJ1	1991 09 16.43946	01 06 37.05	-00 59 09.7		9 675
1991 SL1	1991 09 10.40573	01 29 30.93	+07 33 53.7		9 675
1991 SL1	1991 09 10.46042	01 29 29.19	+07 33 51.7	18.0	9 675
1991 SL1	1991 09 16.46272	01 25 55.77	+07 28 13.6		9 675
1991 SL1	1991 09 16.49449	01 25 54.37	+07 28 11.5	18.0	9 675
1991 SM1	1991 09 10.40573	01 26 35.38	+12 20 59.3		9 675
1991 SM1	1991 09 10.46042	01 26 34.06	+12 20 51.0	17.5	9 675
1991 SM1	1991 09 16.46272	01 24 09.87	+12 06 08.7		9 675
1991 SM1	1991 09 16.49449	01 24 08.92	+12 06 03.2	17.5	9 675
1991 SN1	1991 09 16.46272	01 23 49.07	+12 08 52.8		9 675
1991 SN1	1991 09 16.49449	01 23 48.38	+12 08 41.1	17.8	9 675
1991 SR1	1991 09 13.40370	00 41 46.14	+14 41 17.6	17.2	9 675
1991 SR1	1991 09 13.46267	00 41 44.32	+14 40 47.9		9 675
1991 SR1	1991 09 15.42644	00 40 45.82	+14 23 46.5	17.2	9 675
1991 SR1	1991 09 15.47448	00 40 44.24	+14 23 20.4		9 675
1991 TF	1991 10 11.31684	01 03 13.26	-05 25 44.7	16.0	2 675

1991 TF	1991 10	11.33915	01 03	12.59	-05 26	04.4		2	675
1991 TF	1991 10	14.36510	01 01	35.57	-06 10	28.8		2	675
1991 TF	1991 10	14.38854	01 01	34.52	-06 10	48.4		2	675
1991 TG	1991 10	11.31684	01 11	03.76	-07 14	37.9	16.5	2	675
1991 TG	1991 10	11.33915	01 11	02.94	-07 15	20.7		2	675
1991 TG	1991 10	14.36510	01 09	29.60	-08 52	19.1		2	675
1991 TG	1991 10	14.38854	01 09	28.75	-08 53	03.0		2	675
1991 TV	1991 09	10.40573	01 10	18.37	+08 48	03.1		9	675
1991 TV	1991 09	10.46042	01 10	14.48	+08 48	54.3	17.2	9	675
1991 TV	1991 09	16.46272	01 07	40.30	+07 54	21.7		9	675
1991 TV	1991 09	16.49449	01 07	39.22	+07 54	03.5	17.2	9	675
1991 TA1 *	1991 10	05.32604	00 36	43.06	+17 33	00.4	15.5	3	675
1991 TA1	1991 10	05.35902	00 36	41.60	+17 31	55.9		3	675
1991 TA1	1991 10	07.34618	00 35	16.90	+16 27	02.9		3	675
1991 TA1	1991 10	07.37586	00 35	15.49	+16 26	02.9		3	675
1991 TA1	1991 10	08.24271	00 34	39.57	+15 57	22.3		3	675
1991 TA1	1991 10	13.28368	00 31	17.03	+13 07	33.1	15.0	2	675
1991 TA1	1991 10	13.30712	00 31	16.01	+13 06	46.5		2	675
1991 TA1	1991 10	14.25920	00 30	40.72	+12 34	27.5		2	675
1991 TA1	1991 10	14.31337	00 30	38.40	+12 32	36.7		2	675
1991 TB1	1991 10	02.33594	00 14	39.64	+04 32	18.7	18	3	675
1991 TB1	1991 10	02.36822	00 14	32.20	+04 33	19.5		3	675
1991 TB1 *	1991 10	10.25938	23 41	23.60	+09 10	13.3	17.0	2	675
1991 TB1	1991 10	10.28837	23 41	15.62	+09 11	16.8		2	675
1991 TB1	1991 10	11.16927	23 37	22.58	+09 43	30.9		2	675
1991 TB1	1991 10	11.19306	23 37	16.13	+09 44	22.5		2	675
1991 TB1	1991 10	11.35087	23 36	32.79	+09 50	08.1		2	675
1991 TB1	1991 10	12.26892	23 32	28.16	+10 23	49.5		2	675
1991 TB1	1991 10	13.25000	23 28	05.60	+10 59	52.5		2	675
1991 TB1	1991 10	14.22500	23 23	44.42	+11 35	38.8		2	675
1991 TB1	1991 10	14.24792	23 23	38.32	+11 36	28.1		2	675
1991 TD1	1991 10	13.48681	03 22	57.96	-01 13	37.0	16.0	2	675
1991 TD1	1991 10	13.51094	03 22	57.47	-01 14	20.8		2	675
1991 TD1	1991 10	14.47882	03 22	42.21	-01 43	47.6		2	675
1991 TH1 *	1991 10	12.38333	01 09	06.33	+08 04	07.2	15.5	2	675
1991 TH1	1991 10	12.40521	01 09	04.07	+08 04	25.9		2	675
1991 TH1	1991 10	14.37101	01 05	38.42	+08 34	55.8		2	675
1991 TH1	1991 10	14.39444	01 05	35.78	+08 35	17.7		2	675
1991 TK1 *	1991 10	05.31806	00 00	49.79	+28 07	26.7	17.5	3	675
1991 TK1	1991 10	05.35104	00 00	46.48	+28 07	37.2		3	675
1991 TK1	1991 10	07.33472	23 57	33.16	+28 17	27.9		3	675
1991 TL1 *	1991 10	10.47135	02 36	17.71	+06 33	31.5	15.0	2	675
1991 TL1	1991 10	10.50521	02 36	16.96	+06 32	48.7		2	675
1991 TL1	1991 10	12.48785	02 35	41.71	+05 49	06.5		2	675
1991 TL1	1991 10	12.51111	02 35	41.18	+05 48	35.1		2	675
1991 TP1	1991 09	13.40370	01 07	00.25	+13 28	58.3	17.5	9	675
1991 TP1	1991 09	13.46267	01 06	58.18	+13 28	43.4		9	675
1991 TP1	1991 09	15.42644	01 05	50.61	+13 20	11.9	17.2	9	675
1991 TP1	1991 09	15.47448	01 05	48.76	+13 19	58.2		9	675
1991 TQ1 *	1991 10	10.32535	00 42	21.18	-04 22	42.1	15.5	2	675
1991 TQ1	1991 10	10.34757	00 42	18.87	-04 22	22.1		2	675
1991 TQ1	1991 10	13.28941	00 37	17.45	-03 37	14.7		2	675
1991 TQ1	1991 10	13.31267	00 37	14.98	-03 36	52.2		2	675
1991 TR1 *	1991 10	13.42865	02 51	14.13	+25 29	37.4	16.5	2	675
1991 TR1	1991 10	13.45104	02 51	13.21	+25 29	10.4		2	675
1991 TR1	1991 10	14.43819	02 50	38.15	+25 09	39.4		2	675
1991 TS1 *	1991 10	10.33125	00 37	22.73	+24 35	23.9	16.0	2	675
1991 TS1	1991 10	10.35347	00 37	20.11	+24 35	31.9		2	675
1991 TS1	1991 10	12.34566	00 33	26.73	+24 47	24.5		2	675

1991	TS1		1991	10	12.36979	00	33	23.66	+24	47	33.2		2	675
1991	TT1	*	1991	10	10.41146	02	10	39.23	-08	37	24.5	16.0	2	675
1991	TT1		1991	10	10.43559	02	10	38.04	-08	37	50.2		2	675
1991	TT1		1991	10	13.34931	02	08	33.72	-09	26	43.2		2	675
1991	TT1		1991	10	13.37361	02	08	32.72	-09	27	05.9		2	675
1991	TU1		1991	09	15.42644	00	51	48.91	+12	23	50.6	17.8	9	675
1991	TU1		1991	09	15.47448	00	51	46.38	+12	23	47.9		9	675
1991	TY1	*	1991	10	10.41146	01	44	29.64	-06	43	37.4	16.5	2	675
1991	TY1		1991	10	10.43559	01	44	28.79	-06	43	58.3		2	675
1991	TY1		1991	10	13.34931	01	43	02.71	-07	25	25.2		2	675
1991	TY1		1991	10	13.37361	01	43	01.91	-07	25	44.3		2	675
1991	TZ1	*	1991	10	10.36007	01	21	38.00	-14	53	24.9	16.5	2	675
1991	TZ1		1991	10	10.38524	01	21	36.61	-14	54	01.5		2	675
1991	TZ1		1991	10	13.29549	01	18	58.09	-16	08	36.4		2	675
1991	TZ1		1991	10	13.31858	01	18	56.81	-16	09	13.6		2	675
1991	TA2	*	1991	10	10.36007	01	22	28.28	-15	08	47.7	16.0	2	675
1991	TA2		1991	10	10.38524	01	22	27.23	-15	08	58.0		2	675
1991	TA2		1991	10	13.29549	01	20	15.41	-15	30	31.5		2	675
1991	TA2		1991	10	13.31858	01	20	14.42	-15	30	41.5		2	675
1991	TB2	*	1991	10	03.22778	23	06	28.16	+21	42	59.6	17.5	7	675
1991	TB2		1991	10	03.27292	23	06	15.25	+21	42	49.3		7	675
1991	TB2		1991	10	04.25156	23	01	25.07	+21	37	53.4	18	3	675
1991	TB2		1991	10	04.28160	23	01	15.64	+21	37	44.1		3	675
1991	TB2		1991	10	06.24010	22	51	04.90	+21	24	15.0		3	675
1991	TB2		1991	10	06.28299	22	50	50.78	+21	23	53.0		3	675
1991	TC2	*	1991	10	10.27344	00	29	09.99	-15	17	10.2	16.5	2	675
1991	TC2		1991	10	10.30174	00	29	06.80	-15	16	46.1		2	675
1991	TC2		1991	10	12.29497	00	25	23.89	-14	50	21.4		2	675
1991	TC2		1991	10	12.31840	00	25	21.13	-14	50	00.3		2	675
1991	TK2	*	1991	10	10.16649	22	23	09.77	-02	24	28.3	16.5	2	675
1991	TK2		1991	10	10.19167	22	23	12.23	-02	24	52.2		2	675
1991	TK2		1991	10	11.11997	22	24	47.66	-02	40	12.4	16	2	675
1991	TK2		1991	10	11.14531	22	24	50.14	-02	40	38.1		2	675
1991	TK2		1991	10	12.14497	22	26	34.30	-02	56	42.2		2	675
1991	TK2		1991	10	12.17101	22	26	36.88	-02	57	06.7		2	675
1991	TK2		1991	10	13.18559	22	28	22.29	-03	12	42.2		2	675
1991	TK2		1991	10	13.21076	22	28	24.77	-03	13	04.5		2	675
1991	TL2	*	1991	10	05.25608	23	17	09.11	+27	25	13.2	17.6	3	675
1991	TL2		1991	10	05.28646	23	17	08.07	+27	24	56.7		3	675
1991	TL2		1991	10	06.34253	23	16	36.68	+27	15	01.9		3	675
1991	TF3	*	1991	10	02.34600	00	22	18.00	+06	36	23.0	16.7	3	675
1991	TF3		1991	10	02.37517	00	22	13.89	+06	38	57.2		3	675
1991	TF3		1991	10	07.27482	00	14	55.56	+12	25	16.6	17	3	675
1991	TF3		1991	10	07.31545	00	14	51.87	+12	27	31.3		3	675
1991	TF3		1991	10	12.28941	00	10	13.72	+16	13	04.2	17.0	2	675
1991	TF3		1991	10	12.31233	00	10	12.38	+16	13	55.2		2	675
1991	TC4	*	1991	10	10.41146	01	59	43.85	-04	27	19.8	16.0	2	675
1991	TC4		1991	10	10.43559	01	59	42.54	-04	27	38.8		2	675
1991	TC4		1991	10	13.34931	01	57	37.86	-05	01	12.6		2	675
1991	TC4		1991	10	13.37361	01	57	36.79	-05	01	28.9		2	675
1991	TD4	*	1991	10	10.41146	02	06	37.50	-04	34	59.5	16.5	2	675
1991	TD4		1991	10	10.43559	02	06	36.28	-04	35	24.1		2	675
1991	TD4		1991	10	13.34931	02	04	42.13	-05	21	57.6		2	675
1991	TD4		1991	10	13.37361	02	04	41.10	-05	22	18.7		2	675
1991	TE4	*	1991	10	10.48559	02	46	10.59	+20	38	12.4	16.5	2	675
1991	TE4		1991	10	10.51684	02	46	08.86	+20	38	28.2		2	675
1991	TE4		1991	10	13.43958	02	43	33.05	+21	00	52.1		2	675
1991	TE4		1991	10	13.46267	02	43	31.62	+21	01	02.2		2	675
1991	TF4	*	1991	10	10.48559	03	00	23.90	+18	52	48.1	16.0	2	675

1991	TF4	1991	10	10.51684	03	00	22.91	+18	52	50.1	2	675
1991	TF4	1991	10	13.43958	02	58	54.39	+18	54	32.1	2	675
1991	TF4	1991	10	13.46267	02	58	53.51	+18	54	32.5	2	675
1991	TG4	* 1991	10	13.38003	01	18	10.84	+22	26	45.8	16.0	2 675
1991	TG4	1991	10	13.40365	01	18	09.40	+22	26	22.7	2	675
1991	TG4	1991	10	14.38247	01	17	11.80	+22	08	50.8	2	675
1991	TG4	1991	10	14.40608	01	17	10.28	+22	08	25.3	2	675
4100	P-L	* 1960	09	24.37573	00	20	45.30	+07	11	11.2	19.6	4 675
4100	P-L	1960	09	25.42780	00	19	42.38	+07	09	03.3	4	675
4100	P-L	1960	09	26.30558	00	18	50.05	+07	07	13.9	4	675
4100	P-L	1960	09	28.36808	00	16	46.30	+07	02	44.8	4	675
4100	P-L	1960	10	17.27085	23	59	14.96	+06	16	57.5	4	675
4100	P-L	1960	10	22.22293	23	55	30.06	+06	05	57.7	4	675
4100	P-L	1960	10	26.32573	23	52	46.92	+05	57	59.8	4	675
4614	P-L	* 1960	09	24.41183	00	25	26.85	+00	41	35.7	18.4	4 675
4614	P-L	1960	09	26.31530	00	23	49.12	+00	35	07.3	4	675
4614	P-L	1960	09	27.40836	00	22	52.55	+00	31	24.5	4	675
4614	P-L	1960	09	28.39725	00	22	01.42	+00	28	04.4	4	675
4614	P-L	1960	10	17.28198	00	06	43.82	-00	27	35.5	4	675
4614	P-L	1960	10	22.23406	00	03	26.45	-00	37	23.2	4	675
4614	P-L	1960	10	25.25350	00	01	39.58	-00	41	58.0	4	675
4614	P-L	1960	10	26.31531	00	01	04.55	-00	43	18.3	4	675
4882	P-L	* 1960	09	26.31530	00	35	18.30	-00	31	33.6	19.0	4 675
4882	P-L	1960	09	27.40836	00	34	15.27	-00	34	18.5	4	675
4882	P-L	1960	09	28.39725	00	33	18.23	-00	36	47.0	4	675
4882	P-L	1960	10	17.31529	00	15	49.40	-01	13	47.3	4	675
4882	P-L	1960	10	22.23406	00	11	58.07	-01	18	12.8	4	675
4882	P-L	1960	10	25.25350	00	09	49.68	-01	19	29.3	4	675
4882	P-L	1960	10	26.31531	00	09	07.31	-01	19	40.0	4	675
6030	P-L	* 1960	09	24.33613	00	10	14.68	+01	13	35.9	18.1	4 675
6030	P-L	1960	09	25.32502	00	09	37.09	+01	08	49.0	4	675
6030	P-L	1960	09	26.27573	00	09	00.96	+01	04	10.6	4	675
6030	P-L	1960	09	28.32780	00	07	43.07	+00	54	11.8	4	675
6030	P-L	1960	10	17.28198	23	56	43.22	-00	31	09.8	4	675
6030	P-L	1960	10	22.23406	23	54	24.86	-00	49	35.4	4	675
6030	P-L	1960	10	25.25350	23	53	10.25	-00	59	42.6	4	675
6030	P-L	1960	10	26.31531	23	52	45.96	-01	03	01.7	4	675
6207	P-L	* 1960	09	24.33613	23	57	00.16	+03	41	06.3	19.4	4 675
6207	P-L	1960	09	25.32502	23	56	09.74	+03	35	01.8	4	675
6207	P-L	1960	09	26.27573	23	55	21.61	+03	29	10.0	4	675
6207	P-L	1960	09	28.32780	23	53	38.32	+03	16	28.7	4	675
6207	P-L	1960	10	17.21390	23	40	07.48	+01	27	36.3	4	675
6207	P-L	1960	10	22.15559	23	37	39.38	+01	04	29.7	4	675
6207	P-L	1960	10	26.26113	23	36	02.09	+00	47	49.8	4	675
9521	P-L	1991	09	11.40625	00	58	00.22	+02	52	48.6	18.0	9 675
9521	P-L	1991	09	11.46094	00	57	58.31	+02	52	32.3	9	675
9521	P-L	1991	09	14.41091	00	56	15.84	+02	37	10.0	17.5	9 675
9521	P-L	1991	09	14.46302	00	56	13.76	+02	36	53.8	9	675
9540	P-L	1971	04	16.22812	12	12	27.65	-01	02	23.0	4	675
9540	P-L	1971	04	16.30139	12	12	24.21	-01	02	06.2	4	675
9540	P-L	1971	05	13.18941	11	59	22.06	+00	02	12.3	4	675
9540	P-L	1971	05	14.21962	11	59	11.35	+00	02	41.5	4	675
1017	T-1	1971	03	24.38924	11	55	14.73	-05	51	35.1	4	675
1017	T-1	1971	03	25.27326	11	54	28.26	-05	43	04.7	4	675
1017	T-1	* 1971	03	25.31562	11	54	26.02	-05	42	41.1	17.4	4 675
1017	T-1	1971	03	26.26771	11	53	36.19	-05	33	30.6	4	675
1023	T-1	1971	03	24.38924	11	56	00.26	-03	39	38.5	4	675
1023	T-1	1971	03	25.27326	11	55	02.21	-03	39	56.7	4	675
1023	T-1	* 1971	03	25.31562	11	54	59.38	-03	39	56.5	18.2	4 675

1023	T-1	1971	03	26.26771	11	53	57.03	-03	40	17.2	4	675	
1023	T-1	1971	03	27.32500	11	52	47.74	-03	40	37.4	4	675	
1026	T-1	1971	03	24.38924	11	56	07.51	-01	47	23.1	4	675	
1026	T-1	1971	03	25.27326	11	55	26.44	-01	38	39.4	4	675	
1026	T-1	*	1971	03	25.31562	11	55	24.34	-01	38	13.9	19.6	4 675
1026	T-1	1971	03	26.26771	11	54	40.14	-01	28	50.8	4	675	
1026	T-1	1971	03	27.32500	11	53	51.53	-01	18	28.0	4	675	
1036	T-1	1971	03	24.38924	11	56	42.73	-03	36	01.8	4	675	
1036	T-1	1971	03	25.27326	11	55	56.19	-03	34	52.3	4	675	
1036	T-1	*	1971	03	25.31562	11	55	53.95	-03	34	49.5	17.7	4 675
1036	T-1	1971	03	26.26771	11	55	04.04	-03	33	35.8	4	675	
1036	T-1	1971	03	27.32500	11	54	08.63	-03	32	12.3	4	675	
1054	T-1	1971	03	24.38924	11	58	12.57	-03	54	24.7	4	675	
1054	T-1	1971	03	25.27326	11	57	27.12	-03	48	54.1	4	675	
1054	T-1	*	1971	03	25.31562	11	57	24.88	-03	48	37.9	19.1	4 675
1054	T-1	1971	03	26.26771	11	56	35.89	-03	42	43.1	4	675	
1054	T-1	1971	03	27.32500	11	55	41.46	-03	36	08.1	4	675	
1059	T-1	1971	03	24.38924	11	59	01.94	-05	48	06.9	4	675	
1059	T-1	1971	03	25.27326	11	58	05.96	-05	44	14.7	4	675	
1059	T-1	*	1971	03	25.31562	11	58	03.17	-05	44	03.8	17.2	4 675
1059	T-1	1971	03	26.26771	11	57	03.13	-05	39	50.9	4	675	
1059	T-1	1971	03	27.32500	11	55	56.35	-05	35	06.0	4	675	
1089	T-1	1971	03	24.38924	12	01	45.40	-04	15	56.7	4	675	
1089	T-1	1971	03	25.27326	12	01	01.28	-04	13	34.8	4	675	
1089	T-1	*	1971	03	25.31562	12	00	59.03	-04	13	28.0	18.5	4 675
1089	T-1	1971	03	26.26771	12	00	11.54	-04	10	56.5	4	675	
1089	T-1	1971	03	27.32500	11	59	18.67	-04	08	05.1	4	675	
1089	T-1	1971	04	02.40000	11	54	23.00	-03	51	34.8	4	675	
1104	T-1	1971	03	24.38924	12	03	59.12	-04	15	44.9	4	675	
1104	T-1	1971	03	25.27326	12	03	00.29	-04	14	03.8	4	675	
1104	T-1	*	1971	03	25.31562	12	02	57.38	-04	13	59.1	17.8	4 675
1104	T-1	1971	03	26.26771	12	01	54.26	-04	12	09.9	4	675	
1104	T-1	1971	03	27.32500	12	00	44.02	-04	10	07.8	4	675	
1104	T-1	1971	04	02.40000	11	54	13.15	-03	58	04.3	4	675	
1114	T-1	1971	03	24.38924	12	04	13.08	-03	39	22.7	4	675	
1114	T-1	1971	03	25.27326	12	03	25.93	-03	32	47.7	4	675	
1114	T-1	*	1971	03	25.31562	12	03	23.55	-03	32	28.8	18.1	4 675
1114	T-1	1971	03	26.26771	12	02	32.76	-03	25	24.6	4	675	
1114	T-1	1971	03	27.32500	12	01	36.11	-03	17	29.9	4	675	
1114	T-1	1971	04	02.40000	11	56	17.27	-02	31	55.8	4	675	
1124	T-1	1971	03	24.37118	12	05	26.83	-01	02	47.5	4	675	
1124	T-1	1971	03	24.38924	12	05	25.63	-01	02	40.9	4	675	
1124	T-1	1971	03	25.24340	12	04	32.72	-00	58	00.0	4	675	
1124	T-1	1971	03	25.27326	12	04	30.87	-00	57	47.8	4	675	
1124	T-1	1971	03	25.28715	12	04	29.94	-00	57	45.3	4	675	
1124	T-1	*	1971	03	25.31562	12	04	28.05	-00	57	34.4	19.4	4 675
1124	T-1	1971	03	26.25208	12	03	29.99	-00	52	29.4	4	675	
1124	T-1	1971	03	26.26771	12	03	29.06	-00	52	22.0	4	675	
1124	T-1	1971	03	27.31181	12	02	24.14	-00	46	38.7	4	675	
1124	T-1	1971	04	02.41285	11	56	14.05	-00	14	01.6	4	675	
1171	T-1	1971	03	24.38924	12	09	37.32	-04	28	16.2	4	675	
1171	T-1	1971	03	25.27326	12	08	50.92	-04	21	07.7	4	675	
1171	T-1	*	1971	03	25.31562	12	08	48.63	-04	20	49.6	19.6	4 675
1171	T-1	1971	03	26.26771	12	07	58.51	-04	13	07.1	4	675	
1171	T-1	1971	03	27.32500	12	07	02.61	-04	04	31.6	4	675	
1171	T-1	1971	04	16.18087	11	51	14.79	-01	28	03.9	4	675	
1171	T-1	1971	04	16.26458	11	51	11.34	-01	27	27.6	4	675	
1171	T-1	1971	05	13.18941	11	41	29.60	+00	51	03.0	4	675	
1171	T-1	1971	05	14.21962	11	41	27.89	+00	53	53.4	4	675	

1173	T-1		1971	03	24.38924	12	09	32.06	-02	41	57.4		4	675
1173	T-1		1971	03	25.27326	12	08	46.93	-02	33	53.9		4	675
1173	T-1	*	1971	03	25.31562	12	08	44.73	-02	33	31.1	17.1	4	675
1173	T-1		1971	03	26.26771	12	07	56.13	-02	24	49.1		4	675
1173	T-1		1971	03	27.32500	12	07	01.74	-02	15	06.9		4	675
1173	T-1		1971	04	02.40000	12	01	55.13	-01	19	23.1		4	675
1173	T-1		1971	04	16.16458	11	51	53.74	+00	37	30.1		4	675
1173	T-1		1971	04	16.25069	11	51	50.43	+00	38	09.0		4	675
1173	T-1		1971	05	13.17535	11	44	43.39	+02	53	33.8		4	675
1173	T-1		1971	05	14.20694	11	44	50.55	+02	55	42.2		4	675
1173	T-1		1971	05	16.31510	11	45	10.51	+02	59	21.0		4	675
1217	T-1		1971	03	24.38924	12	12	56.18	-03	25	39.4		4	675
1217	T-1		1971	03	25.27326	12	12	07.89	-03	21	09.1		4	675
1217	T-1	*	1971	03	25.31562	12	12	05.47	-03	20	57.7	18.9	4	675
1217	T-1		1971	03	26.26771	12	11	13.72	-03	16	10.2		4	675
1217	T-1		1971	03	27.32500	12	10	16.06	-03	10	50.0		4	675
1217	T-1		1971	04	02.40000	12	04	52.52	-02	40	16.0		4	675
1217	T-1		1971	04	16.18087	11	54	15.74	-01	37	57.9		4	675
1217	T-1		1971	04	16.26458	11	54	12.34	-01	37	37.0		4	675
1217	T-1		1971	05	13.18941	11	44	59.48	-00	39	29.8		4	675
1217	T-1		1971	05	14.21962	11	44	59.25	-00	39	21.1		4	675
1220	T-1		1971	03	24.38924	12	13	04.81	-04	17	22.7		4	675
1220	T-1		1971	03	25.27326	12	12	17.37	-04	12	28.1		4	675
1220	T-1	*	1971	03	25.31562	12	12	15.03	-04	12	14.7	17.6	4	675
1220	T-1		1971	03	26.26771	12	11	23.81	-04	06	55.8		4	675
1220	T-1		1971	03	27.32500	12	10	26.76	-04	01	01.1		4	675
1220	T-1		1971	04	02.40000	12	05	08.78	-03	26	55.2		4	675
1220	T-1		1971	04	16.18087	11	55	16.49	-02	18	00.8		4	675
1220	T-1		1971	04	16.26458	11	55	13.35	-02	17	38.0		4	675
1232	T-1		1971	03	24.38924	12	14	11.04	-05	05	24.1		4	675
1232	T-1		1971	03	25.27326	12	13	27.22	-04	57	47.0		4	675
1232	T-1	*	1971	03	25.31562	12	13	24.97	-04	57	24.9	16.0	4	675
1232	T-1		1971	03	26.26771	12	12	37.54	-04	49	07.0		4	675
1232	T-1		1971	03	27.32500	12	11	44.52	-04	39	53.8		4	675
1232	T-1		1971	04	02.40000	12	06	47.22	-03	46	09.9		4	675
1232	T-1		1971	04	16.18087	11	57	41.98	-01	53	31.2		4	675
1232	T-1		1971	04	16.26458	11	57	39.20	-01	52	54.3		4	675
1232	T-1		1971	05	13.18941	11	55	37.27	-00	01	14.4		4	675
1232	T-1		1971	05	14.21962	11	56	00.13	-00	00	28.8		4	675
1280	T-1		1971	03	24.38924	12	17	20.26	-03	05	22.2		4	675
1280	T-1		1971	03	24.42015	12	17	19.09	-03	05	09.2		4	675
1280	T-1		1971	03	25.27326	12	16	44.01	-02	59	13.1		4	675
1280	T-1	*	1971	03	25.31562	12	16	42.30	-02	58	55.1	17.6	4	675
1280	T-1		1971	03	25.33090	12	16	41.53	-02	58	48.7		4	675
1280	T-1		1971	03	26.26771	12	16	03.30	-02	52	17.5		4	675
1280	T-1		1971	03	27.32500	12	15	19.44	-02	44	52.2		4	675
1280	T-1		1971	04	02.40000	12	11	11.27	-02	02	24.1		4	675
1280	T-1		1971	04	16.16458	12	02	46.08	-00	32	01.2		4	675
1280	T-1		1971	04	16.18087	12	02	45.53	-00	31	53.0		4	675
1280	T-1		1971	04	16.25069	12	02	43.17	-00	31	29.6		4	675
1280	T-1		1971	04	16.26458	12	02	42.76	-00	31	23.5		4	675
1280	T-1		1971	05	13.17535	11	54	20.39	+01	25	50.8		4	675
1280	T-1		1971	05	14.20694	11	54	17.18	+01	28	19.3		4	675
1280	T-1		1971	05	16.31510	11	54	14.73	+01	32	50.5		4	675
1287	T-1		1971	03	24.38924	12	18	28.45	-03	47	56.0		4	675
1287	T-1		1971	03	24.42015	12	18	26.85	-03	47	47.4		4	675
1287	T-1		1971	03	25.27326	12	17	38.30	-03	41	45.2		4	675
1287	T-1	*	1971	03	25.31562	12	17	35.83	-03	41	27.8	18.7	4	675
1287	T-1		1971	03	25.33090	12	17	34.86	-03	41	21.3		4	675

1287	T-1	1971	03	26.26771	12	16	41.54	-03	34	46.3	4	675		
1287	T-1	1971	03	26.29653	12	16	39.60	-03	34	33.3	4	675		
1287	T-1	1971	03	26.33611	12	16	37.23	-03	34	16.4	4	675		
1287	T-1	1971	03	27.32500	12	15	40.72	-03	27	17.6	4	675		
1287	T-1	1971	04	02.40000	12	09	56.49	-02	44	06.6	4	675		
1287	T-1	1971	04	16.18087	11	58	38.61	-01	14	30.0	4	675		
1287	T-1	1971	04	16.26458	11	58	34.89	-01	13	59.2	4	675		
2061	T-1	1971	03	24.37118	11	58	58.66	+00	15	16.0	4	675		
2061	T-1	1971	03	25.24340	11	58	13.15	+00	18	12.0	4	675		
2061	T-1	*	1971	03	25.28715	11	58	10.96	+00	18	20.7	19.2	4	675
2061	T-1	1971	03	26.25208	11	57	20.67	+00	21	31.6	4	675		
2061	T-1	1971	03	27.31181	11	56	25.64	+00	24	59.6	4	675		
2073	T-1	1971	03	24.37118	12	00	07.29	+01	52	39.9	4	675		
2073	T-1	1971	03	25.24340	11	59	23.80	+01	58	04.8	4	675		
2073	T-1	*	1971	03	25.28715	11	59	21.56	+01	58	20.2	19.7	4	675
2073	T-1	1971	03	26.25208	11	58	33.39	+02	04	15.1	4	675		
2073	T-1	1971	03	27.31181	11	57	40.56	+02	10	44.2	4	675		
2115	T-1	1971	03	24.37118	12	03	50.39	+05	06	35.2	4	675		
2115	T-1	1971	03	25.24340	12	03	08.99	+05	11	03.5	4	675		
2115	T-1	*	1971	03	25.28715	12	03	06.97	+05	11	15.5	19.1	4	675
2115	T-1	1971	03	26.25208	12	02	21.14	+05	16	08.8	4	675		
2146	T-1	1971	03	24.37118	12	06	16.59	+00	10	21.8	4	675		
2146	T-1	1971	03	25.24340	12	05	38.05	+00	15	03.7	4	675		
2146	T-1	*	1971	03	25.28715	12	05	35.94	+00	15	17.8	17.3	4	675
2146	T-1	1971	03	26.25208	12	04	53.30	+00	20	27.8	4	675		
2146	T-1	1971	03	27.31181	12	04	06.45	+00	26	09.0	4	675		
2146	T-1	1971	04	02.41285	11	59	44.51	+00	57	40.1	4	675		
2146	T-1	1971	04	16.16458	11	51	23.83	+01	57	35.4	4	675		
2146	T-1	1971	04	16.25069	11	51	21.14	+01	57	53.5	4	675		
2146	T-1	1971	05	13.17535	11	45	06.86	+02	44	04.6	4	675		
2146	T-1	1971	05	14.20694	11	45	10.76	+02	43	45.0	4	675		
2146	T-1	1971	05	16.31510	11	45	22.78	+02	42	36.9	4	675		
2150	T-1	1971	03	24.37118	12	06	41.31	+01	42	34.5	4	675		
2150	T-1	1971	03	25.24340	12	05	59.27	+01	46	26.2	4	675		
2150	T-1	*	1971	03	25.28715	12	05	57.07	+01	46	38.2	19.4	4	675
2150	T-1	1971	03	26.25208	12	05	10.37	+01	50	52.0	4	675		
2150	T-1	1971	03	27.31181	12	04	19.01	+01	55	29.1	4	675		
2150	T-1	1971	04	02.41285	11	59	30.28	+02	20	47.7	4	675		
2158	T-1	1971	03	25.24340	12	06	25.98	-00	01	27.8	4	675		
2158	T-1	*	1971	03	25.28715	12	06	21.23	-00	01	40.0	20.1	4	675
2158	T-1	1971	03	26.25208	12	04	45.43	-00	05	58.5	4	675		
2158	T-1	1971	03	27.31181	12	02	59.70	-00	10	43.7	4	675		
2165	T-1	1971	03	24.37118	12	07	33.95	+05	18	16.9	4	675		
2165	T-1	1971	03	25.24340	12	06	41.97	+05	19	53.3	4	675		
2165	T-1	*	1971	03	25.28715	12	06	39.27	+05	19	57.9	19.0	4	675
2165	T-1	1971	03	26.25208	12	05	41.65	+05	21	38.1	4	675		
2197	T-1	1971	03	24.37118	12	10	50.11	+04	24	24.3	4	675		
2197	T-1	1971	03	25.24340	12	10	06.50	+04	30	12.6	4	675		
2197	T-1	*	1971	03	25.28715	12	10	04.30	+04	30	30.0	19.1	4	675
2197	T-1	1971	03	26.25208	12	09	15.78	+04	36	49.3	4	675		
2197	T-1	1971	03	27.31181	12	08	22.51	+04	43	40.4	4	675		
2246	T-1	1971	03	24.37118	12	15	02.42	+02	20	05.4	4	675		
2246	T-1	1971	03	25.24340	12	14	13.10	+02	24	38.9	4	675		
2246	T-1	*	1971	03	25.28715	12	14	10.55	+02	24	52.3	17.6	4	675
2246	T-1	1971	03	26.25208	12	13	16.11	+02	29	48.4	4	675		
2246	T-1	1971	03	27.31181	12	12	16.08	+02	35	10.1	4	675		
2246	T-1	1971	04	02.41285	12	06	34.12	+03	04	56.2	4	675		
2246	T-1	1971	04	16.16458	11	54	57.07	+03	59	29.3	4	675		
2246	T-1	1971	04	16.25069	11	54	53.17	+03	59	46.0	4	675		

2246	T-1	1971	05	13.17535	11	42	38.01	+04	29	39.1	4	675	
2246	T-1	1971	05	14.20694	11	42	30.17	+04	28	33.7	4	675	
2246	T-1	1971	05	16.31510	11	42	19.17	+04	25	54.0	4	675	
2259	T-1	1971	03	24.37118	12	16	13.53	+03	28	05.0	4	675	
2259	T-1	1971	03	25.24340	12	15	35.42	+03	32	50.8	4	675	
2259	T-1	*	1971	03	25.28715	12	15	33.40	+03	33	03.5	19.2	4 675
2259	T-1	1971	03	26.25208	12	14	50.97	+03	38	17.2	4	675	
2259	T-1	1971	03	27.31181	12	14	04.23	+03	43	54.6	4	675	
2259	T-1	1971	04	02.41285	12	09	40.71	+04	14	59.1	4	675	
2259	T-1	1971	04	16.16458	12	00	51.88	+05	12	06.8	4	675	
2259	T-1	1971	04	16.25069	12	00	48.96	+05	12	23.6	4	675	
2259	T-1	1971	05	13.17535	11	52	00.70	+05	52	15.4	4	675	
2259	T-1	1971	05	14.20694	11	51	56.61	+05	51	47.3	4	675	
2276	T-1	1971	03	25.24340	12	16	34.71	+02	46	28.9	4	675	
2276	T-1	*	1971	03	25.28715	12	16	32.06	+02	46	44.3	19.6	4 675
2276	T-1	1971	03	26.25208	12	15	35.91	+02	52	01.7	4	675	
2276	T-1	1971	03	27.31181	12	14	33.91	+02	57	49.6	4	675	
2276	T-1	1971	04	02.41285	12	08	40.39	+03	29	45.4	4	675	
2312	T-1	1971	03	24.37118	12	19	55.19	+00	05	04.0	4	675	
2312	T-1	1971	03	25.24340	12	19	12.70	+00	09	05.4	4	675	
2312	T-1	*	1971	03	25.28715	12	19	10.46	+00	09	18.8	18.7	4 675
2312	T-1	1971	03	26.25208	12	18	23.41	+00	13	44.3	4	675	
2312	T-1	1971	03	27.31181	12	17	31.88	+00	18	32.9	4	675	
2312	T-1	1971	04	02.41285	12	12	37.42	+00	45	35.2	4	675	
2312	T-1	1971	04	16.16458	12	02	40.90	+01	37	16.8	4	675	
2312	T-1	1971	04	16.25069	12	02	37.45	+01	37	33.6	4	675	
2312	T-1	1971	05	13.17535	11	52	28.15	+02	14	27.2	4	675	
2312	T-1	1971	05	14.20694	11	52	22.86	+02	13	53.6	4	675	
3045	T-1	1971	03	25.33090	12	20	49.15	-03	31	30.9	4	675	
3045	T-1	1971	03	26.29653	12	19	51.95	-03	24	36.1	4	675	
3045	T-1	*	1971	03	26.33611	12	19	49.45	-03	24	17.8	19.1	4 675
3045	T-1	1971	03	27.33854	12	18	49.95	-03	17	02.6	4	675	
3045	T-1	1971	04	02.40000	12	12	51.29	-02	33	04.7	4	675	
3058	T-1	1971	03	24.42015	12	22	20.13	-05	00	23.5	4	675	
3058	T-1	1971	03	25.33090	12	21	21.77	-04	56	27.7	4	675	
3058	T-1	1971	03	26.29653	12	20	19.52	-04	52	18.0	4	675	
3058	T-1	*	1971	03	26.33611	12	20	17.05	-04	52	07.7	18.9	4 675
3058	T-1	1971	03	27.33854	12	19	12.30	-04	47	42.3	4	675	
3058	T-1	1971	04	16.18087	11	59	26.54	-03	22	20.2	4	675	
3058	T-1	1971	04	16.26458	11	59	21.96	-03	22	02.8	4	675	
3105	T-1	1971	03	24.42015	12	25	29.60	-05	18	55.2	4	675	
3105	T-1	1971	03	25.33090	12	24	40.17	-05	14	43.8	4	675	
3105	T-1	1971	03	26.29653	12	23	47.21	-05	10	13.5	4	675	
3105	T-1	*	1971	03	26.33611	12	23	44.96	-05	10	01.3	17.3	4 675
3105	T-1	1971	03	27.33854	12	22	49.75	-05	05	15.1	4	675	
3105	T-1	1971	04	02.40000	12	17	17.23	-04	35	45.2	4	675	
3105	T-1	1971	04	02.42604	12	17	15.67	-04	35	38.3	4	675	
3105	T-1	1971	04	16.18087	12	06	10.01	-03	32	11.9	4	675	
3105	T-1	1971	04	16.26458	12	06	06.37	-03	31	51.9	4	675	
3105	T-1	1971	05	13.18941	11	58	06.83	-02	37	24.1	4	675	
3105	T-1	1971	05	14.21962	11	58	14.64	-02	37	49.5	4	675	
3128	T-1	1971	03	26.29653	12	25	46.18	-08	01	24.0	4	675	
3128	T-1	*	1971	03	26.33611	12	25	43.56	-08	01	12.1	17.6	4 675
3128	T-1	1971	03	27.33854	12	24	38.58	-07	56	29.7	4	675	
3128	T-1	1971	04	02.42604	12	18	07.56	-07	26	32.4	4	675	
3128	T-1	1971	04	16.18087	12	05	00.41	-06	18	02.8	4	675	
3128	T-1	1971	04	16.26458	12	04	56.12	-06	17	38.8	4	675	
3128	T-1	1971	05	13.18941	11	52	49.82	-04	55	40.5	4	675	
3128	T-1	1971	05	14.21962	11	52	47.32	-04	54	38.9	4	675	

3146	T-1	1971	03	24.42015	12	28	03.31	-02	48	46.1	4	675		
3146	T-1	1971	03	25.33090	12	27	28.97	-02	44	26.4	4	675		
3146	T-1	1971	03	26.29653	12	26	52.17	-02	39	49.1	4	675		
3146	T-1	*	1971	03	26.33611	12	26	50.73	-02	39	36.3	18.3	4	675
3146	T-1	1971	03	27.33854	12	26	12.57	-02	34	49.0	4	675		
3146	T-1	1971	04	02.42604	12	22	20.85	-02	05	41.4	4	675		
3146	T-1	1971	04	16.21476	12	14	12.86	-01	03	56.9	4	675		
3146	T-1	1971	04	16.22812	12	14	12.41	-01	03	52.2	4	675		
3146	T-1	1971	04	16.27708	12	14	10.76	-01	03	40.8	4	675		
3146	T-1	1971	04	16.30139	12	14	09.90	-01	03	35.3	4	675		
3146	T-1	1971	05	13.18941	12	04	32.70	+00	13	32.8	4	675		
3146	T-1	1971	05	13.20278	12	04	32.43	+00	13	32.6	4	675		
3146	T-1	1971	05	14.21962	12	04	23.76	+00	14	59.9	4	675		
3146	T-1	1971	05	14.23246	12	04	23.58	+00	14	59.6	4	675		
3146	T-1	1971	05	16.29774	12	04	08.96	+00	17	28.3	4	675		
3174	T-1	1971	03	24.42015	12	30	57.51	-05	13	08.6	4	675		
3174	T-1	1971	03	25.33090	12	30	00.40	-05	11	14.6	4	675		
3174	T-1	1971	03	26.29653	12	28	59.44	-05	09	06.6	4	675		
3174	T-1	*	1971	03	26.33611	12	28	56.88	-05	09	01.8	18.0	4	675
3174	T-1	1971	03	27.33854	12	27	53.22	-05	06	47.1	4	675		
3174	T-1	1971	04	02.42604	12	21	25.29	-04	52	27.3	4	675		
3174	T-1	1971	04	16.18087	12	07	51.82	-04	21	07.8	4	675		
3174	T-1	1971	04	16.26458	12	07	47.28	-04	20	58.6	4	675		
3174	T-1	1971	05	13.18941	11	53	05.03	-04	04	38.7	4	675		
3174	T-1	1971	05	14.21962	11	52	55.41	-04	05	47.3	4	675		
3196	T-1	1971	03	24.42015	12	32	08.94	-06	17	58.9	4	675		
3196	T-1	1971	03	25.33090	12	31	26.16	-06	13	03.1	4	675		
3196	T-1	1971	03	26.29653	12	30	40.15	-06	07	45.3	4	675		
3196	T-1	*	1971	03	26.33611	12	30	38.12	-06	07	31.9	16.5	4	675
3196	T-1	1971	03	27.33854	12	29	50.12	-06	01	57.4	4	675		
3196	T-1	1971	04	02.42604	12	24	57.14	-05	27	07.5	4	675		
3196	T-1	1971	04	16.22812	12	14	54.05	-04	09	39.9	4	675		
3196	T-1	1971	04	16.30139	12	14	51.05	-04	09	15.6	4	675		
3227	T-1	1971	03	24.42015	12	34	01.55	-05	27	19.6	4	675		
3227	T-1	1971	03	25.33090	12	33	21.98	-05	18	53.9	4	675		
3227	T-1	1971	03	26.29653	12	32	39.85	-05	09	54.2	4	675		
3227	T-1	*	1971	03	26.33611	12	32	38.05	-05	09	32.8	17.4	4	675
3227	T-1	1971	03	27.33854	12	31	54.13	-05	00	09.8	4	675		
3227	T-1	1971	04	02.42604	12	27	26.90	-04	02	51.3	4	675		
3227	T-1	1971	04	16.22812	12	18	02.74	-01	56	54.4	4	675		
3227	T-1	1971	04	16.30139	12	18	00.01	-01	56	16.8	4	675		
3227	T-1	1971	05	13.20278	12	07	17.87	+01	06	18.3	4	675		
3227	T-1	1971	05	14.23246	12	07	09.28	+01	11	00.1	4	675		
3227	T-1	1971	05	16.29774	12	06	56.04	+01	19	52.3	4	675		
3233	T-1	1971	03	24.42015	12	35	01.99	-04	32	11.3	4	675		
3233	T-1	1971	03	25.33090	12	34	12.39	-04	29	30.8	4	675		
3233	T-1	1971	03	26.29653	12	33	19.55	-04	26	36.6	4	675		
3233	T-1	*	1971	03	26.33611	12	33	17.25	-04	26	29.9	18.3	4	675
3233	T-1	1971	03	27.33854	12	32	22.19	-04	23	29.2	4	675		
3233	T-1	1971	04	02.42604	12	26	48.31	-04	04	50.6	4	675		
3233	T-1	1971	04	16.22812	12	15	12.51	-03	25	45.5	4	675		
3233	T-1	1971	04	16.30139	12	15	09.15	-03	25	34.0	4	675		
3233	T-1	1971	05	13.18941	12	02	32.99	-02	55	51.1	4	675		
3233	T-1	1971	05	14.21962	12	02	23.95	-02	56	23.6	4	675		
3252	T-1	1971	03	26.29653	12	34	14.50	-07	54	59.0	4	675		
3252	T-1	*	1971	03	26.33611	12	34	12.17	-07	54	43.9	19.3	4	675
3252	T-1	1971	03	27.33854	12	33	15.88	-07	48	38.6	4	675		
3252	T-1	1971	04	02.42604	12	27	29.59	-07	10	06.9	4	675		
3252	T-1	1971	04	16.22812	12	15	10.00	-05	39	29.6	4	675		

3252	T-1	1971	04	16.30139	12	15	06.18	-05	39	02.0	4	675	
3271	T-1	1971	03	24.42015	12	37	48.67	-05	19	58.3	4	675	
3271	T-1	1971	03	25.33090	12	37	03.42	-05	15	54.4	4	675	
3271	T-1	1971	03	26.29653	12	36	14.69	-05	11	33.1	4	675	
3271	T-1	*	1971	03	26.33611	12	36	12.62	-05	11	21.8	18.1	4 675
3271	T-1	1971	03	27.33854	12	35	21.71	-05	06	45.5	4	675	
3271	T-1	1971	04	02.42604	12	30	10.46	-04	38	14.0	4	675	
3271	T-1	1971	04	16.22812	12	19	06.96	-03	35	29.8	4	675	
3271	T-1	1971	04	16.30139	12	19	03.60	-03	35	10.3	4	675	
3271	T-1	1971	05	14.19427	12	06	35.07	-02	22	15.2	4	675	
3271	T-1	1971	05	14.24549	12	06	34.62	-02	22	13.2	4	675	
3289	T-1	1971	03	24.42015	12	39	07.47	-06	58	02.6	4	675	
3289	T-1	1971	03	25.33090	12	38	15.50	-06	51	12.8	4	675	
3289	T-1	1971	03	26.29653	12	37	19.54	-06	43	52.3	4	675	
3289	T-1	*	1971	03	26.33611	12	37	17.21	-06	43	34.5	17.8	4 675
3289	T-1	1971	03	27.33854	12	36	18.90	-06	35	51.1	4	675	
3289	T-1	1971	04	02.42604	12	30	19.71	-05	47	30.8	4	675	
3289	T-1	1971	04	16.22812	12	17	32.49	-03	57	55.7	4	675	
3289	T-1	1971	04	16.30139	12	17	28.59	-03	57	22.7	4	675	
3289	T-1	1971	05	13.18941	12	03	45.27	-01	30	18.5	4	675	
3289	T-1	1971	05	14.19427	12	03	37.65	-01	27	25.2	4	675	
3289	T-1	1971	05	14.21962	12	03	37.49	-01	27	20.7	4	675	
3289	T-1	1971	05	14.24549	12	03	37.20	-01	27	15.9	4	675	
3289	T-1	1971	05	16.27535	12	03	27.49	-01	22	05.7	4	675	
3300	T-1	1971	03	24.42015	12	39	56.19	-07	10	00.9	4	675	
3300	T-1	1971	03	25.33090	12	39	00.42	-07	05	17.0	4	675	
3300	T-1	1971	03	26.29653	12	38	00.16	-07	00	09.3	4	675	
3300	T-1	*	1971	03	26.33611	12	37	57.65	-06	59	55.6	18.8	4 675
3300	T-1	1971	03	27.33854	12	36	54.54	-06	54	28.4	4	675	
3300	T-1	1971	04	02.42604	12	30	23.80	-06	19	45.0	4	675	
3300	T-1	1971	04	16.22812	12	16	10.62	-04	58	00.3	4	675	
3300	T-1	1971	04	16.30139	12	16	06.26	-04	57	35.4	4	675	
4050	T-1	1971	03	24.40486	12	22	39.07	+01	57	44.1	4	675	
4050	T-1	1971	03	26.31007	12	20	45.60	+02	12	24.7	4	675	
4050	T-1	*	1971	03	26.34896	12	20	43.32	+02	12	42.2	18.3	4 675
4050	T-1	1971	03	27.31181	12	19	46.08	+02	19	59.6	4	675	
4050	T-1	1971	03	27.35208	12	19	43.09	+02	20	21.4	4	675	
4050	T-1	1971	04	02.41285	12	13	42.67	+03	05	18.9	4	675	
4050	T-1	1971	04	16.16458	12	01	21.64	+04	31	36.8	4	675	
4050	T-1	1971	04	16.25069	12	01	17.29	+04	32	03.7	4	675	
4098	T-1	1971	03	24.40486	12	25	39.50	+03	43	13.7	4	675	
4098	T-1	1971	03	26.31007	12	23	40.56	+03	49	49.8	4	675	
4098	T-1	*	1971	03	26.34896	12	23	38.09	+03	49	58.6	18.4	4 675
4098	T-1	1971	03	27.35208	12	22	35.23	+03	53	17.5	4	675	
4098	T-1	1971	04	02.41285	12	16	20.38	+04	11	38.4	4	675	
4098	T-1	1971	04	16.16458	12	03	41.10	+04	36	29.6	4	675	
4098	T-1	1971	04	16.25069	12	03	36.79	+04	36	35.1	4	675	
4098	T-1	1971	05	13.17535	11	51	21.70	+04	00	00.2	4	675	
4098	T-1	1971	05	14.20694	11	51	16.94	+03	56	24.7	4	675	
4121	T-1	1971	03	24.40486	12	26	20.55	-00	23	26.2	4	675	
4121	T-1	1971	03	26.31007	12	24	53.85	-00	14	19.7	4	675	
4121	T-1	*	1971	03	26.34896	12	24	52.01	-00	14	08.9	16.8	4 675
4121	T-1	1971	03	27.35208	12	24	06.09	-00	09	21.3	4	675	
4121	T-1	1971	04	02.41285	12	19	29.18	+00	18	58.8	4	675	
4121	T-1	1971	04	02.43993	12	19	27.51	+00	19	09.7	4	675	
4121	T-1	1971	04	16.16458	12	09	52.51	+01	14	47.5	4	675	
4121	T-1	1971	04	16.21476	12	09	50.23	+01	15	00.4	4	675	
4121	T-1	1971	04	16.25069	12	09	49.16	+01	15	07.0	4	675	
4121	T-1	1971	04	16.27708	12	09	47.82	+01	15	11.8	4	675	

4121	T-1	1971	05	13.17535	12	00	07.04	+01	57	12.8		4	675	
4121	T-1	1971	05	14.20694	12	00	03.59	+01	56	40.1		4	675	
4121	T-1	1971	05	16.31510	12	00	00.97	+01	55	07.4		4	675	
4192	T-1	1971	03	24.40486	12	31	13.61	+01	41	36.7		4	675	
4192	T-1	1971	03	26.31007	12	29	24.35	+01	52	04.5		4	675	
4192	T-1	*	1971	03	26.34896	12	29	22.07	+01	52	17.3	18.7	4	675
4192	T-1	1971	03	27.35208	12	28	24.03	+01	57	43.8		4	675	
4192	T-1	1971	04	02.43993	12	22	31.44	+02	29	43.6		4	675	
4192	T-1	1971	04	16.16458	12	10	15.73	+03	28	36.5		4	675	
4192	T-1	1971	04	16.21476	12	10	12.75	+03	28	46.4		4	675	
4192	T-1	1971	04	16.25069	12	10	11.07	+03	28	52.8		4	675	
4192	T-1	1971	04	16.27708	12	10	09.61	+03	28	59.8		4	675	
4204	T-1	1971	03	24.40486	12	31	32.83	+03	11	09.7		4	675	
4204	T-1	1971	03	26.31007	12	29	54.93	+03	24	09.0		4	675	
4204	T-1	*	1971	03	26.34896	12	29	52.87	+03	24	25.9	19.3	4	675
4204	T-1	1971	03	27.35208	12	29	01.23	+03	31	07.7		4	675	
4204	T-1	1971	04	02.43993	12	23	49.38	+04	10	23.4		4	675	
4206	T-1	1971	03	24.40486	12	31	20.35	+00	54	16.6		4	675	
4206	T-1	1971	03	26.31007	12	29	48.25	+01	07	54.9		4	675	
4206	T-1	*	1971	03	26.34896	12	29	46.24	+01	08	11.1	17.2	4	675
4206	T-1	1971	03	27.35208	12	28	57.08	+01	15	17.5		4	675	
4206	T-1	1971	04	02.43993	12	24	00.20	+01	56	48.5		4	675	
4206	T-1	1971	04	16.21476	12	14	19.90	+03	10	22.8		4	675	
4206	T-1	1971	04	16.27708	12	14	17.57	+03	10	37.6		4	675	
4206	T-1	1971	05	13.20278	12	09	32.59	+03	28	44.2		4	675	
4206	T-1	1971	05	14.23246	12	09	48.27	+03	26	00.3		4	675	
4206	T-1	1971	05	16.29774	12	10	25.26	+03	19	51.8		4	675	
4255	T-1	1971	03	24.40486	12	34	38.74	-01	07	08.8		4	675	
4255	T-1	1971	03	26.31007	12	33	07.09	-00	52	21.1		4	675	
4255	T-1	*	1971	03	26.34896	12	33	05.12	-00	52	02.2	19.1	4	675
4255	T-1	1971	03	27.35208	12	32	16.30	-00	44	13.1		4	675	
4255	T-1	1971	04	02.43993	12	27	15.84	+00	02	46.3		4	675	
4255	T-1	1971	04	16.21476	12	17	02.13	+01	35	25.0		4	675	
4255	T-1	1971	04	16.27708	12	16	59.44	+01	35	46.5		4	675	
4283	T-1	1971	03	24.40486	12	36	40.96	+01	42	15.4		4	675	
4283	T-1	1971	03	26.31007	12	34	37.03	+01	48	23.9		4	675	
4283	T-1	*	1971	03	26.34896	12	34	34.43	+01	48	31.4	18.1	4	675
4283	T-1	1971	03	27.35208	12	33	28.75	+01	51	39.8		4	675	
4283	T-1	1971	04	02.43993	12	26	51.56	+02	09	22.9		4	675	
4283	T-1	1971	04	16.21476	12	13	15.57	+02	34	40.9		4	675	
4283	T-1	1971	04	16.27708	12	13	12.08	+02	34	42.9		4	675	
4283	T-1	1971	05	14.20694	11	59	31.40	+01	57	55.2		4	675	
4298	T-1	1971	03	24.40486	12	37	10.29	+00	37	23.2		4	675	
4298	T-1	1971	03	26.31007	12	35	27.39	+00	51	06.6		4	675	
4298	T-1	*	1971	03	26.34896	12	35	25.16	+00	51	22.8	19.3	4	675
4298	T-1	1971	03	27.35208	12	34	30.23	+00	58	36.0		4	675	
4298	T-1	1971	04	02.43993	12	28	52.26	+01	41	47.4		4	675	
4298	T-1	1971	04	16.21476	12	16	47.63	+03	07	11.8		4	675	
4298	T-1	1971	04	16.27708	12	16	44.72	+03	07	32.0		4	675	
4321	T-1	1971	03	24.40486	12	38	04.12	-00	14	37.5		4	675	
4321	T-1	1971	03	26.31007	12	36	24.50	-00	05	21.1		4	675	
4321	T-1	*	1971	03	26.34896	12	36	22.31	-00	05	09.6	17.7	4	675
4321	T-1	1971	03	27.35208	12	35	29.40	-00	00	17.8		4	675	
4321	T-1	1971	04	02.43993	12	30	08.00	+00	28	15.4		4	675	
4321	T-1	1971	04	16.21476	12	19	08.92	+01	20	15.2		4	675	
4321	T-1	1971	04	16.27708	12	19	06.28	+01	20	26.0		4	675	
4334	T-1	1971	03	24.40486	12	39	25.96	+00	12	34.6		4	675	
4334	T-1	1971	03	26.31007	12	37	47.90	+00	26	57.4		4	675	
4334	T-1	*	1971	03	26.34896	12	37	45.75	+00	27	15.6	19.5	4	675

4334	T-1	1971	03	27.35208	12	36	53.23	+00	34	51.1	4	675		
4408	T-1	1971	03	24.40486	12	37	08.89	+02	15	40.9	4	675		
4408	T-1	1971	03	26.31007	12	35	19.20	+02	26	10.2	4	675		
4408	T-1	*	1971	03	26.34896	12	35	16.87	+02	26	23.0	19.5	4	675
4408	T-1	1971	03	27.35208	12	34	18.62	+02	31	47.8	4	675		
4408	T-1	1971	04	02.43993	12	28	24.64	+03	03	41.1	4	675		
4408	T-1	1971	04	16.21476	12	15	55.07	+04	02	20.7	4	675		
4408	T-1	1971	04	16.27708	12	15	51.84	+04	02	33.5	4	675		
4849	T-1	*	1971	05	13.20278	12	16	15.41	+04	27	16.3	18.0	4	675
4849	T-1	1971	05	14.23246	12	15	58.96	+04	20	02.6	18.0	4	675	
4849	T-1	1971	05	16.29774	12	15	31.45	+04	05	09.8	18.5	4	675	
4867	T-1	*	1971	05	13.20278	12	22	06.88	+04	17	49.2	18.5	4	675
4867	T-1	1971	05	14.23246	12	21	45.02	+04	15	02.1	18.5	4	675	
4867	T-1	1971	05	16.29774	12	21	05.77	+04	09	03.7	18.5	4	675	
1053	T-2	1971	03	24.38924	12	17	49.51	-02	04	01.8	4	675		
1053	T-2	1971	03	24.42015	12	17	47.73	-02	03	47.7	4	675		
1053	T-2	1971	03	25.27326	12	17	03.77	-01	58	50.1	4	675		
1053	T-2	1971	03	25.31562	12	17	01.57	-01	58	34.8	19.0	4	675	
1053	T-2	1971	03	25.33090	12	17	00.77	-01	58	28.0	4	675		
1053	T-2	1971	03	26.26771	12	16	12.71	-01	53	00.2	4	675		
1053	T-2	1971	03	27.32500	12	15	18.13	-01	46	47.1	4	675		
1053	T-2	1971	04	02.40000	12	10	10.70	-01	11	44.4	4	675		
1079	T-2	1973	09	19.18611	00	09	31.00	+00	36	27.4	4	675		
1079	T-2	1973	09	19.23785	00	09	28.23	+00	36	15.3	4	675		
1079	T-2	1973	09	20.22847	00	08	38.37	+00	31	47.0	4	675		
1079	T-2	1973	09	24.34688	00	05	08.43	+00	13	07.8	4	675		
1079	T-2	1973	09	24.41597	00	05	04.80	+00	12	49.0	4	675		
1079	T-2	1973	09	25.24375	00	04	22.99	+00	09	04.2	4	675		
1079	T-2	1973	09	25.30729	00	04	19.59	+00	08	48.2	4	675		
1079	T-2	*	1973	09	29.25330	00	01	00.62	-00	08	51.2	17.8	4	675
1079	T-2	1973	09	29.31806	00	00	57.17	-00	09	08.6	4	675		
1079	T-2	1973	09	30.21007	00	00	13.06	-00	13	03.0	4	675		
1079	T-2	1973	09	30.27431	00	00	09.79	-00	13	19.0	4	675		
1079	T-2	1973	10	04.28958	23	56	55.88	-00	30	20.8	4	675		
1079	T-2	1973	10	04.35208	23	56	52.79	-00	30	35.5	4	675		
1079	T-2	1973	10	05.31684	23	56	07.81	-00	34	30.4	4	675		
1079	T-2	1973	10	05.37917	23	56	04.90	-00	34	45.1	4	675		
1170	T-2	1973	09	19.18611	00	15	20.79	+03	44	32.6	4	675		
1170	T-2	1973	09	19.23785	00	15	18.50	+03	44	01.7	4	675		
1170	T-2	1973	09	20.22847	00	14	35.18	+03	34	06.1	4	675		
1170	T-2	1973	09	24.34688	00	11	30.57	+02	51	48.5	4	675		
1170	T-2	1973	09	24.41597	00	11	27.38	+02	51	05.0	4	675		
1170	T-2	1973	09	25.24375	00	10	49.97	+02	42	25.6	4	675		
1170	T-2	1973	09	25.30729	00	10	46.97	+02	41	47.4	4	675		
1170	T-2	*	1973	09	29.25330	00	07	46.85	+02	00	14.2	18.7	4	675
1170	T-2	1973	09	29.31806	00	07	43.75	+01	59	32.0	4	675		
1170	T-2	1973	09	30.21007	00	07	03.39	+01	50	07.0	4	675		
1170	T-2	1973	09	30.27431	00	07	00.24	+01	49	24.1	4	675		
1170	T-2	1973	10	04.28958	00	04	00.14	+01	07	06.1	4	675		
1170	T-2	1973	10	04.35208	00	03	57.27	+01	06	27.2	4	675		
1170	T-2	1973	10	05.31684	00	03	15.08	+00	56	24.9	4	675		
1170	T-2	1973	10	05.37917	00	03	12.21	+00	55	45.9	4	675		
1269	T-2	1971	05	13.18941	11	57	52.23	-01	08	06.7	4	675		
1269	T-2	1971	05	14.21962	11	57	46.84	-01	07	12.8	4	675		
1281	T-2	1971	04	16.22812	12	17	05.45	-02	33	07.7	4	675		
1281	T-2	1971	04	16.30139	12	17	02.54	-02	32	26.7	4	675		
2040	T-2	1971	05	16.29774	12	08	35.53	+00	45	03.1	4	675		
2224	T-2	1971	05	13.20278	12	04	10.88	+01	05	32.8	4	675		
2224	T-2	1971	05	14.23246	12	03	59.63	+01	05	48.2	4	675		

2252	T-2	1973	09	19.19948	00	48	17.66	+06	39	36.0		4	675	
2252	T-2	1973	09	19.25006	00	48	15.00	+06	39	36.8		4	675	
2252	T-2	1973	09	20.26458	00	47	24.01	+06	39	49.2		4	675	
2252	T-2	1973	09	24.36181	00	43	47.37	+06	39	32.4		4	675	
2252	T-2	1973	09	24.42847	00	43	43.59	+06	39	31.4		4	675	
2252	T-2	1973	09	25.25642	00	42	58.83	+06	39	14.2		4	675	
2252	T-2	1973	09	25.32031	00	42	55.14	+06	39	13.2		4	675	
2252	T-2	1973	09	29.26632	00	39	13.88	+06	37	23.7		4	675	
2252	T-2	*	1973	09	29.33073	00	39	10.09	+06	37	22.6	17.2	4	675
2252	T-2		1973	09	30.22257	00	38	19.38	+06	36	45.8		4	675
2252	T-2		1973	09	30.28785	00	38	15.55	+06	36	43.3		4	675
2252	T-2		1973	10	04.30208	00	34	24.83	+06	33	40.5		4	675
2252	T-2		1973	10	04.36476	00	34	21.09	+06	33	37.6		4	675
2252	T-2		1973	10	05.32917	00	33	25.63	+06	32	49.4		4	675
2252	T-2		1973	10	05.39132	00	33	21.88	+06	32	44.9		4	675
2908	T-2		1973	09	30.22257	00	44	44.13	+05	36	43.1		4	675
2908	T-2	*	1973	09	30.28785	00	44	40.61	+05	36	11.8	17.9	4	675
2908	T-2		1973	10	04.30208	00	41	13.99	+05	04	49.7		4	675
2908	T-2		1973	10	04.36476	00	41	10.60	+05	04	22.0		4	675
2908	T-2		1973	10	05.32917	00	40	21.12	+04	56	44.1		4	675
2908	T-2		1973	10	05.39132	00	40	17.70	+04	56	14.9		4	675
3102	T-2		1971	05	13.18941	12	00	07.00	-04	24	22.6		4	675
3102	T-2		1971	05	14.21962	11	59	57.25	-04	26	56.1		4	675
3115	T-2		1973	09	19.21250	00	13	48.37	-01	03	42.8		4	675
3115	T-2		1973	09	19.26354	00	13	45.81	-01	03	57.5		4	675
3115	T-2		1973	09	20.27795	00	12	57.37	-01	08	30.6		4	675
3115	T-2		1973	09	24.37431	00	09	38.88	-01	26	51.3		4	675
3115	T-2		1973	09	24.44167	00	09	35.43	-01	27	08.7		4	675
3115	T-2		1973	09	25.26875	00	08	55.44	-01	30	51.8		4	675
3115	T-2		1973	09	25.33299	00	08	52.17	-01	31	08.5		4	675
3115	T-2		1973	09	29.27986	00	05	39.98	-01	48	25.0		4	675
3115	T-2		1973	09	29.34375	00	05	36.76	-01	48	41.7		4	675
3115	T-2		1973	09	30.23524	00	04	53.84	-01	52	31.3		4	675
3115	T-2	*	1973	09	30.30174	00	04	50.52	-01	52	48.0	18.3	4	675
3115	T-2		1973	10	04.31493	00	01	39.84	-02	09	23.2		4	675
3115	T-2		1973	10	04.37674	00	01	36.84	-02	09	38.6		4	675
3115	T-2		1973	10	05.34167	00	00	52.07	-02	13	27.6		4	675
3115	T-2		1973	10	05.40347	00	00	49.15	-02	13	43.5		4	675
3178	T-2		1973	09	19.18611	00	18	47.31	-00	36	08.8		4	675
3178	T-2		1973	09	19.21250	00	18	46.17	-00	36	13.1		4	675
3178	T-2		1973	09	19.23785	00	18	44.89	-00	36	22.8		4	675
3178	T-2		1973	09	19.26354	00	18	43.57	-00	36	27.2		4	675
3178	T-2		1973	09	20.22847	00	17	57.42	-00	40	28.6		4	675
3178	T-2		1973	09	20.27795	00	17	55.23	-00	40	40.3		4	675
3178	T-2		1973	09	24.34688	00	14	37.32	-00	57	37.2		4	675
3178	T-2		1973	09	24.37431	00	14	35.89	-00	57	42.7		4	675
3178	T-2		1973	09	24.41597	00	14	33.88	-00	57	55.2		4	675
3178	T-2		1973	09	24.44167	00	14	32.53	-00	57	58.8		4	675
3178	T-2		1973	09	25.24375	00	13	53.30	-01	01	21.7		4	675
3178	T-2		1973	09	25.26875	00	13	52.19	-01	01	25.1		4	675
3178	T-2		1973	09	25.30729	00	13	50.21	-01	01	36.4		4	675
3178	T-2		1973	09	25.33299	00	13	48.87	-01	01	41.2		4	675
3178	T-2		1973	09	29.27986	00	10	35.00	-01	17	51.2		4	675
3178	T-2		1973	09	29.34375	00	10	31.73	-01	18	06.6		4	675
3178	T-2		1973	09	30.23524	00	09	48.33	-01	21	41.2		4	675
3178	T-2	*	1973	09	30.30174	00	09	44.97	-01	21	57.3	18.4	4	675
3178	T-2		1973	10	04.28958	00	06	32.79	-01	37	23.4		4	675
3178	T-2		1973	10	04.31493	00	06	31.57	-01	37	28.7		4	675
3178	T-2		1973	10	04.35208	00	06	29.66	-01	37	38.1		4	675

3178	T-2	1973	10	04.37674	00	06	28.57	-01	37	41.5		4	675	
3178	T-2	1973	10	05.34167	00	05	43.14	-01	41	16.2		4	675	
3178	T-2	1973	10	05.40347	00	05	40.05	-01	41	30.8		4	675	
3181	T-2	1973	09	19.21250	00	18	36.44	-03	40	25.1		4	675	
3181	T-2	1973	09	19.26354	00	18	34.01	-03	40	41.9		4	675	
3181	T-2	1973	09	20.27795	00	17	47.16	-03	46	07.9		4	675	
3181	T-2	1973	09	24.37431	00	14	34.88	-04	07	47.0		4	675	
3181	T-2	1973	09	24.44167	00	14	31.60	-04	08	07.8		4	675	
3181	T-2	1973	09	25.26875	00	13	52.76	-04	12	24.6		4	675	
3181	T-2	1973	09	25.33299	00	13	49.53	-04	12	44.7		4	675	
3181	T-2	1973	09	29.27986	00	10	42.54	-04	32	37.1		4	675	
3181	T-2	1973	09	29.34375	00	10	39.40	-04	32	57.3		4	675	
3181	T-2	1973	09	30.23524	00	09	57.49	-04	37	18.1		4	675	
3181	T-2	*	1973	09	30.30174	00	09	54.25	-04	37	37.5	18.7	4	675
3181	T-2		1973	10	04.31493	00	06	47.85	-04	56	17.7		4	675
3181	T-2		1973	10	04.37674	00	06	44.93	-04	56	33.9		4	675
3181	T-2		1973	10	05.34167	00	06	01.08	-05	00	49.7		4	675
3181	T-2		1973	10	05.40347	00	05	58.20	-05	01	05.7		4	675
3336	T-2	1991	09	10.37515	00	29	56.69	-00	26	01.1	17.8	9	675	
3336	T-2	1991	09	10.42622	00	29	54.88	-00	26	27.3		9	675	
3336	T-2	1991	09	17.40885	00	26	01.89	-01	27	41.9		9	675	
3336	T-2	1991	09	17.45938	00	25	59.77	-01	28	09.6	17.2	9	675	
4053	T-2	1971	05	13.17535	12	01	18.37	+03	13	18.0		4	675	
4053	T-2	1971	05	14.20694	12	01	13.25	+03	13	20.9		4	675	
4053	T-2	1971	05	16.31510	12	01	06.92	+03	12	53.2		4	675	
1054	T-3	1977	10	11.26632	00	56	40.91	+18	55	09.3		4	675	
1054	T-3	1977	10	11.33351	00	56	33.40	+18	55	40.2		4	675	
1054	T-3	1977	10	12.26510	00	54	53.15	+19	02	24.4		4	675	
1054	T-3	1977	10	12.33125	00	54	45.72	+19	02	54.2		4	675	
1054	T-3	1977	10	16.25156	00	47	48.84	+19	28	25.2		4	675	
1054	T-3	1977	10	16.31684	00	47	41.71	+19	28	48.7		4	675	
1054	T-3	*	1977	10	17.25365	00	46	04.63	+19	34	18.1	18.8	4	675
1054	T-3		1977	10	17.32083	00	45	57.44	+19	34	42.0		4	675
1054	T-3		1977	10	22.42812	00	37	28.53	+20	00	13.3		4	675
1054	T-3		1977	10	22.48003	00	37	23.32	+20	00	28.2		4	675
2041	T-3	1991	09	13.40370	00	53	27.02	+10	10	17.1	18.8	9	675	
2041	T-3	1991	09	13.46267	00	53	24.77	+10	10	04.1		9	675	
2041	T-3	1991	09	15.47448	00	52	08.01	+10	02	23.1		9	675	
2272	T-3	1977	10	07.25868	01	16	24.04	+10	46	55.1		4	675	
2272	T-3	1977	10	11.27743	01	12	16.48	+10	37	17.7		4	675	
2272	T-3	1977	10	11.34375	01	12	12.14	+10	37	07.5		4	675	
2272	T-3	1977	10	12.27587	01	11	14.02	+10	34	40.5		4	675	
2272	T-3	1977	10	12.34271	01	11	09.60	+10	34	31.1		4	675	
2272	T-3	*	1977	10	16.26233	01	07	03.64	+10	23	38.5	17.8	4	675
2272	T-3		1977	10	16.32795	01	06	59.26	+10	23	27.4		4	675
2272	T-3		1977	10	17.26458	01	06	00.83	+10	20	48.3		4	675
2272	T-3		1977	10	17.33177	01	05	56.50	+10	20	37.6		4	675
2272	T-3		1977	10	21.40868	01	01	46.15	+10	08	37.2		4	675
2272	T-3		1977	10	21.46910	01	01	42.37	+10	08	25.1		4	675
2272	T-3		1977	10	22.41528	01	00	45.95	+10	05	40.1		4	675
2272	T-3		1977	10	22.46962	01	00	42.68	+10	05	29.4		4	675
2288	T-3	1977	10	07.25868	01	16	45.61	+13	18	15.7		4	675	
2288	T-3	1977	10	11.27743	01	12	44.85	+13	13	23.5		4	675	
2288	T-3	1977	10	11.34375	01	12	40.52	+13	13	18.7		4	675	
2288	T-3	1977	10	12.27587	01	11	44.50	+13	11	50.9		4	675	
2288	T-3	1977	10	12.34271	01	11	40.22	+13	11	44.2		4	675	
2288	T-3	*	1977	10	16.26233	01	07	45.28	+13	04	36.8	17.1	4	675
2288	T-3		1977	10	16.32795	01	07	41.05	+13	04	29.7		4	675
2288	T-3		1977	10	17.26458	01	06	45.94	+13	02	37.8		4	675

2288	T-3	1977	10	17.33177	01	06	41.67	+13	02	28.6		4	675	
2288	T-3	1977	10	21.40868	01	02	48.48	+12	53	31.3		4	675	
2288	T-3	1977	10	21.46910	01	02	44.98	+12	53	22.6		4	675	
2288	T-3	1977	10	22.41528	01	01	53.35	+12	51	11.9		4	675	
2288	T-3	1977	10	22.46962	01	01	50.32	+12	51	04.6		4	675	
3019	T-3	1991	09	10.40573	01	20	51.82	+09	07	30.5		9	675	
3019	T-3	1991	09	10.46042	01	20	50.65	+09	07	10.2	18.0	9	675	
3019	T-3	1991	09	16.46272	01	18	16.04	+08	27	39.5		9	675	
3019	T-3	1991	09	16.49449	01	18	15.03	+08	27	25.6	18.0	9	675	
3395	T-3	1991	09	10.37515	00	22	19.31	+02	27	16.4	18.5	9	675	
3395	T-3	1991	09	10.42622	00	22	16.79	+02	26	54.2		9	675	
3424	T-3	1977	10	07.27031	01	15	16.57	+05	06	19.2		4	675	
3424	T-3	1977	10	11.28819	01	11	52.53	+04	42	38.3		4	675	
3424	T-3	1977	10	11.35642	01	11	49.07	+04	42	13.4		4	675	
3424	T-3	1977	10	12.28681	01	11	01.93	+04	36	44.3		4	675	
3424	T-3	*	1977	10	16.27309	01	07	39.37	+04	13	41.6	19.1	4	675
3424	T-3	1977	10	16.33872	01	07	36.05	+04	13	19.9		4	675	
3424	T-3	1977	10	17.27552	01	06	49.06	+04	08	02.2		4	675	
3424	T-3	1977	10	17.34236	01	06	45.61	+04	07	39.9		4	675	
3424	T-3	1977	10	21.39792	01	03	26.28	+03	45	30.2		4	675	
3424	T-3	1977	10	21.45799	01	03	23.37	+03	45	12.0		4	675	
3424	T-3	1977	10	22.45920	01	02	35.95	+03	39	54.9		4	675	
3854	T-3	1977	10	11.28819	01	21	05.73	+05	22	56.0		4	675	
3854	T-3	1977	10	11.35642	01	21	02.67	+05	22	35.3		4	675	
3854	T-3	1977	10	12.28681	01	20	21.80	+05	18	11.0		4	675	
3854	T-3	1977	10	12.35347	01	20	18.64	+05	17	52.4		4	675	
3854	T-3	*	1977	10	16.27309	01	17	25.00	+04	59	28.1	19.8	4	675
3854	T-3	1977	10	16.33872	01	17	21.90	+04	59	08.6		4	675	
3854	T-3	1977	10	17.27552	01	16	40.43	+04	54	48.3		4	675	
3854	T-3	1977	10	17.34236	01	16	37.28	+04	54	29.0		4	675	
3854	T-3	1977	10	21.39792	01	13	39.26	+04	36	01.0		4	675	
3854	T-3	1977	10	21.45799	01	13	36.69	+04	35	47.0		4	675	
4050	T-3	1977	10	07.28125	01	21	22.65	-00	00	55.2		4	675	
4050	T-3	1977	10	11.30000	01	18	03.99	-00	28	23.9		4	675	
4050	T-3	1977	10	11.36771	01	18	00.52	-00	28	50.4		4	675	
4050	T-3	1977	10	12.29826	01	17	13.89	-00	35	00.2		4	675	
4050	T-3	1977	10	12.36441	01	17	10.39	-00	35	27.5		4	675	
4050	T-3	*	1977	10	16.28368	01	13	52.86	-01	00	25.1	17.9	4	675
4050	T-3	1977	10	16.34931	01	13	49.50	-01	00	49.2		4	675	
4050	T-3	1977	10	17.28628	01	13	02.62	-01	06	31.8		4	675	
4050	T-3	1977	10	17.35313	01	12	59.04	-01	06	54.6		4	675	
4050	T-3	1977	10	21.38698	01	09	39.87	-01	29	50.2		4	675	
4050	T-3	1977	10	21.44705	01	09	36.81	-01	30	10.5		4	675	
4050	T-3	1977	10	22.38542	01	08	51.80	-01	35	06.2		4	675	
4050	T-3	1977	10	22.44878	01	08	48.68	-01	35	27.2		4	675	
4179	T-3	1971	05	13.17535	11	58	03.66	+06	14	11.8		4	675	
4179	T-3	1971	05	14.20694	11	57	54.68	+06	13	56.3		4	675	
32		1991	09	12.47793	00	40	50.52	+09	39	59.2		9	675	
32		1991	09	12.50122	00	40	49.51	+09	39	52.3		9	675	
32		1991	09	14.40191	00	39	30.95	+09	30	14.6		9	675	
32		1991	09	14.45498	00	39	28.64	+09	29	57.9		9	675	
55		1991	09	10.40573	01	10	19.12	+06	27	07.5		9	675	
55		1991	09	10.46042	01	10	17.26	+06	27	08.4		9	675	
55		1991	09	14.41091	01	07	59.86	+06	27	31.4		9	675	
55		1991	09	14.46302	01	07	57.81	+06	27	31.7		9	675	
55		1991	09	16.46272	01	06	39.53	+06	27	02.5		9	675	
55		1991	09	16.49449	01	06	38.19	+06	27	02.6		9	675	
104		1991	09	17.40885	00	37	58.85	+01	14	35.1		9	675	
104		1991	09	17.45938	00	37	56.73	+01	14	23.8		9	675	

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116	1991 09 10.46042	01 28 31.59	+05 02 03.6	9 675
116	1991 09 16.46272	01 25 24.10	+04 41 46.9	9 675
116	1991 09 16.49449	01 25 23.03	+04 41 39.7	9 675
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160	1991 09 10.46042	01 35 27.50	+10 18 13.3	9 675
160	1991 09 16.46272	01 32 44.33	+10 12 34.7	9 675
160	1991 09 16.49449	01 32 43.30	+10 12 32.2	9 675
224	1991 09 10.37515	00 32 13.78	+04 54 24.0	9 675
224	1991 09 10.42622	00 32 11.32	+04 54 16.2	9 675
224	1991 09 17.40885	00 26 32.56	+04 36 16.5	9 675
224	1991 09 17.45938	00 26 29.89	+04 36 07.8	9 675
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395	1991 09 12.47793	00 48 43.15	+10 28 36.1	9 675
395	1991 09 12.50122	00 48 42.29	+10 28 31.2	9 675
395	1991 09 13.40370	00 48 07.22	+10 25 20.3	9 675
395	1991 09 13.46267	00 48 04.81	+10 25 08.3	9 675
395	1991 09 14.40191	00 47 27.41	+10 21 42.3	9 675
395	1991 09 14.45498	00 47 25.19	+10 21 31.1	9 675
395	1991 09 15.42644	00 46 45.50	+10 17 50.5	9 675
395	1991 09 15.47448	00 46 43.52	+10 17 39.7	9 675
454	1991 09 10.40573	01 16 23.44	+04 06 54.2	9 675
454	1991 09 10.46042	01 16 21.45	+04 06 46.6	9 675
557	1991 09 10.40573	01 18 35.04	+12 18 47.3	9 675
557	1991 09 10.46042	01 18 33.31	+12 18 41.7	9 675
557	1991 09 16.46272	01 15 10.53	+12 06 22.6	9 675
557	1991 09 16.49449	01 15 09.25	+12 06 16.6	9 675
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585	1991 09 10.42622	00 09 34.78	+01 41 26.9	9 675
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710	1991 09 16.46272	01 34 29.63	+07 44 26.0	9 675
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830	1991 09 13.40370	01 03 48.74	+09 34 09.9	9 675
830	1991 09 13.46267	01 03 46.77	+09 34 03.6	9 675
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842	1991 09 10.46042	01 25 44.24	+11 22 32.0	9 675
842	1991 09 16.46272	01 22 10.74	+11 37 00.6	9 675
842	1991 09 16.49449	01 22 09.43	+11 37 04.0	9 675
996	1991 09 11.40625	00 55 29.69	+06 16 01.9	16.5 9 675
996	1991 09 11.46094	00 55 27.79	+06 15 51.4	9 675
996	1991 09 14.41091	00 53 45.95	+06 05 51.4	16.8 9 675
996	1991 09 14.46302	00 53 44.01	+06 05 40.4	9 675
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1239	1991 09	10.42622	00 32	00.59	+00 46	15.5		9 675
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1570	1991 09	17.45938	00 23	34.61	+02 56	15.6		9 675
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1964	1991 09	13.46267	00 57	33.09	+10 00	10.9		9 675
1964	1991 09	15.42644	00 56	34.16	+09 54	07.9		9 675
1964	1991 09	15.47448	00 56	32.44	+09 53	56.5		9 675
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2017	1991 09	10.46042	01 35	09.23	+07 21	33.1		9 675
2017	1991 09	16.46272	01 32	39.61	+06 41	13.0		9 675

2017	1991 09 16.49449	01 32 38.52	+06 40 57.5	9 675
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2142	1991 09 10.37515	00 18 37.62	+01 35 39.2	9 675
2142	1991 09 10.42622	00 18 35.48	+01 35 26.4	9 675
2142	1991 09 17.45938	00 13 56.34	+01 04 06.2	9 675
2234	1991 09 10.40573	01 11 16.49	+08 54 29.9	9 675
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2442	1991 09 10.40573	01 21 19.57	+09 01 35.4	9 675
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4466	1991 09 10.37515	00 23 47.85	+02 01 32.4	17.8	9 675
4466	1991 09 10.42622	00 23 45.78	+02 01 16.8		9 675
4466	1991 09 17.40885	00 18 59.71	+01 24 46.8		9 675
4466	1991 09 17.45938	00 18 57.42	+01 24 29.6	17.2	9 675
4508	1991 09 10.40573	01 24 47.41	+05 24 56.2		9 675
4508	1991 09 10.46042	01 24 45.52	+05 24 42.1	17.5	9 675
4508	1991 09 16.46272	01 21 02.15	+04 57 33.2		9 675
4508	1991 09 16.49449	01 21 00.74	+04 57 24.0	17.5	9 675
4518	1991 09 10.37515	00 30 16.84	+00 45 51.4	17.5	9 675
4518	1991 09 10.42622	00 30 14.47	+00 45 23.1		9 675
4518	1991 09 17.40885	00 24 52.00	-00 18 02.4		9 675
4518	1991 09 17.45938	00 24 49.38	-00 18 31.0	17.8	9 675
4534	1991 09 12.47793	00 33 55.92	+12 59 24.4		9 675
4534	1991 09 12.50122	00 33 54.83	+12 59 22.6	17.2	9 675
4534	1991 09 14.40191	00 32 25.68	+12 55 30.8		9 675
4534	1991 09 14.45498	00 32 23.00	+12 55 25.2		9 675
4741	1971 05 13.20278	12 11 43.98	+00 22 46.7		4 675
4741	1971 05 14.23246	12 11 27.85	+00 23 58.1		4 675
4822	1971 05 13.17535	12 01 54.30	+04 51 43.0		4 675
4822	1971 05 13.20278	12 01 54.03	+04 51 43.4		4 675
4822	1971 05 14.20694	12 01 47.60	+04 51 27.3		4 675
4822	1971 05 14.23246	12 01 47.39	+04 51 26.3		4 675
4822	1971 05 16.31510	12 01 38.68	+04 50 19.3		4 675

4876	1971 05 13.18941	11 57 19.46	-00 21 36.1	4 675
4876	1971 05 14.21962	11 57 14.96	-00 20 33.4	4 675
4975	1971 05 13.17535	12 00 30.55	+03 56 48.2	4 675
4975	1971 05 14.20694	12 00 22.39	+03 59 24.7	4 675
4976	1991 08 06.39410	22 17 45.32	+02 37 53.5	9 675
4976	1991 08 06.42743	22 17 44.02	+02 37 50.2	9 675
4978	1971 05 13.17535	11 39 35.05	+06 47 20.2	4 675
4978	1971 05 14.20694	11 39 34.10	+06 47 12.7	4 675

691 Kitt Peak, Steward Observatory

T. Gehrels, Space Sciences Building, University of Arizona,
Tucson, AZ 85721, U.S.A.

Observers T. Gehrels, D. Rabinowitz, J. V. Scotti

0.91-m SPACEWATCH telescope

GSC

See also MPC 9198, MPC 10373 and Astron. J. 91, 1242, 1986

1990 VA	1991 10 15.38766	05 20 40.36	+25 30 07.4	19.2V	691
1990 VA	1991 10 15.40416	05 20 38.72	+25 29 27.7		691
1990 VA	1991 10 16.42510	05 19 03.93	+24 47 56.3	19.1V	691
1990 VA	1991 10 16.43796	05 19 02.49	+24 47 25.4	19.3V	691
1990 VA	1991 10 16.44963	05 19 01.34	+24 46 56.3	19.3V	691
1991 DG	1991 10 16.18780	23 05 13.21	-09 35 42.4	20.7V	691
1991 DG	1991 10 16.20063	23 05 13.15	-09 35 50.2		691
1991 DG	1991 10 16.21324	23 05 13.16	-09 35 57.6		691
1991 RJ2	1991 10 16.23895	23 38 53.51	-12 37 17.4	19.4V	691
1991 RJ2	1991 10 16.25153	23 38 54.33	-12 37 20.0		691
1991 RJ2	1991 10 16.27147	23 38 55.57	-12 37 24.3		691
1991 RJ2	1991 10 29.14697	23 54 37.51	-12 36 52.7		691
1991 RJ2	1991 10 29.16770	23 54 38.92	-12 36 48.1		691
1991 RJ2	1991 10 29.18954	23 54 40.48	-12 36 43.7	20.8V	691
1991 SS1 *	1991 09 29.37395	00 22 38.52	-07 12 04.8		691
1991 SS1	1991 09 29.39511	00 22 37.52	-07 12 00.2	16.9V	691
1991 SS1	1991 09 29.41630	00 22 36.50	-07 11 55.5		691
1991 SS1	1991 10 02.26067	00 20 33.70	-07 00 34.8	16.8V	691
1991 SS1	1991 10 02.28197	00 20 32.65	-07 00 29.0		691
1991 SS1	1991 10 02.30238	00 20 31.65	-07 00 23.7		691
1991 SS1	1991 10 14.23236	00 12 32.68	-05 49 01.3	17.5V	691
1991 SS1	1991 10 14.24900	00 12 32.04	-05 48 53.7		691
1991 SS1	1991 10 14.26551	00 12 31.39	-05 48 45.8		691
1991 TT *	1991 10 06.44384	01 23 18.33	+03 42 25.8	19.3V	691
1991 TT	1991 10 06.46461	01 23 36.18	+03 32 47.5		691
1991 TT	1991 10 06.48526	01 23 53.93	+03 23 17.7		691
1991 TT	1991 10 06.49292	01 24 00.74	+03 19 42.1		691
1991 TT	1991 10 06.50046	01 24 06.63	+03 16 22.6		691
1991 TT	1991 10 06.50772	01 24 14.00	+03 12 45.5		691
1991 TT	1991 10 06.51498	01 24 19.73	+03 09 38.7		691
1991 TT	1991 10 07.26339	01 36 22.13	-02 41 40.2	19.3V	691
1991 TT	1991 10 07.28319	01 36 39.12	-02 51 08.0		691
1991 TT	1991 10 07.44086	01 38 54.00	-04 06 08.6		691
1991 TT	1991 10 07.45782	01 39 08.74	-04 14 10.7		691
1991 TT	1991 10 09.24869	02 08 32.95	-18 08 54.0		691
1991 TT	1991 10 09.25580	02 08 39.08	-18 12 04.2		691
1991 TT	1991 10 09.38376	02 10 33.30	-19 08 39.8		691
1991 TU *	1991 10 07.30980	01 05 06.95	+03 50 17.8		691
1991 TU	1991 10 07.36094	01 10 05.03	+03 01 12.7	17.9V	691
1991 TU	1991 10 07.42489	01 16 38.96	+01 56 28.6		691
1991 TU	1991 10 07.43235	01 17 26.93	+01 48 36.6	17.8V	691
1991 TU	1991 10 07.49265	01 24 07.15	+00 43 58.4		691
1991 TU	1991 10 07.49937	01 24 54.20	+00 36 31.3		691

1991 TO1 *	1991 10 14.47487	09 01 57.94	+18 33 53.0		691
1991 TO1	1991 10 14.49012	09 01 59.23	+18 33 45.2	19.7V	691
1991 TO1	1991 10 14.50513	09 02 00.53	+18 33 39.1		691
1991 TO1	1991 10 15.46060	09 03 22.94	+18 25 58.6		691
1991 TO1	1991 10 15.47574	09 03 24.26	+18 25 51.7	20.4V	691
1991 TO1	1991 10 15.49161	09 03 25.81	+18 25 43.4		691
1991 TD2 *	1991 10 08.42459	01 50 52.39	+05 56 58.4		691
1991 TD2	1991 10 08.44566	01 50 51.16	+05 56 45.3	20.4V	691
1991 TD2	1991 10 08.46616	01 50 50.07	+05 56 33.6		691
1991 TD2	1991 10 09.35715	01 50 02.66	+05 47 42.1		691
1991 TD2	1991 10 09.36408	01 50 02.25	+05 47 38.6		691
1991 TD2	1991 10 09.37099	01 50 01.89	+05 47 34.4	20.6V	691
1991 TD2	1991 10 10.36332	01 49 08.01	+05 37 43.9	20.0V	691
1991 TD2	1991 10 10.37030	01 49 07.62	+05 37 39.6		691
1991 TD2	1991 10 10.37795	01 49 07.15	+05 37 34.8		691
1991 TD2	1991 10 16.35992	01 43 32.34	+04 39 06.0		691
1991 TD2	1991 10 16.36738	01 43 31.94	+04 39 01.6		691
1991 TD2	1991 10 16.37825	01 43 31.29	+04 38 55.9	20.0V	691
1991 UH1 *	1991 10 29.21872	03 49 02.35	+14 08 43.7		691
1991 UH1	1991 10 29.22803	03 49 01.89	+14 08 41.5	20.2V	691
1991 UH1	1991 10 29.23741	03 49 01.44	+14 08 41.9		691
1991 UH1	1991 10 30.21231	03 48 14.14	+14 07 14.7	19.4V	691
1991 UH1	1991 10 30.23101	03 48 13.18	+14 07 12.3		691
1991 UH1	1991 10 31.25525	03 47 22.29	+14 05 39.6		691
1991 UH1	1991 10 31.29496	03 47 20.24	+14 05 35.8	19.9V	691
1991 UJ1 *	1991 10 29.22009	03 51 01.06	+14 23 55.6		691
1991 UJ1	1991 10 29.22941	03 51 00.64	+14 23 53.5		691
1991 UJ1	1991 10 29.23879	03 51 00.22	+14 23 51.6	19.7V	691
1991 UJ1	1991 10 30.21378	03 50 20.88	+14 19 19.0		691
1991 UJ1	1991 10 30.23248	03 50 20.12	+14 19 14.5	19.7V	691
1991 UJ1	1991 10 31.25681	03 49 37.43	+14 14 27.8		691
1991 UJ1	1991 10 31.29653	03 49 35.71	+14 14 16.2	19.2V	691
1991 UO1 *	1991 10 31.37352	02 24 04.52	+07 30 17.9		691
1991 UO1	1991 10 31.39898	02 24 02.60	+07 30 13.5	20.0V	691
1991 UO1	1991 10 31.42011	02 24 01.04	+07 30 10.2		691
1991 UO1	1991 11 01.45419	02 22 46.23	+07 27 29.7	19.9V	691
1991 UO1	1991 11 01.46583	02 22 45.34	+07 27 27.8		691
1991 UO1	1991 11 02.27877	02 21 47.31	+07 25 27.2		691
1991 UO1	1991 11 02.28784	02 21 46.59	+07 25 25.6	20.0V	691
1991 VA *	1991 11 01.16405	01 04 45.88	+09 15 25.5		691
1991 VA	1991 11 01.17858	01 05 05.58	+09 23 57.5		691
1991 VA	1991 11 01.18833	01 05 18.27	+09 29 28.8		691
1991 VA	1991 11 01.27937	01 07 17.40	+10 21 00.8		691
1991 VA	1991 11 01.28734	01 07 27.65	+10 25 30.6	19.2V	691
1991 VA	1991 11 01.36377	01 09 05.37	+11 06 40.0		691
1991 VA	1991 11 01.43723	01 10 40.93	+11 44 56.4		691
1991 VA	1991 11 01.44471	01 10 50.98	+11 48 46.5		691
1991 VA	1991 11 02.16969	01 26 11.91	+17 12 43.7	19.7V	691
1991 VA	1991 11 02.17738	01 26 18.79	+17 15 36.3		691
1991 VA	1991 11 02.29511	01 28 06.54	+17 59 40.2		691
1991 VA	1991 11 02.45173	01 30 29.14	+18 53 50.2		691
6743 P-L	1991 09 15.18067	20 13 43.07	-28 44 35.4		691
6743 P-L	1991 09 15.19089	20 13 42.62	-28 44 33.9		691
6743 P-L	1991 09 15.20326	20 13 42.06	-28 44 31.0	20.9V	691
6743 P-L	1991 09 15.21523	20 13 41.59	-28 44 29.2		691
435	1991 10 14.47298	08 59 13.83	+18 51 22.9	15.4V	691
435	1991 10 14.48823	08 59 15.01	+18 51 18.7		691
435	1991 10 14.50323	08 59 16.15	+18 51 14.3		691
435	1991 10 15.45861	09 00 29.99	+18 46 35.4		691

435	1991	10	15.47375	09	00	31.18	+18	46	31.0	16.1V	691
435	1991	10	15.48961	09	00	32.40	+18	46	26.6		691
1777	1991	10	14.47908	09	08	02.63	+18	28	05.8		691
1777	1991	10	14.49433	09	08	03.87	+18	28	00.4	16.6V	691
1777	1991	10	14.50933	09	08	05.09	+18	27	54.9		691
1777	1991	10	15.46477	09	09	24.12	+18	22	08.3	17.4V	691
1777	1991	10	15.47990	09	09	25.37	+18	22	02.9		691
1777	1991	10	15.49577	09	09	26.62	+18	21	57.1		691
1912	1991	10	14.47515	09	02	21.80	+18	44	44.2	16.9V	691
1912	1991	10	14.49040	09	02	22.89	+18	44	40.3		691
1912	1991	10	14.50540	09	02	24.00	+18	44	36.5		691
1912	1991	10	15.46072	09	03	33.27	+18	40	41.2	17.8V	691
1912	1991	10	15.47586	09	03	34.37	+18	40	37.5		691

801 Oak Ridge

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Observers R. E. McCrosky, C.-Y. Shao

1.5-m reflector + CCD

1943	EN	1991	10	10.27950	02	31	53.28	+18	17	09.2	801
1943	EN	1991	10	10.29536	02	31	52.40	+18	17	08.5	801
1949	PQ	1987	06	24.16891	16	23	46.35	-21	59	11.3	801
1964	VT1	1991	10	08.18101	00	16	03.12	-02	14	43.2	801
1964	VT1	1991	10	08.19558	00	16	02.37	-02	14	46.5	801
1964	VT1	1991	10	09.17640	00	15	14.47	-02	18	21.0	801
1964	VT1	1991	10	09.19155	00	15	13.71	-02	18	24.3	801
1969	TB3	1991	10	10.38419	05	04	47.95	+24	26	20.0	801
1969	TB3	1991	10	10.41453	05	04	48.36	+24	26	20.0	801
1972	KL	1991	10	05.11358	22	52	18.23	-13	57	09.9	801
1972	KL	1991	10	05.13230	22	52	17.69	-13	57	13.2	801
1972	KL	1991	10	08.05374	22	51	13.09	-14	04	11.4	801
1972	KL	1991	10	08.08951	22	51	12.24	-14	04	16.1	801
1972	RF	1991	10	04.33003	03	19	28.97	-06	48	27.4	801
1972	RF	1991	10	04.34448	03	19	28.70	-06	48	44.3	801
1972	RF	1991	10	08.34387	03	18	08.18	-08	06	45.6	801
1972	RF	1991	10	08.36117	03	18	07.74	-08	07	05.7	801
1972	RY3	1991	10	09.22406	00	34	35.18	-02	04	17.9	801
1972	RY3	1991	10	09.24181	00	34	34.35	-02	04	20.3	801
1974	ME	1991	10	10.27245	02	16	34.99	-01	05	16.0	801
1974	ME	1991	10	10.28794	02	16	34.29	-01	05	19.5	801
1974	ST	1991	10	08.18682	00	24	52.72	-01	16	04.5	801
1974	ST	1991	10	08.19858	00	24	52.19	-01	16	07.8	801
1974	ST	1991	10	09.18914	00	24	08.85	-01	20	29.5	801
1974	ST	1991	10	09.20222	00	24	08.21	-01	20	32.9	801
1974	SX1	1991	10	08.04968	21	27	31.00	-19	59	14.1	801
1974	SX1	1991	10	08.07216	21	27	31.37	-19	59	03.3	801
1974	SX1	1991	10	08.97807	21	27	50.37	-19	51	53.3	801
1974	SX1	1991	10	08.99881	21	27	50.77	-19	51	43.7	801
1975	TX2	1991	10	09.32978	04	58	46.34	+22	51	31.7	801
1975	TX2	1991	10	09.36360	04	58	46.98	+22	51	39.6	801
1975	TX2	1991	10	10.38081	04	59	07.30	+22	55	41.1	801
1975	TX2	1991	10	10.40475	04	59	07.72	+22	55	46.8	801
1975	VP	1991	10	08.20676	00	39	32.64	-01	11	14.3	801
1975	VP	1991	10	08.22204	00	39	31.77	-01	11	21.2	801
1975	VP	1991	10	09.23255	00	38	37.34	-01	18	54.0	801
1975	VP	1991	10	09.24488	00	38	36.64	-01	18	59.4	801
1975	YD	1991	10	04.31281	02	38	57.78	+19	42	36.0	r 801
1975	YD	1991	10	04.33639	02	38	57.48	+19	42	23.8	r 801
1975	YD	1991	10	07.27565	02	38	21.65	+19	15	42.7	801

1975 YD	1991 10 07.29788	02 38 21.26	+19 15 29.9	801
1976 GK3	1991 10 09.37310	06 03 28.82	+07 08 08.7	801
1976 GK3	1991 10 09.39220	06 03 29.55	+07 07 58.5	801
1976 GX3	1991 10 11.32749	03 52 40.10	+16 50 13.8	801
1976 GX3	1991 10 11.35781	03 52 39.29	+16 50 07.5	801
1976 SJ	1991 10 09.32596	04 47 15.22	+19 18 53.7	801
1976 SJ	1991 10 09.34972	04 47 15.86	+19 18 51.8	801
1976 SJ	1991 10 11.33346	04 48 08.91	+19 16 04.2	801
1976 SJ	1991 10 11.37911	04 48 09.91	+19 16 00.4	801
1977 DS2	1991 10 09.15015	23 58 20.03	-16 56 42.6	801
1977 DS2	1991 10 09.17100	23 58 19.25	-16 56 49.5	801
1977 DY8	1991 10 09.16554	23 58 57.15	-03 00 04.9	801
1977 DY8	1991 10 09.18219	23 58 56.20	-03 00 07.5	801
1977 NN	1991 10 08.34686	03 26 49.59	+26 56 00.1	801
1977 NN	1991 10 08.36688	03 26 48.83	+26 56 02.6	I 801
1977 NN	1991 10 11.32090	03 25 07.89	+26 58 46.6	801
1977 NN	1991 10 11.35109	03 25 06.71	+26 58 47.7	801
1977 QD2	1991 10 11.13471	00 01 07.60	+04 33 31.8	801
1977 QD2	1991 10 11.15003	00 01 06.81	+04 33 30.9	801
1977 QH4	1991 10 04.38804	05 13 54.97	+30 37 19.6	801
1977 QH4	1991 10 04.40399	05 13 55.76	+30 37 24.5	801
1977 QH4	1991 10 07.37281	05 16 18.72	+30 52 40.5	801
1977 QH4	1991 10 07.38868	05 16 19.39	+30 52 45.2	801
1977 RK	1991 10 04.35303	03 45 41.41	+13 03 09.6	801
1977 RK	1991 10 04.36824	03 45 40.96	+13 03 17.1	801
1977 RK	1991 10 07.31652	03 44 10.93	+13 27 04.6	801
1977 RK	1991 10 07.34053	03 44 09.99	+13 27 14.0	801
1977 RY6	1991 10 04.31700	02 42 02.92	+22 30 41.6	801
1977 RY6	1991 10 04.33916	02 42 02.08	+22 30 46.4	801
1977 RY6	1991 10 08.33084	02 39 25.20	+22 43 01.2	801
1977 RY6	1991 10 08.35241	02 39 24.23	+22 43 04.7	801
1977 SG3	1991 10 07.39211	05 39 56.43	+21 38 10.0	801
1977 SG3	1991 10 07.40580	05 39 57.08	+21 38 06.1	801
1977 SG3	1991 10 10.39409	05 42 37.67	+21 50 39.2	801
1977 SG3	1991 10 10.40962	05 42 38.44	+21 50 43.1	801
1978 SM5	1991 10 11.21279	00 46 17.45	+00 49 22.3	801
1978 SM5	1991 10 11.22943	00 46 16.56	+00 49 18.2	801
1978 SL6	1991 09 09.08859	21 45 00.65	-15 07 10.5	801
1978 SL6	1991 09 09.10682	21 44 59.91	-15 07 14.4	801
1978 SL6	1991 09 12.05566	21 43 17.70	-15 15 30.6	801
1978 SL6	1991 09 12.07644	21 43 16.93	-15 15 33.5	801
1979 FQ2	1991 10 09.14712	23 48 08.67	-15 52 48.3	801
1979 FQ2	1991 10 09.16818	23 48 07.74	-15 52 49.0	801
1979 MS6	1991 10 08.21407	00 40 26.22	+11 53 11.6	801
1979 MS6	1991 10 08.22897	00 40 25.39	+11 53 05.3	801
1979 MS6	1991 10 09.23506	00 39 31.34	+11 45 46.5	801
1979 MS6	1991 10 09.24744	00 39 30.66	+11 45 41.0	801
1979 QK4	1991 10 09.22193	00 32 58.13	+03 28 19.9	801
1979 QK4	1991 10 09.23771	00 32 57.35	+03 28 15.2	801
1980 TW5	1991 10 10.26875	02 15 08.91	+18 44 16.4	801
1980 TW5	1991 10 10.28550	02 15 08.21	+18 44 13.0	801
1980 TW5	1991 10 11.28943	02 14 26.21	+18 40 48.4	801
1980 TW5	1991 10 11.30617	02 14 25.50	+18 40 45.0	801
1980 TB12	1991 10 09.20593	00 26 09.08	+10 21 47.1	801
1980 TB12	1991 10 09.22013	00 26 08.49	+10 21 40.9	801
1980 YC	1991 10 04.38428	05 12 14.02	+21 59 39.6	801
1980 YC	1991 10 04.40102	05 12 14.72	+21 59 43.9	801
1981 DQ	1991 10 09.10775	00 04 53.42	+13 28 11.2	801
1981 DQ	1991 10 09.11873	00 04 52.93	+13 28 03.8	801

1981 DQ	1991 10 11.12830	00 03 28.94	+13 05 12.5	801
1981 DQ	1991 10 11.14534	00 03 28.21	+13 05 00.7	801
1981 QH2	1991 10 04.26306	01 35 36.22	+03 02 44.5	801
1981 QH2	1991 10 04.27406	01 35 35.71	+03 02 38.7	801
1981 QH2	1991 10 08.25356	01 32 34.26	+02 28 33.0	801
1981 QH2	1991 10 08.26905	01 32 33.47	+02 28 25.1	801
1981 QP3	1991 09 13.24641	00 36 34.93	-01 03 54.4	801
1981 QP3	1991 09 13.26375	00 36 34.19	-01 04 00.1	801
1981 QP3	1991 10 09.17972	00 16 36.42	-03 04 50.3	801
1981 QP3	1991 10 09.19419	00 16 35.75	-03 04 53.6	801
1981 RR3	1991 10 09.18433	00 18 58.30	-02 55 18.7	801
1981 RR3	1991 10 09.19991	00 18 57.68	-02 55 27.5	801
1981 UT	1991 10 07.30046	03 23 32.14	+22 18 58.6	801
1981 UT	1991 10 07.34310	03 23 31.29	+22 19 03.4	801
1981 UT	1991 10 11.31385	03 22 05.90	+22 25 31.5	801
1981 UT	1991 10 11.35395	03 22 04.74	+22 25 34.6	801
1981 VC1	1991 10 07.35758	05 03 24.67	+22 45 18.7	801
1981 VC1	1991 10 07.38216	05 03 25.51	+22 45 22.8	801
1981 VC1	1991 10 09.33303	05 04 32.67	+22 50 29.6	801
1981 VC1	1991 10 09.35671	05 04 33.33	+22 50 33.2	801
1981 WR	1991 10 08.14118	23 44 01.58	-09 31 34.8	801
1981 WR	1991 10 08.16443	23 44 00.25	-09 31 40.7	801
1981 WR	1991 10 09.09471	23 43 16.15	-09 35 48.7	801
1981 WR	1991 10 09.11057	23 43 15.38	-09 35 53.2	801
1982 BQ2	1991 10 04.26591	01 36 08.66	+03 12 33.5	801
1982 BQ2	1991 10 04.27723	01 36 08.12	+03 12 28.5	801
1982 BQ2	1991 10 09.25942	01 32 01.93	+02 35 21.1	801
1982 DQ6	1991 10 08.33686	02 51 15.11	+19 11 50.2	801
1982 DQ6	1991 10 08.36352	02 51 14.03	+19 11 52.8	801
1982 DQ6	1991 10 11.29688	02 49 13.23	+19 16 10.0	801
1982 DQ6	1991 10 11.31079	02 49 12.61	+19 16 10.8	801
1982 SX5	1991 10 07.30257	03 25 57.65	+22 02 34.4	I 801
1982 SX5	1991 10 07.33619	03 25 56.57	+22 02 34.2	801
1982 SX5	1991 10 11.31647	03 23 51.97	+21 58 56.9	801
1982 SX5	1991 10 11.33977	03 23 51.13	+21 58 55.3	801
1983 RQ4	1991 10 11.22691	01 04 34.61	+05 30 28.6	801
1983 RQ4	1991 10 11.23959	01 04 34.00	+05 30 21.1	801
1983 TE1	1991 10 09.32251	04 34 48.13	+19 14 32.6	801
1983 TE1	1991 10 09.36064	04 34 48.61	+19 14 24.1	801
1985 CG	1991 10 11.32424	03 36 22.95	+14 12 41.6	801
1985 CG	1991 10 11.36186	03 36 22.35	+14 12 38.1	801
1985 VP	1991 10 09.28156	01 38 30.86	+22 55 34.7	801
1985 VP	1991 10 09.30487	01 38 29.62	+22 55 34.6	801
1986 EJ	1991 10 09.09094	23 45 55.60	+18 49 37.4	801
1986 EJ	1991 10 09.10330	23 45 54.74	+18 49 35.5	801
1986 EJ	1991 10 11.11075	23 43 41.36	+18 44 06.6	801
1986 EJ	1991 10 11.12299	23 43 40.56	+18 44 04.4	801
1986 QY	1991 10 07.27221	02 16 47.94	+15 46 04.0	w 801
1986 QY	1991 10 07.29394	02 16 46.98	+15 46 03.2	w 801
1986 RD1	1991 10 07.26778	01 54 54.39	+25 39 57.4	801
1986 RD1	1991 10 07.28987	01 54 53.28	+25 39 57.4	801
1986 RK1	1991 10 08.33389	02 48 22.22	+10 34 00.5	801
1986 RK1	1991 10 08.35714	02 48 21.41	+10 33 55.8	801
1986 RF13	1991 10 08.09485	23 38 21.74	-06 43 00.1	801
1986 RF13	1991 10 08.11432	23 38 20.99	-06 43 04.4	801
1986 RF13	1991 10 09.04005	23 37 46.43	-06 46 41.3	801
1986 RF13	1991 10 09.05995	23 37 45.68	-06 46 45.7	801
1986 RF13	1991 10 11.10564	23 36 31.94	-06 54 19.2	801
1986 UM1	1991 10 10.32559	03 38 43.50	+21 17 08.0	801

1986 UM1	1991 10	10.35646	03 38	42.75	+21 17	10.2	801
1986 VT	1991 10	04.22757	23 29	52.52	-02 37	51.7	801
1986 VT	1991 10	04.24169	23 29	51.99	-02 37	55.4	801
1986 VT	1991 10	08.09293	23 27	38.35	-02 54	42.6	801
1986 VT	1991 10	08.11234	23 27	37.69	-02 54	47.3	801
1986 VD1	1991 10	10.28251	02 34	50.00	+33 03	52.4	801
1986 VD1	1991 10	10.29785	02 34	49.31	+33 03	54.0	801
1986 VD1	1991 10	11.29236	02 34	05.90	+33 05	34.7	801
1986 VD1	1991 10	11.30844	02 34	05.15	+33 05	36.1	801
1987 OC	1991 10	08.12297	03 06	57.03	+49 51	03.9	801
1987 OC	1991 10	08.15271	03 06	55.73	+49 51	04.2	801
1987 OC	1991 10	09.13693	03 06	13.98	+49 50	49.8	801
1987 OC	1991 10	09.15924	03 06	12.95	+49 50	49.3	801
1987 QL1	1991 10	07.30991	03 37	47.41	+26 37	57.5	801
1987 QL1	1991 10	07.34502	03 37	46.53	+26 37	59.2	801
1987 QL1	1991 10	10.32168	03 36	28.11	+26 39	59.4	801
1987 QL1	1991 10	10.35318	03 36	27.09	+26 39	59.9	801
1987 QG2	1991 10	07.32685	03 58	36.76	+30 43	32.1	801
1987 QG2	1991 10	07.36513	03 58	36.78	+30 43	44.8	801
1987 QG2	1991 10	10.34230	03 58	35.37	+30 58	38.5	801
1987 QG2	1991 10	10.37220	03 58	35.17	+30 58	46.8	801
1987 SQ3	1991 10	07.26286	01 41	17.49	+22 49	29.8	801
1987 SQ3	1991 10	07.27791	01 41	16.62	+22 49	29.3	801
1987 SQ3	1991 10	11.24674	01 37	29.88	+22 45	03.0	801
1987 SQ3	1991 10	11.25420	01 37	29.44	+22 45	02.0	801
1987 SE4	1991 10	07.36090	05 06	19.38	+24 44	10.7	801
1987 SE4	1991 10	07.38494	05 06	19.94	+24 44	09.0	801
1987 SE4	1991 10	09.33690	05 07	05.75	+24 41	32.2	801
1987 SE4	1991 10	09.36661	05 07	06.33	+24 41	30.0	801
1987 ST17	1991 10	09.31806	04 24	02.23	+21 20	13.0	801
1987 ST17	1991 10	09.35233	04 24	02.47	+21 20	04.8	801
1987 UW	1991 10	04.22419	23 00	24.41	+21 02	55.7	801
1987 UW	1991 10	04.23488	23 00	24.16	+21 02	39.8	801
1987 UW	1991 10	08.05667	22 59	12.15	+19 27	47.3	801
1987 UW	1991 10	08.06587	22 59	11.98	+19 27	33.5	801
1987 UW	1991 10	11.05090	22 58	31.47	+18 12	55.8	801
1987 UW	1991 10	11.05738	22 58	31.38	+18 12	46.1	801
1987 YH	1991 10	09.19765	00 25	27.43	-06 08	39.8	801
1987 YH	1991 10	09.21443	00 25	26.63	-06 08	47.2	801
1988 AF	1991 10	09.38672	06 40	28.50	+33 20	18.8	801
1988 AF	1991 10	09.40118	06 40	29.53	+33 20	18.2	801
1988 AG	1991 10	04.25190	01 12	23.26	+16 58	49.3	801
1988 AG	1991 10	04.26866	01 12	22.34	+16 58	47.1	801
1988 AG	1991 10	08.24296	01 08	46.79	+16 50	24.6	801
1988 AG	1991 10	08.26023	01 08	45.81	+16 50	22.1	801
1988 AF1	1991 10	04.37282	04 03	17.99	+19 22	44.9	801
1988 AF1	1991 10	04.39639	04 03	18.73	+19 22	49.5	801
1988 AF1	1991 10	09.30990	04 05	35.06	+19 38	29.4	801
1988 AF1	1991 10	09.33919	04 05	35.69	+19 38	34.9	801
1988 BL2	1991 10	04.25767	01 14	29.34	-00 30	40.6	801
1988 BL2	1991 10	04.27149	01 14	28.48	-00 30	39.8	801
1988 BL2	1991 10	08.24591	01 10	21.37	-00 25	52.4	801
1988 BL2	1991 10	08.26424	01 10	20.19	-00 25	51.0	801
1988 BK5	1991 10	05.13648	22 48	11.96	+14 27	01.2	801
1988 BK5	1991 10	05.15948	22 48	11.00	+14 26	55.9	801
1988 BK5	1991 10	08.04581	22 46	22.79	+14 15	17.8	801
1988 BK5	1991 10	08.06858	22 46	21.97	+14 15	11.8	801
1988 DJ	1991 10	04.28626	01 49	30.71	+19 13	55.1	801
1988 DJ	1991 10	04.30696	01 49	29.88	+19 13	49.4	801

1988 DJ	1991 10	08.28358	01 46	49.11	+18 54	39.3	801
1988 DJ	1991 10	08.30094	01 46	48.38	+18 54	33.8	801
1988 EL	1991 09	07.17872	22 24	10.78	-19 23	52.3	801
1988 EL	1991 09	07.18623	22 24	10.02	-19 23	48.8	801
1988 EL	1991 09	09.12779	22 21	00.02	-19 08	16.5	801
1988 EL	1991 09	09.13992	22 20	58.81	-19 08	10.6	801
1988 VK4	1991 10	09.21770	00 31	24.76	-00 58	34.2	801
1988 VK4	1991 10	09.23032	00 31	23.92	-00 58	35.7	801
1988 WB	1991 10	08.17738	00 08	11.99	+04 04	20.3	801
1988 WB	1991 10	08.19215	00 08	11.14	+04 04	14.7	801
1988 WB	1991 10	09.17368	00 07	16.44	+03 58	09.8	801
1988 WB	1991 10	09.18656	00 07	15.71	+03 58	04.9	801
1988 XE1	1991 10	05.09585	21 49	01.94	-03 36	28.8	801
1988 XE1	1991 10	05.12135	21 49	01.53	-03 36	35.5	801
1988 XE1	1991 10	07.99914	21 48	26.85	-03 49	21.0	801
1988 XE1	1991 10	08.03612	21 48	26.42	-03 49	30.3	801
1989 AL1	1991 10	05.25345	02 05	33.33	-00 26	59.4	801
1989 AL1	1991 10	05.26995	02 05	32.53	-00 27	05.1	801
1989 AL1	1991 10	08.29306	02 03	05.33	-00 44	05.4	801
1989 AL1	1991 10	08.30821	02 03	04.54	-00 44	10.5	801
1989 AX1	1991 10	07.35457	04 24	22.42	+29 20	28.2	801
1989 AX1	1991 10	07.37933	04 24	22.87	+29 20	38.8	801
1989 AX1	1991 10	09.32041	04 24	59.30	+29 34	42.3	801
1989 AX1	1991 10	09.34742	04 24	59.65	+29 34	54.1	801
1989 BS1	1991 10	08.25719	01 34	05.52	+13 36	18.2	801
1989 BS1	1991 10	08.27223	01 34	04.66	+13 36	15.5	801
1989 BS1	1991 10	09.27863	01 33	09.81	+13 32	52.5	801
1989 BS1	1991 10	09.30252	01 33	08.47	+13 32	47.2	801
1989 CN1	1991 10	08.14450	23 49	52.35	-03 25	36.8	801
1989 CN1	1991 10	08.16723	23 49	51.13	-03 25	42.0	801
1989 CN1	1991 10	09.09961	23 49	02.85	-03 29	04.9	801
1989 CN1	1991 10	09.11531	23 49	02.02	-03 29	08.1	801
1989 CD4	1991 10	07.33039	03 58	21.48	+27 14	22.5	U 801
1989 CD4	1991 10	07.36784	03 58	21.80	+27 14	31.6	801
1989 CD4	1991 10	10.34484	03 58	41.71	+27 25	38.5	801
1989 CD4	1991 10	10.37501	03 58	41.73	+27 25	44.7	801
1989 CU8	1991 10	08.03309	21 59	18.32	-14 07	06.2	I 801
1989 CU8	1991 10	08.08288	21 59	17.61	-14 07	06.3	I 801
1989 CU8	1991 10	08.99016	21 59	06.32	-14 07	09.5	801
1989 CU8	1991 10	09.03619	21 59	05.72	-14 07	10.2	801
1989 CU8	1991 10	11.01944	21 58	45.05	-14 06	57.2	801
1989 CU8	1991 10	11.08810	21 58	44.33	-14 06	56.3	801
1989 EL6	1991 10	11.06005	23 23	36.51	-03 49	48.5	801
1989 EL6	1991 10	11.07580	23 23	35.83	-03 49	51.2	801
1989 GN	1991 10	09.38372	06 38	52.17	+11 10	46.3	801
1989 GN	1991 10	09.39478	06 38	52.75	+11 10	41.9	801
1989 GB1	1991 10	08.00184	21 59	01.91	-05 35	15.1	801
1989 GB1	1991 10	08.03892	21 59	01.27	-05 35	23.4	801
1989 GB1	1991 10	11.01579	21 58	22.81	-05 45	35.2	801
1989 GB1	1991 10	11.05457	21 58	22.33	-05 45	43.2	801
1989 GB4	1991 10	05.27480	02 17	04.71	+15 27	23.4	801
1989 GB4	1991 10	05.29803	02 17	03.73	+15 27	19.7	801
1989 GB4	1991 10	11.28280	02 12	48.06	+15 09	40.2	801
1990 CH	1991 10	08.97498	20 43	27.62	-17 23	06.1	801
1990 CH	1991 10	09.01438	20 43	28.62	-17 22	57.2	801
1990 CH	1991 10	10.98383	20 44	21.84	-17 15	45.5	801
1990 CH	1991 10	11.00716	20 44	22.52	-17 15	40.4	801
1990 FP1	1991 10	05.06604	21 32	24.29	-18 16	34.6	801
1990 FP1	1991 10	05.10398	21 32	23.90	-18 16	28.8	801

1990 ME	1991 10	04.32175	03 00	44.35	+03 22	03.9	801
1990 ME	1991 10	04.34196	03 00	43.78	+03 21	54.3	801
1990 ME	1991 10	04.37977	03 00	42.72	+03 21	36.3	801
1990 ME	1991 10	04.39383	03 00	42.34	+03 21	29.8	801
1990 ME	1991 10	07.28590	02 59	19.68	+02 58	38.6	801
1990 ME	1991 10	07.30660	02 59	19.00	+02 58	28.4	801
1990 OO	1991 10	07.32031	03 52	44.80	+10 25	10.2	801
1990 OO	1991 10	07.34763	03 52	44.54	+10 25	00.4	801
1990 OO	1991 10	08.37419	03 52	34.77	+10 18	44.0	801
1990 OO	1991 10	08.39245	03 52	34.54	+10 18	37.4	801
1990 QJ	1991 10	08.10211	01 34	07.16	+48 55	57.4	801
1990 QJ	1991 10	08.11822	01 34	06.09	+48 55	57.7	801
1990 QJ	1991 10	09.13346	01 32	58.79	+48 56	15.3	801
1990 QJ	1991 10	09.15627	01 32	57.21	+48 56	15.6	801
1990 QG2	1991 10	09.38036	06 05	00.01	+06 45	06.9	801
1990 RW	1991 10	04.32619	03 29	30.84	+20 14	26.9	801
1990 RW	1991 10	04.36161	03 29	30.21	+20 14	25.6	801
1990 RW	1991 10	10.31426	03 27	23.15	+20 09	15.3	801
1990 RW	1991 10	10.34802	03 27	21.90	+20 09	07.2	801
1990 TC	1991 10	08.37925	05 27	40.56	+15 01	20.2	801
1990 TC	1991 10	08.39839	05 27	40.84	+15 01	16.1	801
1991 EE	1991 10	04.23042	23 29	27.88	-17 02	57.6	801
1991 EE	1991 10	04.24535	23 29	29.45	-17 02	53.1	801
1991 EE	1991 10	08.09771	23 36	19.27	-16 46	21.1	801
1991 EE	1991 10	08.10667	23 36	20.05	-16 46	18.5	t 801
1991 LE1	1991 09	13.01891	17 22	07.67	-19 31	48.7	801
1991 LE1	1991 09	13.02940	17 22	08.18	-19 31	53.6	801
1991 NL	1991 10	03.99087	19 23	02.71	-04 42	27.3	801
1991 NL	1991 10	03.99916	19 23	03.23	-04 42	27.6	801
1991 NL	1991 10	10.97125	19 31	36.54	-04 45	36.0	801
1991 NL	1991 10	10.98042	19 31	37.08	-04 45	35.4	801
1991 NP	1991 10	05.04063	19 36	56.85	-01 57	04.9	801
1991 NP	1991 10	05.05657	19 36	57.60	-01 57	03.8	801
1991 NP	1991 10	07.97659	19 39	24.73	-01 51	31.6	W 801
1991 NP	1991 10	07.99089	19 39	25.53	-01 51	29.7	801
1991 NR2	1991 10	04.03068	21 19	41.58	+18 28	48.8	801
1991 NR2	1991 10	04.04591	21 19	42.13	+18 28	44.9	801
1991 NR2	1991 10	05.07245	21 20	24.18	+18 24	17.8	801
1991 NR2	1991 10	05.08748	21 20	24.76	+18 24	13.8	801
1991 NR2	1991 10	07.98777	21 22	36.44	+18 11	21.8	801
1991 NR2	1991 10	08.00527	21 22	37.25	+18 11	17.2	801
1991 NR2	1991 10	09.97406	21 24	16.60	+18 02	25.1	801
1991 NR2	1991 10	10.05559	21 24	20.65	+18 02	02.9	801
1991 NR2	1991 10	11.02264	21 25	12.54	+17 57	41.1	801
1991 NR2	1991 10	11.03530	21 25	13.19	+17 57	37.6	801
1991 QG	1991 10	05.10007	22 07	26.61	-04 27	28.4	801
1991 QG	1991 10	05.11735	22 07	26.92	-04 27	36.1	801
1991 QG	1991 10	08.04251	22 08	38.32	-04 48	38.7	801
1991 QG	1991 10	08.06372	22 08	38.84	-04 48	47.2	801
7571 P-L	1991 10	08.99525	22 58	58.82	-13 40	23.2	801
7571 P-L	1991 10	09.02209	22 58	57.66	-13 40	23.9	801
7571 P-L	1991 10	11.06759	22 57	43.93	-13 40	40.2	801
7571 P-L	1991 10	11.09184	22 57	43.06	-13 40	40.3	801
9521 P-L	1991 10	09.22775	00 35	35.11	+00 01	03.8	801
9521 P-L	1991 10	09.23964	00 35	34.42	+00 00	59.3	801
3099 T-2	1991 10	07.37600	05 19	20.09	+11 06	41.0	801
3099 T-2	1991 10	07.40071	05 19	20.64	+11 06	37.1	801
3099 T-2	1991 10	10.39034	05 20	26.40	+10 53	19.3	801
3102 T-2	1991 10	08.27992	01 42	11.28	+17 23	32.4	801

3102	T-2	1991	10	08.29600	01	42	10.32	+17	23	32.9	801
3102	T-2	1991	10	09.28498	01	41	12.63	+17	23	57.1	801
3102	T-2	1991	10	09.30715	01	41	11.29	+17	23	57.4	801
5119	T-3	1991	10	07.39552	05	40	18.19	-02	35	17.2	801
5119	T-3	1991	10	07.40322	05	40	18.78	-02	35	26.0	801
5119	T-3	1991	10	08.38883	05	41	32.72	-02	53	51.1	801
5119	T-3	1991	10	08.39516	05	41	33.18	-02	53	57.7	801
243		1991	10	04.39100	05	48	50.44	+24	43	01.3	801
243		1991	10	04.40672	05	48	51.01	+24	43	01.9	801
243		1991	10	07.39837	05	50	38.64	+24	44	33.5	801
243		1991	10	07.41264	05	50	39.11	+24	44	34.1	801
1973		1991	09	09.15178	23	00	46.97	-01	00	12.3	801
1973		1991	09	09.16288	23	00	46.46	-01	00	18.1	801
2100		1991	10	09.40848	07	26	14.27	-16	09	09.3	801
2100		1991	10	09.40998	07	26	14.76	-16	09	17.6	801
4968		1991	10	09.40529	07	26	51.26	+17	40	29.6	801
4968		1991	10	09.41242	07	26	51.73	+17	40	28.5	801

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Measurers H. Debehogne, E. W. Elst, J. P. Olivier

1-m Schmidt, GPO 0.4-m astrograph

SAOC

1929	VS	1991	03	20.32638	13	14	15.17	-04	18	19.3	17.5	3	809
1929	VS	1991	03	20.33889	13	14	14.62	-04	18	16.7		3	809
1929	VS	1991	03	20.35139	13	14	14.08	-04	18	14.0		3	809
1929	VS	1991	03	21.33681	13	13	30.69	-04	14	43.4		3	809
1929	VS	1991	03	21.34930	13	13	30.12	-04	14	40.8		3	809
1929	VS	1991	03	21.36180	13	13	29.55	-04	14	37.9		3	809
1929	VS	1991	03	23.31285	13	12	01.62	-04	07	31.9		3	809
1929	VS	1991	03	23.32326	13	12	01.15	-04	07	29.6		3	809
1929	VS	1991	03	23.33368	13	12	00.69	-04	07	27.4		3	809
1969	TN4	1991	09	04.06875	20	57	42.17	-15	18	54.7		4	809
1969	TN4	1991	09	04.08194	20	57	41.57	-15	18	58.4		4	809
1969	TN4	1991	09	04.09514	20	57	40.99	-15	19	00.1		4	809
1969	TN4	1991	09	06.06389	20	56	18.56	-15	25	05.2	18.6	4	809
1969	TN4	1991	09	06.07708	20	56	17.80	-15	25	07.4		4	809
1969	TN4	1991	09	06.09028	20	56	17.31	-15	25	09.8		4	809
1973	UR5	1991	09	06.10833	21	25	35.47	-19	45	35.8	18.8	4	809
1973	UR5	1991	09	06.12153	21	25	34.71	-19	45	37.7		4	809
1973	UR5	1991	09	06.13472	21	25	34.03	-19	45	39.4		4	809
1974	VS	1991	03	20.09688	11	02	53.89	+09	52	09.6	16.8	3	809
1974	VS	1991	03	20.10729	11	02	53.41	+09	52	12.0		3	809
1974	VS	1991	03	20.11771	11	02	52.94	+09	52	14.4		3	809
1974	VS	1991	03	21.08437	11	02	09.00	+09	56	02.9		3	809
1974	VS	1991	03	21.09479	11	02	08.53	+09	56	05.3		3	809
1974	VS	1991	03	21.10521	11	02	08.07	+09	56	07.8		3	809
1974	VS	1991	03	23.20937	11	00	34.40	+10	04	04.6		3	809
1974	VS	1991	03	23.21979	11	00	33.95	+10	04	06.9		3	809
1974	VS	1991	03	23.23021	11	00	33.49	+10	04	09.3		3	809
1974	VS	1991	03	24.19410	10	59	51.62	+10	07	38.8		3	809
1974	VS	1991	03	24.20313	10	59	51.23	+10	07	40.8		3	809
1974	VS	1991	03	24.21215	10	59	50.83	+10	07	42.7		3	809
1975	VR5	1991	09	04.11597	21	37	54.03	-17	03	35.4		4	809
1975	VR5	1991	09	04.12917	21	37	53.36	-17	03	40.5		4	809

1975 VR5	1991 09 04.14236	21 37 52.64	-17 03 46.9		4 809
1975 VR5	1991 09 06.10833	21 36 17.33	-17 16 33.7	18.1	4 809
1975 VR5	1991 09 06.12153	21 36 16.65	-17 16 38.7		4 809
1975 VR5	1991 09 06.13472	21 36 15.99	-17 16 43.0		4 809
1976 QN	1991 03 10.11771	10 43 46.25	+08 11 44.4	17.5	3 809
1976 QN	1991 03 10.12813	10 43 45.61	+08 11 48.2		3 809
1976 QN	1991 03 10.13854	10 43 44.96	+08 11 52.3		3 809
1976 QN	1991 03 12.13368	10 41 41.06	+08 24 07.7		3 809
1976 QN	1991 03 12.14410	10 41 40.41	+08 24 11.4		3 809
1976 QN	1991 03 12.15451	10 41 39.76	+08 24 15.2		3 809
1976 QN	1991 03 15.18854	10 38 35.81	+08 42 19.5		3 809
1976 QN	1991 03 15.19896	10 38 35.20	+08 42 23.3		3 809
1976 QN	1991 03 15.20937	10 38 34.56	+08 42 27.1		3 809
1976 QC1	1991 03 20.16216	11 02 47.97	+05 03 32.0	17.3	3 809
1976 QC1	1991 03 20.17257	11 02 47.34	+05 03 35.6		3 809
1976 QC1	1991 03 20.18298	11 02 46.74	+05 03 38.9		3 809
1976 QC1	1991 03 21.15173	11 01 48.19	+05 09 04.9		3 809
1976 QC1	1991 03 21.16216	11 01 47.55	+05 09 08.2		3 809
1976 QC1	1991 03 21.17257	11 01 46.92	+05 09 11.8		3 809
1976 SG2	1991 03 10.15660	11 43 44.61	-00 35 38.9	16.6	3 809
1976 SG2	1991 03 10.16702	11 43 44.02	-00 35 33.3		3 809
1976 SG2	1991 03 10.17743	11 43 43.45	-00 35 27.7		3 809
1976 SG2	1991 03 12.20521	11 41 49.48	-00 17 08.8		3 809
1976 SG2	1991 03 12.21562	11 41 48.88	-00 17 03.6		3 809
1976 SG2	1991 03 12.22604	11 41 48.27	-00 16 57.9		3 809
1976 SG2	1991 03 14.30590	11 39 50.31	+00 02 02.9		3 809
1976 SG2	1991 03 14.31632	11 39 49.72	+00 02 08.7		3 809
1976 SG2	1991 03 14.32674	11 39 49.13	+00 02 14.4		3 809
1976 SG2	1991 03 15.26493	11 38 56.00	+00 10 52.1		3 809
1976 SG2	1991 03 15.27534	11 38 55.38	+00 10 57.9		3 809
1976 SG2	1991 03 15.28577	11 38 54.77	+00 11 03.8		3 809
1976 SG2	1991 03 17.31736	11 36 59.64	+00 29 47.8		3 809
1976 SG2	1991 03 17.32987	11 36 58.95	+00 29 55.1		3 809
1976 SG2	1991 03 17.34236	11 36 58.26	+00 30 02.4		3 809
1978 RZ	1991 03 20.28333	13 06 30.34	-02 40 43.7	17.3	3 809
1978 RZ	1991 03 20.29584	13 06 29.84	-02 40 39.9		3 809
1978 RZ	1991 03 20.30833	13 06 29.33	-02 40 36.2		3 809
1978 RZ	1991 03 21.29584	13 05 49.15	-02 35 36.7		3 809
1978 RZ	1991 03 21.30833	13 05 48.65	-02 35 33.0		3 809
1978 RZ	1991 03 21.32083	13 05 48.14	-02 35 29.2		3 809
1978 RZ	1991 03 27.33681	13 01 30.47	-02 04 25.3		3 809
1978 RZ	1991 03 27.34930	13 01 29.89	-02 04 21.9		3 809
1978 RZ	1991 03 27.36180	13 01 29.32	-02 04 18.2		3 809
1978 UL2	1991 03 08.09167	08 34 29.82	+19 11 30.7	17.6	3 809
1978 UL2	1991 03 08.11112	08 34 29.40	+19 11 32.6		3 809
1978 UL2	1991 03 08.12986	08 34 29.02	+19 11 34.5		3 809
1978 UL2	1991 03 10.02014	08 33 49.51	+19 14 55.5		3 809
1978 UL2	1991 03 10.03958	08 33 49.11	+19 14 57.6		3 809
1978 UL2	1991 03 10.05903	08 33 48.69	+19 14 59.8		3 809
1980 FR1	1991 03 11.05868	10 35 07.56	+07 28 00.8	17.4	3 809
1980 FR1	1991 03 11.06910	10 35 07.11	+07 28 02.8		3 809
1980 FR1	1991 03 11.07951	10 35 06.69	+07 28 05.1		3 809
1980 FR1	1991 03 13.10938	10 33 38.09	+07 35 20.1		3 809
1980 FR1	1991 03 13.11979	10 33 37.62	+07 35 22.6		3 809
1980 FR1	1991 03 13.13021	10 33 37.15	+07 35 24.9		3 809
1981 EA12	1991 03 12.20521	11 36 46.19	-00 46 19.3	17.3	3 809
1981 EA12	1991 03 12.21562	11 36 45.60	-00 46 15.3		3 809
1981 EA12	1991 03 12.22604	11 36 45.01	-00 46 11.6		3 809
1981 ED19	1991 09 04.06875	21 03 07.20	-15 18 29.9		4 809

1981	ED19	1991	09	04.08194	21	03	06.79	-15	18	32.9		4	809
1981	ED19	1991	09	04.09514	21	03	06.33	-15	18	35.6		4	809
1981	ED19	1991	09	06.06389	21	02	02.70	-15	25	47.6	18.4	4	809
1981	ED19	1991	09	06.07708	21	02	02.19	-15	25	50.1		4	809
1981	ED19	1991	09	06.09028	21	02	01.74	-15	25	52.3		4	809
1981	EP19	1991	03	12.13368	10	42	47.32	+08	01	04.6	17.3	3	809
1981	EP19	1991	03	12.14410	10	42	46.77	+08	01	08.8		3	809
1981	EP19	1991	03	12.15451	10	42	46.20	+08	01	13.1		3	809
1981	ET26	1991	02	25.34375	12	18	33.34	-01	56	08.6	17.2	3	809
1981	ET26	1991	02	25.35625	12	18	32.87	-01	56	07.2		3	809
1981	ET26	1991	02	25.36875	12	18	32.39	-01	56	05.6		3	809
1981	ET26	1991	02	26.33715	12	17	55.83	-01	54	16.9		3	809
1981	ET26	1991	02	26.34757	12	17	55.43	-01	54	15.8		3	809
1981	ET26	1991	02	26.35799	12	17	55.06	-01	54	14.6		3	809
1981	ET26	1991	03	11.27014	12	07	24.03	-01	16	42.9		3	809
1981	ET26	1991	03	11.28264	12	07	23.40	-01	16	40.7		3	809
1981	ET26	1991	03	11.29513	12	07	22.79	-01	16	38.6		3	809
1981	ET26	1991	03	13.30243	12	05	24.58	-01	08	54.7		3	809
1981	ET26	1991	03	13.31285	12	05	23.96	-01	08	52.3		3	809
1981	ET26	1991	03	13.32326	12	05	23.33	-01	08	49.9		3	809
1981	ET26	1991	03	13.33576	12	05	22.60	-01	08	47.2		3	809
1981	ET26	1991	03	13.34618	12	05	22.00	-01	08	45.0		3	809
1981	ET26	1991	03	13.35660	12	05	21.38	-01	08	42.6		3	809
1981	ET26	1991	03	15.33299	12	03	21.53	-01	00	43.2		3	809
1981	ET26	1991	03	15.34340	12	03	20.90	-01	00	40.9		3	809
1981	ET26	1991	03	15.35382	12	03	20.28	-01	00	38.5		3	809
1981	ET26	1991	03	16.18333	12	02	29.34	-00	57	12.3		3	809
1981	ET26	1991	03	16.19583	12	02	28.57	-00	57	09.4		3	809
1981	ET26	1991	03	16.20834	12	02	27.81	-00	57	06.5		3	809
1981	EU29	1991	03	11.12396	10	38	35.51	+09	07	57.9	17.3	3	809
1981	EU29	1991	03	11.13438	10	38	34.97	+09	07	59.3		3	809
1981	EU29	1991	03	11.14479	10	38	34.44	+09	08	00.8		3	809
1981	EU29	1991	03	12.13368	10	37	46.03	+09	10	14.7		3	809
1981	EU29	1991	03	12.14410	10	37	45.52	+09	10	16.1		3	809
1981	EU29	1991	03	12.15451	10	37	45.02	+09	10	17.5		3	809
1981	EU29	1991	03	13.19271	10	36	54.43	+09	12	32.5		3	809
1981	EU29	1991	03	13.20313	10	36	53.92	+09	12	33.8		3	809
1981	EU29	1991	03	13.21354	10	36	53.42	+09	12	35.1		3	809
1981	EH34	1991	03	11.27014	12	08	00.52	-01	14	29.0	17.3	3	809
1981	EH34	1991	03	11.28264	12	07	59.96	-01	14	25.9		3	809
1981	EH34	1991	03	11.29513	12	07	59.40	-01	14	22.7		3	809
1981	EH34	1991	03	15.33299	12	04	52.22	-00	56	33.7		3	809
1981	EH34	1991	03	15.34340	12	04	51.70	-00	56	30.9		3	809
1981	EH34	1991	03	15.35382	12	04	51.21	-00	56	28.3		3	809
1981	EH34	1991	03	16.18333	12	04	12.07	-00	52	42.1		3	809
1981	EH34	1991	03	16.19583	12	04	11.51	-00	52	38.7		3	809
1981	EH34	1991	03	16.20834	12	04	10.94	-00	52	35.3		3	809
1981	SY1	1991	09	04.06875	20	47	27.48	-17	06	26.1		4	809
1981	SY1	1991	09	04.08194	20	47	27.03	-17	06	25.8		4	809
1981	SY1	1991	09	04.09514	20	47	26.65	-17	06	25.4		4	809
1981	SY1	1991	09	06.06389	20	46	40.03	-17	04	14.9	17.9	4	809
1981	SY1	1991	09	06.07708	20	46	39.64	-17	04	14.1		4	809
1981	SY1	1991	09	06.09028	20	46	39.23	-17	04	13.2		4	809
1982	VY2	1991	09	04.11597	21	23	13.75	-17	05	12.5		4	809
1982	VY2	1991	09	04.12917	21	23	13.15	-17	05	15.5		4	809
1982	VY2	1991	09	04.14236	21	23	12.65	-17	05	17.9		4	809
1982	VY2	1991	09	06.10833	21	21	57.04	-17	12	10.3	19.1	4	809
1982	VY2	1991	09	06.12153	21	21	56.47	-17	12	13.0		4	809
1982	VY2	1991	09	06.13472	21	21	56.01	-17	12	16.1		4	809

1983	RT3	1991	09	04.02361	20	34	05.92	-22	07	31.0	18.7	4	809
1983	RT3	1991	09	04.03681	20	34	05.32	-22	07	27.4		4	809
1983	RT3	1991	09	04.05000	20	34	04.68	-22	07	24.5		4	809
1983	RT3	1991	09	07.00972	20	32	16.37	-21	53	52.9		4	809
1983	RT3	1991	09	07.02292	20	32	15.84	-21	53	49.1		4	809
1983	RT3	1991	09	07.03611	20	32	15.37	-21	53	45.8		4	809
1983	TS1	1991	03	22.16493	11	22	53.53	+07	22	04.1	17.7	3	809
1983	TS1	1991	03	22.17535	11	22	53.09	+07	22	06.5		3	809
1983	TS1	1991	03	22.18576	11	22	52.65	+07	22	09.0		3	809
1983	TS1	1991	03	23.24340	11	22	07.74	+07	26	48.6		3	809
1983	TS1	1991	03	23.25381	11	22	07.30	+07	26	51.3		3	809
1983	TS1	1991	03	23.26424	11	22	06.85	+07	26	53.8		3	809
1983	TW1	1991	09	06.06389	20	59	41.81	-19	56	54.1	17.8	4	809
1983	TW1	1991	09	06.07708	20	59	41.45	-19	56	56.0		4	809
1983	TW1	1991	09	06.09028	20	59	41.15	-19	56	59.0		4	809
1984	HP1	1991	09	04.11597	21	35	23.92	-17	23	16.4		4	809
1984	HP1	1991	09	04.12917	21	35	23.26	-17	23	18.4		4	809
1984	HP1	1991	09	04.14236	21	35	22.73	-17	23	20.9		4	809
1984	HP1	1991	09	06.10833	21	34	06.45	-17	28	22.3	18.6	4	809
1984	HP1	1991	09	06.12153	21	34	05.93	-17	28	24.2		4	809
1984	HP1	1991	09	06.13472	21	34	05.31	-17	28	26.0		4	809
1985	DC1	1991	03	20.24375	13	02	40.49	-06	03	48.4	16.6	3	809
1985	DC1	1991	03	20.25625	13	02	40.00	-06	03	45.1		3	809
1985	DC1	1991	03	20.26875	13	02	39.50	-06	03	41.9		3	809
1985	DC1	1991	03	21.25694	13	02	01.76	-05	59	30.1		3	809
1985	DC1	1991	03	21.26944	13	02	01.27	-05	59	26.6		3	809
1985	DC1	1991	03	21.28194	13	02	00.77	-05	59	23.4		3	809
1985	RE2	1991	03	11.27014	12	06	38.42	-02	19	37.2	17.1	3	809
1985	RE2	1991	03	11.28264	12	06	37.74	-02	19	33.6		3	809
1985	RE2	1991	03	11.29513	12	06	37.04	-02	19	29.8		3	809
1985	RE2	1991	03	13.30243	12	04	42.04	-02	09	14.9		3	809
1985	RE2	1991	03	13.31285	12	04	41.47	-02	09	11.7		3	809
1985	RE2	1991	03	13.32326	12	04	40.89	-02	09	08.5		3	809
1985	RE2	1991	03	13.33576	12	04	40.19	-02	09	04.4		3	809
1985	RE2	1991	03	13.34618	12	04	39.59	-02	09	01.3		3	809
1985	RE2	1991	03	13.35660	12	04	39.00	-02	08	58.2		3	809
1985	RE2	1991	03	15.33299	12	02	42.97	-01	58	30.6		3	809
1985	RE2	1991	03	15.34340	12	02	42.36	-01	58	27.3		3	809
1985	RE2	1991	03	15.35382	12	02	41.75	-01	58	24.0		3	809
1985	RE2	1991	03	16.18333	12	01	52.69	-01	53	55.4		3	809
1985	RE2	1991	03	16.19583	12	01	51.95	-01	53	51.5		3	809
1985	RE2	1991	03	16.20834	12	01	51.23	-01	53	47.8		3	809
1986	QS3	1991	09	04.11597	21	30	52.72	-16	45	58.7		4	809
1986	QS3	1991	09	04.12917	21	30	52.08	-16	46	05.5		4	809
1986	QS3	1991	09	04.14236	21	30	51.50	-16	46	10.9		4	809
1986	QS3	1991	09	06.10833	21	29	42.18	-16	58	44.1	18.6	4	809
1986	QS3	1991	09	06.12153	21	29	41.69	-16	58	48.4		4	809
1986	QS3	1991	09	06.13472	21	29	41.23	-16	58	52.9		4	809
1986	TB5	1991	09	06.06389	21	03	19.01	-19	19	21.1	18.6	4	809
1986	TB5	1991	09	06.07708	21	03	18.47	-19	19	22.0		4	809
1986	TB5	1991	09	06.09028	21	03	18.12	-19	19	22.9		4	809
1987	BS2	1991	03	11.15868	11	52	21.42	+03	09	16.6	16.9	3	809
1987	BS2	1991	03	11.16910	11	52	20.85	+03	09	21.0		3	809
1987	BS2	1991	03	11.17951	11	52	20.28	+03	09	25.4		3	809
1987	BS2	1991	03	13.22743	11	50	29.50	+03	24	25.2		3	809
1987	BS2	1991	03	13.23785	11	50	28.93	+03	24	29.4		3	809
1987	BS2	1991	03	13.24826	11	50	28.36	+03	24	34.0		3	809
1987	EQ	1991	09	04.02361	20	28	32.07	-19	36	51.1	18.6	4	809
1987	EQ	1991	09	04.03681	20	28	31.54	-19	36	51.3		4	809

1987 EQ	1991 09 04.05000	20 28 31.01	-19 36 51.2		4 809
1987 EQ	1991 09 07.00972	20 27 15.19	-19 37 03.4		4 809
1987 EQ	1991 09 07.02292	20 27 14.69	-19 37 03.0		4 809
1987 EQ	1991 09 07.03611	20 27 14.34	-19 37 03.7		4 809
1987 RC1	1991 03 20.19688	11 28 20.69	+04 43 32.7	17.1	3 809
1987 RC1	1991 03 20.20729	11 28 20.24	+04 43 35.4		3 809
1987 RC1	1991 03 20.21771	11 28 19.78	+04 43 38.0		3 809
1987 RC1	1991 03 21.21007	11 27 36.21	+04 47 59.5		3 809
1987 RC1	1991 03 21.22049	11 27 35.76	+04 48 02.4		3 809
1987 RC1	1991 03 21.23090	11 27 35.30	+04 48 05.3		3 809
1987 RC1	1991 03 22.09688	11 26 57.75	+04 51 51.4		3 809
1987 RC1	1991 03 22.10729	11 26 57.30	+04 51 54.3		3 809
1987 RC1	1991 03 22.11771	11 26 56.85	+04 51 57.4		3 809
1987 SC6	1991 03 20.24375	13 04 25.71	-05 59 15.9	17.3	3 809
1987 SC6	1991 03 20.25625	13 04 25.25	-05 59 12.7		3 809
1987 SC6	1991 03 20.26875	13 04 24.77	-05 59 09.4		3 809
1987 SC6	1991 03 21.25694	13 03 47.18	-05 54 55.0		3 809
1987 SC6	1991 03 21.26944	13 03 46.72	-05 54 52.2		3 809
1987 SC6	1991 03 21.28194	13 03 46.27	-05 54 48.9		3 809
1988 RU6	1991 03 17.27744	11 01 45.18	+04 36 41.3	16.8	3 809
1988 RU6	1991 03 17.28785	11 01 44.68	+04 36 45.1		3 809
1988 RU6	1991 03 17.29826	11 01 44.15	+04 36 49.0		3 809
1988 RU6	1991 03 19.28438	11 00 07.24	+04 48 49.5		3 809
1988 RU6	1991 03 19.29479	11 00 06.70	+04 48 53.3		3 809
1988 RU6	1991 03 20.16216	10 59 25.52	+04 54 04.6		3 809
1988 RU6	1991 03 20.17257	10 59 25.01	+04 54 08.3		3 809
1988 RU6	1991 03 20.18298	10 59 24.50	+04 54 12.1		3 809
1988 TP1	1991 03 22.25591	12 52 10.50	-02 43 33.4	17.2	3 809
1988 TP1	1991 03 22.26632	12 52 10.06	-02 43 30.4		3 809
1988 TP1	1991 03 22.27673	12 52 09.59	-02 43 27.5		3 809
1988 TP1	1991 03 23.28021	12 51 25.59	-02 38 40.9		3 809
1988 TP1	1991 03 23.29063	12 51 25.14	-02 38 38.0		3 809
1988 TP1	1991 03 23.30104	12 51 24.68	-02 38 35.1		3 809
1988 TP1	1991 03 24.28958	12 50 40.82	-02 33 47.8		3 809
1988 TP1	1991 03 24.29930	12 50 40.42	-02 33 45.2		3 809
1988 TP1	1991 03 24.30903	12 50 39.98	-02 33 42.6		3 809
1988 TP1	1991 03 25.26320	12 49 57.36	-02 29 05.3		3 809
1988 TP1	1991 03 25.27014	12 49 57.04	-02 29 03.7		3 809
1988 TP1	1991 03 25.27708	12 49 56.71	-02 29 01.6		3 809
1988 TP1	1991 03 26.30833	12 49 09.95	-02 24 01.1		3 809
1988 TP1	1991 03 26.31528	12 49 09.65	-02 23 58.9		3 809
1988 TP1	1991 03 26.32222	12 49 09.33	-02 23 56.6		3 809
1989 SG1	1991 03 15.15521	10 23 38.84	+09 12 00.7	16.9	3 809
1989 SG1	1991 03 15.16563	10 23 38.40	+09 12 05.6		3 809
1989 SG1	1991 03 15.17604	10 23 37.96	+09 12 10.9		3 809
1989 UF7	1991 03 13.01354	09 20 53.86	+19 27 35.8	17.4	3 809
1989 UF7	1991 03 13.02812	09 20 53.34	+19 27 37.4		3 809
1989 UF7	1991 03 13.04271	09 20 52.82	+19 27 39.0		3 809
1989 UF7	1991 03 15.01354	09 19 41.21	+19 30 49.4		3 809
1989 UF7	1991 03 15.02812	09 19 40.68	+19 30 51.2		3 809
1989 UF7	1991 03 15.04271	09 19 40.17	+19 30 52.3		3 809
1989 VT1	1991 03 17.11979	09 42 10.36	+16 13 31.9	17.2	3 809
1989 VT1	1991 03 17.13438	09 42 09.92	+16 13 34.0		3 809
1989 VT1	1991 03 17.14896	09 42 09.49	+16 13 36.2		3 809
1989 VT1	1991 03 19.06632	09 41 11.82	+16 18 49.9		3 809
1989 VT1	1991 03 19.08090	09 41 11.38	+16 18 52.3		3 809
1989 VT1	1991 03 19.09549	09 41 10.93	+16 18 54.7		3 809
1990 CH	1991 09 04.06875	20 46 33.71	-18 37 49.8		4 809
1990 CH	1991 09 04.08194	20 46 33.12	-18 37 48.7		4 809

1990 CH	1991 09 04.09514	20 46 32.60	-18 37 48.8		4 809
1990 CH	1991 09 06.06389	20 45 22.61	-18 36 28.0	18.6	4 809
1990 CH	1991 09 06.07708	20 45 22.00	-18 36 26.9		4 809
1990 CH	1991 09 06.09028	20 45 21.52	-18 36 26.8		4 809
1990 DL	1991 09 04.06875	21 02 51.65	-18 58 45.5		4 809
1990 DL	1991 09 04.08194	21 02 51.00	-18 58 46.3		4 809
1990 DL	1991 09 04.09514	21 02 50.41	-18 58 46.6		4 809
1990 DL	1991 09 06.06389	21 01 25.71	-18 58 57.2	18.7	4 809
1990 DL	1991 09 06.07708	21 01 25.09	-18 58 56.9		4 809
1990 DL	1991 09 06.09028	21 01 24.54	-18 58 57.4		4 809
1991 AD2	1991 03 08.09167	08 33 08.34	+18 38 30.0	17.2	3 809
1991 AD2	1991 03 08.11112	08 33 07.95	+18 38 32.7		3 809
1991 AD2	1991 03 08.12986	08 33 07.57	+18 38 35.2		3 809
1991 AD2	1991 03 10.02014	08 32 28.29	+18 43 31.4		3 809
1991 AD2	1991 03 10.03958	08 32 27.89	+18 43 34.4		3 809
1991 AD2	1991 03 10.05903	08 32 27.51	+18 43 37.2		3 809
1991 CF	1991 03 07.05937	09 26 02.79	+10 43 12.2	15.9	3 809
1991 CF	1991 03 07.07257	09 26 02.25	+10 43 19.0		3 809
1991 CF	1991 03 07.08542	09 26 01.72	+10 43 25.8		3 809
1991 CF	1991 03 09.11354	09 24 38.51	+11 00 51.3		3 809
1991 CF	1991 03 09.12813	09 24 37.92	+11 00 58.7		3 809
1991 CF	1991 03 09.14271	09 24 37.31	+11 01 06.2		3 809
1991 CK	1991 03 13.01354	09 20 36.98	+19 10 04.4	17.3	3 809
1991 CK	1991 03 13.02812	09 20 36.44	+19 10 04.6		3 809
1991 CK	1991 03 13.04271	09 20 35.91	+19 10 04.7		3 809
1991 CN	1991 03 13.01354	09 23 45.38	+18 43 05.5	17.0	3 809
1991 CN	1991 03 13.02812	09 23 44.89	+18 43 04.8		3 809
1991 CN	1991 03 13.04271	09 23 44.41	+18 43 04.1		3 809
1991 CN	1991 03 15.01354	09 22 38.58	+18 41 40.6		3 809
1991 CN	1991 03 15.02812	09 22 38.10	+18 41 40.0		3 809
1991 CN	1991 03 15.04271	09 22 37.63	+18 41 39.5		3 809
1991 CG1	1991 03 09.06702	09 24 02.39	+17 29 33.5	17.3	3 809
1991 CG1	1991 03 09.08160	09 24 01.94	+17 29 32.5		3 809
1991 CG1	1991 03 09.09618	09 24 01.48	+17 29 31.4		3 809
1991 CG1	1991 03 11.01354	09 23 00.85	+17 27 12.3		3 809
1991 CG1	1991 03 11.02812	09 23 00.39	+17 27 11.2		3 809
1991 CG1	1991 03 11.04271	09 22 59.94	+17 27 10.1		3 809
1991 CS1	1991 03 11.12396	10 39 32.15	+09 53 44.5	16.9	3 809
1991 CS1	1991 03 11.13438	10 39 31.70	+09 53 47.3		3 809
1991 CS1	1991 03 11.14479	10 39 31.26	+09 53 50.3		3 809
1991 CS1	1991 03 13.19271	10 38 03.29	+10 03 47.1		3 809
1991 CS1	1991 03 13.20313	10 38 02.85	+10 03 50.0		3 809
1991 CS1	1991 03 13.21354	10 38 02.41	+10 03 53.1		3 809
1991 CT1	1991 03 11.09132	10 30 38.14	+10 32 45.4	16.9	3 809
1991 CT1	1991 03 11.10174	10 30 37.52	+10 32 46.3		3 809
1991 CT1	1991 03 11.11215	10 30 36.90	+10 32 47.3		3 809
1991 CT1	1991 03 13.15868	10 28 34.51	+10 35 23.1		3 809
1991 CT1	1991 03 13.16910	10 28 33.86	+10 35 23.9		3 809
1991 CT1	1991 03 13.17951	10 28 33.22	+10 35 24.5		3 809
1991 CT1	1991 03 23.13194	10 20 06.35	+10 40 18.6		3 809
1991 CT1	1991 03 23.13750	10 20 06.08	+10 40 18.8		3 809
1991 CT1	1991 03 23.14305	10 20 05.81	+10 40 19.0		3 809
1991 CT1	1991 03 24.04479	10 19 28.77	+10 40 02.1		3 809
1991 CT1	1991 03 24.06354	10 19 27.99	+10 40 01.7		3 809
1991 CT1	1991 03 24.08229	10 19 27.22	+10 40 01.2		3 809
1991 CU2	1991 03 18.17673	10 52 40.29	+08 46 30.7	16.5	3 809
1991 CU2	1991 03 18.18715	10 52 39.76	+08 46 32.8		3 809
1991 CU2	1991 03 18.19757	10 52 39.22	+08 46 34.8		3 809
1991 CU2	1991 03 19.18437	10 51 48.38	+08 49 48.5		3 809

1991 CU2	1991 03	19.19479	10 51	47.84	+08 49	50.6		3 809
1991 CU2	1991 03	19.20521	10 51	47.29	+08 49	52.6		3 809
1991 CU2	1991 03	20.05798	10 51	04.46	+08 52	33.3		3 809
1991 CU2	1991 03	20.06841	10 51	03.94	+08 52	35.4		3 809
1991 CU2	1991 03	20.07882	10 51	03.41	+08 52	37.3		3 809
1991 CU2	1991 03	21.04757	10 50	15.62	+08 55	30.7		3 809
1991 CU2	1991 03	21.05869	10 50	15.09	+08 55	32.7		3 809
1991 CU2	1991 03	21.06979	10 50	14.55	+08 55	34.9		3 809
1991 CX2	1991 03	07.10000	09 34	36.50	+12 02	02.0	16.9	3 809
1991 CX2	1991 03	07.11250	09 34	35.88	+12 02	07.0		3 809
1991 CX2	1991 03	07.12500	09 34	35.27	+12 02	12.3		3 809
1991 CX2	1991 03	09.16285	09 32	54.85	+12 16	53.4		3 809
1991 CX2	1991 03	09.17743	09 32	54.13	+12 17	00.1		3 809
1991 CX2	1991 03	09.19202	09 32	53.40	+12 17	06.4		3 809
1991 CX2	1991 03	14.02118	09 29	20.37	+12 49	51.3		3 809
1991 CX2	1991 03	14.03577	09 29	19.73	+12 49	57.2		3 809
1991 CX2	1991 03	14.05035	09 29	19.09	+12 50	02.7		3 809
1991 CC3	1991 03	12.16910	10 23	23.87	+07 33	59.3	16.9	3 809
1991 CC3	1991 03	12.17951	10 23	23.39	+07 34	03.5		3 809
1991 CC3	1991 03	12.18993	10 23	22.91	+07 34	07.6		3 809
1991 CC3	1991 03	14.25799	10 21	51.89	+07 47	26.8		3 809
1991 CC3	1991 03	14.26840	10 21	51.43	+07 47	30.9		3 809
1991 CC3	1991 03	14.27882	10 21	50.97	+07 47	35.1		3 809
1991 CC3	1991 03	15.15521	10 21	13.89	+07 53	07.7		3 809
1991 CC3	1991 03	15.16563	10 21	13.42	+07 53	11.7		3 809
1991 CC3	1991 03	15.17604	10 21	12.98	+07 53	15.8		3 809
1991 DM	1991 03	11.09132	10 31	24.85	+10 40	08.9	16.0	3 809
1991 DM	1991 03	11.10174	10 31	24.36	+10 40	12.2		3 809
1991 DM	1991 03	11.11215	10 31	23.84	+10 40	15.6		3 809
1991 DM	1991 03	13.15868	10 29	45.87	+10 51	13.4		3 809
1991 DM	1991 03	13.16910	10 29	45.37	+10 51	16.8		3 809
1991 DM	1991 03	13.17951	10 29	44.84	+10 51	20.1		3 809
1991 EA	1991 03	17.24548	11 04	09.30	+06 03	48.5	17.0	3 809
1991 EA	1991 03	17.25591	11 04	08.71	+06 03	50.0		3 809
1991 EA	1991 03	17.26632	11 04	08.10	+06 03	51.2		3 809
1991 EA	1991 03	19.25174	11 02	15.01	+06 08	22.8		3 809
1991 EA	1991 03	19.26215	11 02	14.41	+06 08	24.1		3 809
1991 EA	1991 03	19.27257	11 02	13.81	+06 08	25.6		3 809
1991 EA	1991 03	20.12952	11 01	26.46	+06 10	15.6		3 809
1991 EA	1991 03	20.13993	11 01	25.86	+06 10	16.9		3 809
1991 EA	1991 03	20.15034	11 01	25.26	+06 10	18.2		3 809
1991 EA	1991 03	20.16216	11 01	24.61	+06 10	20.1		3 809
1991 EA	1991 03	20.17257	11 01	24.03	+06 10	21.4		3 809
1991 EA	1991 03	20.18298	11 01	23.44	+06 10	22.8		3 809
1991 EA	1991 03	21.15173	11 00	30.19	+06 12	24.7		3 809
1991 EA	1991 03	21.16216	11 00	29.64	+06 12	26.0		3 809
1991 EA	1991 03	21.17257	11 00	29.06	+06 12	27.3		3 809
1991 EQ1	1991 03	25.23680	11 13	53.06	+06 40	34.4	17.0	3 809
1991 EQ1	1991 03	25.24375	11 13	52.70	+06 40	35.7		3 809
1991 EQ1	1991 03	25.25069	11 13	52.36	+06 40	37.0		3 809
1991 ES1	1991 03	17.24548	11 02	56.24	+07 33	47.0	16.0	3 809
1991 ES1	1991 03	17.25591	11 02	55.79	+07 33	53.6		3 809
1991 ES1	1991 03	17.26632	11 02	55.34	+07 34	00.1		3 809
1991 ES1	1991 03	19.21910	11 01	30.13	+07 53	40.5		3 809
1991 ES1	1991 03	19.22952	11 01	29.70	+07 53	46.8		3 809
1991 ES1	1991 03	19.23993	11 01	29.24	+07 53	53.5		3 809
1991 ES1	1991 03	20.12952	11 00	51.55	+08 02	42.7		3 809
1991 ES1	1991 03	20.13993	11 00	51.12	+08 02	48.9		3 809
1991 ES1	1991 03	20.15034	11 00	50.69	+08 02	55.1		3 809

1991	ES1	1991	03	21.11771	11	00	10.12	+08	12	20.7		3	809	
1991	ES1	1991	03	21.12813	11	00	09.71	+08	12	26.6		3	809	
1991	ES1	1991	03	21.13854	11	00	09.25	+08	12	32.8		3	809	
1991	ES1	1991	03	23.15278	10	58	47.66	+08	31	43.7		3	809	
1991	ES1	1991	03	23.15694	10	58	47.48	+08	31	46.0		3	809	
1991	ES1	1991	03	23.16111	10	58	47.33	+08	31	48.2		3	809	
1991	ES1	1991	03	23.20937	10	58	45.20	+08	32	16.1		3	809	
1991	ES1	1991	03	23.21979	10	58	44.76	+08	32	21.9		3	809	
1991	ES1	1991	03	23.23021	10	58	44.32	+08	32	27.8		3	809	
1991	ES1	1991	03	24.09549	10	58	10.76	+08	40	29.2		3	809	
1991	ES1	1991	03	24.11493	10	58	10.00	+08	40	39.9		3	809	
1991	ES1	1991	03	24.13438	10	58	09.25	+08	40	50.8		3	809	
1991	ET1	*	1991	03	05.02014	09	21	02.90	+13	27	58.9	17.6	3	809
1991	ET1		1991	03	05.03264	09	21	02.35	+13	28	01.8		3	809
1991	ET1		1991	03	05.04513	09	21	01.81	+13	28	05.0		3	809
1991	ET1		1991	03	07.01701	09	19	36.60	+13	35	43.2		3	809
1991	ET1		1991	03	07.03021	09	19	36.01	+13	35	46.3		3	809
1991	ET1		1991	03	07.04340	09	19	35.43	+13	35	49.4		3	809
1991	EU1	*	1991	03	06.01667	09	25	33.96	+16	34	40.6	17.5	3	809
1991	EU1		1991	03	06.02917	09	25	33.49	+16	34	43.0		3	809
1991	EU1		1991	03	06.04166	09	25	33.03	+16	34	45.3		3	809
1991	EU1		1991	03	09.06702	09	23	41.55	+16	44	26.3		3	809
1991	EU1		1991	03	09.08160	09	23	41.04	+16	44	29.2		3	809
1991	EU1		1991	03	09.09618	09	23	40.49	+16	44	32.0		3	809
1991	EV1	*	1991	03	07.01701	09	19	31.15	+12	50	52.7	17.5	3	809
1991	EV1		1991	03	07.03021	09	19	30.63	+12	50	55.5		3	809
1991	EV1		1991	03	07.04340	09	19	30.12	+12	50	58.3		3	809
1991	EV1		1991	03	09.02049	09	18	13.23	+12	57	52.7		3	809
1991	EV1		1991	03	09.03507	09	18	12.67	+12	57	55.7		3	809
1991	EV1		1991	03	09.04965	09	18	12.12	+12	57	58.6		3	809
1991	EW1	*	1991	03	07.05937	09	22	24.31	+11	08	26.0	17.0	3	809
1991	EW1		1991	03	07.07257	09	22	23.94	+11	08	30.9		3	809
1991	EW1		1991	03	07.08542	09	22	23.57	+11	08	36.2		3	809
1991	EW1		1991	03	09.11354	09	21	26.82	+11	21	44.6		3	809
1991	EW1		1991	03	09.12813	09	21	26.41	+11	21	50.5		3	809
1991	EW1		1991	03	09.14271	09	21	25.97	+11	21	56.3		3	809
1991	EX1	*	1991	03	07.05937	09	23	29.26	+10	15	39.2	17.3	3	809
1991	EX1		1991	03	07.07257	09	23	28.73	+10	15	43.7		3	809
1991	EX1		1991	03	07.08542	09	23	28.20	+10	15	48.5		3	809
1991	EX1		1991	03	09.11354	09	22	06.63	+10	27	57.1		3	809
1991	EX1		1991	03	09.12813	09	22	06.02	+10	28	02.2		3	809
1991	EX1		1991	03	09.14271	09	22	05.42	+10	28	07.6		3	809
1991	EY1	*	1991	03	07.10000	09	33	22.42	+11	58	51.8	17.3	3	809
1991	EY1		1991	03	07.11250	09	33	21.83	+11	58	52.7		3	809
1991	EY1		1991	03	07.12500	09	33	21.24	+11	58	53.6		3	809
1991	EY1		1991	03	09.16285	09	31	40.46	+12	01	23.1		3	809
1991	EY1		1991	03	09.17743	09	31	39.74	+12	01	24.2		3	809
1991	EY1		1991	03	09.19202	09	31	39.02	+12	01	25.1		3	809
1991	EZ1	*	1991	03	07.10000	09	35	09.96	+12	06	08.3	17.1	3	809
1991	EZ1		1991	03	07.11250	09	35	09.41	+12	06	07.8		3	809
1991	EZ1		1991	03	07.12500	09	35	08.86	+12	06	07.3		3	809
1991	EZ1		1991	03	09.16285	09	33	37.87	+12	04	39.3		3	809
1991	EZ1		1991	03	09.17743	09	33	37.21	+12	04	38.6		3	809
1991	EZ1		1991	03	09.19202	09	33	36.57	+12	04	38.1		3	809
1991	EA2	*	1991	03	08.09167	08	32	04.68	+17	25	45.6	16.9	3	809
1991	EA2		1991	03	08.11112	08	32	04.29	+17	25	50.1		3	809
1991	EA2		1991	03	08.12986	08	32	03.92	+17	25	54.6		3	809
1991	EA2		1991	03	10.02014	08	31	25.67	+17	33	32.1		3	809
1991	EA2		1991	03	10.03958	08	31	25.28	+17	33	36.9		3	809

1991	EA2		1991	03	10.05903	08	31	24.89	+17	33	41.6		3	809
1991	EB2	*	1991	03	08.09167	08	36	22.30	+18	18	16.3	17.4	3	809
1991	EB2		1991	03	08.11112	08	36	21.86	+18	18	21.3		3	809
1991	EB2		1991	03	08.12986	08	36	21.45	+18	18	26.2		3	809
1991	EB2		1991	03	10.02014	08	35	38.36	+18	26	23.4		3	809
1991	EB2		1991	03	10.03958	08	35	37.94	+18	26	28.4		3	809
1991	EB2		1991	03	10.05903	08	35	37.51	+18	26	33.4		3	809
1991	EC2	*	1991	03	09.06702	09	24	00.86	+17	06	09.1	17.6	3	809
1991	EC2		1991	03	09.08160	09	24	00.22	+17	06	13.1		3	809
1991	EC2		1991	03	09.09618	09	23	59.59	+17	06	17.0		3	809
1991	EC2		1991	03	11.01354	09	22	35.14	+17	15	20.5		3	809
1991	EC2		1991	03	11.02812	09	22	34.49	+17	15	24.6		3	809
1991	EC2		1991	03	11.04271	09	22	33.84	+17	15	28.8		3	809
1991	ED2	*	1991	03	09.16285	09	36	26.33	+13	03	51.6	17.0	3	809
1991	ED2		1991	03	09.17743	09	36	25.83	+13	03	57.3		3	809
1991	ED2		1991	03	09.19202	09	36	25.33	+13	04	03.0		3	809
1991	ED2		1991	03	12.01285	09	34	47.48	+13	22	23.3		3	809
1991	ED2		1991	03	12.02604	09	34	47.03	+13	22	28.2		3	809
1991	ED2		1991	03	12.03924	09	34	46.59	+13	22	33.4		3	809
1991	ED2		1991	03	14.02118	09	33	46.09	+13	34	35.8		3	809
1991	ED2		1991	03	14.03577	09	33	45.63	+13	34	41.1		3	809
1991	ED2		1991	03	14.05035	09	33	45.18	+13	34	46.6		3	809
1991	EE2	*	1991	03	10.08507	10	41	26.00	+05	54	15.6	17.4	3	809
1991	EE2		1991	03	10.09549	10	41	25.46	+05	54	16.3		3	809
1991	EE2		1991	03	10.10590	10	41	24.91	+05	54	17.2		3	809
1991	EE2		1991	03	12.09966	10	39	41.42	+05	57	47.7		3	809
1991	EE2		1991	03	12.11007	10	39	40.88	+05	57	48.8		3	809
1991	EE2		1991	03	12.12048	10	39	40.34	+05	57	49.8		3	809
1991	EE2		1991	03	14.15729	10	37	56.58	+06	01	17.9		3	809
1991	EE2		1991	03	14.16771	10	37	56.05	+06	01	18.9		3	809
1991	EE2		1991	03	14.17812	10	37	55.51	+06	01	20.2		3	809
1991	EE2		1991	03	15.22118	10	37	03.49	+06	03	02.3		3	809
1991	EE2		1991	03	15.23160	10	37	02.98	+06	03	03.4		3	809
1991	EE2		1991	03	15.24201	10	37	02.46	+06	03	04.4		3	809
1991	EF2	*	1991	03	10.08507	10	41	37.70	+06	03	30.2	16.8	3	809
1991	EF2		1991	03	10.09549	10	41	37.15	+06	03	35.6		3	809
1991	EF2		1991	03	10.10590	10	41	36.60	+06	03	41.4		3	809
1991	EF2		1991	03	12.09966	10	39	51.26	+06	22	14.4		3	809
1991	EF2		1991	03	12.11007	10	39	50.72	+06	22	20.2		3	809
1991	EF2		1991	03	12.12048	10	39	50.17	+06	22	26.0		3	809
1991	EF2		1991	03	14.15729	10	38	05.50	+06	41	06.2		3	809
1991	EF2		1991	03	14.16771	10	38	04.97	+06	41	11.7		3	809
1991	EF2		1991	03	14.17812	10	38	04.42	+06	41	17.4		3	809
1991	EF2		1991	03	15.22118	10	37	12.34	+06	50	43.4		3	809
1991	EF2		1991	03	15.23160	10	37	11.82	+06	50	48.9		3	809
1991	EF2		1991	03	15.24201	10	37	11.30	+06	50	54.5		3	809
1991	EF2		1991	03	16.14479	10	36	27.48	+06	58	57.7		3	809
1991	EF2		1991	03	16.15521	10	36	26.98	+06	59	03.2		3	809
1991	EF2		1991	03	16.16563	10	36	26.48	+06	59	08.8		3	809
1991	EG2	*	1991	03	10.11771	10	37	38.00	+08	26	11.2	17.2	3	809
1991	EG2		1991	03	10.12813	10	37	37.48	+08	26	13.5		3	809
1991	EG2		1991	03	10.13854	10	37	36.93	+08	26	16.0		3	809
1991	EG2		1991	03	12.13368	10	35	51.93	+08	34	08.3		3	809
1991	EG2		1991	03	12.14410	10	35	51.40	+08	34	10.7		3	809
1991	EG2		1991	03	12.15451	10	35	50.86	+08	34	13.2		3	809
1991	EH2	*	1991	03	10.11771	10	41	01.60	+08	10	45.6	17.4	3	809
1991	EH2		1991	03	10.12813	10	41	00.99	+08	10	47.6		3	809
1991	EH2		1991	03	10.13854	10	41	00.39	+08	10	49.7		3	809
1991	EH2		1991	03	12.13368	10	39	03.80	+08	17	10.9		3	809

1991	EH2	1991	03	12.14410	10	39	03.21	+08	17	12.9		3	809	
1991	EH2	1991	03	12.15451	10	39	02.59	+08	17	14.9		3	809	
1991	EH2	1991	03	15.18854	10	36	11.45	+08	26	17.3		3	809	
1991	EH2	1991	03	15.19896	10	36	10.84	+08	26	19.4		3	809	
1991	EH2	1991	03	15.20937	10	36	10.24	+08	26	21.3		3	809	
1991	EJ2	*	1991	03	10.11771	10	41	02.95	+07	18	17.9	17.5	3	809
1991	EJ2		1991	03	10.12813	10	41	02.32	+07	18	19.8		3	809
1991	EJ2		1991	03	10.13854	10	41	01.70	+07	18	21.8		3	809
1991	EJ2		1991	03	12.13368	10	39	03.51	+07	24	42.4		3	809
1991	EJ2		1991	03	12.14410	10	39	02.91	+07	24	44.3		3	809
1991	EJ2		1991	03	12.15451	10	39	02.29	+07	24	46.3		3	809
1991	EJ2		1991	03	14.15729	10	37	06.80	+07	30	50.4		3	809
1991	EJ2		1991	03	14.16771	10	37	06.19	+07	30	52.3		3	809
1991	EJ2		1991	03	14.17812	10	37	05.59	+07	30	54.3		3	809
1991	EK2	*	1991	03	10.11771	10	43	16.36	+07	38	08.2	17.5	3	809
1991	EK2		1991	03	10.12813	10	43	15.88	+07	38	11.6		3	809
1991	EK2		1991	03	10.13854	10	43	15.40	+07	38	15.0		3	809
1991	EK2		1991	03	12.13368	10	41	43.08	+07	49	05.9		3	809
1991	EK2		1991	03	12.14410	10	41	42.59	+07	49	09.2		3	809
1991	EK2		1991	03	12.15451	10	41	42.09	+07	49	12.6		3	809
1991	EL2	*	1991	03	10.19236	12	39	58.90	-06	22	01.9	17.2	3	809
1991	EL2		1991	03	10.20486	12	39	58.38	-06	21	58.9		3	809
1991	EL2		1991	03	10.21736	12	39	57.86	-06	21	56.3		3	809
1991	EL2		1991	03	12.25035	12	38	34.48	-06	14	07.8		3	809
1991	EL2		1991	03	12.26076	12	38	34.03	-06	14	05.3		3	809
1991	EL2		1991	03	12.27118	12	38	33.60	-06	14	02.9		3	809
1991	EM2	*	1991	03	10.19236	12	42	15.14	-05	26	40.6	17.1	3	809
1991	EM2		1991	03	10.20486	12	42	14.58	-05	26	39.4		3	809
1991	EM2		1991	03	10.21736	12	42	14.04	-05	26	38.1		3	809
1991	EM2		1991	03	12.25035	12	40	46.84	-05	22	28.5		3	809
1991	EM2		1991	03	12.26076	12	40	46.39	-05	22	27.2		3	809
1991	EM2		1991	03	12.27118	12	40	45.96	-05	22	26.0		3	809
1991	EN2	*	1991	03	11.05868	10	27	54.35	+08	00	54.2	17.0	3	809
1991	EN2		1991	03	11.06910	10	27	53.89	+08	00	57.1		3	809
1991	EN2		1991	03	11.07951	10	27	53.45	+08	01	00.0		3	809
1991	EN2		1991	03	13.10938	10	26	24.39	+08	10	33.8		3	809
1991	EN2		1991	03	13.11979	10	26	23.96	+08	10	36.4		3	809
1991	EN2		1991	03	13.13021	10	26	23.53	+08	10	39.4		3	809
1991	EN2		1991	03	14.25799	10	25	34.97	+08	15	52.0	16.8	3	809
1991	EN2		1991	03	14.26840	10	25	34.54	+08	15	54.5		3	809
1991	EN2		1991	03	14.27882	10	25	34.10	+08	15	57.4		3	809
1991	EN2		1991	03	15.15521	10	24	57.37	+08	19	56.9		3	809
1991	EN2		1991	03	15.16563	10	24	56.93	+08	19	59.9		3	809
1991	EN2		1991	03	15.17604	10	24	56.50	+08	20	02.8		3	809
1991	EN2		1991	03	17.16597	10	23	35.07	+08	28	52.4		3	809
1991	EN2		1991	03	17.17847	10	23	34.58	+08	28	55.9		3	809
1991	EN2		1991	03	17.19097	10	23	34.07	+08	28	59.4		3	809
1991	EN2		1991	03	18.14063	10	22	56.42	+08	33	05.7		3	809
1991	EN2		1991	03	18.15104	10	22	56.00	+08	33	08.4		3	809
1991	EN2		1991	03	18.16146	10	22	55.59	+08	33	11.2		3	809
1991	EO2	*	1991	03	11.05868	10	30	01.36	+07	50	28.2	16.8	3	809
1991	EO2		1991	03	11.06910	10	30	00.81	+07	50	30.6		3	809
1991	EO2		1991	03	11.07951	10	30	00.26	+07	50	32.8		3	809
1991	EO2		1991	03	13.10938	10	28	17.55	+07	58	33.8		3	809
1991	EO2		1991	03	13.11979	10	28	17.01	+07	58	36.0		3	809
1991	EO2		1991	03	13.13021	10	28	16.46	+07	58	38.6		3	809
1991	EO2		1991	03	14.25799	10	27	20.97	+08	02	55.8	16.5	3	809
1991	EO2		1991	03	14.26840	10	27	20.47	+08	02	58.2		3	809
1991	EO2		1991	03	14.27882	10	27	19.98	+08	03	00.3		3	809

1991	EO2	1991	03	15.15521	10	26	38.51	+08	06	16.3		3	809	
1991	EO2	1991	03	15.16563	10	26	38.04	+08	06	18.2		3	809	
1991	EO2	1991	03	15.17604	10	26	37.52	+08	06	20.6		3	809	
1991	EO2	1991	03	17.16597	10	25	06.42	+08	13	25.7		3	809	
1991	EO2	1991	03	17.17847	10	25	05.88	+08	13	28.4		3	809	
1991	EO2	1991	03	17.19097	10	25	05.29	+08	13	31.0		3	809	
1991	EO2	1991	03	18.14063	10	24	23.94	+08	16	43.2		3	809	
1991	EO2	1991	03	18.15104	10	24	23.48	+08	16	45.4		3	809	
1991	EO2	1991	03	18.16146	10	24	23.04	+08	16	47.4		3	809	
1991	EP2	*	1991	03	11.05868	10	31	42.76	+07	51	33.2	17.3	3	809
1991	EP2		1991	03	11.06910	10	31	42.22	+07	51	36.1		3	809
1991	EP2		1991	03	11.07951	10	31	41.68	+07	51	38.8		3	809
1991	EP2		1991	03	13.10938	10	29	59.94	+08	00	59.1		3	809
1991	EP2		1991	03	13.11979	10	29	59.41	+08	01	01.6		3	809
1991	EP2		1991	03	13.13021	10	29	58.88	+08	01	04.5		3	809
1991	EQ2	*	1991	03	11.05868	10	34	13.12	+08	57	08.2	17.6	3	809
1991	EQ2		1991	03	11.06910	10	34	12.69	+08	57	13.3		3	809
1991	EQ2		1991	03	11.07951	10	34	12.27	+08	57	18.5		3	809
1991	EQ2		1991	03	13.10938	10	32	50.93	+09	13	54.8		3	809
1991	EQ2		1991	03	13.11979	10	32	50.52	+09	13	59.7		3	809
1991	EQ2		1991	03	13.13021	10	32	50.11	+09	14	04.4		3	809
1991	ER2	*	1991	03	11.05868	10	34	56.04	+08	37	05.1	17.6	3	809
1991	ER2		1991	03	11.06910	10	34	55.53	+08	37	09.3		3	809
1991	ER2		1991	03	11.07951	10	34	55.01	+08	37	13.2		3	809
1991	ER2		1991	03	13.10938	10	33	20.06	+08	50	31.8		3	809
1991	ER2		1991	03	13.11979	10	33	19.57	+08	50	35.9		3	809
1991	ER2		1991	03	13.13021	10	33	19.08	+08	50	39.8		3	809
1991	ES2	*	1991	03	11.09132	10	27	17.22	+10	24	52.3	16.5	3	809
1991	ES2		1991	03	11.10174	10	27	16.77	+10	24	55.6		3	809
1991	ES2		1991	03	11.11215	10	27	16.31	+10	24	59.0		3	809
1991	ES2		1991	03	13.15868	10	25	46.36	+10	34	56.0		3	809
1991	ES2		1991	03	13.16910	10	25	45.89	+10	34	59.1		3	809
1991	ES2		1991	03	13.17951	10	25	45.46	+10	35	02.1		3	809
1991	ET2	*	1991	03	11.09132	10	28	27.19	+09	24	46.6	17.5	3	809
1991	ET2		1991	03	11.10174	10	28	26.74	+09	24	49.9		3	809
1991	ET2		1991	03	11.11215	10	28	26.30	+09	24	53.5		3	809
1991	ET2		1991	03	13.15868	10	26	57.39	+09	35	19.0		3	809
1991	ET2		1991	03	13.16910	10	26	56.94	+09	35	21.8		3	809
1991	ET2		1991	03	13.17951	10	26	56.50	+09	35	25.0		3	809
1991	EU2	*	1991	03	11.09132	10	30	36.71	+09	44	43.7	17.2	3	809
1991	EU2		1991	03	11.10174	10	30	36.10	+09	44	43.4		3	809
1991	EU2		1991	03	11.11215	10	30	35.49	+09	44	42.9		3	809
1991	EU2		1991	03	13.15868	10	28	35.02	+09	43	03.3		3	809
1991	EU2		1991	03	13.16910	10	28	34.41	+09	43	02.9		3	809
1991	EU2		1991	03	13.17951	10	28	33.81	+09	43	02.5		3	809
1991	EW2	*	1991	03	11.09132	10	32	09.69	+10	33	31.4	16.4	3	809
1991	EW2		1991	03	11.10174	10	32	09.16	+10	33	36.2		3	809
1991	EW2		1991	03	11.11215	10	32	08.62	+10	33	40.9		3	809
1991	EW2		1991	03	13.15868	10	30	22.79	+10	48	35.1		3	809
1991	EW2		1991	03	13.16910	10	30	22.23	+10	48	39.4		3	809
1991	EW2		1991	03	13.17951	10	30	21.68	+10	48	44.0		3	809
1991	EX2	*	1991	03	11.12396	10	36	39.12	+09	27	09.6	17.2	3	809
1991	EX2		1991	03	11.13438	10	36	38.46	+09	27	10.5		3	809
1991	EX2		1991	03	11.14479	10	36	37.81	+09	27	11.5		3	809
1991	EX2		1991	03	13.19271	10	34	28.25	+09	30	18.8		3	809
1991	EX2		1991	03	13.20313	10	34	27.58	+09	30	19.6		3	809
1991	EX2		1991	03	13.21354	10	34	26.93	+09	30	20.4		3	809
1991	EY2	*	1991	03	11.12396	10	38	00.73	+10	29	09.2	17.0	3	809
1991	EY2		1991	03	11.13438	10	38	00.17	+10	29	12.2		3	809

1991 EY2	1991 03	11.14479	10 37	59.58	+10 29	15.3		3 809
1991 EY2	1991 03	13.19271	10 36	04.89	+10 39	10.4		3 809
1991 EY2	1991 03	13.20313	10 36	04.31	+10 39	13.8		3 809
1991 EY2	1991 03	13.21354	10 36	03.73	+10 39	16.8		3 809
1991 EZ2 *	1991 03	11.12396	10 38	09.02	+09 33	28.1	17.5	3 809
1991 EZ2	1991 03	11.13438	10 38	08.51	+09 33	30.1		3 809
1991 EZ2	1991 03	11.14479	10 38	08.02	+09 33	32.5		3 809
1991 EZ2	1991 03	13.19271	10 36	31.26	+09 40	11.6		3 809
1991 EZ2	1991 03	13.20313	10 36	30.77	+09 40	13.5		3 809
1991 EZ2	1991 03	13.21354	10 36	30.27	+09 40	15.4		3 809
1991 EA3 *	1991 03	11.12396	10 38	41.35	+09 42	58.4	17.6	3 809
1991 EA3	1991 03	11.13438	10 38	40.81	+09 43	03.8		3 809
1991 EA3	1991 03	11.14479	10 38	40.28	+09 43	09.3		3 809
1991 EA3	1991 03	13.19271	10 36	58.53	+10 00	52.0		3 809
1991 EA3	1991 03	13.20313	10 36	58.03	+10 00	57.4		3 809
1991 EA3	1991 03	13.21354	10 36	57.51	+10 01	02.9		3 809
1991 EB3 *	1991 03	11.12396	10 38	54.28	+09 40	18.7	17.3	3 809
1991 EB3	1991 03	11.13438	10 38	53.85	+09 40	24.9		3 809
1991 EB3	1991 03	11.14479	10 38	53.41	+09 40	31.1		3 809
1991 EB3	1991 03	13.19271	10 37	27.67	+10 01	03.2		3 809
1991 EB3	1991 03	13.20313	10 37	27.23	+10 01	09.5		3 809
1991 EB3	1991 03	13.21354	10 37	26.79	+10 01	15.8		3 809
1991 EC3 *	1991 03	11.12396	10 39	18.75	+10 33	28.1	17.3	3 809
1991 EC3	1991 03	11.13438	10 39	18.10	+10 33	30.8		3 809
1991 EC3	1991 03	11.14479	10 39	17.44	+10 33	33.9		3 809
1991 EC3	1991 03	13.19271	10 37	11.95	+10 43	34.9		3 809
1991 EC3	1991 03	13.20313	10 37	11.32	+10 43	37.9		3 809
1991 EC3	1991 03	13.21354	10 37	10.69	+10 43	41.0		3 809
1991 ED3 *	1991 03	11.12396	10 39	36.49	+09 16	01.2	17.5	3 809
1991 ED3	1991 03	11.13438	10 39	36.06	+09 16	06.4		3 809
1991 ED3	1991 03	11.14479	10 39	35.64	+09 16	11.7		3 809
1991 ED3	1991 03	13.19271	10 38	10.91	+09 33	19.1		3 809
1991 ED3	1991 03	13.20313	10 38	10.48	+09 33	24.4		3 809
1991 ED3	1991 03	13.21354	10 38	10.08	+09 33	29.8		3 809
1991 ED3	1991 03	15.18854	10 36	52.33	+09 49	28.1		3 809
1991 ED3	1991 03	15.19896	10 36	51.92	+09 49	33.1		3 809
1991 ED3	1991 03	15.20937	10 36	51.49	+09 49	38.3		3 809
1991 EE3 *	1991 03	11.12396	10 42	05.84	+10 32	45.8	17.0	3 809
1991 EE3	1991 03	11.13438	10 42	05.37	+10 32	48.2		3 809
1991 EE3	1991 03	11.14479	10 42	04.88	+10 32	51.0		3 809
1991 EE3	1991 03	13.19271	10 40	31.24	+10 40	58.9		3 809
1991 EE3	1991 03	13.20313	10 40	30.77	+10 41	01.4		3 809
1991 EE3	1991 03	13.21354	10 40	30.27	+10 41	03.9		3 809
1991 EF3 *	1991 03	11.15868	11 48	10.37	+02 43	23.8	17.4	3 809
1991 EF3	1991 03	11.16910	11 48	09.87	+02 43	27.1		3 809
1991 EF3	1991 03	11.17951	11 48	09.35	+02 43	30.2		3 809
1991 EF3	1991 03	13.22743	11 46	29.31	+02 54	09.6		3 809
1991 EF3	1991 03	13.23785	11 46	28.81	+02 54	13.1		3 809
1991 EF3	1991 03	13.24826	11 46	28.30	+02 54	16.2		3 809
1991 EG3 *	1991 03	11.15868	11 49	41.33	+03 53	05.7	17.2	3 809
1991 EG3	1991 03	11.16910	11 49	40.81	+03 53	07.6		3 809
1991 EG3	1991 03	11.17951	11 49	40.30	+03 53	09.3		3 809
1991 EG3	1991 03	13.22743	11 47	58.50	+03 59	11.4		3 809
1991 EG3	1991 03	13.23785	11 47	57.97	+03 59	13.3		3 809
1991 EG3	1991 03	13.24826	11 47	57.45	+03 59	15.0		3 809
1991 EH3 *	1991 03	11.15868	11 50	31.18	+03 30	03.4	17.1	3 809
1991 EH3	1991 03	11.16910	11 50	30.70	+03 30	06.2		3 809
1991 EH3	1991 03	11.17951	11 50	30.23	+03 30	09.0		3 809
1991 EH3	1991 03	13.22743	11 48	58.58	+03 39	16.5		3 809

1991	EH3		1991	03	13.23785	11	48	58.11	+03	39	19.2		3	809
1991	EH3		1991	03	13.24826	11	48	57.65	+03	39	22.0		3	809
1991	EJ3	*	1991	03	11.15868	11	51	05.78	+03	29	41.5	17.2	3	809
1991	EJ3		1991	03	11.16910	11	51	05.21	+03	29	46.4		3	809
1991	EJ3		1991	03	11.17951	11	51	04.64	+03	29	51.3		3	809
1991	EJ3		1991	03	13.22743	11	49	16.78	+03	45	29.3		3	809
1991	EJ3		1991	03	13.23785	11	49	16.22	+03	45	34.0		3	809
1991	EJ3		1991	03	13.24826	11	49	15.67	+03	45	38.8		3	809
1991	EK3	*	1991	03	11.15868	11	51	30.83	+04	13	34.2	17.4	3	809
1991	EK3		1991	03	11.16910	11	51	30.27	+04	13	37.5		3	809
1991	EK3		1991	03	11.17951	11	51	29.70	+04	13	40.9		3	809
1991	EK3		1991	03	13.22743	11	49	38.88	+04	24	05.1		3	809
1991	EK3		1991	03	13.23785	11	49	38.31	+04	24	08.3		3	809
1991	EK3		1991	03	13.24826	11	49	37.74	+04	24	11.5		3	809
1991	EL3	*	1991	03	11.15868	11	53	30.27	+03	21	23.7	17.4	3	809
1991	EL3		1991	03	11.16910	11	53	29.81	+03	21	28.9		3	809
1991	EL3		1991	03	11.17951	11	53	29.36	+03	21	34.0		3	809
1991	EL3		1991	03	13.22743	11	52	01.38	+03	38	13.6		3	809
1991	EL3		1991	03	13.23785	11	52	00.94	+03	38	18.6		3	809
1991	EL3		1991	03	13.24826	11	52	00.50	+03	38	23.8		3	809
1991	EM3	*	1991	03	11.19132	11	47	14.62	-01	04	05.0	17.4	3	809
1991	EM3		1991	03	11.20174	11	47	14.02	-01	04	00.8		3	809
1991	EM3		1991	03	11.21215	11	47	13.41	-01	03	56.7		3	809
1991	EM3		1991	03	13.26771	11	45	18.00	-00	50	34.8		3	809
1991	EM3		1991	03	13.27812	11	45	17.41	-00	50	30.8		3	809
1991	EM3		1991	03	13.28854	11	45	16.82	-00	50	26.7		3	809
1991	EM3		1991	03	15.29826	11	43	22.15	-00	36	59.8		3	809
1991	EM3		1991	03	15.30868	11	43	21.54	-00	36	55.3		3	809
1991	EM3		1991	03	15.31910	11	43	20.94	-00	36	50.8		3	809
1991	EN3	*	1991	03	11.19132	11	47	56.19	+00	29	55.7	17.5	3	809
1991	EN3		1991	03	11.20174	11	47	55.65	+00	29	57.3		3	809
1991	EN3		1991	03	11.21215	11	47	55.12	+00	29	58.6		3	809
1991	EN3		1991	03	13.26771	11	46	10.61	+00	34	31.0		3	809
1991	EN3		1991	03	13.27812	11	46	10.09	+00	34	32.7		3	809
1991	EN3		1991	03	13.28854	11	46	09.57	+00	34	34.1		3	809
1991	EN3		1991	03	15.29826	11	44	26.32	+00	39	05.7		3	809
1991	EN3		1991	03	15.30868	11	44	25.80	+00	39	07.1		3	809
1991	EN3		1991	03	15.31910	11	44	25.28	+00	39	08.4		3	809
1991	EO3	*	1991	03	11.19132	11	48	09.83	-00	36	22.7	17.7	3	809
1991	EO3		1991	03	11.20174	11	48	09.17	-00	36	20.7		3	809
1991	EO3		1991	03	11.21215	11	48	08.52	-00	36	18.7		3	809
1991	EO3		1991	03	13.26771	11	45	58.50	-00	29	45.8		3	809
1991	EO3		1991	03	13.27812	11	45	57.85	-00	29	43.7		3	809
1991	EO3		1991	03	13.28854	11	45	57.19	-00	29	41.7		3	809
1991	EP3	*	1991	03	11.19132	11	51	17.30	-00	42	07.1	17.6	3	809
1991	EP3		1991	03	11.20174	11	51	16.84	-00	42	03.7		3	809
1991	EP3		1991	03	11.21215	11	51	16.37	-00	42	00.2		3	809
1991	EP3		1991	03	13.26771	11	49	41.25	-00	30	39.5		3	809
1991	EP3		1991	03	13.27812	11	49	40.78	-00	30	36.1		3	809
1991	EP3		1991	03	13.28854	11	49	40.30	-00	30	32.6		3	809
1991	EQ3	*	1991	03	11.19132	11	51	46.34	-01	21	22.1	17.5	3	809
1991	EQ3		1991	03	11.20174	11	51	45.81	-01	21	21.4		3	809
1991	EQ3		1991	03	11.21215	11	51	45.28	-01	21	20.6		3	809
1991	EQ3		1991	03	13.26771	11	50	01.50	-01	18	40.4		3	809
1991	EQ3		1991	03	13.27812	11	50	00.96	-01	18	39.5		3	809
1991	EQ3		1991	03	13.28854	11	50	00.43	-01	18	38.7		3	809
1991	ER3	*	1991	03	11.19132	11	53	42.22	-00	24	42.0	17.6	3	809
1991	ER3		1991	03	11.20174	11	53	41.55	-00	24	41.3		3	809
1991	ER3		1991	03	11.21215	11	53	40.87	-00	24	40.2		3	809

1991	ER3	1991	03	13.26771	11	51	31.51	-00	21	50.9		3	809	
1991	ER3	1991	03	13.27812	11	51	30.87	-00	21	50.1		3	809	
1991	ER3	1991	03	13.28854	11	51	30.22	-00	21	49.1		3	809	
1991	ES3	*	1991	03	11.23125	12	02	00.26	-01	36	02.9	17.1	3	809
1991	ES3		1991	03	11.24375	12	01	59.57	-01	35	59.8		3	809
1991	ES3		1991	03	11.25625	12	01	58.92	-01	35	56.8		3	809
1991	ES3		1991	03	13.30243	12	00	10.23	-01	27	33.5		3	809
1991	ES3		1991	03	13.31285	12	00	09.68	-01	27	30.9		3	809
1991	ES3		1991	03	13.32326	12	00	09.11	-01	27	28.3		3	809
1991	ET3	*	1991	03	11.23125	12	03	30.74	-00	58	26.2		3	809
1991	ET3		1991	03	11.24375	12	03	30.25	-00	58	23.9		3	809
1991	ET3		1991	03	11.25625	12	03	29.76	-00	58	21.7		3	809
1991	ET3		1991	03	13.30243	12	01	28.24	-00	51	36.5		3	809
1991	ET3		1991	03	13.31285	12	01	27.62	-00	51	34.4		3	809
1991	ET3		1991	03	13.32326	12	01	27.00	-00	51	32.3		3	809
1991	EU3	*	1991	03	11.23125	12	04	03.22	-02	09	56.0	17.3	3	809
1991	EU3		1991	03	11.24375	12	04	02.56	-02	09	51.1		3	809
1991	EU3		1991	03	11.25625	12	04	01.91	-02	09	46.2		3	809
1991	EU3		1991	03	13.30243	12	02	15.20	-01	56	29.8		3	809
1991	EU3		1991	03	13.31285	12	02	14.66	-01	56	26.0		3	809
1991	EU3		1991	03	13.32326	12	02	14.11	-01	56	22.2		3	809
1991	EV3	*	1991	03	11.23125	12	04	57.85	-02	19	47.2	17.4	3	809
1991	EV3		1991	03	11.24375	12	04	57.22	-02	19	43.6		3	809
1991	EV3		1991	03	11.25625	12	04	56.57	-02	19	40.3		3	809
1991	EV3		1991	03	13.30243	12	03	12.70	-02	10	44.7		3	809
1991	EV3		1991	03	13.31285	12	03	12.17	-02	10	41.7		3	809
1991	EV3		1991	03	13.32326	12	03	11.64	-02	10	38.9		3	809
1991	EW3	*	1991	03	11.27014	12	10	15.30	-01	33	52.4	17.4	3	809
1991	EW3		1991	03	11.28264	12	10	14.95	-01	33	49.8		3	809
1991	EW3		1991	03	11.29513	12	10	14.59	-01	33	47.2		3	809
1991	EW3		1991	03	13.33576	12	09	15.70	-01	26	50.9		3	809
1991	EW3		1991	03	13.34618	12	09	15.40	-01	26	48.8		3	809
1991	EW3		1991	03	13.35660	12	09	15.11	-01	26	46.8		3	809
1991	EX3	*	1991	03	12.01285	09	29	34.05	+14	32	26.0	17.7	3	809
1991	EX3		1991	03	12.02604	09	29	33.61	+14	32	28.0		3	809
1991	EX3		1991	03	12.03924	09	29	33.17	+14	32	30.2		3	809
1991	EX3		1991	03	14.02118	09	28	26.80	+14	38	10.1		3	809
1991	EX3		1991	03	14.03577	09	28	26.32	+14	38	12.6		3	809
1991	EX3		1991	03	14.05035	09	28	25.85	+14	38	15.1		3	809
1991	EX3		1991	03	16.09757	09	27	21.94	+14	43	40.7		3	809
1991	EX3		1991	03	16.11215	09	27	21.49	+14	43	43.1		3	809
1991	EX3		1991	03	16.12674	09	27	21.03	+14	43	45.5		3	809
1991	EY3	*	1991	03	12.01285	09	30	27.69	+14	11	47.8	17.4	3	809
1991	EY3		1991	03	12.02604	09	30	27.23	+14	11	49.9		3	809
1991	EY3		1991	03	12.03924	09	30	26.77	+14	11	51.7		3	809
1991	EY3		1991	03	14.02118	09	29	19.53	+14	16	24.9		3	809
1991	EY3		1991	03	14.03577	09	29	19.03	+14	16	26.8		3	809
1991	EY3		1991	03	14.05035	09	29	18.53	+14	16	28.6		3	809
1991	EY3		1991	03	16.09757	09	28	15.02	+14	20	43.8		3	809
1991	EY3		1991	03	16.11215	09	28	14.54	+14	20	45.4		3	809
1991	EY3		1991	03	16.12674	09	28	14.09	+14	20	47.2		3	809
1991	EZ3	*	1991	03	12.05451	09	42	51.17	+13	49	14.7	17.2	3	809
1991	EZ3		1991	03	12.06910	09	42	50.63	+13	49	16.5		3	809
1991	EZ3		1991	03	12.08368	09	42	50.08	+13	49	18.3		3	809
1991	EZ3		1991	03	15.05868	09	40	56.57	+13	55	26.6		3	809
1991	EZ3		1991	03	15.07327	09	40	56.03	+13	55	28.5		3	809
1991	EZ3		1991	03	15.08784	09	40	55.49	+13	55	30.1		3	809
1991	EA4	*	1991	03	12.05451	09	43	57.63	+13	47	21.9	17.2	3	809
1991	EA4		1991	03	12.06910	09	43	57.16	+13	47	23.8		3	809

1991	EA4	1991	03	12.08368	09	43	56.68	+13	47	26.1		3	809	
1991	EA4	1991	03	15.05868	09	42	19.95	+13	54	51.5		3	809	
1991	EA4	1991	03	15.07327	09	42	19.50	+13	54	53.7		3	809	
1991	EA4	1991	03	15.08784	09	42	19.03	+13	54	55.9		3	809	
1991	EB4	*	1991	03	12.05451	09	44	21.20	+14	38	00.3	17.5	3	809
1991	EB4		1991	03	12.06910	09	44	20.44	+14	38	00.5		3	809
1991	EB4		1991	03	12.08368	09	44	19.65	+14	38	00.7		3	809
1991	EB4		1991	03	15.05868	09	41	44.11	+14	39	01.5		3	809
1991	EB4		1991	03	15.07327	09	41	43.35	+14	39	02.2		3	809
1991	EB4		1991	03	15.08784	09	41	42.58	+14	39	02.8		3	809
1991	EC4	*	1991	03	12.09966	10	41	53.95	+06	16	14.4	17.5	3	809
1991	EC4		1991	03	12.11007	10	41	53.47	+06	16	17.7		3	809
1991	EC4		1991	03	12.12048	10	41	53.00	+06	16	21.1		3	809
1991	EC4		1991	03	14.15729	10	40	19.06	+06	27	22.9		3	809
1991	EC4		1991	03	14.16771	10	40	18.58	+06	27	26.1		3	809
1991	EC4		1991	03	14.17812	10	40	18.11	+06	27	29.5		3	809
1991	ED4	*	1991	03	12.09966	10	42	21.06	+06	15	17.1	17.4	3	809
1991	ED4		1991	03	12.11007	10	42	20.41	+06	15	22.5		3	809
1991	ED4		1991	03	12.12048	10	42	19.76	+06	15	28.0		3	809
1991	ED4		1991	03	14.15729	10	40	14.14	+06	33	10.5		3	809
1991	ED4		1991	03	14.16771	10	40	13.50	+06	33	15.9		3	809
1991	ED4		1991	03	14.17812	10	40	12.85	+06	33	21.4		3	809
1991	EE4	*	1991	03	12.09966	10	44	34.67	+06	25	36.6	16.7	3	809
1991	EE4		1991	03	12.11007	10	44	34.08	+06	25	37.6		3	809
1991	EE4		1991	03	12.12048	10	44	33.49	+06	25	38.6		3	809
1991	EE4		1991	03	14.18993	10	42	36.63	+06	29	03.8		3	809
1991	EE4		1991	03	14.20035	10	42	36.04	+06	29	04.9		3	809
1991	EE4		1991	03	14.21076	10	42	35.45	+06	29	06.0		3	809
1991	EE4		1991	03	17.20555	10	39	53.57	+06	33	38.2		3	809
1991	EE4		1991	03	17.21806	10	39	52.90	+06	33	39.2		3	809
1991	EE4		1991	03	17.23056	10	39	52.21	+06	33	40.0		3	809
1991	EF4	*	1991	03	12.09966	10	45	40.30	+05	51	22.9	17.1	3	809
1991	EF4		1991	03	12.11007	10	45	39.79	+05	51	25.1		3	809
1991	EF4		1991	03	12.12048	10	45	39.27	+05	51	27.3		3	809
1991	EF4		1991	03	14.18993	10	43	59.48	+05	58	58.6		3	809
1991	EF4		1991	03	14.20035	10	43	58.98	+05	59	00.9		3	809
1991	EF4		1991	03	14.21076	10	43	58.48	+05	59	03.2		3	809
1991	EF4		1991	03	17.20555	10	41	38.77	+06	09	39.1		3	809
1991	EF4		1991	03	17.21806	10	41	38.19	+06	09	41.9		3	809
1991	EF4		1991	03	17.23056	10	41	37.60	+06	09	44.6		3	809
1991	EG4	*	1991	03	12.09966	10	45	46.27	+06	21	19.2	17.5	3	809
1991	EG4		1991	03	12.11007	10	45	45.72	+06	21	19.4		3	809
1991	EG4		1991	03	12.12048	10	45	45.17	+06	21	19.5		3	809
1991	EG4		1991	03	14.18993	10	43	56.40	+06	21	42.3		3	809
1991	EG4		1991	03	14.20035	10	43	55.84	+06	21	42.4		3	809
1991	EG4		1991	03	14.21076	10	43	55.28	+06	21	42.5		3	809
1991	EH4	*	1991	03	12.16910	10	17	35.54	+07	20	03.7	17.6	3	809
1991	EH4		1991	03	12.17951	10	17	34.97	+07	20	06.2		3	809
1991	EH4		1991	03	12.18993	10	17	34.43	+07	20	09.0		3	809
1991	EH4		1991	03	14.22396	10	15	46.74	+07	28	21.2		3	809
1991	EH4		1991	03	14.23438	10	15	46.17	+07	28	23.7		3	809
1991	EH4		1991	03	14.24479	10	15	45.62	+07	28	26.2		3	809
1991	EJ4	*	1991	03	12.16910	10	24	26.28	+07	10	31.7	17.1	3	809
1991	EJ4		1991	03	12.17951	10	24	25.80	+07	10	34.1		3	809
1991	EJ4		1991	03	12.18993	10	24	25.34	+07	10	36.6		3	809
1991	EJ4		1991	03	14.25799	10	22	54.15	+07	17	55.8		3	809
1991	EJ4		1991	03	14.26840	10	22	53.71	+07	17	58.0		3	809
1991	EJ4		1991	03	14.27882	10	22	53.25	+07	18	00.4		3	809
1991	EJ4		1991	03	17.16597	10	20	51.12	+07	27	52.7		3	809

1991	EJ4	1991	03	17.17847	10	20	50.64	+07	27	55.7		3	809	
1991	EJ4	1991	03	17.19097	10	20	50.16	+07	27	58.7		3	809	
1991	EK4	*	1991	03	12.16910	10	24	28.17	+07	42	56.5	17.2	3	809
1991	EK4		1991	03	12.17951	10	24	27.61	+07	43	01.4		3	809
1991	EK4		1991	03	12.18993	10	24	27.05	+07	43	06.1		3	809
1991	EK4		1991	03	15.15521	10	21	52.70	+08	04	37.7		3	809
1991	EK4		1991	03	15.16563	10	21	52.18	+08	04	41.9		3	809
1991	EK4		1991	03	15.17604	10	21	51.66	+08	04	46.1		3	809
1991	EK4		1991	03	17.16597	10	20	14.44	+08	18	40.6		3	809
1991	EK4		1991	03	17.17847	10	20	13.85	+08	18	45.9		3	809
1991	EK4		1991	03	17.19097	10	20	13.25	+08	18	51.2		3	809
1991	EL4	*	1991	03	12.20521	11	40	03.77	-00	41	13.8	16.9	3	809
1991	EL4		1991	03	12.21562	11	40	03.27	-00	41	07.4		3	809
1991	EL4		1991	03	12.22604	11	40	02.78	-00	41	01.1		3	809
1991	EL4		1991	03	14.30590	11	38	27.05	-00	20	01.9		3	809
1991	EL4		1991	03	14.31632	11	38	26.57	-00	19	55.5		3	809
1991	EL4		1991	03	14.32674	11	38	26.10	-00	19	49.1		3	809
1991	EL4		1991	03	15.26493	11	37	42.73	-00	10	14.2		3	809
1991	EL4		1991	03	15.27534	11	37	42.23	-00	10	07.6		3	809
1991	EL4		1991	03	15.28577	11	37	41.75	-00	10	01.2		3	809
1991	EL4		1991	03	17.31736	11	36	07.17	+00	10	54.3		3	809
1991	EL4		1991	03	17.32987	11	36	06.56	+00	11	02.3		3	809
1991	EL4		1991	03	17.34236	11	36	05.98	+00	11	10.0		3	809
1991	EM4	*	1991	03	12.20521	11	41	34.12	-00	36	27.3	17.4	3	809
1991	EM4		1991	03	12.21562	11	41	33.49	-00	36	26.2		3	809
1991	EM4		1991	03	12.22604	11	41	32.85	-00	36	25.1		3	809
1991	EM4		1991	03	15.26493	11	38	26.73	-00	31	04.3		3	809
1991	EM4		1991	03	15.27534	11	38	26.10	-00	31	03.3		3	809
1991	EM4		1991	03	15.28577	11	38	25.47	-00	31	02.1		3	809
1991	EN4	*	1991	03	12.20521	11	41	47.58	-01	03	53.0	17.2	3	809
1991	EN4		1991	03	12.21562	11	41	47.06	-01	03	46.2		3	809
1991	EN4		1991	03	12.22604	11	41	46.55	-01	03	39.2		3	809
1991	EN4		1991	03	14.30590	11	40	02.47	-00	41	11.5		3	809
1991	EN4		1991	03	14.31632	11	40	01.95	-00	41	04.8		3	809
1991	EN4		1991	03	14.32674	11	40	01.44	-00	40	58.3		3	809
1991	EN4		1991	03	15.26493	11	39	14.04	-00	30	40.9		3	809
1991	EN4		1991	03	15.27534	11	39	13.49	-00	30	34.1		3	809
1991	EN4		1991	03	15.28577	11	39	12.95	-00	30	27.3		3	809
1991	EN4		1991	03	17.31736	11	37	29.12	-00	07	49.3		3	809
1991	EN4		1991	03	17.32987	11	37	28.48	-00	07	40.9		3	809
1991	EN4		1991	03	17.34236	11	37	27.84	-00	07	32.5		3	809
1991	EO4	*	1991	03	12.20521	11	42	42.86	-00	03	05.3	17.3	3	809
1991	EO4		1991	03	12.21562	11	42	42.26	-00	03	02.4		3	809
1991	EO4		1991	03	12.22604	11	42	41.69	-00	02	59.3		3	809
1991	EO4		1991	03	14.30590	11	40	42.23	+00	07	30.4		3	809
1991	EO4		1991	03	14.31632	11	40	41.62	+00	07	33.4		3	809
1991	EO4		1991	03	14.32674	11	40	41.02	+00	07	36.4		3	809
1991	EO4		1991	03	17.31736	11	37	47.43	+00	23	09.1		3	809
1991	EO4		1991	03	17.32987	11	37	46.72	+00	23	13.1		3	809
1991	EO4		1991	03	17.34236	11	37	45.99	+00	23	17.1		3	809
1991	EQ4	*	1991	03	12.28368	12	22	45.91	-01	20	46.2	17.6	3	809
1991	EQ4		1991	03	12.29410	12	22	45.40	-01	20	42.1		3	809
1991	EQ4		1991	03	12.30451	12	22	44.86	-01	20	37.8		3	809
1991	EQ4		1991	03	16.22569	12	19	22.46	-00	53	36.9		3	809
1991	EQ4		1991	03	16.23819	12	19	21.82	-00	53	31.8		3	809
1991	EQ4		1991	03	16.25069	12	19	21.17	-00	53	26.7		3	809
1991	ER4	*	1991	03	12.28368	12	23	48.90	-01	30	31.8	17.7	3	809
1991	ER4		1991	03	12.29410	12	23	48.29	-01	30	30.8		3	809
1991	ER4		1991	03	12.30451	12	23	47.68	-01	30	29.6		3	809

1991	ER4	1991	03	16.22569	12	19	57.46	-01	25	20.1		3	809	
1991	ER4	1991	03	16.23819	12	19	56.73	-01	25	19.3		3	809	
1991	ER4	1991	03	16.25069	12	19	55.96	-01	25	18.3		3	809	
1991	ES4	*	1991	03	12.28368	12	24	24.20	-01	43	02.0	17.5	3	809
1991	ES4		1991	03	12.29410	12	24	23.68	-01	42	58.2		3	809
1991	ES4		1991	03	12.30451	12	24	23.14	-01	42	54.4		3	809
1991	ES4		1991	03	14.34062	12	22	38.00	-01	30	22.3		3	809
1991	ES4		1991	03	14.35104	12	22	37.48	-01	30	18.2		3	809
1991	ES4		1991	03	14.36146	12	22	36.96	-01	30	14.3		3	809
1991	ES4		1991	03	16.22569	12	20	57.95	-01	18	25.0		3	809
1991	ES4		1991	03	16.23819	12	20	57.30	-01	18	20.2		3	809
1991	ES4		1991	03	16.25069	12	20	56.63	-01	18	15.3		3	809
1991	ET4	*	1991	03	12.28368	12	27	47.04	-00	40	43.2	17.3	3	809
1991	ET4		1991	03	12.29410	12	27	46.40	-00	40	42.2		3	809
1991	ET4		1991	03	12.30451	12	27	45.78	-00	40	41.1		3	809
1991	ET4		1991	03	14.34062	12	25	42.92	-00	37	21.5		3	809
1991	ET4		1991	03	14.35104	12	25	42.28	-00	37	20.5		3	809
1991	ET4		1991	03	14.36146	12	25	41.68	-00	37	19.4		3	809
1991	ET4		1991	03	16.22569	12	23	45.56	-00	34	03.1		3	809
1991	ET4		1991	03	16.23819	12	23	44.77	-00	34	01.6		3	809
1991	ET4		1991	03	16.25069	12	23	43.99	-00	34	00.5		3	809
1991	EU4	*	1991	03	12.28368	12	29	23.14	-01	14	18.3	17.5	3	809
1991	EU4		1991	03	12.29410	12	29	22.69	-01	14	14.4		3	809
1991	EU4		1991	03	12.30451	12	29	22.22	-01	14	10.4		3	809
1991	EU4		1991	03	14.34062	12	27	51.21	-01	01	44.6		3	809
1991	EU4		1991	03	14.35104	12	27	50.74	-01	01	40.8		3	809
1991	EU4		1991	03	14.36146	12	27	50.28	-01	01	36.9		3	809
1991	EW4	*	1991	03	13.06076	09	45	46.88	+14	07	06.0	16.9	3	809
1991	EW4		1991	03	13.07535	09	45	46.32	+14	07	08.0		3	809
1991	EW4		1991	03	13.08993	09	45	45.78	+14	07	10.2		3	809
1991	EW4		1991	03	14.12048	09	45	07.75	+14	09	45.2		3	809
1991	EW4		1991	03	14.13091	09	45	07.36	+14	09	46.9		3	809
1991	EW4		1991	03	14.14132	09	45	06.98	+14	09	48.5		3	809
1991	EW4		1991	03	15.05868	09	44	34.37	+14	12	04.0		3	809
1991	EW4		1991	03	15.07327	09	44	33.86	+14	12	06.2		3	809
1991	EW4		1991	03	15.08784	09	44	33.34	+14	12	08.4		3	809
1991	EX4	*	1991	03	13.06076	09	47	29.54	+14	36	42.7	17.6	3	809
1991	EX4		1991	03	13.07535	09	47	28.87	+14	36	43.6		3	809
1991	EX4		1991	03	13.08993	09	47	28.22	+14	36	44.5		3	809
1991	EX4		1991	03	15.05868	09	45	59.83	+14	38	49.8		3	809
1991	EX4		1991	03	15.07327	09	45	59.19	+14	38	50.9		3	809
1991	EX4		1991	03	15.08784	09	45	58.54	+14	38	51.9		3	809
1991	EX4		1991	03	15.10452	09	45	57.80	+14	38	52.9		3	809
1991	EX4		1991	03	15.11909	09	45	57.12	+14	38	53.4		3	809
1991	EX4		1991	03	15.13368	09	45	56.46	+14	38	54.0		3	809
1991	EY4	*	1991	03	13.06076	09	48	18.55	+14	40	20.2	17.2	3	809
1991	EY4		1991	03	13.07535	09	48	17.98	+14	40	23.3		3	809
1991	EY4		1991	03	13.08993	09	48	17.40	+14	40	26.4		3	809
1991	EY4		1991	03	15.10452	09	46	58.07	+14	47	33.5		3	809
1991	EY4		1991	03	15.11909	09	46	57.50	+14	47	36.6		3	809
1991	EY4		1991	03	15.13368	09	46	56.93	+14	47	39.4		3	809
1991	EZ4	*	1991	03	13.06076	09	48	44.75	+14	57	42.3	17.4	3	809
1991	EZ4		1991	03	13.07535	09	48	44.23	+14	57	46.2		3	809
1991	EZ4		1991	03	13.08993	09	48	43.70	+14	57	49.8		3	809
1991	EZ4		1991	03	15.10452	09	47	29.10	+15	06	08.7		3	809
1991	EZ4		1991	03	15.11909	09	47	28.56	+15	06	12.7		3	809
1991	EZ4		1991	03	15.13368	09	47	28.03	+15	06	16.7		3	809
1991	EA5	*	1991	03	13.06076	09	49	04.69	+13	26	15.5	17.5	3	809
1991	EA5		1991	03	13.07535	09	49	04.21	+13	26	18.3		3	809

1991	EA5		1991	03	13.08993	09	49	03.73	+13	26	21.1		3	809
1991	EA5		1991	03	15.10452	09	47	56.19	+13	32	50.2		3	809
1991	EA5		1991	03	15.11909	09	47	55.68	+13	32	53.0		3	809
1991	EA5		1991	03	15.13368	09	47	55.20	+13	32	55.9		3	809
1991	EB5	*	1991	03	13.06076	09	51	42.62	+14	51	42.2	17.4	3	809
1991	EB5		1991	03	13.07535	09	51	42.00	+14	51	47.2		3	809
1991	EB5		1991	03	13.08993	09	51	41.39	+14	51	52.5		3	809
1991	EB5		1991	03	15.10452	09	50	16.09	+15	04	06.0		3	809
1991	EB5		1991	03	15.11909	09	50	15.47	+15	04	11.6		3	809
1991	EB5		1991	03	15.13368	09	50	14.86	+15	04	17.1		3	809
1991	EC5	*	1991	03	13.06076	09	52	53.81	+13	51	36.7	17.8	3	809
1991	EC5		1991	03	13.07535	09	52	53.36	+13	51	39.6		3	809
1991	EC5		1991	03	13.08993	09	52	52.89	+13	51	42.5		3	809
1991	EC5		1991	03	15.10452	09	51	47.16	+13	58	21.1		3	809
1991	EC5		1991	03	15.11909	09	51	46.71	+13	58	24.0		3	809
1991	EC5		1991	03	15.13368	09	51	46.24	+13	58	26.9		3	809
1991	ED5	*	1991	03	13.26771	11	51	42.70	-01	18	31.1	17.4	3	809
1991	ED5		1991	03	13.27812	11	51	42.05	-01	18	28.1		3	809
1991	ED5		1991	03	13.28854	11	51	41.39	-01	18	25.1		3	809
1991	ED5		1991	03	15.29826	11	49	33.78	-01	08	49.0		3	809
1991	ED5		1991	03	15.30868	11	49	33.12	-01	08	45.9		3	809
1991	ED5		1991	03	15.31910	11	49	32.45	-01	08	43.0		3	809
1991	EE5	*	1991	03	14.02118	09	26	04.99	+13	55	52.7	17.6	3	809
1991	EE5		1991	03	14.03577	09	26	04.46	+13	55	55.3		3	809
1991	EE5		1991	03	14.05035	09	26	03.91	+13	55	57.4		3	809
1991	EE5		1991	03	16.09757	09	24	47.56	+14	01	00.5		3	809
1991	EE5		1991	03	16.11215	09	24	47.01	+14	01	02.6		3	809
1991	EE5		1991	03	16.12674	09	24	46.46	+14	01	04.9		3	809
1991	EF5	*	1991	03	14.02118	09	26	44.91	+14	29	06.2	17.6	3	809
1991	EF5		1991	03	14.03577	09	26	44.56	+14	29	08.5		3	809
1991	EF5		1991	03	14.05035	09	26	44.21	+14	29	10.9		3	809
1991	EF5		1991	03	16.09757	09	25	54.46	+14	34	45.7		3	809
1991	EF5		1991	03	16.11215	09	25	54.12	+14	34	48.4		3	809
1991	EF5		1991	03	16.12674	09	25	53.77	+14	34	50.7		3	809
1991	EG5	*	1991	03	14.18993	10	42	21.67	+07	28	50.5	17.9	3	809
1991	EG5		1991	03	14.20035	10	42	21.27	+07	28	53.1		3	809
1991	EG5		1991	03	14.21076	10	42	20.86	+07	28	55.9		3	809
1991	EG5		1991	03	17.20555	10	40	23.90	+07	40	32.1		3	809
1991	EG5		1991	03	17.21806	10	40	23.42	+07	40	34.9		3	809
1991	EG5		1991	03	17.23056	10	40	22.93	+07	40	37.7		3	809
1991	EH5	*	1991	03	14.18993	10	44	26.07	+07	10	11.6	17.2	3	809
1991	EH5		1991	03	14.20035	10	44	25.62	+07	10	14.4		3	809
1991	EH5		1991	03	14.21076	10	44	25.15	+07	10	17.6		3	809
1991	EH5		1991	03	17.20555	10	42	14.18	+07	25	08.7		3	809
1991	EH5		1991	03	17.21806	10	42	13.63	+07	25	12.1		3	809
1991	EH5		1991	03	17.23056	10	42	13.07	+07	25	15.8		3	809
1991	EJ5	*	1991	03	14.18993	10	46	55.31	+07	31	21.6	16.8	3	809
1991	EJ5		1991	03	14.20035	10	46	54.60	+07	31	22.5		3	809
1991	EJ5		1991	03	14.21076	10	46	53.90	+07	31	23.5		3	809
1991	EJ5		1991	03	17.20555	10	43	35.51	+07	35	40.5		3	809
1991	EJ5		1991	03	17.21806	10	43	34.71	+07	35	41.6		3	809
1991	EJ5		1991	03	17.23056	10	43	33.89	+07	35	42.3		3	809
1991	EK5	*	1991	03	14.18993	10	47	29.41	+06	34	33.3	17.6	3	809
1991	EK5		1991	03	14.20035	10	47	28.92	+06	34	39.6		3	809
1991	EK5		1991	03	14.21076	10	47	28.44	+06	34	45.8		3	809
1991	EK5		1991	03	17.20555	10	45	13.43	+07	04	20.3		3	809
1991	EK5		1991	03	17.21806	10	45	12.85	+07	04	27.8		3	809
1991	EK5		1991	03	17.23056	10	45	12.29	+07	04	35.2		3	809
1991	EL5	*	1991	03	14.18993	10	48	40.50	+06	50	52.8	17.7	3	809

1991	EL5	1991	03	14.20035	10	48	40.04	+06	50	55.3		3	809	
1991	EL5	1991	03	14.21076	10	48	39.55	+06	50	57.8		3	809	
1991	EL5	1991	03	17.20555	10	46	24.91	+07	02	54.8		3	809	
1991	EL5	1991	03	17.21806	10	46	24.35	+07	02	58.1		3	809	
1991	EL5	1991	03	17.23056	10	46	23.77	+07	03	01.1		3	809	
1991	EM5	*	1991	03	14.18993	10	49	07.85	+05	57	11.9	17.0	3	809
1991	EM5		1991	03	14.20035	10	49	07.25	+05	57	13.7		3	809
1991	EM5		1991	03	14.21076	10	49	06.65	+05	57	15.6		3	809
1991	EM5		1991	03	17.20555	10	46	11.97	+06	06	01.4		3	809
1991	EM5		1991	03	17.21806	10	46	11.27	+06	06	03.6		3	809
1991	EM5		1991	03	17.23056	10	46	10.54	+06	06	05.8		3	809
1991	EN5	*	1991	03	14.25799	10	24	57.03	+08	48	14.0	17.3	3	809
1991	EN5		1991	03	14.26840	10	24	56.44	+08	48	16.7		3	809
1991	EN5		1991	03	14.27882	10	24	55.86	+08	48	19.7		3	809
1991	EN5		1991	03	15.15521	10	24	08.74	+08	52	12.2		3	809
1991	EN5		1991	03	15.16563	10	24	08.20	+08	52	15.0		3	809
1991	EN5		1991	03	15.17604	10	24	07.62	+08	52	17.8		3	809
1991	EO5	*	1991	03	14.25799	10	28	36.63	+07	50	39.9	17.2	3	809
1991	EO5		1991	03	14.26840	10	28	36.21	+07	50	44.4		3	809
1991	EO5		1991	03	14.27882	10	28	35.80	+07	50	49.0		3	809
1991	EO5		1991	03	15.15521	10	28	02.06	+07	56	39.4		3	809
1991	EO5		1991	03	15.16563	10	28	01.66	+07	56	43.6		3	809
1991	EO5		1991	03	15.17604	10	28	01.25	+07	56	47.9		3	809
1991	EO5		1991	03	17.16597	10	26	46.52	+08	09	44.2		3	809
1991	EO5		1991	03	17.17847	10	26	46.05	+08	09	49.1		3	809
1991	EO5		1991	03	17.19097	10	26	45.59	+08	09	54.0		3	809
1991	EP5	*	1991	03	14.37326	12	27	27.72	-05	37	00.8	16.9	3	809
1991	EP5		1991	03	14.38368	12	27	27.25	-05	36	57.2		3	809
1991	EP5		1991	03	14.39410	12	27	26.77	-05	36	53.6		3	809
1991	EP5		1991	03	16.26666	12	26	00.30	-05	25	56.4		3	809
1991	EP5		1991	03	16.27917	12	25	59.72	-05	25	52.4		3	809
1991	EP5		1991	03	16.29166	12	25	59.15	-05	25	48.0		3	809
1991	EQ5	*	1991	03	14.37326	12	30	57.68	-04	49	49.9	17.7	3	809
1991	EQ5		1991	03	14.38368	12	30	57.20	-04	49	46.6		3	809
1991	EQ5		1991	03	14.39410	12	30	56.71	-04	49	43.3		3	809
1991	EQ5		1991	03	16.26666	12	29	27.92	-04	39	56.0		3	809
1991	EQ5		1991	03	16.27917	12	29	27.33	-04	39	51.9		3	809
1991	EQ5		1991	03	16.29166	12	29	26.75	-04	39	48.0		3	809
1991	ER5	*	1991	03	15.05868	09	42	11.18	+15	28	45.0	17.6	3	809
1991	ER5		1991	03	15.07327	09	42	10.56	+15	28	46.9		3	809
1991	ER5		1991	03	15.08784	09	42	09.94	+15	28	48.7		3	809
1991	ER5		1991	03	17.11979	09	40	43.38	+15	33	22.6		3	809
1991	ER5		1991	03	17.13438	09	40	42.77	+15	33	24.6		3	809
1991	ER5		1991	03	17.14896	09	40	42.15	+15	33	26.6		3	809
1991	ES5	*	1991	03	15.05868	09	44	59.99	+15	19	36.5	17.4	3	809
1991	ES5		1991	03	15.07327	09	44	59.42	+15	19	36.6		3	809
1991	ES5		1991	03	15.08784	09	44	58.85	+15	19	36.7		3	809
1991	ES5		1991	03	17.11979	09	43	38.94	+15	19	50.7		3	809
1991	ES5		1991	03	17.13438	09	43	38.37	+15	19	50.8		3	809
1991	ES5		1991	03	17.14896	09	43	37.80	+15	19	50.9		3	809
1991	ET5	*	1991	03	15.10452	09	47	18.00	+15	22	20.1	17.5	3	809
1991	ET5		1991	03	15.11909	09	47	17.42	+15	22	25.0		3	809
1991	ET5		1991	03	15.13368	09	47	16.86	+15	22	29.7		3	809
1991	ET5		1991	03	17.11979	09	45	58.56	+15	33	31.3		3	809
1991	ET5		1991	03	17.13438	09	45	58.00	+15	33	36.3		3	809
1991	ET5		1991	03	17.14896	09	45	57.43	+15	33	41.3		3	809
1991	FL		1991	03	14.37326	12	31	06.50	-06	06	26.6	16.8	3	809
1991	FL		1991	03	14.38368	12	31	06.02	-06	06	23.7		3	809
1991	FL		1991	03	14.39410	12	31	05.53	-06	06	21.1		3	809

1991 FL	1991 03	16.26666	12 29	39.93	-05 57	45.8		3 809
1991 FL	1991 03	16.27917	12 29	39.36	-05 57	42.4		3 809
1991 FL	1991 03	16.29166	12 29	38.79	-05 57	39.1		3 809
1991 FM	1991 03	12.25035	12 33	33.96	-06 08	01.4	16.7	3 809
1991 FM	1991 03	12.26076	12 33	33.43	-06 07	59.9		3 809
1991 FM	1991 03	12.27118	12 33	32.89	-06 07	58.5		3 809
1991 FM	1991 03	14.37326	12 31	42.51	-06 01	40.5		3 809
1991 FM	1991 03	14.38368	12 31	41.97	-06 01	38.8		3 809
1991 FM	1991 03	14.39410	12 31	41.43	-06 01	37.4		3 809
1991 FM	1991 03	16.26666	12 29	59.05	-05 55	25.9		3 809
1991 FM	1991 03	16.27917	12 29	58.37	-05 55	23.4		3 809
1991 FM	1991 03	16.29166	12 29	57.66	-05 55	20.9		3 809
1991 FN	1991 03	22.33403	13 27	58.18	-12 35	38.5	17.6	3 809
1991 FN	1991 03	22.34653	13 27	57.14	-12 35	46.9		3 809
1991 FN	1991 03	22.35902	13 27	56.10	-12 35	55.4		3 809
1991 FN	1991 03	23.38368	13 26	30.61	-12 47	30.4		3 809
1991 FN	1991 03	23.39271	13 26	29.86	-12 47	36.5		3 809
1991 FN	1991 03	23.40173	13 26	29.10	-12 47	42.7		3 809
1991 FN	1991 03	25.38541	13 23	37.35	-13 09	42.9		3 809
1991 FN	1991 03	25.39237	13 23	36.76	-13 09	47.6		3 809
1991 FN	1991 03	25.39931	13 23	36.18	-13 09	52.3		3 809
1991 FN	1991 03	27.37674	13 20	36.98	-13 31	16.9		3 809
1991 FN	1991 03	27.38854	13 20	35.90	-13 31	24.5		3 809
1991 FN	1991 03	27.40034	13 20	34.84	-13 31	32.1		3 809
1991 FL1 *	1991 03	17.11979	09 39	45.38	+16 46	21.2	17.2	3 809
1991 FL1	1991 03	17.13438	09 39	44.88	+16 46	21.9		3 809
1991 FL1	1991 03	17.14896	09 39	44.35	+16 46	22.3		3 809
1991 FL1	1991 03	19.06632	09 38	37.59	+16 47	27.0		3 809
1991 FL1	1991 03	19.08090	09 38	37.08	+16 47	27.5		3 809
1991 FL1	1991 03	19.09549	09 38	36.58	+16 47	28.0		3 809
1991 FM1 *	1991 03	17.20555	10 46	55.27	+07 55	28.0	17.5	3 809
1991 FM1	1991 03	17.21806	10 46	54.74	+07 55	31.0		3 809
1991 FM1	1991 03	17.23056	10 46	54.21	+07 55	33.8		3 809
1991 FM1	1991 03	18.17673	10 46	14.33	+07 59	33.4		3 809
1991 FM1	1991 03	18.18715	10 46	13.87	+07 59	36.1		3 809
1991 FM1	1991 03	18.19757	10 46	13.41	+07 59	38.7		3 809
1991 FN1 *	1991 03	17.24548	11 02	26.23	+06 10	17.9	17.7	3 809
1991 FN1	1991 03	17.25591	11 02	25.75	+06 10	20.0		3 809
1991 FN1	1991 03	17.26632	11 02	25.27	+06 10	22.5		3 809
1991 FN1	1991 03	20.12952	11 00	11.94	+06 19	49.0		3 809
1991 FN1	1991 03	20.13993	11 00	11.45	+06 19	51.2		3 809
1991 FN1	1991 03	20.15034	11 00	10.97	+06 19	53.2		3 809
1991 FO1 *	1991 03	17.24548	11 06	34.49	+06 00	18.9	17.3	3 809
1991 FO1	1991 03	17.25591	11 06	33.98	+06 00	21.7		3 809
1991 FO1	1991 03	17.26632	11 06	33.51	+06 00	24.1		3 809
1991 FO1	1991 03	19.25174	11 04	59.91	+06 09	05.4		3 809
1991 FO1	1991 03	19.26215	11 04	59.42	+06 09	08.2		3 809
1991 FO1	1991 03	19.27257	11 04	58.94	+06 09	11.0		3 809
1991 FO1	1991 03	20.12952	11 04	19.31	+06 12	50.6		3 809
1991 FO1	1991 03	20.13993	11 04	18.83	+06 12	53.2		3 809
1991 FO1	1991 03	20.15034	11 04	18.35	+06 12	56.1		3 809
1991 FO1	1991 03	20.16216	11 04	17.80	+06 12	59.1		3 809
1991 FO1	1991 03	20.17257	11 04	17.32	+06 13	01.8		3 809
1991 FO1	1991 03	20.18298	11 04	16.84	+06 13	04.5		3 809
1991 FO1	1991 03	21.15173	11 03	32.37	+06 17	07.4		3 809
1991 FO1	1991 03	21.16216	11 03	31.89	+06 17	10.0		3 809
1991 FO1	1991 03	21.17257	11 03	31.43	+06 17	12.7		3 809
1991 FP1 *	1991 03	17.24548	11 07	09.54	+07 17	08.8	17.4	3 809
1991 FP1	1991 03	17.25591	11 07	08.91	+07 17	10.6		3 809

1991	FP1	1991	03	17.26632	11	07	08.29	+07	17	12.5		3	809	
1991	FP1	1991	03	20.12952	11	04	16.52	+07	25	32.8		3	809	
1991	FP1	1991	03	20.13993	11	04	15.90	+07	25	34.7		3	809	
1991	FP1	1991	03	20.15034	11	04	15.28	+07	25	36.2		3	809	
1991	FP1	1991	03	21.11771	11	03	18.67	+07	28	13.3		3	809	
1991	FP1	1991	03	21.12813	11	03	18.06	+07	28	15.0		3	809	
1991	FP1	1991	03	21.13854	11	03	17.45	+07	28	16.4		3	809	
1991	FQ1	*	1991	03	17.24548	11	07	52.46	+06	34	46.4	17.4	3	809
1991	FQ1		1991	03	17.25591	11	07	51.82	+06	34	48.9		3	809
1991	FQ1		1991	03	17.26632	11	07	51.20	+06	34	51.4		3	809
1991	FQ1		1991	03	19.25174	11	05	51.54	+06	42	21.9		3	809
1991	FQ1		1991	03	19.26215	11	05	50.92	+06	42	24.6		3	809
1991	FQ1		1991	03	19.27257	11	05	50.29	+06	42	26.9		3	809
1991	FQ1		1991	03	20.12952	11	05	00.20	+06	45	33.5		3	809
1991	FQ1		1991	03	20.13993	11	04	59.60	+06	45	35.8		3	809
1991	FQ1		1991	03	20.15034	11	04	59.01	+06	45	38.0		3	809
1991	FR1	*	1991	03	17.24548	11	08	00.39	+06	01	45.2	17.6	3	809
1991	FR1		1991	03	17.25591	11	07	59.82	+06	01	49.5		3	809
1991	FR1		1991	03	17.26632	11	07	59.26	+06	01	54.1		3	809
1991	FR1		1991	03	20.12952	11	05	32.51	+06	22	29.1		3	809
1991	FR1		1991	03	20.13993	11	05	31.98	+06	22	33.5		3	809
1991	FR1		1991	03	20.15034	11	05	31.48	+06	22	37.8		3	809
1991	FS1	*	1991	03	17.24548	11	08	33.63	+06	13	44.8	17.2	3	809
1991	FS1		1991	03	17.25591	11	08	33.05	+06	13	48.1		3	809
1991	FS1		1991	03	17.26632	11	08	32.48	+06	13	51.5		3	809
1991	FS1		1991	03	19.25174	11	06	44.47	+06	24	46.9		3	809
1991	FS1		1991	03	19.26215	11	06	43.90	+06	24	50.4		3	809
1991	FS1		1991	03	19.27257	11	06	43.32	+06	24	53.6		3	809
1991	FS1		1991	03	20.12952	11	05	57.84	+06	29	29.8		3	809
1991	FS1		1991	03	20.13993	11	05	57.29	+06	29	33.4		3	809
1991	FS1		1991	03	20.15034	11	05	56.73	+06	29	37.0		3	809
1991	FT1	*	1991	03	17.27744	11	05	54.28	+05	17	49.3	17.4	3	809
1991	FT1		1991	03	17.28785	11	05	53.70	+05	17	50.3		3	809
1991	FT1		1991	03	17.29826	11	05	53.12	+05	17	51.3		3	809
1991	FT1		1991	03	20.16216	11	03	16.49	+05	22	31.9		3	809
1991	FT1		1991	03	20.17257	11	03	15.93	+05	22	32.9		3	809
1991	FT1		1991	03	20.18298	11	03	15.36	+05	22	33.9		3	809
1991	FU1	*	1991	03	18.14063	10	20	30.70	+09	31	27.1	17.0	3	809
1991	FU1		1991	03	18.15104	10	20	30.43	+09	31	31.9		3	809
1991	FU1		1991	03	18.16146	10	20	30.16	+09	31	36.7		3	809
1991	FU1		1991	03	19.11285	10	20	05.10	+09	38	41.9		3	809
1991	FU1		1991	03	19.12326	10	20	04.83	+09	38	46.7		3	809
1991	FU1		1991	03	19.13368	10	20	04.58	+09	38	51.5		3	809
1991	FV1	*	1991	03	18.17673	10	51	32.77	+08	22	49.9	17.5	3	809
1991	FV1		1991	03	18.18715	10	51	32.34	+08	22	52.8		3	809
1991	FV1		1991	03	18.19757	10	51	31.90	+08	22	55.4		3	809
1991	FV1		1991	03	19.18437	10	50	52.55	+08	27	25.5		3	809
1991	FV1		1991	03	19.19479	10	50	52.13	+08	27	28.4		3	809
1991	FV1		1991	03	19.20521	10	50	51.71	+08	27	31.3		3	809
1991	FV1		1991	03	20.05798	10	50	18.16	+08	31	14.4		3	809
1991	FV1		1991	03	20.06841	10	50	17.74	+08	31	17.1		3	809
1991	FV1		1991	03	20.07882	10	50	17.32	+08	31	19.9		3	809
1991	FW1	*	1991	03	18.21840	10	51	15.80	+09	45	37.6	17.4	3	809
1991	FW1		1991	03	18.22882	10	51	15.44	+09	45	42.3		3	809
1991	FW1		1991	03	18.23923	10	51	15.08	+09	45	47.1		3	809
1991	FW1		1991	03	20.05798	10	50	09.91	+09	58	32.2		3	809
1991	FW1		1991	03	20.06841	10	50	09.54	+09	58	36.6		3	809
1991	FW1		1991	03	20.07882	10	50	09.17	+09	58	41.2		3	809
1991	FX1	*	1991	03	19.25174	11	03	18.40	+07	42	43.9	17.6	3	809

1991 FX1	1991 03	19.26215	11 03	18.07	+07 42	44.7		3 809
1991 FX1	1991 03	19.27257	11 03	17.75	+07 42	45.5		3 809
1991 FX1	1991 03	20.12952	11 02	50.34	+07 43	52.8		3 809
1991 FX1	1991 03	20.13993	11 02	50.02	+07 43	53.5		3 809
1991 FX1	1991 03	20.15034	11 02	49.70	+07 43	54.3		3 809
1991 FY1 *	1991 03	19.28438	11 04	55.38	+05 03	43.9	17.2	3 809
1991 FY1	1991 03	19.29479	11 04	54.79	+05 03	47.5		3 809
1991 FY1	1991 03	20.16216	11 04	03.32	+05 09	22.9		3 809
1991 FY1	1991 03	20.17257	11 04	02.70	+05 09	26.9		3 809
1991 FY1	1991 03	20.18298	11 04	02.08	+05 09	31.0		3 809
1991 FZ1 *	1991 03	19.28438	11 06	28.43	+05 11	24.1	17.2	3 809
1991 FZ1	1991 03	19.29479	11 06	27.67	+05 11	28.2		3 809
1991 FZ1	1991 03	20.16216	11 05	24.95	+05 17	18.2		3 809
1991 FZ1	1991 03	20.17257	11 05	24.19	+05 17	22.5		3 809
1991 FZ1	1991 03	20.18298	11 05	23.43	+05 17	26.7		3 809
1991 FB2 *	1991 03	20.09688	11 00	27.07	+09 15	28.3	17.7	3 809
1991 FB2	1991 03	20.10729	11 00	26.59	+09 15	30.0		3 809
1991 FB2	1991 03	20.11771	11 00	26.11	+09 15	31.7		3 809
1991 FB2	1991 03	21.08437	10 59	41.22	+09 18	08.1		3 809
1991 FB2	1991 03	21.09479	10 59	40.73	+09 18	09.8		3 809
1991 FB2	1991 03	21.10521	10 59	40.25	+09 18	11.4		3 809
1991 FC2 *	1991 03	20.09688	11 05	42.48	+09 34	19.3	17.1	3 809
1991 FC2	1991 03	20.10729	11 05	41.83	+09 34	21.3		3 809
1991 FC2	1991 03	20.11771	11 05	41.17	+09 34	23.1		3 809
1991 FC2	1991 03	21.08437	11 04	39.47	+09 37	08.9		3 809
1991 FC2	1991 03	21.09479	11 04	38.81	+09 37	10.9		3 809
1991 FC2	1991 03	21.10521	11 04	38.14	+09 37	12.7		3 809
1991 FC2	1991 03	24.19410	11 01	25.05	+09 45	31.2		3 809
1991 FC2	1991 03	24.20313	11 01	24.52	+09 45	32.7		3 809
1991 FC2	1991 03	24.21215	11 01	23.99	+09 45	34.3		3 809
1991 FC2	1991 03	24.22396	11 01	23.20	+09 45	36.8		3 809
1991 FC2	1991 03	24.23299	11 01	22.64	+09 45	38.3		3 809
1991 FC2	1991 03	24.24201	11 01	22.09	+09 45	40.2		3 809
1991 FD2 *	1991 03	20.12952	11 02	34.99	+08 09	24.9	17.5	3 809
1991 FD2	1991 03	20.13993	11 02	34.44	+08 09	26.8		3 809
1991 FD2	1991 03	20.15034	11 02	33.90	+08 09	28.7		3 809
1991 FD2	1991 03	21.11771	11 01	44.08	+08 12	23.0		3 809
1991 FD2	1991 03	21.12813	11 01	43.53	+08 12	24.9		3 809
1991 FD2	1991 03	21.13854	11 01	42.99	+08 12	27.0		3 809
1991 FD2	1991 03	23.15278	11 00	02.57	+08 18	07.9		3 809
1991 FD2	1991 03	23.15694	11 00	02.38	+08 18	08.8		3 809
1991 FD2	1991 03	23.16111	11 00	02.19	+08 18	09.5		3 809
1991 FD2	1991 03	23.20937	10 59	59.54	+08 18	17.1		3 809
1991 FD2	1991 03	23.21979	10 59	58.99	+08 18	18.9		3 809
1991 FD2	1991 03	23.23021	10 59	58.45	+08 18	20.7		3 809
1991 FD2	1991 03	24.22396	10 59	11.01	+08 20	53.4		3 809
1991 FD2	1991 03	24.23299	10 59	10.58	+08 20	54.8		3 809
1991 FD2	1991 03	24.24201	10 59	10.15	+08 20	56.2		3 809
1991 FE2 *	1991 03	20.12952	11 05	26.49	+08 08	33.0	17.6	3 809
1991 FE2	1991 03	20.13993	11 05	26.11	+08 08	40.2		3 809
1991 FE2	1991 03	20.15034	11 05	25.73	+08 08	47.8		3 809
1991 FE2	1991 03	21.11771	11 04	50.35	+08 20	32.9		3 809
1991 FE2	1991 03	21.12813	11 04	49.98	+08 20	40.5		3 809
1991 FE2	1991 03	21.13854	11 04	49.61	+08 20	48.2		3 809
1991 FF2 *	1991 03	20.16216	11 01	35.57	+04 44	59.8	17.4	3 809
1991 FF2	1991 03	20.17257	11 01	35.04	+04 45	02.0		3 809
1991 FF2	1991 03	20.18298	11 01	34.50	+04 45	04.2		3 809
1991 FF2	1991 03	21.15173	11 00	46.15	+04 48	26.8		3 809
1991 FF2	1991 03	21.16216	11 00	45.62	+04 48	29.0		3 809

1991	FF2		1991	03	21.17257	11	00	45.09	+04	48	31.2		3	809
1991	FG2	*	1991	03	20.16216	11	02	17.98	+05	04	38.6	17.3	3	809
1991	FG2		1991	03	20.17257	11	02	17.40	+05	04	40.9		3	809
1991	FG2		1991	03	20.18298	11	02	16.83	+05	04	43.2		3	809
1991	FG2		1991	03	21.15173	11	01	25.21	+05	08	26.6		3	809
1991	FG2		1991	03	21.16216	11	01	24.66	+05	08	29.1		3	809
1991	FG2		1991	03	21.17257	11	01	24.10	+05	08	31.4		3	809
1991	FH2	*	1991	03	20.16216	11	04	06.62	+04	49	00.1	17.6	3	809
1991	FH2		1991	03	20.17257	11	04	06.19	+04	49	03.0		3	809
1991	FH2		1991	03	20.18298	11	04	05.76	+04	49	05.9		3	809
1991	FH2		1991	03	21.15173	11	03	23.32	+04	53	32.5		3	809
1991	FH2		1991	03	21.16216	11	03	22.87	+04	53	35.3		3	809
1991	FH2		1991	03	21.17257	11	03	22.42	+04	53	38.2		3	809
1991	FH2		1991	03	22.05937	11	02	44.40	+04	57	36.8		3	809
1991	FH2		1991	03	22.06979	11	02	43.94	+04	57	39.6		3	809
1991	FH2		1991	03	22.08021	11	02	43.48	+04	57	42.4		3	809
1991	FJ2	*	1991	03	20.16216	11	05	18.49	+04	18	49.6	16.9	3	809
1991	FJ2		1991	03	20.17257	11	05	17.98	+04	18	54.5		3	809
1991	FJ2		1991	03	20.18298	11	05	17.48	+04	18	59.0		3	809
1991	FJ2		1991	03	21.15173	11	04	29.48	+04	26	22.0		3	809
1991	FJ2		1991	03	21.16216	11	04	28.96	+04	26	27.1		3	809
1991	FJ2		1991	03	21.17257	11	04	28.45	+04	26	31.7		3	809
1991	FJ2		1991	03	22.05937	11	03	45.67	+04	33	10.5		3	809
1991	FJ2		1991	03	22.06979	11	03	45.15	+04	33	15.2		3	809
1991	FJ2		1991	03	22.08021	11	03	44.63	+04	33	19.9		3	809
1991	FK2	*	1991	03	20.16216	11	05	34.76	+05	33	18.2	17.6	3	809
1991	FK2		1991	03	20.17257	11	05	34.22	+05	33	21.1		3	809
1991	FK2		1991	03	20.18298	11	05	33.69	+05	33	24.1		3	809
1991	FK2		1991	03	21.15173	11	04	43.60	+05	37	51.8		3	809
1991	FK2		1991	03	21.16216	11	04	43.06	+05	37	54.4		3	809
1991	FK2		1991	03	21.17257	11	04	42.52	+05	37	57.3		3	809
1991	FL2	*	1991	03	20.16216	11	06	34.66	+04	46	42.1	17.6	3	809
1991	FL2		1991	03	20.17257	11	06	34.13	+04	46	43.3		3	809
1991	FL2		1991	03	20.18298	11	06	33.60	+04	46	44.6		3	809
1991	FL2		1991	03	21.15173	11	05	43.55	+04	48	44.5		3	809
1991	FL2		1991	03	21.16216	11	05	42.98	+04	48	46.2		3	809
1991	FL2		1991	03	21.17257	11	05	42.44	+04	48	47.5		3	809
1991	FL2		1991	03	22.05937	11	04	57.12	+04	50	34.3		3	809
1991	FL2		1991	03	22.06979	11	04	56.59	+04	50	35.5		3	809
1991	FL2		1991	03	22.08021	11	04	56.07	+04	50	37.0		3	809
1991	FL2		1991	03	23.17326	11	04	00.87	+04	52	46.4		3	809
1991	FL2		1991	03	23.18369	11	04	00.31	+04	52	47.8		3	809
1991	FL2		1991	03	23.19410	11	03	59.79	+04	52	49.1		3	809
1991	FM2	*	1991	03	20.19688	11	21	40.23	+05	46	55.3	17.6	3	809
1991	FM2		1991	03	20.20729	11	21	39.92	+05	47	07.9		3	809
1991	FM2		1991	03	20.21771	11	21	39.65	+05	47	20.2		3	809
1991	FM2		1991	03	21.21007	11	21	12.95	+06	07	18.3		3	809
1991	FM2		1991	03	21.22049	11	21	12.65	+06	07	30.6		3	809
1991	FM2		1991	03	21.23090	11	21	12.37	+06	07	43.2		3	809
1991	FM2		1991	03	22.09688	11	20	50.05	+06	24	52.5		3	809
1991	FM2		1991	03	22.10729	11	20	49.79	+06	25	05.1		3	809
1991	FM2		1991	03	22.11771	11	20	49.52	+06	25	17.8		3	809
1991	FN2	*	1991	03	20.19688	11	22	35.34	+05	42	45.4	17.3	3	809
1991	FN2		1991	03	20.20729	11	22	34.85	+05	42	48.7		3	809
1991	FN2		1991	03	20.21771	11	22	34.42	+05	42	52.6		3	809
1991	FN2		1991	03	21.21007	11	21	51.38	+05	48	46.9		3	809
1991	FN2		1991	03	21.22049	11	21	50.93	+05	48	50.4		3	809
1991	FN2		1991	03	21.23090	11	21	50.48	+05	48	54.1		3	809
1991	FN2		1991	03	22.09688	11	21	13.41	+05	53	57.2		3	809

1991 FN2	1991 03	22.10729	11 21	12.97	+05 54	01.1		3 809
1991 FN2	1991 03	22.11771	11 21	12.52	+05 54	05.1		3 809
1991 FN2	1991 03	24.25521	11 19	42.29	+06 06	18.0		3 809
1991 FN2	1991 03	24.26424	11 19	41.90	+06 06	21.1		3 809
1991 FN2	1991 03	24.27326	11 19	41.51	+06 06	23.8		3 809
1991 FN2	1991 03	25.23680	11 19	01.90	+06 11	47.6		3 809
1991 FN2	1991 03	25.24375	11 19	01.60	+06 11	49.8		3 809
1991 FN2	1991 03	25.25069	11 19	01.28	+06 11	52.0		3 809
1991 FO2 *	1991 03	20.19688	11 23	02.23	+04 36	36.7	17.1	3 809
1991 FO2	1991 03	20.20729	11 23	01.71	+04 36	40.4		3 809
1991 FO2	1991 03	20.21771	11 23	01.19	+04 36	44.4		3 809
1991 FO2	1991 03	21.21007	11 22	11.08	+04 42	58.4		3 809
1991 FO2	1991 03	21.22049	11 22	10.56	+04 43	02.5		3 809
1991 FO2	1991 03	21.23090	11 22	10.04	+04 43	06.5		3 809
1991 FO2	1991 03	22.09688	11 21	27.23	+04 48	27.8		3 809
1991 FO2	1991 03	22.10729	11 21	26.70	+04 48	31.8		3 809
1991 FO2	1991 03	22.11771	11 21	26.19	+04 48	35.3		3 809
1991 FP2 *	1991 03	20.19688	11 25	34.85	+05 27	27.3	17.5	3 809
1991 FP2	1991 03	20.20729	11 25	34.39	+05 27	29.9		3 809
1991 FP2	1991 03	20.21771	11 25	33.94	+05 27	32.4		3 809
1991 FP2	1991 03	22.09688	11 24	12.18	+05 35	27.6		3 809
1991 FP2	1991 03	22.10729	11 24	11.72	+05 35	30.3		3 809
1991 FP2	1991 03	22.11771	11 24	11.26	+05 35	32.9		3 809
1991 FQ2 *	1991 03	20.19688	11 26	03.03	+04 39	30.3	17.5	3 809
1991 FQ2	1991 03	20.20729	11 26	02.46	+04 39	32.7		3 809
1991 FQ2	1991 03	20.21771	11 26	01.88	+04 39	34.6		3 809
1991 FQ2	1991 03	21.21007	11 25	08.74	+04 42	51.8		3 809
1991 FQ2	1991 03	21.22049	11 25	08.17	+04 42	53.8		3 809
1991 FQ2	1991 03	21.23090	11 25	07.62	+04 42	55.7		3 809
1991 FQ2	1991 03	22.09688	11 24	21.97	+04 45	44.9		3 809
1991 FQ2	1991 03	22.10729	11 24	21.43	+04 45	46.9		3 809
1991 FQ2	1991 03	22.11771	11 24	20.89	+04 45	48.9		3 809
1991 FR2 *	1991 03	20.19688	11 26	27.10	+05 21	54.4	17.6	3 809
1991 FR2	1991 03	20.20729	11 26	26.62	+05 22	00.0		3 809
1991 FR2	1991 03	20.21771	11 26	26.14	+05 22	05.6		3 809
1991 FR2	1991 03	22.09688	11 25	00.85	+05 38	33.7		3 809
1991 FR2	1991 03	22.10729	11 25	00.37	+05 38	39.3		3 809
1991 FR2	1991 03	22.11771	11 24	59.91	+05 38	44.6		3 809
1991 FS2 *	1991 03	20.19688	11 27	21.26	+05 54	34.8	17.8	3 809
1991 FS2	1991 03	20.20729	11 27	20.75	+05 54	36.2		3 809
1991 FS2	1991 03	20.21771	11 27	20.23	+05 54	37.5		3 809
1991 FS2	1991 03	21.21007	11 26	31.00	+05 56	53.7		3 809
1991 FS2	1991 03	21.22049	11 26	30.46	+05 56	54.8		3 809
1991 FS2	1991 03	21.23090	11 26	29.93	+05 56	56.5		3 809
1991 FT2 *	1991 03	20.19688	11 29	00.58	+05 23	36.7	17.7	3 809
1991 FT2	1991 03	20.20729	11 28	59.94	+05 23	39.2		3 809
1991 FT2	1991 03	20.21771	11 28	59.29	+05 23	41.4		3 809
1991 FT2	1991 03	21.21007	11 27	58.10	+05 27	34.3		3 809
1991 FT2	1991 03	21.22049	11 27	57.47	+05 27	36.7		3 809
1991 FT2	1991 03	21.23090	11 27	56.80	+05 27	39.2		3 809
1991 FT2	1991 03	22.09688	11 27	04.40	+05 30	57.8		3 809
1991 FT2	1991 03	22.10729	11 27	03.75	+05 31	00.1		3 809
1991 FT2	1991 03	22.11771	11 27	03.13	+05 31	02.6		3 809
1991 FU2 *	1991 03	20.24375	13 01	30.88	-04 16	48.4	16.8	3 809
1991 FU2	1991 03	20.25625	13 01	30.30	-04 16	47.2		3 809
1991 FU2	1991 03	20.26875	13 01	29.75	-04 16	45.9		3 809
1991 FU2	1991 03	20.28333	13 01	29.05	-04 16	44.5		3 809
1991 FU2	1991 03	20.29584	13 01	28.47	-04 16	43.3		3 809
1991 FU2	1991 03	20.30833	13 01	27.88	-04 16	42.1		3 809

1991	FU2	1991	03	24.32188	12	58	22.14	-04	09	58.7		3	809	
1991	FU2	1991	03	24.33090	12	58	21.72	-04	09	57.8		3	809	
1991	FU2	1991	03	24.33994	12	58	21.31	-04	09	56.9		3	809	
1991	FU2	1991	03	25.33194	12	57	33.96	-04	08	12.3		3	809	
1991	FU2	1991	03	25.33889	12	57	33.60	-04	08	11.5		3	809	
1991	FU2	1991	03	25.34583	12	57	33.29	-04	08	10.6		3	809	
1991	FV2	*	1991	03	20.24375	13	02	56.67	-04	46	45.2	16.6	3	809
1991	FV2		1991	03	20.25625	13	02	56.05	-04	46	43.4		3	809
1991	FV2		1991	03	20.26875	13	02	55.43	-04	46	41.6		3	809
1991	FV2		1991	03	21.25694	13	02	05.98	-04	44	18.5		3	809
1991	FV2		1991	03	21.26944	13	02	05.36	-04	44	16.8		3	809
1991	FV2		1991	03	21.28194	13	02	04.71	-04	44	15.0		3	809
1991	FW2	*	1991	03	20.24375	13	06	06.16	-04	43	15.9	17.7	3	809
1991	FW2		1991	03	20.25625	13	06	05.65	-04	43	08.0		3	809
1991	FW2		1991	03	20.26875	13	06	05.15	-04	43	00.1		3	809
1991	FW2		1991	03	21.25694	13	05	25.33	-04	32	45.5		3	809
1991	FW2		1991	03	21.26944	13	05	24.82	-04	32	37.6		3	809
1991	FW2		1991	03	21.28194	13	05	24.31	-04	32	30.0		3	809
1991	FX2	*	1991	03	20.24375	13	07	04.03	-04	42	04.3	17.6	3	809
1991	FX2		1991	03	20.25625	13	07	03.37	-04	42	02.8		3	809
1991	FX2		1991	03	20.26875	13	07	02.72	-04	42	01.5		3	809
1991	FX2		1991	03	21.25694	13	06	11.28	-04	40	04.1		3	809
1991	FX2		1991	03	21.26944	13	06	10.63	-04	40	02.9		3	809
1991	FX2		1991	03	21.28194	13	06	09.98	-04	40	01.5		3	809
1991	FY2	*	1991	03	20.28333	13	01	26.55	-04	00	34.7	17.8	3	809
1991	FY2		1991	03	20.29584	13	01	26.09	-04	00	27.6		3	809
1991	FY2		1991	03	20.30833	13	01	25.64	-04	00	20.6		3	809
1991	FY2		1991	03	21.29584	13	00	51.03	-03	51	00.0		3	809
1991	FY2		1991	03	21.30833	13	00	50.59	-03	50	52.9		3	809
1991	FY2		1991	03	21.32083	13	00	50.15	-03	50	45.8		3	809
1991	FZ2	*	1991	03	20.28333	13	01	36.75	-04	02	47.3	17.6	3	809
1991	FZ2		1991	03	20.29584	13	01	36.27	-04	02	42.6		3	809
1991	FZ2		1991	03	20.30833	13	01	35.79	-04	02	37.6		3	809
1991	FZ2		1991	03	21.29584	13	00	58.24	-03	56	25.8		3	809
1991	FZ2		1991	03	21.30833	13	00	57.74	-03	56	21.2		3	809
1991	FZ2		1991	03	21.32083	13	00	57.27	-03	56	16.7		3	809
1991	FZ2		1991	03	24.32188	12	58	59.37	-03	37	07.7		3	809
1991	FZ2		1991	03	24.33090	12	58	59.02	-03	37	04.2		3	809
1991	FZ2		1991	03	24.33994	12	58	58.66	-03	37	00.8		3	809
1991	FZ2		1991	03	25.33194	12	58	18.50	-03	30	36.5		3	809
1991	FZ2		1991	03	25.33889	12	58	18.19	-03	30	33.6		3	809
1991	FZ2		1991	03	25.34583	12	58	17.90	-03	30	31.0		3	809
1991	FZ2		1991	04	19.05347	12	41	05.21	-00	54	05.1	18.6	4	809
1991	FZ2		1991	04	19.06667	12	41	04.66	-00	54	00.1		4	809
1991	FZ2		1991	04	19.07986	12	41	04.18	-00	53	57.0		4	809
1991	FA3	*	1991	03	20.28333	13	02	18.29	-03	21	57.5	16.8	3	809
1991	FA3		1991	03	20.29584	13	02	17.71	-03	21	56.4		3	809
1991	FA3		1991	03	20.30833	13	02	17.16	-03	21	54.9		3	809
1991	FA3		1991	03	21.29584	13	01	33.23	-03	20	00.3		3	809
1991	FA3		1991	03	21.30833	13	01	32.69	-03	19	58.9		3	809
1991	FA3		1991	03	21.32083	13	01	32.14	-03	19	57.9		3	809
1991	FA3		1991	03	24.32188	12	59	14.59	-03	13	56.3		3	809
1991	FA3		1991	03	24.33090	12	59	14.18	-03	13	55.3		3	809
1991	FA3		1991	03	24.33994	12	59	13.77	-03	13	54.4		3	809
1991	FA3		1991	03	25.33194	12	58	27.00	-03	11	51.0		3	809
1991	FA3		1991	03	25.33889	12	58	26.68	-03	11	50.2		3	809
1991	FA3		1991	03	25.34583	12	58	26.37	-03	11	49.3		3	809
1991	FB3	*	1991	03	20.28333	13	02	54.02	-04	13	58.9	17.7	3	809
1991	FB3		1991	03	20.29584	13	02	53.31	-04	13	56.4		3	809

1991 FB3	1991 03	20.30833	13 02	52.58	-04 13	53.8		3 809
1991 FB3	1991 03	21.29584	13 01	57.05	-04 10	31.2		3 809
1991 FB3	1991 03	21.30833	13 01	56.36	-04 10	28.5		3 809
1991 FB3	1991 03	21.32083	13 01	55.68	-04 10	25.9		3 809
1991 FD3 *	1991 03	20.28333	13 07	40.67	-04 02	27.2	17.3	3 809
1991 FD3	1991 03	20.29584	13 07	40.19	-04 02	23.7		3 809
1991 FD3	1991 03	20.30833	13 07	39.68	-04 02	20.2		3 809
1991 FD3	1991 03	21.29584	13 07	00.25	-03 57	44.8		3 809
1991 FD3	1991 03	21.30833	13 06	59.75	-03 57	41.6		3 809
1991 FD3	1991 03	21.32083	13 06	59.25	-03 57	37.8		3 809
1991 FE3 *	1991 03	20.28333	13 08	10.01	-02 27	28.5	17.6	3 809
1991 FE3	1991 03	20.29584	13 08	09.61	-02 27	26.2		3 809
1991 FE3	1991 03	20.30833	13 08	09.21	-02 27	24.1		3 809
1991 FE3	1991 03	27.33681	13 04	23.62	-02 06	33.2		3 809
1991 FE3	1991 03	27.34930	13 04	23.22	-02 06	30.7		3 809
1991 FE3	1991 03	27.36180	13 04	22.82	-02 06	28.4		3 809
1991 FF3 *	1991 03	20.32638	13 11	00.02	-04 48	34.2	17.8	3 809
1991 FF3	1991 03	20.33889	13 10	59.58	-04 48	31.6		3 809
1991 FF3	1991 03	20.35139	13 10	59.14	-04 48	29.4		3 809
1991 FF3	1991 03	23.31285	13 09	14.66	-04 38	05.6		3 809
1991 FF3	1991 03	23.32326	13 09	14.30	-04 38	03.4		3 809
1991 FF3	1991 03	23.33368	13 09	13.93	-04 38	01.3		3 809
1991 FH3 *	1991 03	20.32638	13 14	38.68	-04 46	05.2	17.9	3 809
1991 FH3	1991 03	20.33889	13 14	38.23	-04 46	01.8		3 809
1991 FH3	1991 03	20.35139	13 14	37.75	-04 45	58.3		3 809
1991 FH3	1991 03	21.33681	13 14	01.46	-04 41	21.0		3 809
1991 FH3	1991 03	21.34930	13 14	01.00	-04 41	17.2		3 809
1991 FH3	1991 03	21.36180	13 14	00.53	-04 41	14.0		3 809
1991 FH3	1991 04	19.05347	12 53	36.30	-02 19	42.9	18.8	4 809
1991 FH3	1991 04	19.06667	12 53	35.67	-02 19	39.4		4 809
1991 FH3	1991 04	19.07986	12 53	35.11	-02 19	36.0		4 809
1991 FK3 *	1991 03	21.08437	11 04	21.70	+10 33	34.6	17.5	3 809
1991 FK3	1991 03	21.09479	11 04	21.19	+10 33	39.2		3 809
1991 FK3	1991 03	21.10521	11 04	20.66	+10 33	43.8		3 809
1991 FK3	1991 03	24.19410	11 01	49.89	+10 56	32.5		3 809
1991 FK3	1991 03	24.20313	11 01	49.45	+10 56	36.2		3 809
1991 FK3	1991 03	24.21215	11 01	49.01	+10 56	40.3		3 809
1991 FL3 *	1991 03	21.15173	11 04	02.42	+04 13	47.0	17.5	3 809
1991 FL3	1991 03	21.16216	11 04	01.90	+04 13	51.3		3 809
1991 FL3	1991 03	21.17257	11 04	01.40	+04 13	55.5		3 809
1991 FL3	1991 03	22.05937	11 03	18.64	+04 19	58.7		3 809
1991 FL3	1991 03	22.06979	11 03	18.13	+04 20	03.0		3 809
1991 FL3	1991 03	22.08021	11 03	17.63	+04 20	07.2		3 809
1991 FM3 *	1991 03	21.15173	11 06	39.05	+05 59	41.2	17.4	3 809
1991 FM3	1991 03	21.16216	11 06	38.53	+05 59	44.1		3 809
1991 FM3	1991 03	21.17257	11 06	38.00	+05 59	47.1		3 809
1991 FM3	1991 03	22.05937	11 05	53.26	+06 03	55.2		3 809
1991 FM3	1991 03	22.06979	11 05	52.74	+06 03	58.1		3 809
1991 FM3	1991 03	22.08021	11 05	52.21	+06 04	01.0		3 809
1991 FM3	1991 03	23.17326	11 04	57.95	+06 08	59.9		3 809
1991 FM3	1991 03	23.18369	11 04	57.44	+06 09	02.8		3 809
1991 FM3	1991 03	23.19410	11 04	56.90	+06 09	05.7		3 809
1991 FN3 *	1991 03	22.05937	11 08	49.93	+05 40	54.6	17.5	3 809
1991 FN3	1991 03	22.06979	11 08	49.41	+05 40	57.5		3 809
1991 FN3	1991 03	22.08021	11 08	48.93	+05 41	00.6		3 809
1991 FN3	1991 03	23.17326	11 07	57.30	+05 45	57.1		3 809
1991 FN3	1991 03	23.18369	11 07	56.80	+05 46	00.1		3 809
1991 FN3	1991 03	23.19410	11 07	56.29	+05 46	03.0		3 809
1991 FO3 *	1991 03	22.09688	11 25	09.15	+06 36	48.9	17.6	3 809

1991	FO3	1991	03	22.10729	11	25	08.66	+06	36	52.5		3	809	
1991	FO3	1991	03	22.11771	11	25	08.17	+06	36	56.4		3	809	
1991	FO3	1991	03	23.24340	11	24	17.50	+06	43	57.4		3	809	
1991	FO3	1991	03	23.25381	11	24	17.04	+06	44	01.0		3	809	
1991	FO3	1991	03	23.26424	11	24	16.58	+06	44	04.7		3	809	
1991	FP3	*	1991	03	22.16493	11	22	33.64	+07	14	27.6	17.7	3	809
1991	FP3		1991	03	22.17535	11	22	33.20	+07	14	32.6		3	809
1991	FP3		1991	03	22.18576	11	22	32.78	+07	14	37.7		3	809
1991	FP3		1991	03	23.24340	11	21	47.65	+07	23	37.2		3	809
1991	FP3		1991	03	23.25381	11	21	47.20	+07	23	42.6		3	809
1991	FP3		1991	03	23.26424	11	21	46.74	+07	23	48.0		3	809
1991	FQ3	*	1991	03	22.16493	11	22	47.02	+07	11	01.0	17.5	3	809
1991	FQ3		1991	03	22.17535	11	22	46.42	+07	11	04.4		3	809
1991	FQ3		1991	03	22.18576	11	22	45.83	+07	11	08.0		3	809
1991	FQ3		1991	03	23.24340	11	21	44.58	+07	17	14.7		3	809
1991	FQ3		1991	03	23.25381	11	21	43.98	+07	17	17.9		3	809
1991	FQ3		1991	03	23.26424	11	21	43.39	+07	17	21.6		3	809
1991	FQ3		1991	03	24.25521	11	20	46.83	+07	22	53.5		3	809
1991	FQ3		1991	03	24.26424	11	20	46.31	+07	22	56.8		3	809
1991	FQ3		1991	03	24.27326	11	20	45.78	+07	22	59.9		3	809
1991	FQ3		1991	03	25.23680	11	19	51.69	+07	28	17.0		3	809
1991	FQ3		1991	03	25.24375	11	19	51.29	+07	28	19.5		3	809
1991	FQ3		1991	03	25.25069	11	19	50.86	+07	28	22.1		3	809
1991	FR3	*	1991	03	22.16493	11	24	02.19	+06	48	36.6	17.8	3	809
1991	FR3		1991	03	22.17535	11	24	01.70	+06	48	36.0		3	809
1991	FR3		1991	03	22.18576	11	24	01.20	+06	48	35.6		3	809
1991	FR3		1991	03	23.24340	11	23	10.19	+06	47	38.3		3	809
1991	FR3		1991	03	23.25381	11	23	09.67	+06	47	37.9		3	809
1991	FR3		1991	03	23.26424	11	23	09.15	+06	47	37.4		3	809
1991	FS3	*	1991	03	22.16493	11	25	20.48	+06	41	00.0	17.8	3	809
1991	FS3		1991	03	22.17535	11	25	20.11	+06	41	03.3		3	809
1991	FS3		1991	03	22.18576	11	25	19.73	+06	41	06.4		3	809
1991	FS3		1991	03	23.24340	11	24	40.85	+06	46	37.4		3	809
1991	FS3		1991	03	23.25381	11	24	40.48	+06	46	40.7		3	809
1991	FS3		1991	03	23.26424	11	24	40.10	+06	46	43.9		3	809
1991	FT3	*	1991	03	22.16493	11	25	23.41	+07	27	10.4	17.6	3	809
1991	FT3		1991	03	22.17535	11	25	22.97	+07	27	13.0		3	809
1991	FT3		1991	03	22.18576	11	25	22.53	+07	27	15.8		3	809
1991	FT3		1991	03	23.24340	11	24	37.39	+07	32	21.8		3	809
1991	FT3		1991	03	23.25381	11	24	36.94	+07	32	24.8		3	809
1991	FT3		1991	03	23.26424	11	24	36.52	+07	32	27.9		3	809
1991	FU3	*	1991	03	22.16493	11	26	07.79	+07	10	48.4	17.2	3	809
1991	FU3		1991	03	22.17535	11	26	07.12	+07	10	50.1		3	809
1991	FU3		1991	03	22.18576	11	26	06.48	+07	10	51.9		3	809
1991	FU3		1991	03	23.24340	11	25	01.06	+07	13	49.9		3	809
1991	FU3		1991	03	23.25381	11	25	00.40	+07	13	51.7		3	809
1991	FU3		1991	03	23.26424	11	24	59.75	+07	13	53.2		3	809
1991	FV3	*	1991	03	22.16493	11	26	53.94	+07	26	42.2	17.7	3	809
1991	FV3		1991	03	22.17535	11	26	53.51	+07	26	45.4		3	809
1991	FV3		1991	03	22.18576	11	26	53.08	+07	26	48.5		3	809
1991	FV3		1991	03	23.24340	11	26	08.92	+07	32	00.1		3	809
1991	FV3		1991	03	23.25381	11	26	08.49	+07	32	03.1		3	809
1991	FV3		1991	03	23.26424	11	26	08.06	+07	32	06.2		3	809
1991	FW3	*	1991	03	22.25591	12	53	04.25	-03	08	57.1	17.2	3	809
1991	FW3		1991	03	22.26632	12	53	03.82	-03	08	53.0		3	809
1991	FW3		1991	03	22.27673	12	53	03.36	-03	08	49.0		3	809
1991	FW3		1991	03	23.28021	12	52	19.61	-03	02	04.1		3	809
1991	FW3		1991	03	23.29063	12	52	19.15	-03	01	59.9		3	809
1991	FW3		1991	03	23.30104	12	52	18.70	-03	01	56.0		3	809

1991 FW3	1991 03	24.28958	12 51	35.05	-02 55	11.9		3 809
1991 FW3	1991 03	24.29930	12 51	34.62	-02 55	08.3		3 809
1991 FW3	1991 03	24.30903	12 51	34.19	-02 55	04.3		3 809
1991 FW3	1991 03	25.26320	12 50	51.65	-02 48	35.0		3 809
1991 FW3	1991 03	25.27014	12 50	51.34	-02 48	32.1		3 809
1991 FW3	1991 03	25.27708	12 50	51.03	-02 48	29.2		3 809
1991 FW3	1991 03	26.30833	12 50	04.30	-02 41	26.1		3 809
1991 FW3	1991 03	26.31528	12 50	03.98	-02 41	23.3		3 809
1991 FW3	1991 03	26.32222	12 50	03.67	-02 41	20.4		3 809
1991 FX3 *	1991 03	22.25591	12 54	19.92	-02 46	42.9	17.5	3 809
1991 FX3	1991 03	22.26632	12 54	19.47	-02 46	38.3		3 809
1991 FX3	1991 03	22.27673	12 54	19.00	-02 46	33.7		3 809
1991 FX3	1991 03	23.28021	12 53	34.63	-02 39	09.2		3 809
1991 FX3	1991 03	23.29063	12 53	34.17	-02 39	04.6		3 809
1991 FX3	1991 03	23.30104	12 53	33.71	-02 38	59.9		3 809
1991 FY3 *	1991 03	22.29097	13 14	31.47	-07 51	56.0	16.9	3 809
1991 FY3	1991 03	22.30347	13 14	30.89	-07 51	55.4		3 809
1991 FY3	1991 03	22.31597	13 14	30.30	-07 51	54.5		3 809
1991 FY3	1991 03	23.34618	13 13	42.63	-07 51	08.2		3 809
1991 FY3	1991 03	23.35660	13 13	42.15	-07 51	07.7		3 809
1991 FY3	1991 03	23.36701	13 13	41.67	-07 51	07.1		3 809
1991 FY3	1991 03	24.38333	13 12	53.97	-07 50	19.1		3 809
1991 FY3	1991 03	24.39166	13 12	53.58	-07 50	18.3		3 809
1991 FY3	1991 03	24.40000	13 12	53.19	-07 50	17.9		3 809
1991 FY3	1991 03	25.35556	13 12	07.55	-07 49	28.7		3 809
1991 FY3	1991 03	25.36459	13 12	07.11	-07 49	28.4		3 809
1991 FY3	1991 03	25.37361	13 12	06.69	-07 49	27.9		3 809
1991 FZ3 *	1991 03	22.29097	13 14	38.02	-08 20	01.0	17.5	3 809
1991 FZ3	1991 03	22.30347	13 14	37.50	-08 19	58.2		3 809
1991 FZ3	1991 03	22.31597	13 14	36.97	-08 19	55.5		3 809
1991 FZ3	1991 03	23.34618	13 13	54.52	-08 16	07.4		3 809
1991 FZ3	1991 03	23.35660	13 13	54.11	-08 16	05.1		3 809
1991 FZ3	1991 03	23.36701	13 13	53.67	-08 16	02.9		3 809
1991 FA4 *	1991 03	22.29097	13 15	35.24	-07 51	54.5	17.0	3 809
1991 FA4	1991 03	22.30347	13 15	34.76	-07 51	51.8		3 809
1991 FA4	1991 03	22.31597	13 15	34.30	-07 51	49.4		3 809
1991 FA4	1991 03	23.34618	13 14	54.67	-07 48	06.1		3 809
1991 FA4	1991 03	23.35660	13 14	54.25	-07 48	03.9		3 809
1991 FA4	1991 03	23.36701	13 14	53.85	-07 48	01.7		3 809
1991 FA4	1991 03	24.38333	13 14	14.25	-07 44	17.9		3 809
1991 FA4	1991 03	24.39166	13 14	13.92	-07 44	16.2		3 809
1991 FA4	1991 03	24.40000	13 14	13.60	-07 44	14.5		3 809
1991 FA4	1991 03	25.35556	13 13	35.48	-07 40	41.2		3 809
1991 FA4	1991 03	25.36459	13 13	35.12	-07 40	39.3		3 809
1991 FA4	1991 03	25.37361	13 13	34.75	-07 40	37.4		3 809
1991 FB4 *	1991 03	22.33403	13 28	07.38	-12 16	28.3	17.6	3 809
1991 FB4	1991 03	22.34653	13 28	06.87	-12 16	27.1		3 809
1991 FB4	1991 03	22.35902	13 28	06.32	-12 16	26.2		3 809
1991 FB4	1991 03	23.38368	13 27	24.26	-12 14	51.6		3 809
1991 FB4	1991 03	23.39271	13 27	23.89	-12 14	50.8		3 809
1991 FB4	1991 03	23.40173	13 27	23.51	-12 14	50.0		3 809
1991 FB4	1991 03	25.38541	13 25	58.92	-12 11	21.4		3 809
1991 FB4	1991 03	25.39237	13 25	58.62	-12 11	20.7		3 809
1991 FB4	1991 03	25.39931	13 25	58.31	-12 11	19.9		3 809
1991 FB4	1991 03	27.37674	13 24	29.56	-12 07	25.9		3 809
1991 FB4	1991 03	27.38854	13 24	29.01	-12 07	24.4		3 809
1991 FB4	1991 03	27.40034	13 24	28.48	-12 07	23.2		3 809
1991 FC4 *	1991 03	22.33403	13 28	46.61	-13 13	20.5	17.6	3 809
1991 FC4	1991 03	22.34653	13 28	46.11	-13 13	17.8		3 809

1991 FC4	1991 03	22.35902	13 28	45.60	-13 13	15.1		3 809
1991 FC4	1991 03	23.38368	13 28	04.29	-13 09	18.0		3 809
1991 FC4	1991 03	23.39271	13 28	03.92	-13 09	15.7		3 809
1991 FC4	1991 03	23.40173	13 28	03.56	-13 09	13.7		3 809
1991 FC4	1991 03	27.37674	13 25	09.82	-12 51	54.1		3 809
1991 FC4	1991 03	27.38854	13 25	09.29	-12 51	51.5		3 809
1991 FC4	1991 03	27.40034	13 25	08.77	-12 51	49.0		3 809
1991 FD4 *	1991 03	23.20937	11 04	17.58	+09 23	08.5	17.4	3 809
1991 FD4	1991 03	23.21979	11 04	16.95	+09 23	09.7		3 809
1991 FD4	1991 03	23.23021	11 04	16.35	+09 23	11.0		3 809
1991 FD4	1991 03	24.22396	11 03	18.65	+09 25	03.9		3 809
1991 FD4	1991 03	24.23299	11 03	18.12	+09 25	05.1		3 809
1991 FD4	1991 03	24.24201	11 03	17.58	+09 25	06.1		3 809
1991 FE4 *	1991 03	23.20937	11 05	11.49	+10 11	54.8	17.6	3 809
1991 FE4	1991 03	23.21979	11 05	10.98	+10 11	56.3		3 809
1991 FE4	1991 03	23.23021	11 05	10.49	+10 11	57.8		3 809
1991 FE4	1991 03	24.19410	11 04	24.84	+10 14	13.1		3 809
1991 FE4	1991 03	24.20313	11 04	24.39	+10 14	14.7		3 809
1991 FE4	1991 03	24.21215	11 04	23.96	+10 14	16.2		3 809
1991 FF4 *	1991 03	23.28021	12 52	29.47	-03 46	26.2	17.4	3 809
1991 FF4	1991 03	23.29063	12 52	29.04	-03 46	21.9		3 809
1991 FF4	1991 03	23.30104	12 52	28.61	-03 46	17.6		3 809
1991 FF4	1991 03	25.26320	12 51	07.84	-03 33	12.2		3 809
1991 FF4	1991 03	25.27014	12 51	07.56	-03 33	09.6		3 809
1991 FF4	1991 03	25.27708	12 51	07.27	-03 33	06.9		3 809
1991 FG4 *	1991 03	23.34618	13 11	58.35	-07 14	13.5	17.4	3 809
1991 FG4	1991 03	23.35660	13 11	57.81	-07 14	10.9		3 809
1991 FG4	1991 03	23.36701	13 11	57.27	-07 14	08.1		3 809
1991 FG4	1991 03	25.35556	13 10	13.34	-07 05	26.5		3 809
1991 FG4	1991 03	25.36459	13 10	12.87	-07 05	24.1		3 809
1991 FG4	1991 03	25.37361	13 10	12.39	-07 05	21.9		3 809
1991 FH4 *	1991 03	23.34618	13 15	36.07	-07 53	40.3	17.3	3 809
1991 FH4	1991 03	23.35660	13 15	35.62	-07 53	35.7		3 809
1991 FH4	1991 03	23.36701	13 15	35.17	-07 53	30.6		3 809
1991 FH4	1991 03	25.35556	13 14	13.19	-07 37	47.6		3 809
1991 FH4	1991 03	25.36459	13 14	12.81	-07 37	43.4		3 809
1991 FH4	1991 03	25.37361	13 14	12.43	-07 37	38.8		3 809
1991 FJ4 *	1991 03	24.25521	11 16	16.94	+06 27	17.3	17.4	3 809
1991 FJ4	1991 03	24.26424	11 16	16.47	+06 27	19.4		3 809
1991 FJ4	1991 03	24.27326	11 16	16.00	+06 27	21.5		3 809
1991 FJ4	1991 03	25.23680	11 15	30.07	+06 30	47.1		3 809
1991 FJ4	1991 03	25.24375	11 15	29.71	+06 30	48.8		3 809
1991 FJ4	1991 03	25.25069	11 15	29.35	+06 30	50.6		3 809
1991 FK4 *	1991 03	24.28958	12 51	19.70	-02 03	54.8	17.5	3 809
1991 FK4	1991 03	24.29930	12 51	19.32	-02 03	54.6		3 809
1991 FK4	1991 03	24.30903	12 51	18.95	-02 03	54.4		3 809
1991 FK4	1991 03	25.26320	12 50	40.90	-02 03	33.0		3 809
1991 FK4	1991 03	25.27014	12 50	40.61	-02 03	32.8		3 809
1991 FK4	1991 03	25.27708	12 50	40.33	-02 03	32.4		3 809
1991 FL4 *	1991 03	25.26320	12 46	19.63	-02 07	05.1	17.2	3 809
1991 FL4	1991 03	25.27014	12 46	19.35	-02 07	01.6		3 809
1991 FL4	1991 03	25.27708	12 46	19.08	-02 06	58.2		3 809
1991 FL4	1991 03	26.30833	12 45	38.07	-01 58	16.3		3 809
1991 FL4	1991 03	26.31528	12 45	37.79	-01 58	12.6		3 809
1991 FL4	1991 03	26.32222	12 45	37.50	-01 58	09.1		3 809
1991 FM4 *	1991 03	25.28611	12 49	36.05	-08 13	24.8	17.8	3 809
1991 FM4	1991 03	25.29306	12 49	35.89	-08 13	25.2		3 809
1991 FM4	1991 03	25.30000	12 49	35.72	-08 13	25.5		3 809
1991 FM4	1991 03	26.33403	12 49	08.93	-08 14	07.5		3 809

1991 FM4	1991 03	26.34653	12 49	08.62	-08 14	08.1		3 809
1991 FM4	1991 03	26.35902	12 49	08.30	-08 14	08.6		3 809
1991 FN4 *	1991 03	25.28611	12 50	25.25	-07 54	25.1	17.7	3 809
1991 FN4	1991 03	25.29306	12 50	25.05	-07 54	24.0		3 809
1991 FN4	1991 03	25.30000	12 50	24.86	-07 54	22.9		3 809
1991 FN4	1991 03	26.33403	12 49	55.95	-07 51	27.8		3 809
1991 FN4	1991 03	26.34653	12 49	55.60	-07 51	25.7		3 809
1991 FN4	1991 03	26.35902	12 49	55.25	-07 51	23.4		3 809
1991 FO4 *	1991 03	25.28611	12 51	00.33	-07 03	05.3	17.7	3 809
1991 FO4	1991 03	25.29306	12 51	00.03	-07 03	01.6		3 809
1991 FO4	1991 03	25.30000	12 50	59.73	-07 02	58.1		3 809
1991 FO4	1991 03	26.33403	12 50	15.29	-06 54	06.0		3 809
1991 FO4	1991 03	26.34653	12 50	14.76	-06 53	59.9		3 809
1991 FO4	1991 03	26.35902	12 50	14.23	-06 53	53.6		3 809
1991 FP4 *	1991 03	25.28611	12 54	56.34	-06 21	48.2	17.6	3 809
1991 FP4	1991 03	25.29306	12 54	55.99	-06 21	48.5		3 809
1991 FP4	1991 03	25.30000	12 54	55.65	-06 21	48.7		3 809
1991 FP4	1991 03	26.33403	12 54	03.84	-06 22	23.9		3 809
1991 FP4	1991 03	26.34653	12 54	03.20	-06 22	24.5		3 809
1991 FP4	1991 03	26.35902	12 54	02.57	-06 22	25.2		3 809
1991 GL	1991 03	20.24375	13 01	30.88	-04 16	48.4	16.8	3 809
1991 GL	1991 03	20.25625	13 01	30.30	-04 16	47.2		3 809
1991 GL	1991 03	20.26875	13 01	29.75	-04 16	45.9		3 809
1991 GL	1991 03	20.28333	13 01	29.05	-04 16	44.5		3 809
1991 GL	1991 03	20.29584	13 01	28.47	-04 16	43.3		3 809
1991 GL	1991 03	20.30833	13 01	27.88	-04 16	42.1		3 809
1991 GL	1991 03	24.32188	12 58	22.14	-04 09	58.7		3 809
1991 GL	1991 03	24.33090	12 58	21.72	-04 09	57.8		3 809
1991 GL	1991 03	24.33994	12 58	21.31	-04 09	56.9		3 809
1991 GL	1991 03	25.33194	12 57	33.96	-04 08	12.3		3 809
1991 GL	1991 03	25.33889	12 57	33.60	-04 08	11.5		3 809
1991 GL	1991 03	25.34583	12 57	33.29	-04 08	10.6		3 809
1991 GA1	1991 03	17.35902	13 18	09.62	-06 32	44.5	16.0	3 809
1991 GA1	1991 03	17.37153	13 18	09.29	-06 32	32.1		3 809
1991 GA1	1991 03	17.38403	13 18	08.97	-06 32	19.7		3 809
1991 GA1	1991 03	18.33889	13 17	44.16	-06 16	41.4		3 809
1991 GA1	1991 03	18.34722	13 17	43.94	-06 16	33.2		3 809
1991 GA1	1991 03	18.35556	13 17	43.72	-06 16	25.1		3 809
1991 GA1	1991 03	19.35902	13 17	15.99	-05 59	38.5		3 809
1991 GA1	1991 03	19.37153	13 17	15.64	-05 59	25.9		3 809
1991 GA1	1991 03	19.38403	13 17	15.29	-05 59	13.3		3 809
1991 GA1	1991 03	20.32638	13 16	48.18	-05 43	09.1		3 809
1991 GA1	1991 03	20.33889	13 16	47.82	-05 42	56.3		3 809
1991 GA1	1991 03	20.35139	13 16	47.46	-05 42	43.6		3 809
1991 GA1	1991 03	21.33681	13 16	17.34	-05 25	37.4		3 809
1991 GA1	1991 03	21.34930	13 16	16.93	-05 25	24.6		3 809
1991 GA1	1991 03	21.36180	13 16	16.55	-05 25	12.0		3 809
1991 GA1	1991 03	23.31285	13 15	13.04	-04 50	25.0		3 809
1991 GA1	1991 03	23.32326	13 15	12.69	-04 50	13.8		3 809
1991 GA1	1991 03	23.33368	13 15	12.35	-04 50	02.7		3 809
1991 GC1	1991 03	16.35174	13 32	33.68	-08 04	28.8	17.2	3 809
1991 GC1	1991 03	16.36632	13 32	33.06	-08 04	32.9		3 809
1991 GC1	1991 03	16.38091	13 32	32.45	-08 04	37.2		3 809
1991 GC1	1991 03	18.36909	13 31	09.07	-08 14	15.1		3 809
1991 GC1	1991 03	18.37952	13 31	08.63	-08 14	18.3		3 809
1991 GC1	1991 03	18.38993	13 31	08.20	-08 14	21.3		3 809
1991 GQ2	1991 03	20.24375	13 06	02.23	-06 20	23.1	16.6	3 809
1991 GQ2	1991 03	20.25625	13 06	01.75	-06 20	19.2		3 809
1991 GQ2	1991 03	20.26875	13 06	01.29	-06 20	15.2		3 809

1991	GQ2	1991	03	21.25694	13	05	23.32	-06	15	27.6		3	809
1991	GQ2	1991	03	21.26944	13	05	22.81	-06	15	24.0		3	809
1991	GQ2	1991	03	21.28194	13	05	22.31	-06	15	20.3		3	809
1991	GW2	1991	03	20.32638	13	14	59.56	-05	35	32.1	17.8	3	809
1991	GW2	1991	03	20.33889	13	14	59.11	-05	35	29.7		3	809
1991	GW2	1991	03	20.35139	13	14	58.66	-05	35	26.9		3	809
1991	GW2	1991	03	21.33681	13	14	22.33	-05	31	49.8		3	809
1991	GW2	1991	03	21.34930	13	14	21.87	-05	31	47.0		3	809
1991	GW2	1991	03	21.36180	13	14	21.41	-05	31	44.1		3	809
1991	GB3	1991	03	22.29097	13	15	35.24	-07	51	54.5	17.0	3	809
1991	GB3	1991	03	22.30347	13	15	34.76	-07	51	51.8		3	809
1991	GB3	1991	03	22.31597	13	15	34.30	-07	51	49.4		3	809
1991	GB3	1991	03	23.34618	13	14	54.67	-07	48	06.1		3	809
1991	GB3	1991	03	23.35660	13	14	54.25	-07	48	03.9		3	809
1991	GB3	1991	03	23.36701	13	14	53.85	-07	48	01.7		3	809
1991	GB3	1991	03	24.38333	13	14	14.25	-07	44	17.9		3	809
1991	GB3	1991	03	24.39166	13	14	13.92	-07	44	16.2		3	809
1991	GB3	1991	03	24.40000	13	14	13.60	-07	44	14.5		3	809
1991	GB3	1991	03	25.35556	13	13	35.48	-07	40	41.2		3	809
1991	GB3	1991	03	25.36459	13	13	35.12	-07	40	39.3		3	809
1991	GB3	1991	03	25.37361	13	13	34.75	-07	40	37.4		3	809
1991	GF9	1991	03	20.32638	13	12	41.71	-05	04	07.2	17.7	3	809
1991	GF9	1991	03	20.33889	13	12	41.19	-05	04	01.6		3	809
1991	GF9	1991	03	20.35139	13	12	40.69	-05	03	56.4		3	809
1991	GF9	1991	03	23.31285	13	10	37.12	-04	41	29.8		3	809
1991	GF9	1991	03	23.32326	13	10	36.68	-04	41	25.1		3	809
1991	GF9	1991	03	23.33368	13	10	36.23	-04	41	20.4		3	809
1991	HA	1991	03	22.29097	13	15	31.65	-08	12	04.6	16.5	3	809
1991	HA	1991	03	22.30347	13	15	31.08	-08	12	00.7		3	809
1991	HA	1991	03	22.31597	13	15	30.54	-08	11	56.6		3	809
1991	HA	1991	03	23.34618	13	14	45.89	-08	06	30.9		3	809
1991	HA	1991	03	23.35660	13	14	45.43	-08	06	27.8		3	809
1991	HA	1991	03	23.36701	13	14	44.97	-08	06	24.7		3	809
1991	HA	1991	03	24.38333	13	13	59.98	-08	00	56.5		3	809
1991	HA	1991	03	24.39166	13	13	59.60	-08	00	53.5		3	809
1991	HA	1991	03	24.40000	13	13	59.25	-08	00	50.8		3	809
1991	HA	1991	03	25.35556	13	13	15.88	-07	55	36.1		3	809
1991	HA	1991	03	25.36459	13	13	15.45	-07	55	33.0		3	809
1991	HA	1991	03	25.37361	13	13	15.05	-07	55	30.2		3	809
1991	LO4	1991	06	08.18611	16	30	45.30	-13	02	36.3		4	809
1991	LO4	1991	06	08.19931	16	30	44.49	-13	02	34.6		4	809
1991	LO4	1991	06	08.21250	16	30	43.78	-13	02	32.1		4	809
1991	NH1	1991	09	04.11597	21	19	47.43	-16	49	44.4		4	809
1991	NH1	1991	09	04.12917	21	19	46.83	-16	49	46.2		4	809
1991	NH1	1991	09	04.14236	21	19	46.24	-16	49	47.9		4	809
1991	NH1	1991	09	06.10833	21	18	31.41	-16	54	05.3	18.6	4	809
1991	NH1	1991	09	06.12153	21	18	30.80	-16	54	06.4		4	809
1991	NH1	1991	09	06.13472	21	18	30.25	-16	54	07.6		4	809
1991	NK1	1991	09	04.11597	21	24	55.75	-19	39	21.3		4	809
1991	NK1	1991	09	04.12917	21	24	55.21	-19	39	25.2		4	809
1991	NK1	1991	09	04.14236	21	24	54.74	-19	39	28.5		4	809
1991	NK1	1991	09	06.10833	21	23	46.49	-19	48	45.5	18.0	4	809
1991	NK1	1991	09	06.12153	21	23	45.97	-19	48	49.1		4	809
1991	NK1	1991	09	06.13472	21	23	45.49	-19	48	52.3		4	809
1991	NL1	1991	09	04.11597	21	23	57.87	-18	26	38.4		4	809
1991	NL1	1991	09	04.12917	21	23	57.28	-18	26	40.8		4	809
1991	NL1	1991	09	04.14236	21	23	56.70	-18	26	43.2		4	809
1991	NL1	1991	09	06.10833	21	22	45.75	-18	31	30.6	18.4	4	809
1991	NL1	1991	09	06.12153	21	22	45.22	-18	31	31.7		4	809

1991 NL1	1991 09 06.13472	21 22 44.72	-18 31 33.1		4 809
1991 NO2	1991 09 04.02361	20 39 20.48	-22 58 42.1	18.5	4 809
1991 NO2	1991 09 04.03681	20 39 20.09	-22 58 42.9		4 809
1991 NO2	1991 09 04.05000	20 39 19.72	-22 58 43.6		4 809
1991 NO2	1991 09 07.00972	20 38 26.11	-23 02 07.3		4 809
1991 NO2	1991 09 07.02292	20 38 25.84	-23 02 07.9		4 809
1991 NO2	1991 09 07.03611	20 38 25.60	-23 02 08.8		4 809
1991 NP2	1991 08 02.11806	21 02 07.79	-18 32 23.5		809
1991 NP2	1991 08 02.14444	21 02 05.99	-18 32 21.8		809
1991 PB	1991 09 04.06875	20 50 36.38	-17 25 39.2		4 809
1991 PB	1991 09 04.08194	20 50 36.18	-17 25 41.7		4 809
1991 PB	1991 09 04.09514	20 50 36.03	-17 25 44.6		4 809
1991 PB	1991 09 06.06389	20 50 18.36	-17 32 39.6	17.0	4 809
1991 PB	1991 09 06.07708	20 50 18.14	-17 32 41.8		4 809
1991 PB	1991 09 06.09028	20 50 17.96	-17 32 44.4		4 809
1991 PE	1991 09 04.11597	21 24 23.54	-17 29 48.5		4 809
1991 PE	1991 09 04.12917	21 24 23.08	-17 29 51.0		4 809
1991 PE	1991 09 04.14236	21 24 22.60	-17 29 53.4		4 809
1991 PE	1991 09 06.10833	21 23 26.84	-17 36 11.6	17.7	4 809
1991 PE	1991 09 06.12153	21 23 26.41	-17 36 13.8		4 809
1991 PE	1991 09 06.13472	21 23 26.01	-17 36 16.1		4 809
1991 PJ	1991 09 04.11597	21 34 04.18	-19 54 33.7		4 809
1991 PJ	1991 09 04.12917	21 34 03.58	-19 54 39.5		4 809
1991 PJ	1991 09 04.14236	21 34 02.99	-19 54 44.9		4 809
1991 PE1	1991 09 04.02361	20 40 53.69	-20 38 38.1	18.6	4 809
1991 PE1	1991 09 04.03681	20 40 53.41	-20 38 45.8		4 809
1991 PE1	1991 09 04.05000	20 40 53.17	-20 38 54.6		4 809
1991 PE1	1991 09 07.00972	20 40 17.85	-21 09 07.1		4 809
1991 PE1	1991 09 07.02292	20 40 17.69	-21 09 14.6		4 809
1991 PE1	1991 09 07.03611	20 40 17.48	-21 09 22.8		4 809
1991 PQ1	1991 09 04.06875	21 03 33.97	-16 26 46.1		4 809
1991 PQ1	1991 09 04.08194	21 03 33.42	-16 26 49.0		4 809
1991 PQ1	1991 09 04.09514	21 03 32.98	-16 26 52.0		4 809
1991 PQ1	1991 09 06.06389	21 02 29.92	-16 33 33.9	18.6	4 809
1991 PQ1	1991 09 06.07708	21 02 29.40	-16 33 36.3		4 809
1991 PQ1	1991 09 06.09028	21 02 28.95	-16 33 38.6		4 809
1991 PH2	1991 09 04.02361	20 27 20.68	-21 00 31.2	19.3	4 809
1991 PH2	1991 09 04.03681	20 27 20.25	-21 00 32.5		4 809
1991 PH2	1991 09 04.05000	20 27 19.94	-21 00 33.5		4 809
1991 PH2	1991 09 07.00972	20 26 20.76	-21 03 15.1		4 809
1991 PH2	1991 09 07.02292	20 26 20.52	-21 03 16.0		4 809
1991 PH2	1991 09 07.03611	20 26 20.31	-21 03 17.1		4 809
1991 PU2	1991 09 04.02361	20 27 19.40	-21 28 37.9	18.8	4 809
1991 PU2	1991 09 04.03681	20 27 18.82	-21 28 35.1		4 809
1991 PU2	1991 09 04.05000	20 27 18.24	-21 28 32.6		4 809
1991 PU2	1991 09 07.00972	20 25 36.57	-21 18 06.6		4 809
1991 PU2	1991 09 07.02292	20 25 36.26	-21 18 04.3		4 809
1991 PU2	1991 09 07.03611	20 25 35.78	-21 18 00.7		4 809
1991 PE3	1991 09 04.02361	20 33 44.64	-21 34 09.6	18.7	4 809
1991 PE3	1991 09 04.03681	20 33 44.14	-21 34 10.8		4 809
1991 PE3	1991 09 04.05000	20 33 43.60	-21 34 13.5		4 809
1991 PE3	1991 09 07.00972	20 32 12.01	-21 41 38.5		4 809
1991 PE3	1991 09 07.02292	20 32 11.52	-21 41 40.4		4 809
1991 PE3	1991 09 07.03611	20 32 11.11	-21 41 42.6		4 809
1991 PF3	1991 09 04.02361	20 39 07.05	-23 17 38.9	18.8	4 809
1991 PF3	1991 09 04.03681	20 39 06.56	-23 17 42.5		4 809
1991 PF3	1991 09 04.05000	20 39 06.22	-23 17 46.5		4 809
1991 PF3	1991 09 07.00972	20 38 02.09	-23 31 09.8		4 809
1991 PF3	1991 09 07.02292	20 38 01.87	-23 31 12.1		4 809

1991 PF3	1991 09 07.03611	20 38 01.61	-23 31 14.9		4 809
1991 PK3	1991 09 04.02361	20 38 40.35	-22 31 18.6	18.7	4 809
1991 PK3	1991 09 04.03681	20 38 39.88	-22 31 19.5		4 809
1991 PK3	1991 09 04.05000	20 38 39.40	-22 31 20.3		4 809
1991 PK3	1991 09 07.00972	20 37 25.78	-22 32 36.5		4 809
1991 PK3	1991 09 07.02292	20 37 25.38	-22 32 36.3		4 809
1991 PK3	1991 09 07.03611	20 37 25.05	-22 32 37.2		4 809
1991 PM4	1991 09 04.06875	20 44 26.53	-16 38 06.8		4 809
1991 PM4	1991 09 04.08194	20 44 26.10	-16 38 05.4		4 809
1991 PM4	1991 09 04.09514	20 44 25.74	-16 38 04.3		4 809
1991 PM4	1991 09 06.06389	20 43 38.31	-16 35 20.9	18.6	4 809
1991 PM4	1991 09 06.07708	20 43 37.94	-16 35 19.6		4 809
1991 PM4	1991 09 06.09028	20 43 37.51	-16 35 17.9		4 809
1991 PO4	1991 09 04.06875	20 48 51.78	-17 00 44.5		4 809
1991 PO4	1991 09 04.08194	20 48 51.29	-17 00 46.4		4 809
1991 PO4	1991 09 04.09514	20 48 50.88	-17 00 49.2		4 809
1991 PO4	1991 09 06.06389	20 47 52.13	-17 06 26.8	18.7	4 809
1991 PO4	1991 09 06.07708	20 47 51.59	-17 06 28.8		4 809
1991 PO4	1991 09 06.09028	20 47 51.22	-17 06 30.2		4 809
1991 PT4	1991 09 04.06875	20 51 29.86	-16 06 24.6		4 809
1991 PT4	1991 09 04.08194	20 51 29.41	-16 06 26.6		4 809
1991 PT4	1991 09 04.09514	20 51 29.01	-16 06 28.6		4 809
1991 PT4	1991 09 06.06389	20 50 36.27	-16 10 46.8	18.7	4 809
1991 PT4	1991 09 06.07708	20 50 35.82	-16 10 47.8		4 809
1991 PT4	1991 09 06.09028	20 50 35.42	-16 10 49.8		4 809
1991 PX4	1991 09 04.06875	20 52 53.32	-16 46 14.6		4 809
1991 PX4	1991 09 04.08194	20 52 52.88	-16 46 16.7		4 809
1991 PX4	1991 09 04.09514	20 52 52.49	-16 46 19.1		4 809
1991 PX4	1991 09 06.06389	20 52 00.24	-16 51 11.7	18.8	4 809
1991 PX4	1991 09 06.07708	20 51 59.62	-16 51 14.6		4 809
1991 PX4	1991 09 06.09028	20 51 58.90	-16 51 17.2		4 809
1991 PE5	1991 09 04.06875	20 53 20.50	-15 41 51.4		4 809
1991 PE5	1991 09 04.08194	20 53 20.04	-15 41 54.1		4 809
1991 PE5	1991 09 04.09514	20 53 19.64	-15 41 56.3		4 809
1991 PE5	1991 09 06.06389	20 52 16.11	-15 46 51.2	18.6	4 809
1991 PE5	1991 09 06.07708	20 52 15.54	-15 46 52.8		4 809
1991 PE5	1991 09 06.09028	20 52 15.10	-15 46 53.5		4 809
1991 PF5	1991 09 04.06875	20 48 10.88	-16 04 32.5		4 809
1991 PF5	1991 09 04.08194	20 48 10.43	-16 04 32.4		4 809
1991 PF5	1991 09 04.09514	20 48 09.99	-16 04 32.6		4 809
1991 PF5	1991 09 06.06389	20 47 07.95	-16 04 26.2	18.7	4 809
1991 PF5	1991 09 06.07708	20 47 07.46	-16 04 25.8		4 809
1991 PF5	1991 09 06.09028	20 47 07.09	-16 04 26.0		4 809
1991 PJ5	1991 09 04.06875	20 49 58.33	-16 36 16.2		4 809
1991 PJ5	1991 09 04.08194	20 49 57.75	-16 36 18.8		4 809
1991 PJ5	1991 09 04.09514	20 49 57.16	-16 36 20.3		4 809
1991 PJ5	1991 09 06.06389	20 48 38.05	-16 41 12.4	18.5	4 809
1991 PJ5	1991 09 06.07708	20 48 37.45	-16 41 14.1		4 809
1991 PJ5	1991 09 06.09028	20 48 36.86	-16 41 15.7		4 809
1991 PL5	1991 09 04.06875	20 55 23.70	-16 21 09.0		4 809
1991 PL5	1991 09 04.08194	20 55 23.32	-16 21 10.6		4 809
1991 PL5	1991 09 04.09514	20 55 22.95	-16 21 12.1		4 809
1991 PL5	1991 09 06.06389	20 54 37.03	-16 23 26.0	18.9	4 809
1991 PL5	1991 09 06.07708	20 54 36.63	-16 23 26.3		4 809
1991 PL5	1991 09 06.09028	20 54 36.29	-16 23 26.7		4 809
1991 PO5	1991 09 04.06875	20 57 40.16	-16 19 38.0		4 809
1991 PO5	1991 09 04.08194	20 57 39.70	-16 19 39.1		4 809
1991 PO5	1991 09 04.09514	20 57 39.27	-16 19 41.0		4 809
1991 PO5	1991 09 06.06389	20 56 37.94	-16 24 11.3	18.6	4 809

1991	PO5	1991	09	06.07708	20	56	37.36	-16	24	12.6	4	809
1991	PO5	1991	09	06.09028	20	56	36.97	-16	24	14.7	4	809
1991	PQ5	1991	09	04.06875	20	58	33.92	-18	05	23.5	4	809
1991	PQ5	1991	09	04.08194	20	58	33.53	-18	05	28.3	4	809
1991	PQ5	1991	09	04.09514	20	58	33.17	-18	05	33.8	4	809
1991	PQ5	1991	09	06.06389	20	57	48.01	-18	18	04.5	18.6	4 809
1991	PQ5	1991	09	06.07708	20	57	47.60	-18	18	08.4	4	809
1991	PQ5	1991	09	06.09028	20	57	47.31	-18	18	13.4	4	809
1991	PV5	1991	09	04.11597	21	30	12.39	-17	54	11.6	4	809
1991	PV5	1991	09	04.12917	21	30	12.00	-17	54	16.5	4	809
1991	PV5	1991	09	04.14236	21	30	11.45	-17	54	23.6	4	809
1991	PV5	1991	09	06.10833	21	29	22.76	-18	05	19.9	18.7	4 809
1991	PV5	1991	09	06.12153	21	29	22.36	-18	05	24.5	4	809
1991	PV5	1991	09	06.13472	21	29	21.90	-18	05	28.7	4	809
1991	PC6	1991	09	04.11597	21	25	32.65	-20	17	37.3	4	809
1991	PC6	1991	09	04.12917	21	25	32.09	-20	17	43.1	4	809
1991	PC6	1991	09	04.14236	21	25	31.44	-20	17	48.8	4	809
1991	PC6	1991	09	06.10833	21	24	06.53	-20	29	44.3	18.7	4 809
1991	PC6	1991	09	06.12153	21	24	05.90	-20	29	48.0	4	809
1991	PC6	1991	09	06.13472	21	24	05.42	-20	29	52.4	4	809
1991	PE6	1991	09	04.11597	21	28	32.45	-18	40	14.2	4	809
1991	PE6	1991	09	04.12917	21	28	31.88	-18	40	15.6	4	809
1991	PE6	1991	09	04.14236	21	28	31.32	-18	40	17.2	4	809
1991	PE6	1991	09	06.10833	21	27	17.97	-18	43	32.1	18.5	4 809
1991	PE6	1991	09	06.12153	21	27	17.41	-18	43	33.0	4	809
1991	PE6	1991	09	06.13472	21	27	16.89	-18	43	34.7	4	809
1991	PS6	1991	09	04.11597	21	33	30.22	-18	17	35.0	4	809
1991	PS6	1991	09	04.12917	21	33	29.63	-18	17	38.0	4	809
1991	PS6	1991	09	04.14236	21	33	29.04	-18	17	41.4	4	809
1991	PS6	1991	09	06.10833	21	32	12.68	-18	24	20.9	18.6	4 809
1991	PS6	1991	09	06.12153	21	32	12.07	-18	24	23.1	4	809
1991	PS6	1991	09	06.13472	21	32	11.59	-18	24	26.5	4	809
1991	PX6	1991	09	04.11597	21	32	01.02	-18	12	11.4	4	809
1991	PX6	1991	09	04.12917	21	32	00.44	-18	12	12.6	4	809
1991	PX6	1991	09	04.14236	21	31	59.82	-18	12	15.0	4	809
1991	PX6	1991	09	06.10833	21	30	45.49	-18	15	16.8	18.6	4 809
1991	PX6	1991	09	06.12153	21	30	44.92	-18	15	17.0	4	809
1991	PX6	1991	09	06.13472	21	30	44.31	-18	15	18.9	4	809
1991	PA7	1991	09	04.11597	21	33	01.38	-15	47	55.2	4	809
1991	PA7	1991	09	04.12917	21	33	00.81	-15	47	56.0	4	809
1991	PA7	1991	09	04.14236	21	33	00.25	-15	47	56.9	4	809
1991	PA7	1991	09	06.10833	21	31	41.37	-15	50	31.2	18.7	4 809
1991	PA7	1991	09	06.12153	21	31	40.73	-15	50	32.4	4	809
1991	PA7	1991	09	06.13472	21	31	40.21	-15	50	32.8	4	809
1991	PC7	1991	09	04.11597	21	36	45.55	-18	13	42.8	4	809
1991	PC7	1991	09	04.12917	21	36	45.01	-18	13	45.5	4	809
1991	PC7	1991	09	04.14236	21	36	44.41	-18	13	48.3	4	809
1991	PC7	1991	09	06.10833	21	35	25.39	-18	20	35.0	18.6	4 809
1991	PC7	1991	09	06.12153	21	35	24.74	-18	20	37.9	4	809
1991	PC7	1991	09	06.13472	21	35	24.26	-18	20	39.9	4	809
1991	PE7	1991	09	04.11597	21	29	00.78	-15	51	12.7	4	809
1991	PE7	1991	09	04.12917	21	28	59.90	-15	51	10.2	4	809
1991	PE7	1991	09	04.14236	21	28	59.22	-15	51	07.9	4	809
1991	PE7	1991	09	06.10833	21	27	14.06	-15	46	05.7	18.7	4 809
1991	PE7	1991	09	06.12153	21	27	13.37	-15	46	03.4	4	809
1991	PE7	1991	09	06.13472	21	27	12.67	-15	46	00.6	4	809
1991	PG7	1991	09	04.11597	21	40	01.00	-18	08	57.4	4	809
1991	PG7	1991	09	04.12917	21	40	00.48	-18	08	57.4	4	809
1991	PG7	1991	09	04.14236	21	39	59.71	-18	08	58.7	4	809

1991 PG7	1991 09 06.10833	21 38 44.43	-18 10 48.4	18.3	4 809
1991 PG7	1991 09 06.12153	21 38 43.94	-18 10 49.1		4 809
1991 PG7	1991 09 06.13472	21 38 43.39	-18 10 50.0		4 809
1991 PH7	1991 09 04.11597	21 36 58.00	-18 41 33.2		4 809
1991 PH7	1991 09 04.12917	21 36 57.11	-18 41 33.5		4 809
1991 PH7	1991 09 04.14236	21 36 56.29	-18 41 34.1		4 809
1991 PH7	1991 09 06.10833	21 35 40.91	-18 41 48.4	18.5	4 809
1991 PH7	1991 09 06.12153	21 35 40.45	-18 41 48.4		4 809
1991 PH7	1991 09 06.13472	21 35 39.85	-18 41 48.8		4 809
1991 PJ7	1991 09 04.11597	21 31 47.48	-16 02 28.5		4 809
1991 PJ7	1991 09 04.12917	21 31 46.79	-16 02 27.8		4 809
1991 PJ7	1991 09 04.14236	21 31 46.05	-16 02 27.4		4 809
1991 PJ7	1991 09 06.10833	21 30 10.03	-16 00 11.7	18.5	4 809
1991 PJ7	1991 09 06.12153	21 30 09.33	-16 00 10.9		4 809
1991 PJ7	1991 09 06.13472	21 30 08.69	-16 00 10.1		4 809
1991 PT7	1991 09 04.11597	21 38 23.90	-16 54 29.0		4 809
1991 PT7	1991 09 04.12917	21 38 23.30	-16 54 29.4		4 809
1991 PT7	1991 09 04.14236	21 38 22.56	-16 54 30.3		4 809
1991 PT7	1991 09 06.10833	21 36 58.97	-16 57 35.6	18.5	4 809
1991 PT7	1991 09 06.12153	21 36 58.34	-16 57 36.1		4 809
1991 PT7	1991 09 06.13472	21 36 57.75	-16 57 37.0		4 809
1991 PX7	1991 09 04.11597	21 39 30.52	-16 52 56.6		4 809
1991 PX7	1991 09 04.12917	21 39 29.80	-16 52 56.3		4 809
1991 PX7	1991 09 04.14236	21 39 29.10	-16 52 56.5		4 809
1991 PX7	1991 09 06.10833	21 37 50.79	-16 52 28.5	18.7	4 809
1991 PX7	1991 09 06.12153	21 37 50.03	-16 52 27.8		4 809
1991 PX7	1991 09 06.13472	21 37 49.40	-16 52 27.2		4 809
1991 PY7	1991 09 04.11597	21 38 22.72	-17 29 18.1		4 809
1991 PY7	1991 09 04.12917	21 38 21.88	-17 29 22.2		4 809
1991 PY7	1991 09 04.14236	21 38 21.09	-17 29 26.2		4 809
1991 PY7	1991 09 06.10833	21 36 37.76	-17 37 32.8	19.2	4 809
1991 PY7	1991 09 06.12153	21 36 37.02	-17 37 35.9		4 809
1991 PY7	1991 09 06.13472	21 36 36.31	-17 37 38.5		4 809
1991 PE8	1991 09 04.02361	20 40 45.35	-19 49 45.9	18.7	4 809
1991 PE8	1991 09 04.03681	20 40 44.95	-19 49 47.9		4 809
1991 PE8	1991 09 04.05000	20 40 44.60	-19 49 50.6		4 809
1991 PE8	1991 09 07.00972	20 39 54.35	-19 56 27.1		4 809
1991 PE8	1991 09 07.02292	20 39 54.09	-19 56 28.2		4 809
1991 PE8	1991 09 07.03611	20 39 53.88	-19 56 30.3		4 809
1991 PN8	1991 09 04.06875	21 00 11.80	-15 18 50.6		4 809
1991 PN8	1991 09 04.08194	21 00 11.21	-15 18 54.2		4 809
1991 PN8	1991 09 04.09514	21 00 10.68	-15 18 57.4		4 809
1991 PN8	1991 09 06.06389	20 59 02.13	-15 26 14.9	18.5	4 809
1991 PN8	1991 09 06.07708	20 59 01.56	-15 26 17.6		4 809
1991 PN8	1991 09 06.09028	20 59 01.19	-15 26 20.9		4 809
1991 PQ8	1991 09 04.06875	21 05 57.93	-17 57 37.3		4 809
1991 PQ8	1991 09 04.08194	21 05 57.32	-17 57 40.2		4 809
1991 PQ8	1991 09 04.09514	21 05 56.81	-17 57 45.6		4 809
1991 PQ8	1991 09 06.06389	21 04 54.20	-18 02 58.3	19.3	4 809
1991 PQ8	1991 09 06.07708	21 04 53.63	-18 02 59.7		4 809
1991 PQ8	1991 09 06.09028	21 04 53.03	-18 03 00.8		4 809
1991 PH9	1991 09 04.06875	20 51 48.55	-18 10 57.9		4 809
1991 PH9	1991 09 04.08194	20 51 47.82	-18 10 51.4		4 809
1991 PH9	1991 09 04.09514	20 51 47.32	-18 10 46.2		4 809
1991 PH9	1991 09 06.06389	20 50 25.12	-17 56 50.4	18.5	4 809
1991 PH9	1991 09 06.07708	20 50 24.50	-17 56 44.4		4 809
1991 PH9	1991 09 06.09028	20 50 23.91	-17 56 39.3		4 809
1991 PP9	1991 09 04.06875	20 49 27.04	-19 15 37.8		4 809
1991 PP9	1991 09 04.08194	20 49 26.42	-19 15 37.7		4 809

1991 PP9	1991 09 04.09514	20 49 25.81	-19 15 38.4		4 809
1991 PP9	1991 09 06.06389	20 48 07.80	-19 16 01.5	19.2	4 809
1991 PP9	1991 09 06.07708	20 48 07.19	-19 16 01.1		4 809
1991 PP9	1991 09 06.09028	20 48 06.64	-19 16 00.3		4 809
1991 PW9	1991 09 04.06875	20 49 54.96	-14 40 13.2		4 809
1991 PW9	1991 09 04.08194	20 49 54.60	-14 40 18.7		4 809
1991 PW9	1991 09 04.09514	20 49 54.23	-14 40 23.5		4 809
1991 PW9	1991 09 06.06389	20 49 03.70	-14 51 19.0	18.7	4 809
1991 PW9	1991 09 06.07708	20 49 03.30	-14 51 22.5		4 809
1991 PW9	1991 09 06.09028	20 49 02.89	-14 51 28.0		4 809
1991 PL10	1991 09 04.11597	21 24 02.06	-18 58 47.4		4 809
1991 PL10	1991 09 04.12917	21 24 01.51	-18 58 53.6		4 809
1991 PL10	1991 09 04.14236	21 24 00.95	-18 59 00.3		4 809
1991 PL10	1991 09 06.10833	21 22 59.09	-19 11 57.3	18.5	4 809
1991 PL10	1991 09 06.12153	21 22 58.63	-19 12 02.4		4 809
1991 PL10	1991 09 06.13472	21 22 58.18	-19 12 07.7		4 809
1991 PO12	1991 09 04.11597	21 27 42.85	-15 34 53.4		4 809
1991 PO12	1991 09 04.12917	21 27 42.19	-15 34 58.3		4 809
1991 PO12	1991 09 04.14236	21 27 41.46	-15 35 04.0		4 809
1991 PO12	1991 09 06.10833	21 26 08.18	-15 48 12.6	18.3	4 809
1991 PO12	1991 09 06.12153	21 26 07.53	-15 48 16.9		4 809
1991 PO12	1991 09 06.13472	21 26 06.91	-15 48 22.4		4 809
1991 PW16	1991 09 04.11597	21 34 16.48	-15 58 45.1		4 809
1991 PW16	1991 09 04.12917	21 34 15.89	-15 58 48.3		4 809
1991 PW16	1991 09 04.14236	21 34 15.33	-15 58 53.2		4 809
1991 PW16	1991 09 06.10833	21 33 01.32	-16 08 24.7	18.6	4 809
1991 PW16	1991 09 06.12153	21 33 00.82	-16 08 28.4		4 809
1991 PW16	1991 09 06.13472	21 33 00.34	-16 08 31.2		4 809
1991 PK17*	1991 08 06.24444	21 51 09.29	-13 37 41.6	18.4	4 809
1991 PK17	1991 08 06.25764	21 51 08.45	-13 37 44.2		4 809
1991 PK17	1991 08 06.27083	21 51 07.61	-13 37 46.3		4 809
1991 RJ11*	1991 09 04.02361	20 25 30.46	-21 06 54.4	19.0	4 809
1991 RJ11	1991 09 04.03681	20 25 30.07	-21 06 55.7		4 809
1991 RJ11	1991 09 04.05000	20 25 29.72	-21 06 56.8		4 809
1991 RJ11	1991 09 07.00972	20 24 33.70	-21 10 49.3		4 809
1991 RJ11	1991 09 07.02292	20 24 33.41	-21 10 50.1		4 809
1991 RJ11	1991 09 07.03611	20 24 33.06	-21 10 50.4		4 809
1991 RK11*	1991 09 04.02361	20 26 05.08	-20 08 13.7	18.8	4 809
1991 RK11	1991 09 04.03681	20 26 04.66	-20 08 17.9		4 809
1991 RK11	1991 09 04.05000	20 26 04.23	-20 08 22.0		4 809
1991 RK11	1991 09 07.00972	20 25 01.34	-20 23 02.8		4 809
1991 RK11	1991 09 07.02292	20 25 01.02	-20 23 07.0		4 809
1991 RK11	1991 09 07.03611	20 25 00.68	-20 23 11.6		4 809
1991 RL11*	1991 09 04.02361	20 26 46.35	-23 30 03.8	19.6	4 809
1991 RL11	1991 09 04.03681	20 26 45.91	-23 30 05.0		4 809
1991 RL11	1991 09 04.05000	20 26 45.35	-23 30 06.9		4 809
1991 RL11	1991 09 07.00972	20 24 37.94	-23 33 31.1		4 809
1991 RL11	1991 09 07.02292	20 24 37.55	-23 33 32.1		4 809
1991 RL11	1991 09 07.03611	20 24 36.96	-23 33 33.9		4 809
1991 RM11*	1991 09 04.02361	20 32 14.30	-20 32 26.1	18.7	4 809
1991 RM11	1991 09 04.03681	20 32 13.93	-20 32 29.0		4 809
1991 RM11	1991 09 04.05000	20 32 13.64	-20 32 32.4		4 809
1991 RM11	1991 09 07.00972	20 31 32.94	-20 42 10.0		4 809
1991 RM11	1991 09 07.02292	20 31 32.76	-20 42 12.5		4 809
1991 RM11	1991 09 07.03611	20 31 32.55	-20 42 15.9		4 809
1991 RN11*	1991 09 04.02361	20 33 21.57	-21 40 38.4	18.6	4 809
1991 RN11	1991 09 04.03681	20 33 20.98	-21 40 39.7		4 809
1991 RN11	1991 09 04.05000	20 33 20.48	-21 40 41.5		4 809
1991 RN11	1991 09 07.00972	20 31 51.35	-21 47 22.5		4 809

1991	RN11	1991	09	07.02292	20	31	50.83	-21	47	23.8		4	809
1991	RN11	1991	09	07.03611	20	31	50.42	-21	47	25.5		4	809
1991	RO11*	1991	09	04.02361	20	34	43.38	-21	22	25.7	18.7	4	809
1991	RO11	1991	09	04.03681	20	34	42.65	-21	22	21.5		4	809
1991	RO11	1991	09	04.05000	20	34	42.17	-21	22	17.3		4	809
1991	RO11	1991	09	07.00972	20	32	50.86	-21	05	23.6		4	809
1991	RO11	1991	09	07.02292	20	32	50.38	-21	05	19.8		4	809
1991	RO11	1991	09	07.03611	20	32	49.90	-21	05	15.6		4	809
1991	RP11*	1991	09	04.02361	20	37	48.20	-19	36	34.6	18.7	4	809
1991	RP11	1991	09	04.03681	20	37	47.77	-19	36	35.9		4	809
1991	RP11	1991	09	04.05000	20	37	47.45	-19	36	37.1		4	809
1991	RP11	1991	09	07.00972	20	36	55.58	-19	41	20.0		4	809
1991	RP11	1991	09	07.02292	20	36	55.34	-19	41	20.9		4	809
1991	RP11	1991	09	07.03611	20	36	55.05	-19	41	22.4		4	809
1991	RQ11*	1991	09	04.02361	20	38	42.55	-20	31	58.3	18.7	4	809
1991	RQ11	1991	09	04.03681	20	38	42.10	-20	32	03.2		4	809
1991	RQ11	1991	09	04.05000	20	38	41.64	-20	32	09.1		4	809
1991	RQ11	1991	09	07.00972	20	37	24.23	-20	51	44.1		4	809
1991	RQ11	1991	09	07.02292	20	37	23.85	-20	51	48.5		4	809
1991	RQ11	1991	09	07.03611	20	37	23.50	-20	51	52.5		4	809
1991	RR11*	1991	09	04.02361	20	38	56.12	-23	04	31.6	19.5	4	809
1991	RR11	1991	09	04.03681	20	38	55.57	-23	04	27.9		4	809
1991	RR11	1991	09	04.05000	20	38	55.17	-23	04	24.9		4	809
1991	RR11	1991	09	07.00972	20	37	56.10	-22	51	15.8		4	809
1991	RR11	1991	09	07.02292	20	37	55.82	-22	51	12.4		4	809
1991	RR11	1991	09	07.03611	20	37	55.55	-22	51	09.1		4	809
1991	RS11*	1991	09	04.02361	20	39	25.17	-23	01	55.6	18.6	4	809
1991	RS11	1991	09	04.03681	20	39	25.00	-23	02	03.2		4	809
1991	RS11	1991	09	04.05000	20	39	24.88	-23	02	09.5		4	809
1991	RS11	1991	09	07.00972	20	39	30.44	-23	28	26.6		4	809
1991	RS11	1991	09	07.02292	20	39	30.46	-23	28	34.1		4	809
1991	RS11	1991	09	07.03611	20	39	30.43	-23	28	41.0		4	809
1991	RT11*	1991	09	04.02361	20	40	13.22	-21	55	07.4	19.6	4	809
1991	RT11	1991	09	04.03681	20	40	12.69	-21	55	10.6		4	809
1991	RT11	1991	09	04.05000	20	40	12.28	-21	55	13.6		4	809
1991	RT11	1991	09	07.00972	20	38	46.14	-22	00	03.0		4	809
1991	RT11	1991	09	07.02292	20	38	45.69	-22	00	03.9		4	809
1991	RT11	1991	09	07.03611	20	38	45.34	-22	00	05.5		4	809
1991	RU11*	1991	09	04.02361	20	44	21.20	-23	42	40.5	18.3	4	809
1991	RU11	1991	09	04.03681	20	44	20.64	-23	42	36.7		4	809
1991	RU11	1991	09	04.05000	20	44	20.06	-23	42	33.1		4	809
1991	RU11	1991	09	07.00972	20	42	45.15	-23	27	57.7		4	809
1991	RU11	1991	09	07.02292	20	42	44.72	-23	27	53.6		4	809
1991	RU11	1991	09	07.03611	20	42	44.29	-23	27	50.1		4	809
1991	RV11*	1991	09	04.06875	20	44	31.49	-15	25	18.0		4	809
1991	RV11	1991	09	04.08194	20	44	31.21	-15	25	23.6		4	809
1991	RV11	1991	09	04.09514	20	44	30.91	-15	25	27.0		4	809
1991	RV11	1991	09	06.06389	20	44	02.44	-15	34	11.4	18.6	4	809
1991	RV11	1991	09	06.07708	20	44	02.19	-15	34	14.0		4	809
1991	RV11	1991	09	06.09028	20	44	01.93	-15	34	17.3		4	809
1991	RW11*	1991	09	04.06875	20	48	00.27	-18	44	12.4		4	809
1991	RW11	1991	09	04.08194	20	47	59.62	-18	44	17.8		4	809
1991	RW11	1991	09	04.09514	20	47	59.07	-18	44	22.7		4	809
1991	RW11	1991	09	06.06389	20	46	48.46	-18	55	30.3	19.0	4	809
1991	RW11	1991	09	06.07708	20	46	48.14	-18	55	33.1		4	809
1991	RW11	1991	09	06.09028	20	46	47.72	-18	55	38.7		4	809
1991	RX11*	1991	09	04.06875	20	51	09.25	-19	20	36.2		4	809
1991	RX11	1991	09	04.08194	20	51	08.73	-19	20	35.2		4	809
1991	RX11	1991	09	04.09514	20	51	08.17	-19	20	34.9		4	809

1991 RX11	1991 09 06.06389	20 49 57.13	-19 18 30.5	19.1	4 809
1991 RX11	1991 09 06.07708	20 49 56.56	-19 18 30.1		4 809
1991 RX11	1991 09 06.09028	20 49 55.98	-19 18 29.7		4 809
1991 RY11*	1991 09 04.06875	20 53 58.14	-19 36 24.2		4 809
1991 RY11	1991 09 04.08194	20 53 57.68	-19 36 28.5		4 809
1991 RY11	1991 09 04.09514	20 53 57.20	-19 36 30.2		4 809
1991 RY11	1991 09 06.06389	20 52 52.56	-19 43 00.6	19.0	4 809
1991 RY11	1991 09 06.07708	20 52 51.99	-19 43 02.6		4 809
1991 RY11	1991 09 06.09028	20 52 51.58	-19 43 04.8		4 809
1991 RZ11*	1991 09 04.06875	20 55 09.52	-18 50 45.6		4 809
1991 RZ11	1991 09 04.08194	20 55 09.08	-18 50 47.4		4 809
1991 RZ11	1991 09 04.09514	20 55 08.63	-18 50 48.7		4 809
1991 RZ11	1991 09 06.06389	20 54 13.91	-18 53 07.6	18.5	4 809
1991 RZ11	1991 09 06.07708	20 54 13.44	-18 53 08.1		4 809
1991 RZ11	1991 09 06.09028	20 54 12.98	-18 53 08.4		4 809
1991 RA12*	1991 09 04.06875	20 59 51.72	-14 46 06.7		4 809
1991 RA12	1991 09 04.08194	20 59 51.08	-14 46 09.2		4 809
1991 RA12	1991 09 04.09514	20 59 50.45	-14 46 11.2		4 809
1991 RA12	1991 09 06.06389	20 58 25.55	-14 51 04.0	18.8	4 809
1991 RA12	1991 09 06.07708	20 58 24.96	-14 51 04.9		4 809
1991 RA12	1991 09 06.09028	20 58 24.38	-14 51 07.4		4 809
1991 RB12*	1991 09 04.06875	21 00 39.45	-15 43 03.5		4 809
1991 RB12	1991 09 04.08194	21 00 38.84	-15 43 02.6		4 809
1991 RB12	1991 09 04.09514	21 00 38.14	-15 43 01.2		4 809
1991 RB12	1991 09 06.06389	20 59 10.91	-15 39 53.0	18.7	4 809
1991 RB12	1991 09 06.07708	20 59 10.27	-15 39 50.8		4 809
1991 RB12	1991 09 06.09028	20 59 09.70	-15 39 49.0		4 809
1991 RC12*	1991 09 04.06875	21 00 45.69	-18 24 27.8		4 809
1991 RC12	1991 09 04.08194	21 00 45.15	-18 24 24.7		4 809
1991 RC12	1991 09 04.09514	21 00 44.65	-18 24 22.6		4 809
1991 RC12	1991 09 06.06389	20 59 36.59	-18 17 37.0	18.7	4 809
1991 RC12	1991 09 06.07708	20 59 36.06	-18 17 33.5		4 809
1991 RC12	1991 09 06.09028	20 59 35.61	-18 17 30.9		4 809
1991 RD12*	1991 09 04.06875	21 00 58.26	-18 23 06.0		4 809
1991 RD12	1991 09 04.08194	21 00 57.71	-18 23 08.6		4 809
1991 RD12	1991 09 04.09514	21 00 57.22	-18 23 11.6		4 809
1991 RD12	1991 09 06.06389	20 59 48.07	-18 29 40.8	18.8	4 809
1991 RD12	1991 09 06.07708	20 59 47.50	-18 29 42.9		4 809
1991 RD12	1991 09 06.09028	20 59 47.05	-18 29 45.8		4 809
1991 RE12*	1991 09 04.06875	21 03 49.57	-15 52 51.3		4 809
1991 RE12	1991 09 04.08194	21 03 49.39	-15 52 53.9		4 809
1991 RE12	1991 09 04.09514	21 03 49.16	-15 52 57.2		4 809
1991 RE12	1991 09 06.06389	21 03 23.66	-16 01 13.8	15.0	4 809
1991 RE12	1991 09 06.07708	21 03 23.41	-16 01 16.7		4 809
1991 RE12	1991 09 06.09028	21 03 23.20	-16 01 19.6		4 809
1991 RF12*	1991 09 04.11597	21 20 57.16	-17 49 22.3		4 809
1991 RF12	1991 09 04.12917	21 20 56.45	-17 49 21.7		4 809
1991 RF12	1991 09 04.14236	21 20 55.76	-17 49 22.4		4 809
1991 RF12	1991 09 06.10833	21 19 24.52	-17 49 10.2	19.3	4 809
1991 RF12	1991 09 06.12153	21 19 23.82	-17 49 09.7		4 809
1991 RF12	1991 09 06.13472	21 19 23.09	-17 49 10.1		4 809
1991 RG12*	1991 09 04.11597	21 23 02.67	-18 03 26.0		4 809
1991 RG12	1991 09 04.12917	21 23 02.14	-18 03 28.8		4 809
1991 RG12	1991 09 04.14236	21 23 01.60	-18 03 32.3		4 809
1991 RG12	1991 09 06.10833	21 21 59.22	-18 10 37.4	19.5	4 809
1991 RG12	1991 09 06.12153	21 21 58.65	-18 10 38.1		4 809
1991 RG12	1991 09 06.13472	21 21 58.01	-18 10 39.1		4 809
1991 RH12*	1991 09 04.11597	21 24 01.83	-15 51 50.1		4 809
1991 RH12	1991 09 04.12917	21 24 01.22	-15 51 55.6		4 809

1991 RH12	1991 09 04.14236	21 24 00.66	-15 52 00.9		4 809
1991 RH12	1991 09 06.10833	21 22 40.06	-15 53 39.4	18.8	4 809
1991 RH12	1991 09 06.12153	21 22 39.51	-15 53 42.4		4 809
1991 RH12	1991 09 06.13472	21 22 39.08	-15 53 45.1		4 809
1991 RJ12*	1991 09 04.11597	21 24 05.18	-16 30 22.5		4 809
1991 RJ12	1991 09 04.12917	21 24 04.65	-16 30 26.5		4 809
1991 RJ12	1991 09 04.14236	21 24 04.09	-16 30 29.7		4 809
1991 RJ12	1991 09 06.10833	21 22 59.30	-16 40 07.3	18.4	4 809
1991 RJ12	1991 09 06.12153	21 22 58.79	-16 40 11.3		4 809
1991 RJ12	1991 09 06.13472	21 22 58.34	-16 40 14.7		4 809
1991 RK12*	1991 09 04.11597	21 24 42.77	-15 57 34.9		4 809
1991 RK12	1991 09 04.12917	21 24 42.25	-15 57 37.0		4 809
1991 RK12	1991 09 04.14236	21 24 41.71	-15 57 38.9		4 809
1991 RK12	1991 09 06.10833	21 23 33.57	-16 02 16.4	18.5	4 809
1991 RK12	1991 09 06.12153	21 23 33.00	-16 02 18.3		4 809
1991 RK12	1991 09 06.13472	21 23 32.53	-16 02 19.8		4 809
1991 RL12*	1991 09 04.11597	21 28 09.85	-19 40 18.3		4 809
1991 RL12	1991 09 04.12917	21 28 09.18	-19 40 18.1		4 809
1991 RL12	1991 09 04.14236	21 28 08.52	-19 40 19.1		4 809
1991 RL12	1991 09 06.10833	21 26 41.06	-19 40 46.7	18.3	4 809
1991 RL12	1991 09 06.12153	21 26 40.36	-19 40 46.3		4 809
1991 RL12	1991 09 06.13472	21 26 39.76	-19 40 46.8		4 809
1991 RM12*	1991 09 04.11597	21 29 45.50	-16 28 46.9		4 809
1991 RM12	1991 09 04.12917	21 29 45.01	-16 28 51.0		4 809
1991 RM12	1991 09 04.14236	21 29 44.58	-16 28 56.9		4 809
1991 RM12	1991 09 06.10833	21 28 51.57	-16 39 18.7	18.0	4 809
1991 RM12	1991 09 06.12153	21 28 51.14	-16 39 23.4		4 809
1991 RM12	1991 09 06.13472	21 28 50.73	-16 39 26.6		4 809
1991 RN12*	1991 09 04.11597	21 30 02.22	-18 04 12.4		4 809
1991 RN12	1991 09 04.12917	21 30 01.73	-18 04 19.0		4 809
1991 RN12	1991 09 04.14236	21 30 01.22	-18 04 27.2		4 809
1991 RN12	1991 09 06.10833	21 28 56.47	-18 20 37.0	18.4	4 809
1991 RN12	1991 09 06.12153	21 28 55.99	-18 20 43.4		4 809
1991 RN12	1991 09 06.13472	21 28 55.57	-18 20 49.8		4 809
1991 RO12*	1991 09 04.11597	21 30 05.35	-18 43 43.8		4 809
1991 RO12	1991 09 04.12917	21 30 04.57	-18 43 44.1		4 809
1991 RO12	1991 09 04.14236	21 30 03.93	-18 43 43.3		4 809
1991 RO12	1991 09 06.10833	21 28 38.98	-18 42 30.8	19.0	4 809
1991 RO12	1991 09 06.12153	21 28 38.36	-18 42 29.2		4 809
1991 RO12	1991 09 06.13472	21 28 37.77	-18 42 29.3		4 809
1991 RP12*	1991 09 04.11597	21 31 18.74	-18 30 52.4		4 809
1991 RP12	1991 09 04.12917	21 31 18.06	-18 30 49.8		4 809
1991 RP12	1991 09 04.14236	21 31 17.35	-18 30 46.9		4 809
1991 RP12	1991 09 06.10833	21 29 45.64	-18 23 23.5	18.1	4 809
1991 RP12	1991 09 06.12153	21 29 44.99	-18 23 19.9		4 809
1991 RP12	1991 09 06.13472	21 29 44.32	-18 23 16.4		4 809
1991 RQ12*	1991 09 04.11597	21 31 57.60	-15 15 36.3		4 809
1991 RQ12	1991 09 04.12917	21 31 57.01	-15 15 39.3		4 809
1991 RQ12	1991 09 04.14236	21 31 56.51	-15 15 43.2		4 809
1991 RQ12	1991 09 06.10833	21 30 28.09	-15 25 08.7	19.0	4 809
1991 RQ12	1991 09 06.12153	21 30 27.58	-15 25 12.4		4 809
1991 RQ12	1991 09 06.13472	21 30 27.00	-15 25 16.6		4 809
1991 RR12*	1991 09 04.11597	21 34 26.27	-19 52 37.1		4 809
1991 RR12	1991 09 04.12917	21 34 25.51	-19 52 37.6		4 809
1991 RR12	1991 09 04.14236	21 34 24.82	-19 52 39.3		4 809
1991 RR12	1991 09 06.10833	21 32 40.93	-19 56 17.0	18.5	4 809
1991 RR12	1991 09 06.12153	21 32 40.18	-19 56 18.8		4 809
1991 RR12	1991 09 06.13472	21 32 39.44	-19 56 20.0		4 809
1991 RS12*	1991 09 04.11597	21 34 37.64	-17 07 41.9		4 809

1991	RS12	1991	09	04.12917	21	34	37.15	-17	07	37.0		4	809
1991	RS12	1991	09	04.14236	21	34	36.43	-17	07	32.3		4	809
1991	RS12	1991	09	06.10833	21	33	05.44	-16	44	18.7	18.7	4	809
1991	RS12	1991	09	06.12153	21	33	04.66	-16	44	11.1		4	809
1991	RS12	1991	09	06.13472	21	33	03.82	-16	44	03.1		4	809
1991	RT12*	1991	09	04.11597	21	37	53.11	-18	38	31.5		4	809
1991	RT12	1991	09	04.12917	21	37	52.55	-18	38	34.2		4	809
1991	RT12	1991	09	04.14236	21	37	51.85	-18	38	36.4		4	809
1991	RT12	1991	09	06.10833	21	36	26.80	-18	43	59.2	18.5	4	809
1991	RT12	1991	09	06.12153	21	36	26.19	-18	44	01.2		4	809
1991	RT12	1991	09	06.13472	21	36	25.57	-18	44	02.7		4	809
1991	RU12*	1991	09	04.11597	21	40	00.73	-16	27	11.3		4	809
1991	RU12	1991	09	04.12917	21	40	00.34	-16	27	15.4		4	809
1991	RU12	1991	09	04.14236	21	40	00.03	-16	27	19.5		4	809
1991	RU12	1991	09	06.10833	21	39	02.73	-16	41	27.5	18.7	4	809
1991	RU12	1991	09	06.12153	21	39	02.32	-16	41	32.5		4	809
1991	RU12	1991	09	06.13472	21	39	01.98	-16	41	37.7		4	809
2562	P-L	1991	09	04.02361	20	42	20.20	-20	36	02.6	18.8	4	809
2562	P-L	1991	09	04.03681	20	42	19.69	-20	36	02.8		4	809
2562	P-L	1991	09	04.05000	20	42	19.11	-20	36	04.5		4	809
2562	P-L	1991	09	07.00972	20	40	41.18	-20	39	58.8		4	809
2562	P-L	1991	09	07.02292	20	40	40.73	-20	39	59.6		4	809
2562	P-L	1991	09	07.03611	20	40	40.28	-20	40	01.0		4	809
5557	P-L	1991	03	23.34618	13	13	14.63	-08	35	50.5	17.0	3	809
5557	P-L	1991	03	23.35660	13	13	14.19	-08	35	48.2		3	809
5557	P-L	1991	03	23.36701	13	13	13.78	-08	35	45.7		3	809
5557	P-L	1991	03	25.35556	13	11	54.41	-08	28	52.2		3	809
5557	P-L	1991	03	25.36459	13	11	54.06	-08	28	50.3		3	809
5557	P-L	1991	03	25.37361	13	11	53.69	-08	28	48.6		3	809
6040	P-L	1991	03	13.26771	11	50	04.35	-00	35	36.0	17.6	3	809
6040	P-L	1991	03	13.27812	11	50	03.69	-00	35	33.2		3	809
6040	P-L	1991	03	13.28854	11	50	03.05	-00	35	29.8		3	809
6582	P-L	1991	03	17.35902	13	13	14.81	-07	46	41.6	17.1	3	809
6582	P-L	1991	03	17.37153	13	13	14.34	-07	46	39.0		3	809
6582	P-L	1991	03	17.38403	13	13	13.88	-07	46	36.2		3	809
6582	P-L	1991	03	19.35902	13	11	58.84	-07	39	30.4		3	809
6582	P-L	1991	03	19.37153	13	11	58.34	-07	39	27.6		3	809
6582	P-L	1991	03	19.38403	13	11	57.85	-07	39	25.0		3	809
6582	P-L	1991	03	23.34618	13	09	18.12	-07	24	10.4	16.8	3	809
6582	P-L	1991	03	23.35660	13	09	17.68	-07	24	08.2		3	809
6582	P-L	1991	03	23.36701	13	09	17.25	-07	24	05.5		3	809
6582	P-L	1991	03	24.38333	13	08	34.40	-07	19	59.9		3	809
6582	P-L	1991	03	24.39166	13	08	34.05	-07	19	57.9		3	809
6582	P-L	1991	03	24.40000	13	08	33.69	-07	19	55.9		3	809
6582	P-L	1991	03	25.35556	13	07	53.03	-07	16	00.3		3	809
6582	P-L	1991	03	25.36459	13	07	52.65	-07	15	58.1		3	809
6582	P-L	1991	03	25.37361	13	07	52.27	-07	15	55.8		3	809
7643	P-L	1991	03	11.09132	10	34	59.65	+10	46	26.4	17.4	3	809
7643	P-L	1991	03	11.10174	10	34	59.10	+10	46	30.8		3	809
7643	P-L	1991	03	11.11215	10	34	58.56	+10	46	35.1		3	809
7643	P-L	1991	03	13.15868	10	33	11.19	+11	02	01.3		3	809
7643	P-L	1991	03	13.16910	10	33	10.62	+11	02	06.0		3	809
7643	P-L	1991	03	13.17951	10	33	10.06	+11	02	10.7		3	809
9507	P-L	1991	03	20.32638	13	14	37.83	-05	51	52.9	17.7	3	809
9507	P-L	1991	03	20.33889	13	14	37.51	-05	51	51.4		3	809
9507	P-L	1991	03	20.35139	13	14	37.19	-05	51	49.8		3	809
9507	P-L	1991	03	21.33681	13	14	12.04	-05	49	35.1		3	809
9507	P-L	1991	03	21.34930	13	14	11.72	-05	49	33.4		3	809
9507	P-L	1991	03	21.36180	13	14	11.40	-05	49	31.7		3	809

3201	T-2	1991	09	04.06875	20	46	35.07	-19	17	38.2		4	809
3201	T-2	1991	09	04.08194	20	46	34.64	-19	17	41.1		4	809
3201	T-2	1991	09	04.09514	20	46	34.25	-19	17	44.8		4	809
3201	T-2	1991	09	06.06389	20	45	43.08	-19	23	59.5	18.6	4	809
3201	T-2	1991	09	06.07708	20	45	42.52	-19	24	01.5		4	809
3201	T-2	1991	09	06.09028	20	45	42.13	-19	24	03.7		4	809
4181	T-3	1991	09	06.10833	21	30	04.47	-19	38	58.6	18.6	4	809
4181	T-3	1991	09	06.12153	21	30	04.03	-19	39	00.6		4	809
4181	T-3	1991	09	06.13472	21	30	03.61	-19	39	03.5		4	809
52		1991	09	04.06875	20	49	28.17	-19	34	01.3		4	809
52		1991	09	04.08194	20	49	27.60	-19	34	04.5		4	809
52		1991	09	04.09514	20	49	27.20	-19	34	07.8		4	809
52		1991	09	06.06389	20	48	27.04	-19	40	41.6	11.0	4	809
52		1991	09	06.07708	20	48	26.49	-19	40	43.9		4	809
52		1991	09	06.09028	20	48	26.04	-19	40	46.4		4	809
140		1991	09	04.11597	21	27	22.28	-19	00	27.7		4	809
140		1991	09	04.12917	21	27	21.69	-19	00	31.0		4	809
140		1991	09	04.14236	21	27	21.17	-19	00	33.6		4	809
140		1991	09	06.10833	21	26	18.97	-19	06	32.0	12.0	4	809
140		1991	09	06.12153	21	26	18.43	-19	06	34.2		4	809
140		1991	09	06.13472	21	26	17.97	-19	06	36.3		4	809
414		1991	09	04.02361	20	40	11.25	-23	48	06.6	18.0	4	809
414		1991	09	04.03681	20	40	10.72	-23	48	08.4		4	809
414		1991	09	04.05000	20	40	10.30	-23	48	10.5		4	809
414		1991	09	07.00972	20	38	51.76	-23	54	56.2		4	809
414		1991	09	07.02292	20	38	51.28	-23	54	58.6		4	809
414		1991	09	07.03611	20	38	50.90	-23	55	00.1		4	809
497		1991	03	25.23680	11	14	15.01	+06	44	42.1		3	809
497		1991	03	25.24375	11	14	14.71	+06	44	43.8		3	809
497		1991	03	25.25069	11	14	14.41	+06	44	44.9		3	809
649		1991	03	25.23680	11	14	25.76	+06	32	21.6		3	809
649		1991	03	25.24375	11	14	25.42	+06	32	22.5		3	809
649		1991	03	25.25069	11	14	25.07	+06	32	23.5		3	809
1171		1991	09	04.02361	20	34	31.61	-19	49	11.8	17.5	4	809
1171		1991	09	04.03681	20	34	31.06	-19	49	13.4		4	809
1171		1991	09	04.05000	20	34	30.57	-19	49	15.4		4	809
1171		1991	09	07.00972	20	33	07.92	-19	56	00.1		4	809
1171		1991	09	07.02292	20	33	07.48	-19	56	01.4		4	809
1171		1991	09	07.03611	20	33	07.05	-19	56	03.9		4	809
1218		1991	09	04.02361	20	33	52.84	-23	38	04.2	18.6	4	809
1218		1991	09	04.03681	20	33	52.25	-23	38	05.1		4	809
1218		1991	09	04.05000	20	33	51.79	-23	38	06.1		4	809
1218		1991	09	07.00972	20	32	15.14	-23	40	26.6		4	809
1218		1991	09	07.02292	20	32	14.66	-23	40	27.1		4	809
1218		1991	09	07.03611	20	32	14.19	-23	40	27.7		4	809
1274		1991	09	04.06875	21	00	51.53	-17	17	43.4		4	809
1274		1991	09	04.08194	21	00	50.92	-17	17	44.0		4	809
1274		1991	09	04.09514	21	00	50.32	-17	17	44.9		4	809
1274		1991	09	06.06389	20	59	30.36	-17	18	50.3	17.7	4	809
1274		1991	09	06.07708	20	59	29.73	-17	18	50.0		4	809
1274		1991	09	06.09028	20	59	29.15	-17	18	49.9		4	809
1305		1991	09	04.02361	20	36	29.88	-21	50	56.4	18.2	4	809
1305		1991	09	04.03681	20	36	29.37	-21	50	56.8		4	809
1305		1991	09	04.05000	20	36	28.92	-21	50	58.0		4	809
1305		1991	09	07.00972	20	35	10.82	-21	53	52.9		4	809
1305		1991	09	07.02292	20	35	10.41	-21	53	53.0		4	809
1305		1991	09	07.03611	20	35	10.06	-21	53	54.0		4	809
1476		1991	09	06.06389	20	44	32.55	-18	59	11.6	17.7	4	809
1476		1991	09	06.07708	20	44	32.11	-18	59	07.7		4	809

1476	1991 09 06.09028	20 44 31.77	-18 59 04.0		4 809
1541	1991 09 07.00972	20 24 06.74	-24 22 21.6		4 809
1541	1991 09 07.02292	20 24 06.32	-24 22 21.0		4 809
1541	1991 09 07.03611	20 24 05.95	-24 22 20.0		4 809
1551	1991 09 04.02361	20 29 04.91	-22 31 23.9	17.8	4 809
1551	1991 09 04.03681	20 29 04.42	-22 31 25.1		4 809
1551	1991 09 04.05000	20 29 04.04	-22 31 27.5		4 809
1551	1991 09 07.00972	20 28 02.35	-22 36 40.5		4 809
1551	1991 09 07.02292	20 28 01.96	-22 36 41.7		4 809
1551	1991 09 07.03611	20 28 01.70	-22 36 43.1		4 809
1719	1991 09 04.06875	20 44 08.50	-18 35 51.3		4 809
1719	1991 09 04.08194	20 44 07.90	-18 35 47.2		4 809
1719	1991 09 04.09514	20 44 07.25	-18 35 43.6		4 809
1719	1991 09 06.06389	20 42 43.52	-18 25 23.0	17.5	4 809
1719	1991 09 06.07708	20 42 42.82	-18 25 18.6		4 809
1719	1991 09 06.09028	20 42 42.28	-18 25 14.8		4 809
1737	1991 09 04.02361	20 28 35.14	-21 50 43.7	18.3	4 809
1737	1991 09 04.03681	20 28 34.54	-21 50 42.1		4 809
1737	1991 09 04.05000	20 28 33.92	-21 50 41.1		4 809
1737	1991 09 07.00972	20 27 11.12	-21 46 11.2		4 809
1737	1991 09 07.02292	20 27 10.67	-21 46 10.1		4 809
1737	1991 09 07.03611	20 27 10.22	-21 46 09.2		4 809
2187	1991 09 04.11597	21 29 22.81	-19 38 02.3		4 809
2187	1991 09 04.12917	21 29 22.21	-19 38 09.8		4 809
2187	1991 09 04.14236	21 29 21.71	-19 38 17.9		4 809
2187	1991 09 06.10833	21 28 11.41	-19 56 36.7	17.8	4 809
2187	1991 09 06.12153	21 28 10.89	-19 56 44.0		4 809
2187	1991 09 06.13472	21 28 10.38	-19 56 50.4		4 809
2197	1991 09 04.02361	20 41 54.74	-21 41 38.9	18.5	4 809
2197	1991 09 04.03681	20 41 54.17	-21 41 39.7		4 809
2197	1991 09 04.05000	20 41 53.64	-21 41 41.1		4 809
2197	1991 09 07.00972	20 40 25.71	-21 45 26.7		4 809
2197	1991 09 07.02292	20 40 25.29	-21 45 27.5		4 809
2197	1991 09 07.03611	20 40 24.89	-21 45 28.4		4 809
2220	1991 09 04.02361	20 46 22.42	-20 47 48.6	18.5	4 809
2220	1991 09 04.03681	20 46 21.90	-20 47 49.8		4 809
2220	1991 09 04.05000	20 46 21.46	-20 47 51.7		4 809
2246	1991 09 04.06875	20 47 32.86	-15 12 36.3		4 809
2246	1991 09 04.08194	20 47 32.41	-15 12 38.9		4 809
2246	1991 09 04.09514	20 47 32.11	-15 12 41.6		4 809
2246	1991 09 06.06389	20 46 42.95	-15 18 36.7	18.4	4 809
2246	1991 09 06.07708	20 46 42.50	-15 18 38.5		4 809
2246	1991 09 06.09028	20 46 42.12	-15 18 40.4		4 809
2369	1991 09 04.02361	20 46 15.57	-22 07 02.3	18.5	4 809
2369	1991 09 04.03681	20 46 15.00	-22 07 02.8		4 809
2369	1991 09 04.05000	20 46 14.55	-22 07 03.2		4 809
2369	1991 09 07.00972	20 44 48.65	-22 09 15.8		4 809
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2458	1991 03 06.01667	09 21 02.33	+16 21 12.8	17.3	3 809
2458	1991 03 06.02917	09 21 01.89	+16 21 14.9		3 809
2458	1991 03 06.04166	09 21 01.43	+16 21 17.2		3 809
2458	1991 03 09.06702	09 19 13.98	+16 30 22.3		3 809
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2496	1991 09 04.06875	20 45 34.33	-17 27 57.9		4 809
2496	1991 09 04.08194	20 45 33.79	-17 27 59.7		4 809
2496	1991 09 04.09514	20 45 33.25	-17 28 02.6		4 809
2496	1991 09 06.06389	20 44 25.97	-17 33 38.8	18.4	4 809

2496	1991 09 06.07708	20 44 25.41	-17 33 41.2	4 809
2496	1991 09 06.09028	20 44 24.97	-17 33 43.3	4 809
2516	1991 09 04.11597	21 24 59.45	-16 00 55.2	4 809
2516	1991 09 04.12917	21 24 58.63	-16 00 58.4	4 809
2516	1991 09 04.14236	21 24 57.92	-16 01 02.0	4 809
2516	1991 09 06.10833	21 23 19.78	-16 09 23.7	18.6 4 809
2516	1991 09 06.12153	21 23 19.10	-16 09 26.6	4 809
2516	1991 09 06.13472	21 23 18.39	-16 09 29.7	4 809
2713	1991 03 04.01875	09 21 18.36	+15 58 01.3	16.9 3 809
2713	1991 03 04.02847	09 21 17.96	+15 58 02.7	3 809
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2713	1991 03 06.01667	09 19 56.68	+16 03 18.6	3 809
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2713	1991 03 09.06702	09 18 00.52	+16 10 38.4	3 809
2713	1991 03 09.08160	09 17 59.98	+16 10 40.4	3 809
2713	1991 03 09.09618	09 17 59.40	+16 10 42.6	3 809
2859	1991 09 04.06875	21 00 08.88	-14 54 36.9	4 809
2859	1991 09 04.08194	21 00 08.28	-14 54 40.6	4 809
2859	1991 09 04.09514	21 00 07.68	-14 54 44.7	4 809
2859	1991 09 06.06389	20 58 48.51	-15 04 00.3	18.6 4 809
2859	1991 09 06.07708	20 58 47.90	-15 04 03.5	4 809
2859	1991 09 06.09028	20 58 47.41	-15 04 06.7	4 809
2935	1991 09 04.02361	20 29 48.58	-20 29 22.7	18.5 4 809
2935	1991 09 04.03681	20 29 48.24	-20 29 28.1	4 809
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2935	1991 09 07.00972	20 29 02.35	-20 49 16.5	4 809
2935	1991 09 07.02292	20 29 02.09	-20 49 22.5	4 809
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3027	1991 09 04.06875	20 47 51.77	-15 04 31.2	4 809
3027	1991 09 04.08194	20 47 51.38	-15 04 34.1	4 809
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3027	1991 09 06.09028	20 47 05.36	-15 10 53.2	4 809
3231	1991 09 04.06875	21 02 23.07	-16 40 33.6	4 809
3231	1991 09 04.08194	21 02 22.47	-16 40 32.8	4 809
3231	1991 09 04.09514	21 02 21.85	-16 40 32.4	4 809
3231	1991 09 06.06389	21 00 59.97	-16 39 13.6	18.0 4 809
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3231	1991 09 06.09028	21 00 58.81	-16 39 11.4	4 809
3656	1991 09 04.06875	20 50 34.19	-17 25 11.2	4 809
3656	1991 09 04.08194	20 50 33.71	-17 25 12.6	4 809
3656	1991 09 04.09514	20 50 33.28	-17 25 13.5	4 809
3656	1991 09 06.06389	20 49 39.10	-17 27 58.7	18.0 4 809
3656	1991 09 06.07708	20 49 38.66	-17 27 59.6	4 809
3656	1991 09 06.09028	20 49 38.20	-17 28 00.4	4 809
3676	1991 09 04.11597	21 28 22.69	-17 50 26.5	4 809
3676	1991 09 04.12917	21 28 21.98	-17 50 28.4	4 809
3676	1991 09 04.14236	21 28 21.28	-17 50 29.7	4 809
3676	1991 09 06.10833	21 26 44.37	-17 53 26.6	18.0 4 809
3676	1991 09 06.12153	21 26 43.69	-17 53 27.6	4 809
3676	1991 09 06.13472	21 26 43.00	-17 53 29.1	4 809
3709	1991 03 20.28333	13 08 53.71	-03 50 27.6	16.8 3 809
3709	1991 03 20.29584	13 08 53.43	-03 50 24.4	3 809
3709	1991 03 20.30833	13 08 53.13	-03 50 21.2	3 809
3709	1991 03 21.29584	13 08 29.53	-03 45 40.7	3 809
3709	1991 03 21.30833	13 08 29.23	-03 45 37.1	3 809
3709	1991 03 21.32083	13 08 28.93	-03 45 33.6	3 809

3709	1991 03	24.35416	13 07	14.45	-03 31	06.8		3 809
3709	1991 03	24.36112	13 07	14.28	-03 31	05.2		3 809
3709	1991 03	24.36806	13 07	14.11	-03 31	03.1		3 809
3843	1991 09	04.11597	21 27	27.49	-19 55	44.3		4 809
3843	1991 09	04.12917	21 27	27.01	-19 55	45.6		4 809
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3843	1991 09	06.12153	21 26	20.03	-19 59	13.7		4 809
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3966	1991 03	22.25591	12 50	48.12	-03 17	16.7	16.8	3 809
3966	1991 03	22.26632	12 50	47.68	-03 17	14.4		3 809
3966	1991 03	22.27673	12 50	47.25	-03 17	12.2		3 809
3966	1991 03	23.28021	12 50	04.75	-03 13	28.4		3 809
3966	1991 03	23.29063	12 50	04.31	-03 13	26.1		3 809
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3966	1991 03	26.31528	12 47	53.65	-03 01	58.3		3 809
3966	1991 03	26.32222	12 47	53.34	-03 01	56.7		3 809
3972	1991 09	04.06875	21 00	08.19	-14 41	46.9		4 809
3972	1991 09	04.08194	21 00	07.82	-14 41	51.9		4 809
3972	1991 09	04.09514	21 00	07.49	-14 41	57.6		4 809
3972	1991 09	06.06389	20 59	26.23	-14 54	34.3	17.8	4 809
3972	1991 09	06.07708	20 59	25.85	-14 54	38.8		4 809
3972	1991 09	06.09028	20 59	25.54	-14 54	43.7		4 809
3979	1991 03	10.19236	12 37	34.99	-05 41	36.8	16.8	3 809
3979	1991 03	10.20486	12 37	34.48	-05 41	34.7		3 809
3979	1991 03	10.21736	12 37	33.98	-05 41	32.5		3 809
3979	1991 03	12.25035	12 36	13.69	-05 35	12.9		3 809
3979	1991 03	12.26076	12 36	13.28	-05 35	10.9		3 809
3979	1991 03	12.27118	12 36	12.84	-05 35	09.1		3 809
4007	1991 03	25.28611	12 53	02.16	-07 27	01.5	17.4	3 809
4007	1991 03	25.29306	12 53	01.97	-07 27	01.0		3 809
4007	1991 03	25.30000	12 53	01.75	-07 27	00.2		3 809
4007	1991 03	26.33403	12 52	29.78	-07 25	01.4		3 809
4007	1991 03	26.34653	12 52	29.40	-07 24	59.9		3 809
4007	1991 03	26.35902	12 52	28.99	-07 24	58.4		3 809
4067	1991 09	04.02361	20 32	23.68	-20 37	17.1	18.5	4 809
4067	1991 09	04.03681	20 32	23.00	-20 37	16.4		4 809
4067	1991 09	04.05000	20 32	22.44	-20 37	16.0		4 809
4067	1991 09	07.00972	20 30	41.27	-20 35	00.8		4 809
4067	1991 09	07.02292	20 30	40.70	-20 34	59.9		4 809
4067	1991 09	07.03611	20 30	40.26	-20 34	59.9		4 809
4174	1991 03	13.06076	09 51	32.19	+14 23	57.3	16.5	3 809
4174	1991 03	13.07535	09 51	31.67	+14 24	00.3		3 809
4174	1991 03	13.08993	09 51	31.14	+14 24	03.2		3 809
4174	1991 03	15.10452	09 50	19.50	+14 30	43.6		3 809
4174	1991 03	15.11909	09 50	18.98	+14 30	46.3		3 809
4174	1991 03	15.13368	09 50	18.47	+14 30	49.2		3 809
4235	1991 03	14.18993	10 47	35.98	+07 14	03.7	16.5	3 809
4235	1991 03	14.20035	10 47	35.51	+07 14	06.3		3 809
4235	1991 03	14.21076	10 47	35.06	+07 14	08.9		3 809
4235	1991 03	17.20555	10 45	20.40	+07 26	45.8		3 809
4235	1991 03	17.21806	10 45	19.84	+07 26	48.8		3 809

4235	1991 03	17.23056	10 45	19.29	+07 26	51.9		3 809
4238	1991 03	12.01285	09 33	04.62	+15 02	33.2	16.8	3 809
4238	1991 03	12.02604	09 33	04.16	+15 02	36.0		3 809
4238	1991 03	12.03924	09 33	03.70	+15 02	39.0		3 809
4238	1991 03	14.06632	09 31	52.34	+15 10	13.8		3 809
4238	1991 03	14.08090	09 31	51.82	+15 10	17.1		3 809
4238	1991 03	14.09549	09 31	51.32	+15 10	20.4		3 809
4238	1991 03	16.09757	09 30	48.03	+15 17	09.6		3 809
4238	1991 03	16.11215	09 30	47.59	+15 17	12.8		3 809
4238	1991 03	16.12674	09 30	47.13	+15 17	16.1		3 809
4259	1991 03	20.32638	13 17	46.92	-04 50	18.9	17.4	3 809
4259	1991 03	20.33889	13 17	46.41	-04 50	15.9		3 809
4259	1991 03	20.35139	13 17	45.89	-04 50	13.3		3 809
4259	1991 03	21.33681	13 17	05.85	-04 46	18.5		3 809
4259	1991 03	21.34930	13 17	05.34	-04 46	15.6		3 809
4259	1991 03	21.36180	13 17	04.83	-04 46	12.6		3 809
4259	1991 03	23.31285	13 15	43.26	-04 38	17.3		3 809
4259	1991 03	23.32326	13 15	42.83	-04 38	15.2		3 809
4259	1991 03	23.33368	13 15	42.38	-04 38	12.8		3 809
4264	1991 03	11.19132	11 49	06.41	+00 13	37.0	17.6	3 809
4264	1991 03	11.20174	11 49	05.85	+00 13	41.2		3 809
4264	1991 03	11.21215	11 49	05.32	+00 13	45.3		3 809
4264	1991 03	13.26771	11 47	15.47	+00 27	33.4		3 809
4264	1991 03	13.27812	11 47	14.91	+00 27	37.9		3 809
4264	1991 03	13.28854	11 47	14.35	+00 27	42.3		3 809
4271	1991 03	11.09132	10 31	36.00	+09 25	29.8	16.3	3 809
4271	1991 03	11.10174	10 31	35.54	+09 25	34.1		3 809
4271	1991 03	11.11215	10 31	35.11	+09 25	38.5		3 809
4271	1991 03	13.15868	10 30	10.73	+09 39	53.7		3 809
4271	1991 03	13.16910	10 30	10.31	+09 39	58.1		3 809
4271	1991 03	13.17951	10 30	09.87	+09 40	02.2		3 809
4281	1991 02	25.34375	12 12	41.76	-01 40	02.9	17.0	3 809
4281	1991 02	25.35625	12 12	41.27	-01 40	00.7		3 809
4281	1991 02	25.36875	12 12	40.77	-01 39	58.5		3 809
4286	1991 03	21.21007	11 28	24.68	+06 19	25.3	16.8	3 809
4286	1991 03	21.22049	11 28	24.21	+06 19	28.7		3 809
4286	1991 03	21.23090	11 28	23.74	+06 19	31.6		3 809
4286	1991 03	22.09688	11 27	44.75	+06 24	06.2		3 809
4286	1991 03	22.10729	11 27	44.29	+06 24	09.7		3 809
4286	1991 03	22.11771	11 27	43.82	+06 24	13.2		3 809
4286	1991 03	23.24340	11 26	53.36	+06 30	03.2		3 809
4286	1991 03	23.25381	11 26	52.90	+06 30	06.6		3 809
4286	1991 03	23.26424	11 26	52.43	+06 30	10.0		3 809
4329	1991 03	25.28611	12 55	12.76	-06 34	11.5	17.4	3 809
4329	1991 03	25.29306	12 55	12.34	-06 34	10.2		3 809
4329	1991 03	25.30000	12 55	11.92	-06 34	08.7		3 809
4329	1991 03	26.33403	12 54	08.96	-06 30	29.1		3 809
4329	1991 03	26.34653	12 54	08.22	-06 30	26.4		3 809
4329	1991 03	26.35902	12 54	07.45	-06 30	23.7		3 809
4347	1991 03	04.01875	09 27	42.43	+15 43	12.4	17.0	3 809
4347	1991 03	04.02847	09 27	42.05	+15 43	14.5		3 809
4347	1991 03	04.03819	09 27	41.66	+15 43	16.4		3 809
4347	1991 03	06.01667	09 26	22.87	+15 49	27.8		3 809
4347	1991 03	06.02917	09 26	22.40	+15 49	30.2		3 809
4347	1991 03	06.04166	09 26	21.93	+15 49	32.6		3 809
4347	1991 03	09.06702	09 24	29.23	+15 58	15.6		3 809
4347	1991 03	09.08160	09 24	28.69	+15 58	18.0		3 809
4347	1991 03	09.09618	09 24	28.14	+15 58	20.5		3 809
4380	1991 03	12.20521	11 44	22.97	-00 51	04.5	16.7	3 809

4380	1991 03	12.21562	11 44	22.44	-00 51	02.8		3 809
4380	1991 03	12.22604	11 44	21.94	-00 51	01.2		3 809
4380	1991 03	14.30590	11 42	37.82	-00 45	35.0		3 809
4380	1991 03	14.31632	11 42	37.32	-00 45	33.1		3 809
4380	1991 03	14.32674	11 42	36.79	-00 45	31.7		3 809
4380	1991 03	17.31736	11 40	06.60	-00 37	29.6		3 809
4380	1991 03	17.32987	11 40	05.98	-00 37	28.0		3 809
4380	1991 03	17.34236	11 40	05.34	-00 37	26.3		3 809
4413	1991 03	07.01701	09 17	12.38	+12 22	07.0	17.6	3 809
4413	1991 03	07.03021	09 17	11.87	+12 22	10.7		3 809
4413	1991 03	07.04340	09 17	11.35	+12 22	14.3		3 809
4413	1991 03	09.02049	09 15	54.69	+12 30	44.0		3 809
4413	1991 03	09.03507	09 15	54.12	+12 30	47.8		3 809
4413	1991 03	09.04965	09 15	53.59	+12 30	51.6		3 809
4473	1991 03	07.01701	09 16	36.22	+14 07	42.7	17.7	3 809
4473	1991 03	07.03021	09 16	35.71	+14 07	43.0		3 809
4473	1991 03	07.04340	09 16	35.20	+14 07	43.4		3 809
4473	1991 03	09.02049	09 15	19.74	+14 08	33.2		3 809
4473	1991 03	09.03507	09 15	19.18	+14 08	33.8		3 809
4473	1991 03	09.04965	09 15	18.63	+14 08	34.2		3 809
4474	1991 03	12.28368	12 26	09.44	-00 23	13.8	17.4	3 809
4474	1991 03	12.29410	12 26	09.03	-00 23	10.7		3 809
4474	1991 03	12.30451	12 26	08.61	-00 23	08.0		3 809
4474	1991 03	14.34062	12 24	48.23	-00 13	13.7		3 809
4474	1991 03	14.35104	12 24	47.81	-00 13	10.9		3 809
4474	1991 03	14.36146	12 24	47.40	-00 13	07.9		3 809
4491	1991 09	04.06875	20 56	57.37	-15 50	47.6		4 809
4491	1991 09	04.08194	20 56	56.71	-15 50	48.7		4 809
4491	1991 09	04.09514	20 56	56.20	-15 50	49.6		4 809
4491	1991 09	06.06389	20 55	38.02	-15 52	42.8	18.2	4 809
4491	1991 09	06.07708	20 55	37.38	-15 52	42.5		4 809
4491	1991 09	06.09028	20 55	36.89	-15 52	43.4		4 809
4494	1991 09	04.06875	20 51	43.01	-15 45	31.1		4 809
4494	1991 09	04.08194	20 51	42.46	-15 45	32.7		4 809
4494	1991 09	04.09514	20 51	41.95	-15 45	34.5		4 809
4494	1991 09	06.06389	20 50	25.66	-15 50	04.5	18.6	4 809
4494	1991 09	06.07708	20 50	25.08	-15 50	05.4		4 809
4494	1991 09	06.09028	20 50	24.53	-15 50	07.2		4 809
4519	1991 03	20.28333	13 01	25.91	-03 54	05.9	17.1	3 809
4519	1991 03	20.29584	13 01	25.29	-03 54	00.5		3 809
4519	1991 03	20.30833	13 01	24.66	-03 53	55.0		3 809
4519	1991 03	24.32188	12 57	58.91	-03 24	46.1		3 809
4519	1991 03	24.33090	12 57	58.43	-03 24	42.2		3 809
4519	1991 03	24.33994	12 57	57.96	-03 24	38.4		3 809
4519	1991 03	25.33194	12 57	04.87	-03 17	14.0		3 809
4519	1991 03	25.33889	12 57	04.49	-03 17	10.9		3 809
4519	1991 03	25.34583	12 57	04.12	-03 17	07.9		3 809
4768	1991 03	07.05937	09 28	08.74	+11 36	54.2	17.1	3 809
4768	1991 03	07.07257	09 28	08.18	+11 36	54.6		3 809
4768	1991 03	07.08542	09 28	07.65	+11 36	55.1		3 809
4768	1991 03	09.11354	09 26	43.83	+11 37	59.4		3 809
4768	1991 03	09.12813	09 26	43.23	+11 37	59.8		3 809
4768	1991 03	09.14271	09 26	42.61	+11 38	00.2		3 809
4799	1991 03	08.09167	08 31	53.89	+17 59	04.8	17.5	3 809
4799	1991 03	08.11112	08 31	53.22	+17 59	09.5		3 809
4799	1991 03	08.12986	08 31	52.59	+17 59	14.0		3 809
4807	1991 03	17.24548	11 03	56.07	+05 41	55.2	16.8	3 809
4807	1991 03	17.25591	11 03	55.49	+05 41	58.4		3 809
4807	1991 03	17.26632	11 03	54.92	+05 42	01.9		3 809

4807	1991 03	17.27744	11 03	54.29	+05 42	05.8		3 809
4807	1991 03	17.28785	11 03	53.71	+05 42	09.3		3 809
4807	1991 03	17.29826	11 03	53.14	+05 42	12.8		3 809
4807	1991 03	20.16216	11 01	16.15	+05 57	58.9		3 809
4807	1991 03	20.17257	11 01	15.59	+05 58	02.5		3 809
4807	1991 03	20.18298	11 01	15.04	+05 58	06.0		3 809
4807	1991 03	21.15173	11 00	23.72	+06 03	15.0		3 809
4807	1991 03	21.16216	11 00	23.17	+06 03	18.3		3 809
4807	1991 03	21.17257	11 00	22.61	+06 03	21.6		3 809
4817	1991 03	14.02118	09 26	09.23	+14 26	44.7	17.4	3 809
4817	1991 03	14.03577	09 26	08.83	+14 26	47.7		3 809
4817	1991 03	14.05035	09 26	08.43	+14 26	50.6		3 809
4817	1991 03	16.09757	09 25	11.46	+14 33	54.8		3 809
4817	1991 03	16.11215	09 25	11.05	+14 33	57.6		3 809
4817	1991 03	16.12674	09 25	10.65	+14 34	00.7		3 809
4818	1991 03	24.32188	12 55	32.17	-04 08	38.3	16.8	3 809
4818	1991 03	24.33090	12 55	31.72	-04 08	34.4		3 809
4818	1991 03	24.33994	12 55	31.27	-04 08	30.7		3 809
4818	1991 03	25.33194	12 54	42.12	-04 01	22.5		3 809
4818	1991 03	25.33889	12 54	41.77	-04 01	19.3		3 809
4818	1991 03	25.34583	12 54	41.44	-04 01	16.5		3 809
4819	1991 03	13.06076	09 45	28.95	+14 59	28.7	17.5	3 809
4819	1991 03	13.07535	09 45	28.24	+14 59	29.2		3 809
4819	1991 03	13.08993	09 45	27.50	+14 59	29.9		3 809
4819	1991 03	14.12048	09 44	37.18	+15 00	07.0		3 809
4819	1991 03	14.13091	09 44	36.64	+15 00	07.5		3 809
4819	1991 03	14.14132	09 44	36.13	+15 00	07.9		3 809
4819	1991 03	15.05868	09 43	53.15	+15 00	35.2		3 809
4819	1991 03	15.07327	09 43	52.45	+15 00	35.8		3 809
4819	1991 03	15.08784	09 43	51.75	+15 00	36.0		3 809
4819	1991 03	17.11979	09 42	21.62	+15 01	08.0	17.4	3 809
4819	1991 03	17.13438	09 42	21.04	+15 01	07.2		3 809
4819	1991 03	17.14896	09 42	20.45	+15 01	06.4		3 809
4823	1991 03	20.16216	11 05	50.96	+05 10	27.4		3 809
4823	1991 03	20.17257	11 05	50.29	+05 10	31.2		3 809
4823	1991 03	20.18298	11 05	49.60	+05 10	34.8		3 809
4823	1991 03	21.15173	11 04	53.77	+05 15	58.7		3 809
4823	1991 03	21.16216	11 04	53.15	+05 16	02.0		3 809
4823	1991 03	21.17257	11 04	52.53	+05 16	05.6		3 809
4823	1991 03	22.05937	11 04	02.19	+05 20	55.7		3 809
4823	1991 03	22.06979	11 04	01.60	+05 20	59.1		3 809
4823	1991 03	22.08021	11 04	01.03	+05 21	02.3		3 809
4847	1991 03	20.24375	13 05	51.01	-05 24	27.1	17.0	3 809
4847	1991 03	20.25625	13 05	50.44	-05 24	22.8		3 809
4847	1991 03	20.26875	13 05	49.85	-05 24	18.7		3 809
4847	1991 03	21.25694	13 05	04.13	-05 18	57.4		3 809
4847	1991 03	21.26944	13 05	03.55	-05 18	53.3		3 809
4847	1991 03	21.28194	13 05	02.98	-05 18	49.2		3 809
4891	1991 09	04.02361	20 37	26.40	-19 45	10.6	18.8	4 809
4891	1991 09	04.03681	20 37	25.96	-19 45	11.3		4 809
4891	1991 09	04.05000	20 37	25.59	-19 45	11.9		4 809
4891	1991 09	07.00972	20 36	07.50	-19 47	26.7		4 809
4891	1991 09	07.02292	20 36	07.13	-19 47	27.4		4 809
4891	1991 09	07.03611	20 36	06.82	-19 47	27.7		4 809
4916	1991 09	04.06875	20 49	05.63	-15 31	57.4		4 809
4916	1991 09	04.08194	20 49	05.17	-15 32	01.1		4 809
4916	1991 09	04.09514	20 49	04.76	-15 32	06.5		4 809
4916	1991 09	06.06389	20 48	07.20	-15 42	44.5	18.5	4 809

4916	1991 09 06.07708	20 48 06.67	-15 42 48.6	4 809
4916	1991 09 06.09028	20 48 06.28	-15 42 52.1	4 809
4941	1991 09 04.11597	21 19 09.36	-16 25 52.5	4 809
4941	1991 09 04.12917	21 19 08.79	-16 25 55.5	4 809
4941	1991 09 04.14236	21 19 08.27	-16 25 58.1	4 809
4941	1991 09 06.10833	21 17 55.90	-16 32 31.5	18.2 4 809
4941	1991 09 06.12153	21 17 55.38	-16 32 33.7	4 809
4941	1991 09 06.13472	21 17 54.84	-16 32 35.6	4 809
4960	1991 09 04.06875	20 54 47.41	-17 55 20.4	4 809
4960	1991 09 04.08194	20 54 46.86	-17 55 22.4	4 809
4960	1991 09 04.09514	20 54 46.37	-17 55 24.6	4 809
4960	1991 09 06.06389	20 53 42.90	-18 00 05.4	18.6 4 809
4960	1991 09 06.07708	20 53 42.42	-18 00 06.7	4 809
4960	1991 09 06.09028	20 53 41.99	-18 00 08.0	4 809

877 Okutama

S. Hayakawa, 1-31-33, Nagano, Gyoda-Shi, Saitama-Ken, 361 Japan

Observer T. Hioki

Measurers S. Hayakawa, T. Hioki

0.30-m f/3.8 hyperboloid astrocamera

AGK3, SAOC, GSC

1991 TW *	1991 10 02.59618	01 15 59.40	+15 46 12.7	16.0	877
1991 TW	1991 10 03.70799	01 14 59.34	+15 46 09.4		877
1991 TW1 *	1991 10 13.65313	01 54 44.19	+06 54 46.9	16.5	877
1991 TW1	1991 10 13.67049	01 54 43.21	+06 54 44.0		877
1991 TW1	1991 10 15.70903	01 52 56.52	+06 50 21.1	16.5	877
1991 TW1	1991 10 15.72760	01 52 55.65	+06 50 20.8		877
1991 TX1 *	1991 10 13.68750	02 05 06.80	+21 45 22.5	16.0	877
1991 TX1	1991 10 13.72465	02 05 04.67	+21 45 07.7		877
1991 TX1	1991 10 15.74757	02 03 14.41	+21 30 19.8	16.0	877
1991 TX1	1991 10 15.76493	02 03 13.51	+21 30 11.2		877
1991 TG2 *	1991 10 13.65313	01 47 46.78	+05 45 56.3	16.0	877
1991 TG2	1991 10 13.67049	01 47 45.89	+05 45 53.7		877
1991 TG2	1991 10 15.70903	01 46 02.67	+05 47 30.3	17.0	877
1991 TG2	1991 10 15.72760	01 46 01.77	+05 47 31.0		877

881 Toyota

T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan

Observers K. Suzuki, T. Urata

Measurer T. Urata

0.31-m f/5.7 reflector

ACRS, GSC

1986 VG	1991 10 03.61944	00 51 58.24	+11 41 22.0	16	881
1986 VG	1991 10 03.64340	00 51 57.01	+11 41 19.9		881
1987 UJ	1991 10 03.58264	00 34 16.95	+06 29 35.8	17	881
1987 UJ	1991 10 03.60000	00 34 16.06	+06 29 30.3		881
1990 WD12*	1990 11 21.68854	05 52 56.80	+26 08 57.7	15.5	881
1990 WD12	1990 11 21.71215	05 52 56.25	+26 09 09.7		881
1990 YJ1 *	1990 12 18.51528	03 57 02.2	+17 06 02	17	F 881
1990 YJ1	1990 12 18.54306	03 57 00.3	+17 05 50		F 881
1991 RB5	1991 10 13.57813	00 41 23.8	+10 25 46	16	p 881
1991 RB5	1991 10 15.65104	00 39 22.86	+10 20 22.9	16.5	881
1991 RB5	1991 10 15.67326	00 39 21.57	+10 20 18.5		881
1991 TP1 *	1991 10 03.61944	00 51 21.6	+11 16 08	16	p 881
1991 TP1	1991 10 03.64340	00 51 20.30	+11 15 58.5		881
1991 TP1	1991 10 13.55451	00 42 33.30	+09 48 01.9	16	881
1991 TP1	1991 10 13.56632	00 42 32.53	+09 47 53.6		881
1991 TP1	1991 10 15.65104	00 40 49.98	+09 29 17.7	16.3	p 881

885 JCPM Yakiimo Station

T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan

Observers A. Natori, T. Urata

Measurer T. Urata

0.20-m f/4.0 hyperboloid astrocamera

GSC

1991 RN	1991 09 11.60278	00 09 22.69	+09 06 38.7	15.5	885
1991 RN	1991 09 11.61007	00 09 22.20	+09 06 39.3		885
1991 RN	1991 09 28.46701	23 53 14.70	+08 45 52.8	15.5	885
1991 RN	1991 09 28.48160	23 53 13.87	+08 45 51.3		885

886 Susono

T. Furuta, 17-2 Mitsuike, Kagiya, Tokai 477, Japan

Observers M. Akiyama, T. Furuta

Measurer T. Furuta

0.25-m f/4.2 Wright-Schmidt camera

AGK3, SAOC

1990 OT5 *	1990 07 19.66007	20 11 11.26	-21 33 07.3	14.5	886
1990 OT5	1990 07 19.67101	20 11 10.53	-21 33 07.3		886
1990 UV10*	1990 10 24.66007	01 49 46.6	+11 20 40	16.0	886
1990 UV10	1990 10 24.67292	01 49 46.1	+11 20 32		886

887 Ojima

T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan

Observers T. Niijima, T. Urata

Measurer T. Urata

0.30-m f/5.8 reflector

ACRS, GSC

1991 RC4	1991 10 13.62049	00 26 00.6	+06 03 12	16.5	F 887
1991 RC4	1991 10 13.63009	00 26 00.2	+06 03 11		F 887
4896	1991 10 13.57465	23 34 12.31	+24 31 15.0	15.5	887
4896	1991 10 13.58368	23 34 12.04	+24 31 09.9		887

889 Karasuyama

T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan

Observers S. Inoda, T. Urata

Measurer T. Urata

0.31-m f/5.6 reflector

ACRS, GSC

1990 VY12*	1990 11 10.63767	02 16 50.6	+05 33 29	16.5	r 889
1990 VY12	1990 11 10.65868	02 16 49.3	+05 33 29		r 889
1990 WM12*	1990 11 23.63229	04 57 33.0	+18 06 55	16.5	p 889
1990 WM12	1990 11 23.66563	04 57 30.6	+18 06 52		p 889
1991 AB	1991 02 19.55556	07 52 47.1	+21 12 55	17	889

894 Otomo

S. Otomo, Kiyosato 3545-3902, Takane-cho, Kitakoma-gun, Yamanashi-ken,
407-03, Japan

Observer S. Otomo

Measurer S. Otomo

0.25-m f/3.4 reflector

PPM

1980 TB12	1991 10 13.60104	00 23 14.21	+09 50 08.5	16.9	894
1980 TB12	1991 10 13.61563	00 23 13.72	+09 50 02.3		894
1987 UJ	1991 10 01.72465	00 35 55.25	+06 37 21.8		894
1987 UJ	1991 10 01.73785	00 35 54.53	+06 37 19.9		894
1987 VC1	1991 10 15.74688	01 46 20.86	+10 16 43.5		894
1987 VC1	1991 10 15.76979	01 46 19.51	+10 16 40.2		894
1988 EB	1991 10 18.75226	02 17 22.57	+12 50 35.7		894

1988 EB	1991 10	18.77917	02 17	21.10	+12 50	33.3		894
1991 QC	1991 09	28.50799	22 02	38.04	-06 15	56.4		894
1991 QC	1991 09	28.53021	22 02	37.45	-06 16	04.1		894
1991 QD	1991 09	28.49549	22 08	12.17	-02 33	27.6		894
1991 QD	1991 09	28.51910	22 08	11.51	-02 33	29.2		894
1991 QG	1991 10	02.52639	22 06	38.67	-04 07	26.9		894
1991 QG	1991 10	02.55417	22 06	39.06	-04 07	41.9		894
1991 RK2	1991 10	02.58264	23 04	02.85	-12 49	03.3		894
1991 RK2	1991 10	02.61215	23 04	01.83	-12 49	14.5		894
1991 SA	1991 10	01.77436	00 29	16.10	+16 11	06.2	16.5	894
1991 SA	1991 10	28.58004	00 12	30.25	+12 26	44.6		894
1991 SA	1991 10	28.62046	00 12	29.62	+12 26	24.3		894
1991 SF1	1991 10	02.59757	00 09	24.68	+07 51	28.6		894
1991 SF1	1991 10	13.55666	00 01	59.50	+05 27	39.5		894
1991 SF1	1991 10	13.57049	00 01	58.92	+05 27	28.9		894
1991 SR1 *	1991 09	19.63472	00 38	26.60	+13 43	39.4	16.5	894
1991 SR1	1991 09	19.64896	00 38	26.00	+13 43	32.4		894
1991 SR1	1991 10	13.60104	00 22	50.42	+08 50	53.2	16.5	894
1991 SR1	1991 10	13.61563	00 22	49.83	+08 50	43.8		894
1991 SR1	1991 10	15.60732	00 21	40.21	+08 24	41.8		894
1991 SR1	1991 10	18.72604	00 19	58.82	+07 44	27.3		894
1991 SR1	1991 10	18.73750	00 19	58.50	+07 44	19.7		894
1991 SR1	1991 10	28.59913	00 15	58.54	+05 45	28.2		894
1991 SR1	1991 10	28.63831	00 15	57.69	+05 45	04.7		894
1991 TU1 *	1991 10	13.60104	00 23	57.51	+10 46	41.3	16.7	894
1991 TU1	1991 10	13.61563	00 23	56.78	+10 46	37.9		894
1991 TU1	1991 10	15.60732	00 22	08.89	+10 36	42.3		894
1991 TV1 *	1991 10	13.76531	02 24	15.54	+05 44	45.8	16.0	894
1991 TV1	1991 10	13.79173	02 24	14.16	+05 44	49.7		894
1991 TV1	1991 10	15.68929	02 22	44.18	+05 52	08.1		894
1991 TV1	1991 10	15.71875	02 22	42.67	+05 52	15.1		894
1991 TV1	1991 10	28.66360	02 10	52.73	+06 48	50.2		894
1991 TV1	1991 10	28.68338	02 10	51.54	+06 48	55.9		894
1991 UZ *	1991 10	18.79323	02 43	00.14	+07 49	42.2	16.0	894
1991 UZ	1991 10	18.80833	02 42	59.50	+07 49	34.9		894
1991 UZ	1991 10	19.73351	02 42	22.29	+07 42	42.0		894
1991 UZ	1991 10	28.67465	02 35	41.16	+06 37	28.2		894
1991 UZ	1991 10	28.71493	02 35	39.16	+06 37	10.9		894
395	1991 10	28.59913	00 15	01.42	+06 28	10.6		894
395	1991 10	28.63831	00 15	00.21	+06 27	58.0		894
871	1991 10	15.78093	02 37	24.14	+09 22	52.4		894
871	1991 10	15.80556	02 37	22.77	+09 22	42.2		894
975	1991 10	15.74688	01 48	24.11	+10 16	28.6		894
975	1991 10	15.76979	01 48	22.86	+10 16	23.7		894
1044	1991 10	02.58264	23 02	49.99	-13 06	54.2		894
1044	1991 10	02.61215	23 02	48.79	-13 06	57.7		894
1073	1991 10	15.74688	01 45	23.52	+10 15	49.2		894
1073	1991 10	15.76979	01 45	22.34	+10 15	42.7		894
2299	1991 10	15.78093	02 36	58.40	+08 52	22.8		894
2299	1991 10	15.80556	02 36	57.34	+08 52	11.6		894

896 Yatsugatake South Base Observatory

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Observers Y. Kushida, O. Muramatsu

Measurer O. Muramatsu

0.20-m f/4.0 reflector

PPM

1991 TE2 *	1991 10	02.58750	01 22	24.87	+02 08	07.5	16.5	896
1991 TE2	1991 10	02.62292	01 22	22.94	+02 07	53.5		896

1991 TE2	1991 10	13.61941	01 12	33.97	+01 06	10.9		W 896
1991 TE2	1991 10	13.64823	01 12	32.32	+01 06	05.9		W 896
1991 TE2	1991 10	15.69236	01 10	38.47	+00 55	31.2		W 896
1991 TE2	1991 10	15.71667	01 10	37.06	+00 55	23.8		W 896
1991 TE2	1991 10	18.70972	01 07	52.18	+00 40	49.7		896
2602	1991 10	13.61941	01 10	19.62	+01 13	48.0	16.5	W 896
2602	1991 10	13.64823	01 10	18.13	+01 13	36.8		W 896

898 Fujieda

M. Kizawa, 1458-10, Minami Numagami, Shizuoka-Ken 420, Japan

Observers H. Shiozawa, M. Kizawa

Measurer M. Kizawa

0.20-m f/4.0 hyperboloid astro-camera, 0.20-m f/4.9 reflector

1990 UX10*	1990 10	26.54979	03 17	54.99	+20 11	28.0	16.5	V 898
1990 UX10	1990 10	26.56054	03 17	54.52	+20 11	27.9		V 898
1990 UX10	1990 10	26.57120	03 17	53.69	+20 11	22.9		V 898
1990 VD13*	1990 11	11.63009	04 10	39.71	+22 49	35.6	16.5	898
1990 VD13	1990 11	11.65166	04 10	38.46	+22 49	42.1		898
1990 WJ12*	1990 11	22.51731	03 58	54.88	+21 26	54.2	16.5	898
1990 WJ12	1990 11	22.55134	03 58	52.67	+21 26	56.2		898
1991 EJ5	1991 02	20.70119	11 10	39.92	+06 52	17.2	17	898
1991 EJ5	1991 02	20.72250	11 10	38.72	+06 52	19.7		898

* * * * *

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The name of the orbit computer is shown on the line giving T for a comet and Epoch for a displayed minor-planet orbit; for many of the minor planets (O-C) residuals are shown in full (in R.A. and Decl.); observations are identified by date and observatory code, X referring to an approximate and Y to a semiaccurate position. For displayed minor planets "Id." shows those involved in establishing the identifications (generally with the principal contributors first), "k" indicating key identifications and "d" (only) double (or multiple) designations; no identifier is shown if only the orbit

computer is involved and the results were not previously published. J-P indicates that only the perturbations by the outer planets were considered, and a and n are then related by a gravitational constant augmented by the masses of the inner planets. For the one-opposition orbits, equinox 1950.0 is used, and the columns headed Arc and O show the time span in days covered by the observations and the number of observations utilized in the computation (0 = 10 or more). In the note column N, D means that there are double (or multiple) designations, E means that the value of the eccentricity was assumed, F means both; the double designations are listed at the end; the codes for the orbit computers (column C) are as listed above.

Periodic Comet Peters-Hartley (1990d)

Epoch 1990 July 8.0 ET = JDE 2448080.5

T 1990 June 23.64219 ET

		(1950.0)	P	Nakano
q	1.6257813			Q
n	0.12121965	Peri. 338.31707	-0.48605543	+0.72431166
a	4.0434682	Node 259.39413	-0.71070366	-0.65322701
e	0.5979240	Incl. 29.83479	-0.50857686	+0.22060621
P	8.13			

From 27 observations 1982-1990, mean residual 1".13.

Periodic Comet Mueller 3 (1990l)

Epoch 1990 Aug. 17.0 ET = JDE 2448120.5

T 1990 Aug. 1.92712 ET

		(1950.0)	P	Nakano
q	2.9981142			Q
n	0.11398314	Peri. 226.01032	+0.99170126	-0.06466677
a	4.2128465	Node 137.33177	+0.09384917	+0.95484253
e	0.2883400	Incl. 9.43614	-0.08786889	+0.28998956
P	8.65			

From 19 observations 1991 Sept. 17-Dec. 15, mean residual 0".99.

Periodic Comet Shoemaker-Levy 1 (1990o)

Epoch 1990 Sept. 26.0 ET = JDE 2448160.5

T 1990 Sept. 18.58678 ET

		(1950.0)	P	Nakano
q	1.5239936			Q
n	0.05711403	Peri. 310.60473	+0.94675375	+0.01088029
a	6.6779146	Node 51.35870	+0.19450253	+0.77710734
e	0.7717860	Incl. 24.32841	-0.25656597	+0.62927403
P	17.26			

From 34 observations 1990 Oct. 24-1991 Jan. 18, mean residual 0".90.

Periodic Comet Holt-Olmstead (1990k)

Epoch 1990 Sept. 26.0 ET = JDE 2448160.5

T 1990 Oct. 4.52125 ET

		(1950.0)	P	Nakano
q	2.0433285			Q
n	0.15988544	Peri. 2.58792	+0.95555754	-0.28757381
a	3.3619927	Node 14.63214	+0.26564022	+0.74444706
e	0.3922270	Incl. 14.88546	+0.12784781	+0.60257769
P	6.16			

From 39 observations 1990 Sept. 14-Dec. 14, mean residual 0".78.

Comet McNaught-Hughes (1991w)

T 1990 Nov. 18.39432 ET

		(1950.0)	P	Marsden
q	7.0018075			Q
		Peri. 149.73399	+0.80788988	+0.32355710
		Node 149.41192	-0.49741213	-0.07388034
e	1.0	Incl. 104.53785	+0.31606190	-0.94331993

From 16 observations 1991 Sept. 3-Oct. 11.

Periodic Comet Mueller 2 (1990j)

Epoch 1990 Nov. 5.0 ET = JDE 2448200.5

T 1990 Nov. 19.88862 ET

				Nakano	
q		(1950.0)	P	Q	
n	0.15019849	Peri.	171.05980	+0.87235807	-0.48291881
a	3.5050348	Node	218.12065	+0.44054569	+0.84398455
e	0.4057140	Incl.	7.07476	+0.21192192	+0.23340846
P	6.56				

From 45 observations 1990 Sept. 15-1991 Feb. 9, mean residual 0".96.

Periodic Comet Spacewatch (1991x)

T 1990 Dec. 22.27205 ET

				Marsden	
q		(1950.0)	P	Q	
n	0.17644361	Peri.	87.09671	-0.49532542	+0.86507075
a	3.1482225	Node	152.75396	-0.84990137	-0.46365699
e	0.5105793	Incl.	9.98828	-0.17977874	-0.19150662
P	5.59				

From 29 observations 1991 Sept. 8-Oct. 15.

Periodic Comet McNaught-Hughes (1991y)

T 1991 June 13.81875 ET

				Marsden	
q		(1950.0)	P	Q	
n	0.14721256	Peri.	223.16348	+0.67295350	+0.72868356
a	3.5522715	Node	89.56317	-0.63931459	+0.65941062
e	0.4040465	Incl.	7.30213	-0.37203553	+0.18492674
P	6.70				

From 14 observations 1991 Sept. 30-Oct. 13.

Periodic Comet Levy (1991q)

Epoch 1991 July 3.0 ET = JDE 2448440.5

T 1991 July 8.19255 ET

				Nakano	
q		(1950.0)	P	Q	
n	0.01922811	Peri.	41.47637	+0.96510183	-0.19867410
a	13.7989155	Node	328.72289	+0.04701586	+0.77235380
e	0.9287979	Incl.	19.18454	+0.25761981	+0.60332265
P	51.26				

From 67 observations 1991 June 15-Oct. 18, mean residual 0".92.

Periodic Comet Shoemaker-Levy 5 (1991z)

T 1991 Dec. 13.11590 ET

				Marsden	
q		(1950.0)	P	Q	
n	0.11382444	Peri.	5.98088	+0.82040854	-0.56319138
a	4.2167615	Node	28.99932	+0.51576684	+0.65440353
e	0.5294338	Incl.	11.74914	+0.24680841	+0.50455078
P	8.66				

From 23 observations 1991 Sept. 12-Oct. 17.

Comet Shoemaker-Levy (1991a1)

T 1992 July 23.75579 ET

				Marsden	
q		(1950.0)	P	Q	
		Peri.	145.41570	-0.37961145	-0.62148611
		Node	48.29482	-0.90866465	+0.11126850
e	1.0	Incl.	113.37394	+0.17384965	-0.77548329

From 20 observations 1991 Oct. 6-29.

One-opposition minor planets

Planet	H	Epoch	M	Peri.	Node	Incl.	e	a	Arc	O	N	C
1971 FD	12.0	710310	193.32	345.88	4.17	13.07	0.0470	3.9527	3 5	E	W	
1990 DM2	12.0	900218	252.39	326.76	292.19	2.72	0.0250	2.7589	22 3		W	
1990 KX	13.0	900509	329.26	175.31	103.45	5.61	0.1558	2.2357	11 0		W	
1990 KZ	11.0	900509	278.29	232.06	126.04	14.91	0.3223	2.7881	4 7		W	
1990 QW17	13.5	900906	346.68	70.70	288.15	4.66	0.2112	2.2637	28 6		W	
1990 RG2	13.0	900926	6.24	162.82	185.55	10.65	0.2342	3.1487	53 0		W	
1990 RR2	13.0	900906	351.46	173.20	192.98	6.66	0.1368	2.4585	47 0		W	
1990 RS2	14.0	900926	341.07	94.94	292.95	2.00	0.1457	2.2394	30 0		W	
1990 RN3	13.5	900926	62.56	94.21	179.54	5.49	0.2025	2.3788	53 8		W	
1990 RF5	14.0	900906	6.01	125.71	216.21	4.53	0.1939	2.2879	24 0		W	
1990 RK5	13.5	900906	14.25	120.06	207.50	4.72	0.2657	2.8631	24 0		W	
1990 RM5	14.5	900926	18.55	309.71	22.05	0.68	0.2373	2.3307	30 0		W	
1990 RR5	14.5	900926	345.07	174.91	209.60	1.66	0.1447	2.2569	30 7		W	
1990 RV5	13.5	900906	49.99	285.41	344.17	4.90	0.1684	2.3307	17 0		W	
1990 RE6	13.0	900906	110.11	53.26	160.19	3.69	0.1298	2.3692	20 0		W	
1990 RS6	14.7	900906	130.05	219.48	348.65	5.90	0.0522	2.3759	19 0	D	N	
1990 RM9	14.0	900906	353.93	104.30	244.83	5.37	0.2620	2.4063	22 8		W	
1990 RN9	13.0	900906	337.53	71.56	304.71	10.98	0.2458	2.6517	28 0		W	
1990 RQ9	14.0	900906	355.66	135.19	208.25	5.82	0.1965	2.2901	24 9		W	
1990 RN17	11.5	900926	35.97	29.03	294.82	6.78	0.1866	3.2184	38 3		W	
1990 ST10	13.0	900906	314.85	74.07	343.41	13.63	0.1863	2.5854	21 0		W	
1990 SX10	14.0	900906	11.07	33.55	310.36	5.82	0.0795	2.3165	43 0		W	
1990 SM14	13.0	900926	27.24	191.47	143.23	4.44	0.1667	2.3693	7 0		W	
1990 SA15	13.5	900906	309.16	157.27	252.46	4.57	0.1062	2.2819	8 8		W	
1990 SV15	12.5	900906	284.58	193.31	224.18	3.36	0.0427	2.7344	24 8		W	
1990 SK28	13.0	900926	7.24	19.35	346.28	2.51	0.1538	2.5236	22 4		W	
1990 SL28	12.5	900926	37.69	359.65	320.12	1.24	0.2267	2.6709	22 4		W	
1990 SN28	13.5	900926	40.35	321.09	359.36	2.16	0.1786	2.3093	22 4		W	
1990 TL6	14.5	900926	358.84	49.49	306.08	3.71	0.1749	2.1694	30 0		W	
1990 TX8	14.5	900926	1.08	353.66	19.36	3.19	0.2494	2.6700	21 0		W	
1990 TK10	13.5	900926	12.91	128.51	227.27	4.70	0.2069	2.6938	5 8		W	
1990 TL10	12.0	900926	263.98	273.13	209.21	21.49	0.0641	3.2052	5 7	E	W	
1990 TJ15	12.5	901016	8.73	67.61	307.29	8.09	0.1749	2.7755	32 6		W	
1990 TK15	13.0	901016	3.39	39.94	341.79	6.29	0.1274	2.3688	32 6		W	
1990 UZ	11.5	901016	41.96	259.39	85.69	11.35	0.1173	3.0177	30 0		W	
1990 UB1	12.0	901105	359.29	14.34	32.40	14.70	0.1443	3.1501	40 0		W	
1990 UF1	13.5	901016	39.32	285.95	58.22	4.46	0.1506	2.2219	35 0		W	
1990 UL2	13.5	901105	354.19	352.15	62.47	5.41	0.1289	2.2066	31 0		W	
1990 UQ2	13.0	901105	25.75	325.27	43.29	8.47	0.2241	2.3919	66 0		W	
1990 UQ11	11.0	901105	121.48	221.43	60.38	9.90	0.0816	3.1328	38 7		W	
1990 UN13	12.5	901105	19.97	322.09	62.27	4.97	0.1208	2.7897	26 7		W	
1990 VM	12.5	901016	4.55	274.06	115.30	8.73	0.1596	3.1705	24 0		W	
1990 VW2	14.0	901105	32.09	147.68	212.53	2.79	0.1906	2.2956	11 0		W	
1990 VU3	13.0	901105	332.44	300.33	144.55	1.30	0.1391	2.9727	12 8		W	
1990 VE12	13.5	901125	224.47	11.31	196.81	8.28	0.1722	2.3865	7 8	F	N	
1990 VB15	13.5	901105	27.75	267.01	104.49	3.82	0.1399	2.2184	8 6		W	
1990 VC15	12.5	901105	2.67	230.09	176.15	3.66	0.0911	2.7081	8 6		W	
1991 AB	11.5	910124	62.83	269.40	127.53	12.33	0.1984	2.6707	43 0		U	
1991 CN	13.5	910213	342.68	162.64	0.74	3.98	0.0733	2.2740	57 0		W	
1991 CG1	13.0	910213	16.26	131.89	346.34	4.59	0.1986	2.5546	53 0		W	
1991 CU2	13.5	910213	337.68	179.14	7.34	2.44	0.1408	2.3991	34 0		W	
1991 CX2	13.0	910213	243.32	111.90	165.12	5.80	0.1546	2.1935	30 0		W	
1991 CC3	13.5	910213	309.64	35.26	179.70	4.46	0.1092	2.7366	30 0		W	
1991 DM	15.0	910213	356.90	23.98	132.98	1.35	0.1474	2.3700	20 9		W	
1991 EQ1	12.5	910305	332.65	192.64	3.76	5.38	0.0132	2.7794	11 7		W	
1991 ES1	12.0	910305	74.79	265.30	164.97	14.09	0.1788	2.6404	18 0		W	
1991 ED2	13.5	910305	26.24	319.89	161.05	4.99	0.0927	2.2774	5 9		W	

1991	EE2	13.0	910305	321.98	233.62	334.25	9.63	0.1034	3.0343	5 0	E W
1991	EF2	14.0	910305	327.65	23.94	175.78	5.14	0.0792	2.1882	6 0	W
1991	EH2	14.5	910305	330.30	217.40	342.08	3.69	0.1257	2.3534	5 9	W
1991	EJ2	15.5	910305	330.03	234.84	334.57	2.60	0.2330	2.2274	4 9	W
1991	EN2	12.0	910305	114.11	188.22	207.28	1.40	0.0949	2.9317	7 0	W
1991	EO2	13.5	910305	356.65	208.04	316.87	1.79	0.1429	2.4158	7 0	E W
1991	ED3	14.5	910305	2.67	357.63	159.57	5.43	0.2005	2.5406	4 9	W
1991	EM3	15.0	910305	328.02	343.08	226.38	1.43	0.0918	2.1728	4 9	W
1991	EN3	12.0	910305	252.91	308.93	352.59	13.28	0.2057	3.0549	4 9	E W
1991	EX3	12.0	910305	104.54	208.87	170.58	0.53	0.2372	2.9532	4 9	E W
1991	EY3	12.5	910305	330.78	227.30	317.14	1.41	0.0902	2.8323	4 9	E W
1991	EA4	12.0	910305	39.31	115.91	342.11	0.60	0.1641	3.1146	21 7	W
1991	EE4	12.5	910305	60.45	94.15	338.99	9.85	0.2555	2.7382	5 9	W
1991	EF4	12.0	910305	124.34	70.95	327.21	4.29	0.0010	2.9190	5 9	E W
1991	EJ4	11.5	910305	155.63	42.32	315.77	4.50	0.1213	2.9650	5 9	W
1991	EK4	14.5	910305	315.13	32.74	187.64	2.48	0.1644	2.1665	5 9	W
1991	EL4	13.0	910305	308.27	56.45	182.19	10.08	0.1535	2.6031	5 0	W
1991	EN4	14.5	910305	307.65	61.14	184.14	7.82	0.2090	2.3041	5 0	E W
1991	EO4	15.0	910305	332.79	250.64	315.21	1.42	0.1318	2.2248	5 9	W
1991	ES4	13.0	910305	243.80	159.82	157.74	1.39	0.2536	2.3297	4 9	E W
1991	ET4	14.0	910305	297.95	236.11	7.55	8.22	0.0441	2.2146	4 9	W
1991	EW4	11.5	910305	100.22	50.53	346.64	1.73	0.1262	2.9373	2 9	E W
1991	EO5	12.0	910305	71.16	254.56	168.32	8.88	0.2216	3.0948	3 9	E W
1991	FO1	13.5	910305	328.51	220.69	358.49	1.00	0.2663	3.0616	4 0	E W
1991	FP1	14.5	910305	317.25	222.21	0.70	4.22	0.1593	2.3024	4 9	E W
1991	FQ1	14.0	910305	67.98	82.83	357.98	3.61	0.1547	2.2027	3 9	E W
1991	FS1	14.0	910305	314.98	171.27	52.73	0.40	0.1381	2.3926	3 9	E W
1991	FV1	12.0	910305	113.07	259.46	146.68	2.21	0.0418	3.2149	2 9	E W
1991	FC2	12.5	910305	202.97	330.02	1.84	9.98	0.2556	2.1895	4 0	E W
1991	FD2	15.0	910305	346.40	171.19	12.98	2.51	0.1592	2.3388	4 0	W
1991	FH2	12.5	910305	68.17	149.86	286.04	0.80	0.1987	3.0209	2 9	E W
1991	FJ2	13.0	910305	60.27	250.27	182.70	4.09	0.2944	2.4199	2 9	E W
1991	FL2	12.5	910305	138.61	38.51	346.98	10.41	0.0430	2.8218	3 0	E W
1991	FM2	14.5	910305	17.91	322.62	171.75	16.62	0.2890	2.4508	2 9	E W
1991	FN2	12.5	910305	69.63	274.55	159.71	4.78	0.2223	3.0701	5 0	E W
1991	FO2	13.0	910305	63.01	270.10	164.31	2.30	0.2793	2.6533	2 9	E W
1991	FQ2	13.5	910305	52.85	100.22	0.23	4.78	0.1597	2.6716	2 9	E W
1991	FT2	14.5	910305	80.51	67.53	8.32	4.30	0.1161	2.2410	2 9	E W
1991	FU2	11.0	910305	248.41	304.24	16.47	15.52	0.2159	3.1593	5 0	E W
1991	FZ2	13.0	910325	31.20	342.13	175.56	6.25	0.0349	3.0431	30 0	W
1991	FA3	11.5	910305	274.20	272.85	20.77	11.62	0.1771	3.1769	5 0	E W
1991	FM3	13.5	910305	62.67	74.79	358.68	1.17	0.2691	2.5471	2 9	E W
1991	FQ3	13.0	910305	128.37	300.19	82.04	1.84	0.2582	2.2069	3 0	E W
1991	FW3	13.5	910305	25.81	338.70	165.92	3.61	0.1968	2.7835	4 0	W
1991	FY3	11.5	910305	278.12	284.84	14.17	14.34	0.2270	3.1432	3 0	E W
1991	FA4	12.0	910305	312.44	229.10	19.30	0.84	0.1135	3.1597	3 0	E W
1991	FB4	13.0	910325	296.42	296.36	354.66	5.01	0.2666	2.8656	5 0	E W
1991	FC4	14.5	910325	28.98	258.10	253.97	2.17	0.1897	2.3415	5 9	W
1991	FL4	12.5	910325	298.80	89.01	180.50	11.93	0.1761	3.1180	16 8	W
1991	GL	11.5	910325	117.28	53.74	17.30	12.31	0.0285	3.1678	27 0	W
1991	GC1	13.0	910414	336.51	222.34	14.33	13.82	0.2081	2.5327	57 0	W
1991	GW2	13.5	910325	327.78	170.54	62.40	1.91	0.1062	3.1998	21 0	W
1991	GB3	13.0	910325	12.05	159.63	19.31	0.81	0.1152	3.2134	28 0	W
1991	GF9	15.0	910325	302.31	89.60	171.95	4.47	0.1213	2.2948	30 0	W
1991	HA	14.0	910414	338.03	27.78	195.91	1.69	0.0661	2.4387	60 0	W
1991	NO2	13.0	910723	22.89	178.24	98.08	3.74	0.1496	2.4581	55 0	D M
1991	PH2	15.0	910812	349.36	243.22	81.78	1.33	0.0872	2.5522	36 0	M
1991	PU2	14.0	910812	302.89	73.87	322.06	15.10	0.2485	3.1245	36 0	M
1991	PF3	14.5	910812	349.70	202.93	123.32	9.81	0.0909	2.5660	36 0	M

1991	PK3	15.0	910812	334.91	287.36	57.42	2.39	0.1073	2.5390	36 0	M
1991	PM4	14.0	910812	21.50	331.28	315.20	4.78	0.1523	2.2978	34 0	M
1991	PO4	12.5	910812	312.43	228.86	154.93	2.07	0.2069	3.1787	34 0	M
1991	PT4	13.5	910812	335.30	131.64	226.85	0.94	0.2651	3.3242	34 0	M
1991	PX4	14.0	910812	19.56	128.41	161.58	1.42	0.1429	3.0899	34 0	M
1991	PF5	15.5	910812	55.91	296.61	311.81	4.61	0.1180	2.2337	34 0	M
1991	PL5	16.0	910812	18.23	349.99	300.28	1.22	0.1859	2.4077	34 0	M
1991	PO5	13.5	910812	323.03	119.38	248.71	0.59	0.1721	3.1889	34 0	M
1991	PQ5	14.5	910812	9.44	163.04	141.88	6.65	0.1324	2.2742	34 0	M
1991	PV5	16.5	910812	354.24	197.12	132.62	4.09	0.2231	2.2531	31 0	M
1991	PC6	15.0	910812	291.04	278.57	125.37	7.48	0.1253	2.3763	31 0	M
1991	PE6	14.0	910812	26.75	257.67	26.88	2.63	0.1573	3.0477	31 0	M
1991	PX6	15.5	910812	20.43	250.64	40.89	1.85	0.1827	2.3855	31 0	M
1991	PA7	14.0	910812	17.17	311.25	346.11	2.27	0.1712	2.4216	31 0	M
1991	PC7	14.0	910812	355.13	228.24	99.99	3.24	0.0712	2.8753	31 0	M
1991	PE7	14.5	910812	52.40	293.81	330.07	14.66	0.0591	2.5572	31 0	M
1991	PG7	12.0	910812	298.77	62.95	345.05	9.09	0.2126	4.0235	31 0	M
1991	PH7	16.0	910812	341.75	332.83	18.59	2.60	0.2421	2.3230	31 0	M
1991	PJ7	15.5	910812	331.66	24.11	337.37	5.52	0.1732	2.2917	31 0	M
1991	PT7	15.0	910812	33.30	264.48	10.09	2.22	0.1877	2.4029	31 0	M
1991	PX7	14.0	910812	312.06	45.60	340.09	8.63	0.1524	2.7901	31 0	M
1991	PY7	15.0	910812	266.01	343.52	84.45	1.95	0.0971	2.1800	31 0	M
1991	PE8	15.0	910812	338.55	223.55	123.60	2.18	0.2005	2.3890	33 0	M
1991	PN8	14.0	910812	314.87	211.35	174.98	1.95	0.2344	2.7629	32 0	M
1991	PQ8	14.0	910812	348.41	215.22	117.48	1.88	0.1168	3.0004	32 0	M
1991	PH9	13.5	910812	332.23	38.35	326.00	13.15	0.2730	2.6639	22 9	M
1991	PP9	13.0	910812	267.34	103.46	327.99	6.94	0.2123	2.7815	32 0	M
1991	PW9	12.5	910812	1.93	161.16	152.36	9.93	0.0820	3.1606	32 0	M
1991	PL10	14.0	910812	27.26	147.53	134.61	8.88	0.1721	2.5839	29 0	M
1991	PU11	13.6	910812	339.86	19.79	342.61	4.92	0.1766	2.2660	30 6	N
1991	PO12	13.5	910812	283.84	272.67	145.26	5.08	0.1718	2.2678	32 0	M
1991	PJ17	15.0	910723	328.77	104.64	252.46	2.06	0.1368	2.1703	3 7	W
1991	PL17	15.0	910723	337.15	46.14	303.78	6.89	0.1909	2.2418	2 4	E W
1991	PM17	13.0	910723	286.70	265.36	153.50	17.06	0.2069	2.7111	5 4	W
1991	PN17	16.0	910723	27.61	339.45	292.76	2.91	0.2470	2.3510	5 4	W
1991	QG	14.0	910901	349.94	162.18	199.33	7.41	0.4019	3.0064	63 0	B
1991	RA	15.0	910921	51.40	310.09	356.22	21.10	0.0414	1.8529	38 8	W
1991	RP	13.5	910901	355.12	192.31	155.89	26.03	0.2585	2.4128	65 0	W
1991	RQ	14.8	910901	5.88	186.16	151.42	13.05	0.2755	2.3711	33 7	D N
1991	RW	13.5	910921	36.18	141.12	166.11	21.53	0.1797	2.3033	35 8	M
1991	RM1	12.0	910921	40.03	260.13	35.97	27.94	0.2168	3.1941	30 6	W
1991	RO1	13.0	910901	3.40	25.74	328.29	6.04	0.2247	3.0304	6 0	W
1991	RP1	14.0	910921	31.77	337.38	348.53	15.09	0.1295	2.5312	10 0	N
1991	RR1	11.5	910921	25.14	95.95	229.57	9.45	0.1430	3.0515	41 8	N
1991	RK2	13.2	910921	352.13	215.56	145.70	6.92	0.1421	2.3666	23 0	N
1991	RM2	14.0	910921	5.73	186.79	167.40	8.72	0.2093	2.2592	37 0	M
1991	RP2	12.0	910921	105.00	40.95	212.12	9.55	0.0483	2.9964	26 9	M
1991	RS2	13.5	910901	267.70	251.43	208.94	6.70	0.0984	2.3083	5 0	W
1991	RT2	13.5	910921	34.82	82.73	228.68	4.33	0.1945	2.2389	26 9	M
1991	RY2	15.0	910921	16.41	62.59	279.37	3.85	0.1336	2.4835	26 8	M
1991	RA3	14.0	910921	23.81	98.62	238.38	4.93	0.0740	2.8549	26 9	M
1991	RB3	14.5	910921	330.41	147.72	254.44	2.93	0.1455	2.2263	26 9	M
1991	RC3	14.0	910921	3.96	40.46	318.43	4.09	0.1203	2.7502	26 9	M
1991	RD3	12.5	910921	105.35	28.69	208.50	8.86	0.2269	3.0490	26 9	M
1991	RJ3	16.5	910921	20.84	72.93	254.49	3.66	0.2496	2.5532	23 7	M
1991	RK3	14.0	910901	338.12	41.59	345.42	13.54	0.1538	2.5755	2 8	W
1991	RM3	17.0	910921	359.75	106.04	256.68	3.02	0.3036	2.5699	23 7	M
1991	RQ3	13.5	910921	330.54	57.80	349.06	11.51	0.1463	3.0929	23 8	M
1991	RR3	15.0	910921	302.06	95.91	346.28	11.93	0.1573	2.6406	23 8	M

1991	RV3	13.0	910901	82.71	294.48	340.39	9.06	0.0725	3.0603	31	7	M
1991	RZ3	13.5	910901	193.40	174.21	358.26	20.24	0.1293	2.3898	4	9	E W
1991	RH4	15.0	910921	297.97	127.92	316.78	4.06	0.1450	2.2201	23	8	M
1991	RP4	13.4	910921	7.67	116.27	228.55	8.13	0.2632	2.7416	8	5	N
1991	RQ4	15.0	910921	298.41	119.34	318.05	3.83	0.0649	2.4882	27	0	M
1991	RR4	15.0	910921	342.77	54.89	335.86	3.60	0.1589	2.2573	30	0	M
1991	RS4	16.5	910921	12.44	23.91	321.74	1.74	0.2372	2.3864	27	0	M
1991	RT4	16.0	910921	5.21	73.70	288.75	2.04	0.0265	2.2021	27	0	M
1991	RV4	15.0	910921	358.34	138.39	232.63	2.60	0.1149	2.6186	27	0	M
1991	RY4	14.5	910901	6.63	136.95	215.26	2.15	0.1895	2.7354	8	0	W
1991	RA5	15.5	910921	279.99	112.01	343.96	3.72	0.0634	2.2478	27	0	M
1991	RC5	13.5	910901	320.93	52.06	0.08	10.74	0.0762	3.0161	8	0	W
1991	RD5	15.5	910921	144.29	250.70	328.31	2.90	0.1043	2.1631	27	0	M
1991	RH5	12.0	910921	270.36	292.77	174.59	8.65	0.1000	3.2153	5	8	E E
1991	RK5	12.5	910921	31.84	306.09	13.01	10.15	0.1887	3.1061	5	8	E
1991	RN5	13.1	910921	29.23	166.94	161.20	5.49	0.1123	2.7614	5	6	E
1991	RP5	12.1	910921	85.31	91.20	176.45	22.08	0.1000	3.1552	4	5	E E
1991	RB7	15.0	910901	350.49	2.95	4.35	4.47	0.1902	2.2433	15	5	W
1991	RD7	13.0	910901	1.75	348.85	3.37	16.22	0.1899	2.5739	15	6	W
1991	RE7	12.0	910901	58.05	280.46	7.40	17.79	0.1417	3.1553	12	7	W
1991	RG7	15.5	910901	295.99	204.29	255.64	3.87	0.2011	2.1607	5	6	E M
1991	RH7	13.5	910901	223.23	291.65	243.18	7.90	0.2444	2.4191	4	5	E M
1991	RK7	14.5	910901	111.71	325.29	288.19	4.00	0.1255	2.1793	5	6	E M
1991	RL7	14.0	910901	43.18	114.36	213.57	11.39	0.0691	2.4372	5	6	M
1991	RM7	14.0	910901	317.36	86.90	0.47	9.83	0.2422	3.1310	4	5	M
1991	RP7	13.0	910901	276.07	221.51	271.34	3.85	0.2313	2.6685	5	7	E M
1991	RH8	14.0	910921	9.87	327.35	20.43	10.79	0.2646	2.3497	21	7	W
1991	RS8	13.5	910921	325.13	54.47	351.85	8.27	0.1057	2.3365	24	0	M
1991	RU8	15.2	910921	32.95	299.62	2.97	1.52	0.3117	2.4964	6	6	E
1991	RO9	11.5	910901	245.56	59.18	36.87	16.60	0.3026	3.0959	3	4	E W
1991	RP9	13.0	910901	262.28	19.48	49.90	16.18	0.1078	2.5290	30	5	W
1991	RC10	13.0	910921	346.63	30.53	349.83	10.18	0.0961	3.0514	23	7	M
1991	SA	14.1	911011	30.32	56.28	267.06	5.65	0.2594	2.3287	42	9	N
1991	SB	13.7	911011	343.22	177.46	216.07	2.47	0.1316	2.4186	27	0	N
1991	SL	15.0	910921	319.00	24.94	12.46	19.03	0.0982	1.9565	12	5	W
1991	SM	13.5	910921	359.94	224.07	122.00	11.17	0.1223	3.0150	12	5	W
1991	SN	13.0	910921	48.03	180.25	107.61	11.10	0.1052	3.0040	12	4	W
1991	SO	15.5	910921	329.91	351.78	53.92	7.72	0.3248	2.5456	12	5	W
1991	SP	16.0	910921	3.08	267.60	76.59	6.36	0.1974	2.2714	12	5	W
1991	SQ	14.5	910901	347.33	322.49	38.46	10.49	0.2346	2.7251	55	7	W
1991	SR	14.0	910921	316.35	268.97	133.74	14.85	0.1274	2.6066	9	3	W
1991	ST	14.0	910921	25.71	230.08	79.16	6.83	0.2178	2.1934	12	3	W
1991	SU	14.5	910921	324.29	286.95	108.98	8.38	0.1509	2.4434	12	3	W
1991	SV	13.0	910901	325.71	311.66	70.84	10.25	0.0887	2.8105	55	5	W
1991	SW	13.5	910921	23.57	205.35	114.42	10.65	0.0823	3.1672	12	6	W
1991	SX	16.0	910921	16.23	209.23	116.96	6.76	0.1916	2.2833	12	6	W
1991	SZ	14.0	910921	26.39	261.90	52.33	7.23	0.1509	2.3981	37	9	W
1991	SA1	14.0	910921	4.83	200.10	142.85	15.36	0.1636	3.0351	37	8	W
1991	SB1	15.5	910921	356.23	266.02	89.14	7.34	0.1369	2.3415	37	7	W
1991	SC1	13.0	910921	12.67	290.68	42.10	10.44	0.0954	3.0251	38	0	W
1991	SD1	14.0	910921	113.91	90.46	132.08	13.81	0.1358	2.5524	34	7	W
1991	SE1	15.5	910921	346.27	273.86	94.94	7.47	0.1370	2.3691	37	8	W
1991	SH1	13.0	910901	36.02	197.65	73.70	14.07	0.1992	2.5750	25	5	W
1991	SJ1	12.4	910921	285.19	306.50	168.86	15.39	0.2780	2.7405	4	6	E
1991	SN1	14.3	911011	10.40	160.26	202.72	5.80	0.1673	2.2205	32	8	N
1991	SR1	13.5	910921	0.30	157.50	207.75	12.81	0.1657	2.6080	45	0	N
1991	SS1	16.5	911011	351.36	353.54	37.27	5.76	0.3675	2.3831	15	9	S
1991	TB	15.0	910921	318.77	8.87	27.51	7.88	0.1806	2.2993	5	4	W
1991	TC	15.0	910921	25.36	283.99	354.76	26.50	0.4191	2.6303	11	6	M

1991 TD	14.5	910921	351.18	317.12	42.30	14.55	0.1978	2.6461	8 3	W
1991 TE	13.5	910921	17.55	252.46	61.18	13.95	0.2954	3.1242	8 3	W
1991 TF	15.0	910921	357.54	198.40	173.10	14.68	0.2636	2.6480	14 6	W
1991 TG	15.0	910921	346.93	207.70	184.80	32.01	0.2799	2.6115	13 0	W
1991 TH	16.0	910921	1.56	199.01	165.31	6.92	0.2079	2.3087	14 3	W
1991 TJ	14.5	910921	7.64	273.37	79.29	4.52	0.2428	2.3165	33 8	W
1991 TK	14.0	910921	208.71	66.50	105.42	5.55	0.2247	2.3891	14 3	W
1991 TL	16.0	910921	43.71	171.62	140.24	5.64	0.1358	2.1642	14 5	W
1991 TN	14.5	910921	155.69	112.83	96.02	5.70	0.1428	2.3489	14 3	W
1991 TO	16.0	910921	0.59	245.46	121.58	5.15	0.1145	2.2593	14 4	W
1991 TP	13.5	910921	59.63	134.32	166.06	14.05	0.1093	3.0650	33 9	W
1991 TQ	13.5	910921	48.88	241.78	68.07	6.75	0.1269	3.0023	14 4	W
1991 TS	14.5	910921	39.64	191.27	130.10	6.37	0.1052	2.4180	14 5	W
1991 TX	15.0	910921	3.95	283.83	76.49	24.12	0.2828	2.4071	14 4	W
1991 TY	14.0	910921	358.98	240.38	126.18	23.19	0.2911	2.3984	13 4	W
1991 TA1	13.5	910921	350.88	171.58	204.42	24.69	0.0825	1.8755	9 9	W
1991 TC1	12.0	911011	353.25	320.81	51.62	14.42	0.1978	2.6228	5 5	W
1991 TD1	14.0	911011	5.47	194.06	190.78	23.52	0.1238	1.9489	3 7	W
1991 TE1	13.5	911011	33.60	252.46	95.69	13.39	0.1531	2.7122	3 3	W
1991 TF1	12.0	911011	310.08	290.21	172.93	18.66	0.1461	3.2439	3 3	W
1991 TP1	13.5	910921	33.83	82.22	233.65	3.78	0.2173	2.2039	30 0	M
1991 TV1	14.5	911031	14.51	311.89	54.93	6.44	0.3031	2.2769	15 6	N
1991 TD2	18.0	911011	51.76	129.35	177.29	6.45	0.2245	2.2456	8 0	S
1991 TM2	16.5	910921	35.67	41.56	271.92	2.85	0.2085	2.2331	2 4	E M
1991 TN2	15.0	910921	57.73	300.56	343.22	6.96	0.2512	3.0258	2 4	E M
1991 TO2	15.0	910921	92.43	283.61	340.75	6.74	0.1083	2.3488	2 4	M
1991 TP2	15.0	910921	97.33	321.92	296.14	3.25	0.1178	2.2008	2 4	M
1991 TQ2	16.5	910921	327.83	136.28	274.71	2.52	0.1659	2.2521	2 4	E M
1991 TR2	17.5	910921	34.87	358.45	308.32	3.21	0.2820	2.3026	2 4	E M
1991 TS2	14.0	910921	57.00	276.48	7.10	20.74	0.2594	2.9024	2 4	E M
1991 TT2	15.0	910921	37.93	322.31	347.96	8.76	0.2439	3.2272	2 4	E M
1991 TU2	17.5	910921	4.37	79.09	280.26	2.59	0.2115	2.2961	2 4	E M
1991 TV2	15.0	910921	55.52	282.94	1.52	14.31	0.2698	2.7988	2 4	E M
1991 TW2	16.0	910921	356.63	117.11	253.96	2.34	0.2594	2.2911	2 4	E M
1991 TX2	16.5	910921	0.33	92.40	273.03	1.58	0.1863	2.2086	2 4	M
1991 TY2	18.5	910921	11.33	69.77	274.89	1.86	0.2738	2.2639	2 4	M
1991 TZ2	16.0	910921	37.66	303.03	3.24	12.78	0.2698	2.6461	2 4	M
1991 TA3	17.0	910921	9.13	106.31	243.71	3.38	0.2682	2.4331	2 4	E M
1991 TB3	17.0	910921	14.93	100.82	239.34	2.90	0.2500	2.1787	2 4	E M
1991 TC3	16.5	910921	355.80	29.63	343.08	3.13	0.0320	2.1701	2 4	E M
1991 TD3	16.5	910921	2.41	136.73	225.15	4.33	0.2232	2.1782	2 4	E M
1991 TE3	18.0	910921	3.19	82.45	277.95	2.03	0.2410	2.2276	2 4	E M
1991 UZ	13.0	911011	6.91	210.75	168.31	5.64	0.2146	2.5690	10 5	N
1991 UH1	15.5	911011	75.78	231.28	83.83	6.61	0.1261	2.6826	2 7	E M
1991 UJ1	15.5	911011	31.48	178.90	187.01	5.31	0.1205	2.9100	2 7	M
1991 UO1	17.0	911031	86.20	209.67	68.11	6.99	0.2902	2.1737	2 7	E M
1019 T-1	14.0	710310	130.84	143.53	249.07	4.81	0.2241	2.7340	3 5	E G
1024 T-1	11.0	710310	198.37	347.92	353.11	10.56	0.0081	5.2521	3 5	E G
1028 T-1	15.0	710310	354.92	351.45	191.87	25.34	0.0186	2.7440	2 4	E G
1029 T-1	13.5	710310	89.36	217.54	203.57	12.67	0.2613	2.8549	3 5	E G
1030 T-1	13.5	710310	222.15	349.29	339.34	9.15	0.1746	2.3997	3 5	G
1032 T-1	15.0	710310	29.02	262.63	237.47	4.15	0.1432	3.1216	3 4	E G
1034 T-1	15.0	710310	92.66	233.18	197.98	4.87	0.1187	2.2241	3 5	E G
1037 T-1	12.5	710310	66.75	255.80	198.52	8.86	0.1557	3.1758	3 5	E G
1038 T-1	16.0	710310	265.99	9.18	277.85	3.07	0.1308	2.4099	3 5	G
1039 T-1	16.0	710310	250.52	93.05	217.07	6.40	0.2243	2.4025	3 5	G
1041 T-1	15.0	710310	175.71	13.07	348.18	4.51	0.2396	2.4159	2 4	E G
1042 T-1	16.0	710310	344.46	284.56	279.47	0.74	0.2704	2.9609	3 6	G
1043 T-1	14.0	710310	163.39	160.77	208.34	3.52	0.2439	2.3273	3 5	E G

1045	T-1	15.5	710310	272.65	327.61	314.49	3.32	0.1471	2.3002	3 5	E G
1046	T-1	17.0	710310	10.39	253.53	261.97	1.93	0.2961	2.4785	3 5	E G
1047	T-1	14.0	710310	46.07	256.02	226.23	4.75	0.1033	2.2831	3 5	G
1048	T-1	12.0	710310	69.43	246.18	192.76	24.09	0.2659	3.4172	3 5	E W
1049	T-1	15.0	710310	107.32	178.18	224.59	3.96	0.3090	2.4332	3 5	G
1050	T-1	15.0	710310	348.88	217.46	334.38	1.48	0.1479	2.6433	3 0	E G
1051	T-1	13.0	710310	14.98	160.17	356.57	7.73	0.1538	2.9595	3 7	E G
1052	T-1	16.5	710310	206.98	116.37	220.94	1.50	0.1425	2.1987	3 5	G
1055	T-1	15.5	710310	13.24	313.79	198.98	12.19	0.2742	2.6749	8 5	G
1056	T-1	15.0	710310	0.88	192.95	343.54	9.47	0.1610	2.5139	3 5	E G
1058	T-1	16.0	710310	43.53	116.65	350.86	15.75	0.2762	2.7586	2 4	E G
1060	T-1	15.5	710310	135.61	79.11	316.75	4.23	0.1003	2.2685	3 5	E G
1062	T-1	15.5	710310	142.05	50.21	339.61	6.08	0.1064	2.2561	3 5	E G
1063	T-1	13.5	710310	177.90	108.85	252.54	1.67	0.0760	3.9767	8 4	E G
1064	T-1	16.5	710310	312.06	242.83	353.95	4.48	0.1291	2.2364	3 6	E G
1066	T-1	13.5	710310	237.42	330.29	350.75	14.03	0.2255	2.5675	3 4	G
1067	T-1	13.5	710310	199.28	40.08	308.42	5.68	0.2353	2.8050	3 5	E G
1068	T-1	13.5	710310	204.21	134.57	210.87	9.70	0.2575	2.6080	2 4	G
1070	T-1	15.0	710310	15.54	164.67	353.48	15.12	0.1383	2.9679	3 5	E G
1072	T-1	15.0	710310	140.52	48.05	340.37	2.93	0.1548	2.5188	3 5	E G
1073	T-1	15.5	710310	113.08	52.76	351.42	6.34	0.2330	2.4102	3 5	E G
1074	T-1	15.0	710310	356.98	197.80	344.53	4.61	0.1352	3.1742	2 4	E G
1075	T-1	15.0	710310	230.33	124.53	202.29	9.23	0.2436	2.3839	3 5	E G
1077	T-1	14.5	710310	140.35	34.24	352.76	23.90	0.2444	2.8214	3 5	G
1078	T-1	12.5	710310	93.27	88.68	340.84	10.23	0.1587	3.0175	9 6	G
1080	T-1	14.0	710419	83.40	238.79	199.09	8.99	0.2359	2.5286	51 8	G
1081	T-1	13.5	710310	291.38	349.57	268.15	1.66	0.0911	3.0955	9 6	G
1082	T-1	15.0	710310	188.82	11.03	340.37	3.14	0.0977	2.5041	3 5	E G
1083	T-1	14.5	710310	357.85	182.19	359.88	19.60	0.2745	3.9798	3 0	E G
1086	T-1	14.0	710310	204.30	145.93	198.84	14.71	0.2419	2.6349	9 6	G
1090	T-1	17.0	710310	32.79	163.60	326.11	5.49	0.2001	2.3720	2 4	G
1094	T-1	15.0	710310	249.47	312.24	345.43	2.18	0.0876	2.3127	3 4	E G
1095	T-1	14.0	710310	106.43	62.11	350.23	9.91	0.2145	3.0204	9 5	G
1097	T-1	16.0	710330	40.70	275.03	217.14	6.19	0.1378	2.5804	23 8	G
1099	T-1	17.0	710310	355.24	310.05	232.96	1.42	0.1107	2.2451	2 4	E G
1100	T-1	16.5	710310	305.67	255.64	343.53	6.85	0.0613	2.4738	9 6	G
1101	T-1	14.5	710310	39.04	220.17	278.41	3.62	0.0301	2.6831	9 6	G
1102	T-1	15.5	710310	280.44	54.32	213.45	6.42	0.0811	2.3211	9 6	G
1105	T-1	14.5	710330	63.19	284.14	186.72	6.66	0.0855	2.7122	50 0	G
1107	T-1	15.5	710310	345.02	341.05	215.61	2.40	0.0800	3.0104	9 6	G
1108	T-1	16.0	710310	75.63	93.05	349.49	6.69	0.1782	2.3491	9 5	G
1112	T-1	15.0	710310	37.95	261.83	215.63	6.07	0.2578	2.7933	9 6	G
1116	T-1	15.0	710310	181.67	97.59	260.33	1.61	0.0406	2.7076	9 6	G
1119	T-1	14.5	710310	140.22	26.16	355.81	7.36	0.3184	2.2702	9 5	G
1120	T-1	14.0	710310	113.80	212.14	186.39	8.66	0.3164	2.7560	9 6	G
1122	T-1	15.0	710330	157.34	182.23	200.72	4.96	0.0795	2.7558	23 8	G
1125	T-1	15.5	710310	136.18	169.82	226.97	1.82	0.0893	2.5755	9 6	E G
1126	T-1	15.5	710330	34.60	167.64	328.09	2.00	0.1802	2.4309	23 8	G
1127	T-1	17.0	710310	51.32	239.17	224.09	2.78	0.2275	2.5111	2 4	G
1131	T-1	16.5	710310	318.88	300.68	293.66	1.51	0.1749	2.3052	9 6	G
1132	T-1	15.5	710419	14.29	298.27	234.48	1.30	0.1443	2.3593	51 0	G
1133	T-1	15.0	710310	312.32	245.68	344.37	2.89	0.0299	3.1768	9 6	G
1134	T-1	14.5	710310	199.43	138.82	202.46	3.89	0.0399	2.4620	9 6	G
1135	T-1	14.5	710310	160.83	77.91	293.79	1.66	0.2843	2.4050	9 6	G
1137	T-1	14.5	710310	216.29	49.62	285.71	3.21	0.2004	2.1759	9 6	G
1139	T-1	16.0	710310	10.83	179.82	340.98	0.77	0.2138	2.8432	3 5	G
1142	T-1	16.5	710310	84.82	183.95	260.87	2.44	0.0833	2.2563	9 6	G
1143	T-1	15.5	710310	234.43	14.73	305.19	3.42	0.1745	2.1651	9 6	G
1145	T-1	16.0	710330	29.05	192.08	316.03	3.64	0.1275	2.4609	23 8	G

1146	T-1	15.0	710330	271.32	83.71	199.37	4.81	0.0903	2.6278	23	8	G
1148	T-1	16.0	710310	297.83	251.50	358.56	2.19	0.0951	2.1738	9	8	G
1149	T-1	15.0	710310	333.65	22.00	187.30	5.40	0.0725	2.7386	9	6	G
1150	T-1	16.0	710330	328.58	316.60	272.34	2.42	0.1703	2.5836	23	8	G
1152	T-1	15.0	710310	31.41	293.83	208.16	8.60	0.0987	2.7490	9	4	G
1154	T-1	16.0	710310	212.99	348.88	346.06	11.13	0.1218	2.4091	3	5	E G
1157	T-1	14.0	710310	280.11	269.22	359.22	14.66	0.0777	2.6706	9	6	G
1158	T-1	16.5	710310	317.34	234.35	358.42	5.49	0.1369	2.3784	9	6	G
1160	T-1	14.0	710330	64.00	259.89	188.91	25.11	0.2717	3.1740	23	8	G
1162	T-1	14.5	710330	323.08	244.25	345.52	10.79	0.0963	3.0631	23	8	G
1163	T-1	14.0	710419	306.64	4.26	250.07	3.16	0.0913	2.2421	51	0	G
1166	T-1	14.5	710419	26.09	156.91	0.74	10.73	0.0794	3.0756	51	0	G
1167	T-1	13.5	710310	105.57	55.36	359.25	10.27	0.2038	3.0873	9	6	E G
1168	T-1	16.0	710310	20.08	297.37	203.02	9.20	0.3092	3.0324	9	6	G
1172	T-1	14.5	710310	261.18	85.36	226.89	2.11	0.3210	2.7420	9	6	G
1174	T-1	13.5	710310	104.80	103.39	305.41	0.50	0.2804	3.1886	9	7	G
1175	T-1	14.0	710330	133.48	213.28	188.02	6.13	0.1253	2.4164	23	8	G
1176	T-1	13.5	710419	334.76	30.24	188.50	6.10	0.0969	3.1839	53	0	G
1177	T-1	15.0	710310	323.97	329.01	252.85	1.74	0.0805	2.7834	9	6	G
1178	T-1	15.0	710310	98.80	78.73	345.31	5.07	0.1642	2.6425	9	6	G
1180	T-1	16.0	710330	103.63	118.77	313.61	4.04	0.0907	2.2031	23	8	G
1181	T-1	13.0	710419	352.72	233.27	325.37	3.59	0.0920	2.9452	51	0	G
1182	T-1	14.0	710419	141.71	207.60	188.33	12.98	0.1638	2.6677	51	0	G
1187	T-1	17.0	710310	356.96	331.82	210.54	2.58	0.0753	2.3755	3	5	E G
1188	T-1	14.5	710419	330.46	240.53	350.46	6.19	0.1322	2.2553	51	0	G
1191	T-1	16.0	710310	338.48	275.88	292.35	0.90	0.1426	2.9102	8	5	G
1192	T-1	17.0	710310	352.47	186.14	2.78	11.92	0.1887	2.5318	9	6	G
1193	T-1	13.5	710310	95.30	222.57	188.88	1.86	0.3338	3.2018	9	6	G
1194	T-1	15.0	710310	76.25	266.46	187.84	10.29	0.0873	3.0138	9	6	G
1198	T-1	14.5	710419	30.73	198.40	314.27	4.04	0.1011	3.0987	51	0	G
1199	T-1	15.5	710310	311.34	1.76	239.41	1.03	0.1305	2.8998	9	6	G
1202	T-1	15.5	710310	212.84	146.76	183.44	4.59	0.0532	2.5448	9	7	G
1205	T-1	15.0	710419	312.54	262.07	350.28	5.06	0.1323	2.2133	51	0	G
1206	T-1	15.5	710310	8.01	332.66	196.67	7.09	0.1447	3.0603	9	6	G
1208	T-1	15.0	710310	159.10	161.19	217.36	4.60	0.0793	2.3128	9	6	G
1209	T-1	16.0	710310	285.16	305.38	322.21	4.17	0.1018	2.7464	8	5	G
1211	T-1	16.0	710310	285.56	2.70	269.54	1.65	0.1565	2.3737	8	5	G
1213	T-1	15.0	710330	162.38	167.87	208.49	4.89	0.2313	2.4087	23	7	G
1215	T-1	16.0	710310	13.52	159.12	3.03	15.61	0.1048	2.5088	9	6	G
1221	T-1	15.0	710310	21.25	313.75	189.70	27.73	0.2573	3.1616	9	6	E W
1222	T-1	15.5	710310	208.18	356.95	345.69	10.49	0.1890	2.4349	8	5	G
1223	T-1	16.0	710310	315.00	296.26	298.08	3.10	0.0939	2.7626	2	4	G
1227	T-1	15.0	710310	246.22	317.19	357.81	6.33	0.2190	2.5537	3	5	E G
1229	T-1	17.0	710310	304.49	288.73	323.93	1.51	0.1699	2.3803	9	4	G
1230	T-1	16.0	710330	292.96	299.97	328.53	2.18	0.1417	2.2416	23	8	G
1236	T-1	16.0	710419	79.51	103.84	353.73	5.27	0.1290	2.1741	51	8	G
1238	T-1	16.0	710310	332.27	243.18	332.68	1.13	0.1300	2.9031	9	6	E G
1240	T-1	13.5	710419	217.72	338.04	1.83	9.10	0.1633	2.7975	51	0	G
1242	T-1	17.0	710310	4.57	161.60	9.07	1.70	0.1775	2.2835	9	8	G
1243	T-1	15.0	710310	228.35	137.31	192.48	3.53	0.2380	2.5858	9	6	E G
1244	T-1	15.5	710310	313.74	21.87	210.65	3.00	0.0617	2.8382	9	6	G
1246	T-1	16.0	710310	329.03	23.26	196.77	11.44	0.1288	2.6985	9	6	G
1248	T-1	14.0	710419	22.83	287.35	235.42	4.03	0.0951	3.1258	51	9	G
1250	T-1	14.0	710310	182.84	7.57	353.26	13.86	0.1203	2.9225	9	6	G
1251	T-1	12.5	710419	160.03	34.75	350.14	9.20	0.1117	3.0491	51	0	G
1252	T-1	15.0	710330	2.88	344.63	198.05	6.52	0.0401	2.3344	23	8	G
1255	T-1	17.0	710310	339.33	205.35	3.84	2.44	0.1879	2.6579	8	5	E G
1256	T-1	17.5	710310	351.47	185.02	3.41	6.86	0.0842	2.1764	9	6	G
1258	T-1	16.0	710330	334.67	33.79	192.90	6.17	0.2323	2.2950	23	8	G

1259	T-1	15.5	710330	66.40	109.85	351.37	8.25	0.1634	2.6646	23	8	G
1267	T-1	16.5	710310	12.02	317.08	207.94	2.10	0.0934	2.4264	7	3	G
1268	T-1	17.0	710310	49.02	165.93	308.52	1.27	0.1617	2.3076	8	5	G
1269	T-1	15.0	710330	71.04	111.16	350.82	8.65	0.1173	2.7530	23	8	G
1272	T-1	17.5	710310	9.88	349.70	171.53	0.73	0.2504	2.6620	3	5	G
1273	T-1	14.5	710310	266.48	120.09	180.73	7.54	0.2356	3.0793	8	4	G
1274	T-1	14.0	710330	224.34	323.23	5.26	5.00	0.1070	2.7294	23	0	G
1275	T-1	17.0	710330	300.48	275.97	351.88	5.08	0.2001	2.1765	23	0	G
1276	T-1	16.0	710330	304.24	37.33	220.72	2.97	0.1520	2.2688	23	0	G
1283	T-1	15.5	710310	340.69	32.05	179.71	3.17	0.2432	3.0911	9	6	G
1285	T-1	15.5	710310	65.03	188.18	277.01	1.39	0.0960	2.4136	9	0	G
1286	T-1	15.0	710330	344.04	14.37	194.71	17.73	0.1713	3.0939	22	0	G
1290	T-1	15.5	710330	57.60	287.09	194.79	6.11	0.0657	2.3898	23	0	G
1291	T-1	15.0	710330	342.04	11.32	198.83	11.61	0.1313	2.6386	22	0	G
1292	T-1	16.0	710310	175.08	41.74	323.97	2.64	0.0901	2.2906	2	6	E G
1293	T-1	15.5	710419	171.76	33.40	344.86	3.92	0.0959	2.1606	50	0	G
1295	T-1	14.0	710330	129.32	219.57	193.78	5.30	0.0362	2.9104	23	0	G
1296	T-1	16.0	710310	31.86	298.08	197.02	9.57	0.1767	2.4607	9	9	G
2013	T-1	16.0	710310	182.73	181.56	174.07	3.27	0.2237	2.1847	2	4	E G
2014	T-1	15.0	710310	356.94	273.15	267.76	0.32	0.0884	3.0106	2	4	E G
2016	T-1	15.5	710310	290.56	114.86	168.03	4.92	0.3130	2.9792	2	4	G
2017	T-1	15.0	710310	91.31	293.49	142.41	3.58	0.0820	2.7722	3	5	G
2020	T-1	17.0	710310	355.09	166.34	14.73	4.83	0.0935	2.1991	2	4	E G
2024	T-1	15.5	710310	175.90	179.38	181.71	13.33	0.1215	2.6705	2	4	E G
2026	T-1	13.5	710310	226.06	328.21	359.78	32.76	0.2260	2.9585	3	5	E G
2028	T-1	15.5	710310	9.82	344.90	178.35	4.11	0.1309	2.5088	3	5	G
2030	T-1	16.5	710310	282.52	100.73	165.82	4.18	0.1106	2.4095	3	5	E G
2031	T-1	18.0	710310	337.78	62.88	147.78	1.83	0.2361	2.3552	3	5	G
2033	T-1	15.0	710310	29.14	17.31	114.58	1.92	0.2162	3.3831	2	4	G
2034	T-1	17.5	710310	343.55	167.95	30.60	1.31	0.1750	2.2618	3	5	G
2035	T-1	16.0	710310	302.14	229.31	15.50	2.39	0.1005	2.4902	2	4	G
2039	T-1	15.0	710310	42.19	275.91	212.53	1.18	0.0843	2.8666	3	5	G
2040	T-1	17.0	710310	352.92	1.94	184.99	4.45	0.2233	2.5135	3	5	G
2043	T-1	17.0	710310	35.41	332.85	155.93	1.75	0.1517	2.4310	3	5	G
2044	T-1	16.5	710310	68.71	71.70	20.50	2.69	0.1386	2.4265	2	4	E G
2045	T-1	14.5	710310	327.13	130.54	103.02	2.50	0.2904	3.1021	3	5	G
2050	T-1	14.0	710310	100.57	240.02	175.63	12.20	0.2073	3.0877	3	5	E G
2051	T-1	16.0	710310	250.90	120.97	183.05	10.33	0.1740	2.3644	2	4	E G
2053	T-1	15.5	710310	17.80	278.90	222.90	0.77	0.3108	3.0416	3	5	E W
2054	T-1	12.5	710310	99.93	227.78	184.66	1.04	0.2532	3.1525	3	5	G
2055	T-1	14.0	710310	245.02	313.18	2.41	19.05	0.2566	2.5681	3	5	E G
2056	T-1	16.0	710310	356.74	161.63	19.19	4.07	0.0917	3.0164	2	4	E G
2059	T-1	14.0	710310	149.99	15.25	1.85	25.62	0.2374	2.3512	3	5	E G
2066	T-1	15.5	710310	108.91	277.72	135.68	2.80	0.1393	2.1875	3	5	E G
2067	T-1	15.5	710310	151.26	354.58	28.55	5.48	0.0330	2.3750	3	5	G
2070	T-1	17.0	710310	322.08	184.90	47.57	2.13	0.2146	2.5424	3	5	G
2071	T-1	17.0	710310	300.09	104.90	157.00	0.97	0.2251	2.4930	2	4	E G
2072	T-1	14.5	710310	332.37	38.86	173.94	0.79	0.1209	3.1509	3	5	G
2074	T-1	16.5	710310	10.85	8.40	151.29	2.45	0.1891	2.5887	2	4	G
2077	T-1	15.5	710310	295.89	176.32	85.18	2.09	0.1913	2.2558	3	5	G
2079	T-1	16.5	710310	28.05	313.46	180.24	1.33	0.2123	2.5370	3	5	G
2080	T-1	16.0	710310	352.37	7.46	180.20	10.96	0.1916	2.5764	9	6	G
2081	T-1	15.0	710310	352.64	127.45	58.61	2.68	0.1648	2.6141	3	5	G
2083	T-1	17.5	710310	336.43	161.53	49.22	2.36	0.2017	2.4086	2	4	G
2085	T-1	13.5	710310	82.95	310.47	126.32	1.93	0.1583	3.0835	9	6	G
2088	T-1	14.0	710310	168.94	189.44	177.83	13.84	0.1283	2.9968	8	5	E G
2091	T-1	14.0	710310	156.65	192.70	179.87	17.46	0.2933	2.6940	9	6	E G
2092	T-1	16.0	710310	42.72	82.74	20.25	4.28	0.3058	2.9172	2	4	G
2093	T-1	17.0	710310	347.28	163.12	30.58	4.71	0.1802	2.4402	2	4	G

2095	T-1	13.0	710310	185.81	350.85	3.45	15.22	0.1619	2.7143	3	5	G
2099	T-1	17.0	710310	173.23	183.15	179.62	20.01	0.0501	1.9010	2	4	E G
2100	T-1	16.5	710310	174.11	351.87	10.54	6.55	0.1001	2.2656	2	4	E G
2103	T-1	15.0	710310	1.25	29.64	146.65	1.55	0.1304	3.2203	9	6	G
2104	T-1	15.0	710310	324.53	201.92	22.54	2.39	0.1601	2.3669	9	6	G
2105	T-1	15.0	710310	274.16	164.18	113.34	1.28	0.1237	2.4698	9	6	G
2108	T-1	15.0	710310	175.85	186.95	174.37	30.09	0.2726	2.5850	2	4	E G
2112	T-1	17.5	710310	322.20	219.90	12.27	4.28	0.2117	2.2795	2	4	E G
2114	T-1	14.5	710330	17.11	343.34	178.12	14.21	0.1146	2.7070	23	8	G
2117	T-1	16.5	710310	318.73	208.93	19.88	3.12	0.1308	2.2239	9	6	G
2118	T-1	14.5	710310	321.80	201.32	39.73	0.65	0.2655	3.4177	9	6	G
2120	T-1	14.5	710330	321.19	96.95	135.46	2.75	0.1310	2.4235	23	8	G
2123	T-1	14.0	710310	32.61	117.17	18.80	7.48	0.1185	2.6937	9	6	G
2124	T-1	16.5	710310	35.31	58.36	77.80	2.61	0.0649	2.1964	3	5	G
2125	T-1	15.0	710310	301.36	225.82	21.87	6.51	0.1167	2.4772	9	6	G
2126	T-1	15.0	710310	300.89	113.05	137.54	2.42	0.1245	3.1580	8	5	G
2127	T-1	14.5	710310	182.45	249.82	105.73	1.45	0.0932	2.1390	9	6	G
2128	T-1	17.0	710310	323.05	71.09	145.82	1.53	0.0370	2.3055	3	5	G
2130	T-1	17.0	710310	86.88	72.89	5.53	1.25	0.1100	2.2469	2	4	E G
2134	T-1	16.5	710310	306.79	211.28	25.58	5.47	0.0701	2.4235	9	5	G
2135	T-1	16.0	710310	151.44	326.51	53.95	3.22	0.1231	2.4401	2	4	E G
2137	T-1	17.0	710310	339.03	62.55	155.67	1.67	0.3252	2.9044	2	4	G
2140	T-1	13.0	710419	119.14	18.63	43.22	2.50	0.0533	2.8996	53	0	G
2141	T-1	15.5	710310	261.35	251.36	43.98	3.42	0.1748	2.5037	9	5	G
2143	T-1	17.0	710310	337.15	156.12	51.81	2.95	0.1658	2.4041	9	6	G
2144	T-1	16.0	710310	316.87	66.46	159.94	5.98	0.0777	2.2591	9	6	G
2148	T-1	15.0	710310	254.05	310.79	4.15	7.05	0.3058	2.7764	2	4	E G
2149	T-1	13.0	710419	80.18	91.54	4.64	7.30	0.0898	3.1128	51	0	G
2151	T-1	14.5	710310	137.52	229.57	157.63	6.38	0.2158	2.3628	9	6	G
2152	T-1	15.0	710310	283.18	214.77	48.76	4.72	0.0794	2.9217	3	5	G
2153	T-1	14.5	710330	240.17	180.73	129.27	2.96	0.0846	2.9627	23	8	G
2154	T-1	16.0	710310	348.18	177.41	17.86	5.90	0.1902	3.1344	2	4	G
2155	T-1	15.0	710310	16.95	81.42	74.93	1.63	0.1273	3.1530	9	6	G
2157	T-1	13.5	710330	114.58	246.20	164.40	3.98	0.1873	2.7902	23	8	G
2166	T-1	15.0	710310	155.93	352.58	24.71	5.13	0.1144	2.2081	9	6	G
2168	T-1	14.5	710330	182.82	179.07	182.27	12.00	0.1356	2.4175	23	8	G
2170	T-1	17.0	710310	352.30	170.59	16.46	6.40	0.1296	2.4804	9	6	G
2171	T-1	17.5	710310	2.73	72.71	98.56	2.03	0.2770	2.8523	3	5	G
2172	T-1	15.0	710330	263.17	243.42	56.41	2.46	0.1826	2.1922	23	8	G
2175	T-1	15.5	710330	63.94	291.77	176.91	6.04	0.1047	2.3731	23	8	G
2177	T-1	14.0	710310	307.79	170.70	83.57	2.00	0.2193	3.3705	9	6	G
2179	T-1	17.0	710310	53.79	312.94	151.97	5.45	0.1771	2.4127	2	4	G
2183	T-1	16.0	710310	64.69	30.65	67.35	2.24	0.1354	2.3898	9	6	G
2184	T-1	16.0	710310	24.27	343.11	166.34	6.65	0.0755	2.3966	9	6	G
2185	T-1	16.0	710310	215.35	324.29	8.56	8.12	0.1596	2.3143	8	5	G
2186	T-1	12.5	710419	31.39	143.11	6.17	12.61	0.1052	3.1037	51	0	G
2189	T-1	16.5	710310	356.62	75.30	106.99	2.86	0.1533	2.9412	2	4	E G
2190	T-1	15.0	710330	66.06	72.03	35.83	4.80	0.0826	2.5523	23	8	G
2191	T-1	16.5	710310	274.95	121.43	158.86	6.62	0.1533	2.2730	8	5	G
2194	T-1	16.0	710310	61.74	64.80	32.92	3.31	0.1730	2.7186	8	5	G
2196	T-1	16.5	710310	344.32	50.60	146.50	4.64	0.1421	2.2449	3	5	G
2198	T-1	14.5	710310	40.15	42.45	85.29	2.83	0.1296	3.2244	9	6	G
2199	T-1	17.5	710310	355.04	120.30	62.36	2.41	0.0872	2.1855	2	4	E G
2200	T-1	17.5	710330	307.04	111.20	135.52	2.46	0.0985	2.1309	50	6	G
2201	T-1	16.0	710310	349.84	176.78	12.32	12.39	0.0360	2.6657	9	6	G
2202	T-1	14.5	710330	336.01	75.73	156.05	4.15	0.3324	3.1190	23	8	G
2205	T-1	15.0	710419	356.89	186.31	7.41	7.37	0.0518	2.3668	51	0	G
2206	T-1	15.5	710330	311.49	225.46	18.19	4.78	0.1160	2.2376	23	8	G
2207	T-1	16.5	710310	48.89	100.92	17.96	5.63	0.1052	2.2975	9	6	G

2208	T-1	14.5	710330	316.58	230.60	14.58	8.53	0.1919	2.4547	23 8	G
2209	T-1	13.5	710310	158.69	297.47	78.67	2.94	0.1392	3.2080	8 5	G
2212	T-1	15.0	710310	69.12	62.34	30.47	1.75	0.1531	2.6404	9 6	G
2213	T-1	13.0	710419	239.39	311.98	5.43	8.56	0.1079	3.1633	51 0	G
2214	T-1	15.0	710330	226.84	146.50	178.21	4.10	0.0940	2.3834	23 8	G
2215	T-1	16.0	710310	352.83	18.54	171.03	2.31	0.1830	3.0537	8 5	E G
2218	T-1	15.0	710310	198.71	273.85	69.37	3.34	0.1122	2.2110	9 6	G
2224	T-1	15.0	710310	278.00	115.21	158.08	6.51	0.1127	2.3783	9 6	G
2225	T-1	16.5	710310	86.88	52.32	25.20	7.80	0.1170	2.2963	9 6	G
2228	T-1	16.0	710310	49.71	323.98	145.45	3.22	0.1903	2.5783	9 6	G
2232	T-1	17.0	710310	5.77	161.39	9.24	2.56	0.1373	2.4764	9 6	G
2233	T-1	16.5	710310	329.03	186.47	30.54	3.63	0.1085	2.7358	3 5	G
2234	T-1	14.5	710330	65.67	91.80	14.17	12.92	0.1072	2.5295	50 9	G
2235	T-1	16.5	710330	22.80	132.65	21.64	6.52	0.1376	2.3210	23 8	G
2236	T-1	15.5	710330	46.47	61.15	71.31	2.31	0.0571	2.6012	22 7	G
2237	T-1	17.0	710310	53.88	103.45	15.12	5.60	0.0646	2.3756	9 6	G
2240	T-1	18.0	710310	327.24	197.47	27.99	1.67	0.1965	2.3294	9 6	G
2241	T-1	16.0	710310	112.20	28.78	25.17	4.30	0.1284	2.1841	9 6	G
2244	T-1	16.5	710310	340.16	184.40	21.40	10.34	0.1820	2.6569	9 6	G
2245	T-1	15.0	710310	83.35	9.60	68.59	3.32	0.1495	2.4619	9 6	G
2247	T-1	15.0	710330	20.96	113.86	44.83	2.67	0.0952	3.0178	23 8	G
2248	T-1	14.5	710310	85.08	15.42	59.67	2.41	0.1772	3.1738	9 6	G
2249	T-1	17.0	710310	317.10	78.42	155.79	3.26	0.1531	2.2301	9 6	G
2251	T-1	14.5	710419	62.97	105.08	16.50	3.63	0.0417	2.7950	51 9	G
2252	T-1	17.0	710310	316.11	159.85	96.79	3.23	0.3332	2.6393	3 5	G
2253	T-1	16.0	710310	259.61	197.78	97.38	2.84	0.1522	2.1850	8 5	G
2254	T-1	17.0	710310	355.69	173.43	10.65	7.27	0.1011	2.5025	2 4	E G
2256	T-1	16.5	710310	66.76	71.64	18.35	9.03	0.1884	2.2791	9 6	G
2257	T-1	15.0	710310	175.88	200.45	162.32	12.05	0.2152	2.4624	2 4	E G
2258	T-1	13.0	710330	190.98	328.96	27.26	8.16	0.2394	2.4651	23 8	G
2261	T-1	18.0	710310	334.22	202.75	9.27	3.73	0.1443	2.1651	9 6	G
2263	T-1	15.5	710330	259.92	123.20	179.03	6.54	0.1587	2.3219	23 8	G
2264	T-1	17.0	710310	60.58	96.15	10.78	6.32	0.1095	2.3220	8 5	G
2265	T-1	17.5	710310	355.17	86.98	96.96	1.04	0.1017	2.2235	2 4	E G
2266	T-1	15.0	710310	21.27	50.45	100.19	1.65	0.1526	3.0027	9 6	G
2268	T-1	15.5	710310	89.85	324.34	104.37	3.09	0.1841	2.4545	9 6	G
2269	T-1	15.5	710330	46.59	97.57	28.98	6.27	0.1203	2.3302	23 8	G
2270	T-1	15.5	710310	357.00	171.77	10.38	23.89	0.2030	3.0292	9 6	G
2272	T-1	16.5	710310	304.64	159.02	89.67	3.06	0.1471	2.3540	8 5	G
2280	T-1	16.0	710310	348.51	60.21	136.08	2.09	0.1896	2.9654	9 6	G
2281	T-1	13.0	710419	145.11	234.67	163.49	4.70	0.0818	2.7847	53 0	G
2282	T-1	15.5	710310	14.53	147.29	10.50	7.88	0.1947	3.0420	8 5	G
2283	T-1	18.0	710310	339.33	36.63	173.71	4.91	0.2388	2.2088	9 6	G
2287	T-1	15.0	710419	205.01	185.97	162.74	6.17	0.1116	2.3540	53 0	G
2288	T-1	16.0	710310	29.93	105.08	36.65	4.05	0.1144	2.6917	9 5	G
2289	T-1	14.0	710419	51.59	106.77	20.52	9.29	0.1017	2.7737	51 0	G
2290	T-1	15.5	710310	41.08	0.32	128.58	3.62	0.1072	2.6306	9 6	G
2291	T-1	14.0	710310	244.80	241.25	72.42	3.94	0.2026	2.6295	9 6	G
2292	T-1	14.5	710310	249.31	169.82	151.45	7.88	0.3375	2.6625	2 4	E G
2294	T-1	14.5	710310	95.51	58.55	14.84	13.21	0.1004	3.0032	9 6	G
2297	T-1	16.5	710310	175.24	201.70	162.38	1.69	0.1670	2.1396	2 4	E G
2301	T-1	15.5	710310	153.83	356.93	21.71	6.26	0.1908	2.2545	9 6	G
2302	T-1	13.0	710310	193.98	176.29	176.99	16.77	0.2411	2.9579	9 7	E W
2303	T-1	15.5	710310	149.96	8.25	18.65	2.75	0.0720	2.4399	8 5	G
2307	T-1	15.5	710330	50.42	106.48	18.86	6.40	0.0969	2.5808	23 0	G
2314	T-1	16.0	710310	249.50	182.91	126.04	3.91	0.1935	2.2770	8 7	G
2316	T-1	17.0	710310	45.73	26.94	87.26	3.28	0.1881	2.3518	9 6	G
2318	T-1	17.5	710310	1.09	140.27	36.31	2.29	0.1587	2.3473	8 7	G
2320	T-1	17.5	710310	22.03	97.63	48.44	1.82	0.1817	2.2908	8 7	G

3010	T-1	17.0	710310	24.92	302.06	204.21	3.80	0.1486	2.4517	8 9	G
3015	T-1	15.5	710310	339.19	209.40	354.02	4.74	0.0745	2.1481	3 5	G
3024	T-1	15.5	710310	85.79	283.63	161.64	0.52	0.0834	2.4451	9 8	E G
3028	T-1	13.5	710310	143.56	166.43	216.70	4.37	0.3245	2.2804	2 5	E G
3033	T-1	14.5	710419	259.09	300.19	6.07	6.37	0.1394	2.4397	51 0	G
3035	T-1	16.0	710330	327.81	44.85	198.52	9.87	0.2876	2.7321	22 8	G
3036	T-1	13.5	710330	270.28	104.36	196.52	11.73	0.2218	2.6272	23 8	G
3038	T-1	17.5	710330	3.62	256.74	284.18	0.78	0.2240	2.4992	7 4	G
3041	T-1	15.0	710310	270.36	324.74	330.09	4.98	0.1968	2.7164	8 6	G
3042	T-1	16.0	710330	0.13	222.96	324.16	3.85	0.1771	2.9640	7 4	G
3044	T-1	15.0	710310	238.81	327.54	340.00	1.57	0.0523	2.4365	9 5	E G
3048	T-1	14.5	710419	0.20	182.33	9.11	3.03	0.0880	2.5939	51 0	G
3050	T-1	15.0	710310	257.45	103.70	194.29	4.27	0.1167	3.1658	2 4	E G
3051	T-1	13.0	710330	272.37	107.64	189.59	10.83	0.2085	2.9910	23 8	G
3056	T-1	16.0	710310	294.71	295.43	323.53	3.78	0.1095	2.3816	8 5	G
3057	T-1	14.0	710330	280.19	41.41	230.46	2.46	0.0458	2.5268	23 8	G
3062	T-1	17.5	710310	355.02	3.29	182.18	1.39	0.1219	2.2755	2 4	E G
3063	T-1	14.0	710310	336.28	30.53	185.14	6.30	0.1878	3.0483	9 6	G
3064	T-1	15.5	710330	4.01	264.15	277.11	0.27	0.1442	2.3481	23 8	G
3065	T-1	15.5	710310	345.87	331.21	229.72	0.81	0.1693	2.8649	8 5	G
3066	T-1	17.0	710310	26.38	154.71	352.98	3.76	0.1048	2.2994	2 4	E G
3068	T-1	16.0	710310	48.24	243.17	231.62	3.19	0.1919	2.8127	2 4	G
3069	T-1	15.0	710310	175.69	144.40	222.18	4.57	0.2353	2.5065	2 4	E G
3072	T-1	14.5	710310	114.58	53.12	359.61	13.50	0.1753	3.0300	8 5	G
3074	T-1	15.0	710330	33.26	144.62	0.53	5.46	0.1126	3.2218	22 7	G
3075	T-1	13.5	710330	87.82	98.19	346.59	0.86	0.1190	3.1321	23 7	G
3077	T-1	13.0	710419	354.60	176.32	20.92	0.73	0.1087	3.2007	51 0	G
3078	T-1	15.5	710330	88.07	227.28	203.55	4.15	0.2509	2.2930	23 8	G
3084	T-1	15.0	710310	222.76	284.82	41.17	0.54	0.0957	2.5160	2 7	E G
3085	T-1	14.0	710310	138.05	204.84	183.99	13.39	0.2619	2.4344	9 8	G
3086	T-1	16.5	710310	84.34	73.32	4.36	4.65	0.1695	2.3798	2 4	E G
3089	T-1	14.5	710419	88.11	204.00	250.84	2.06	0.0862	2.3326	51 0	G
3090	T-1	15.5	710330	262.05	319.69	343.92	6.71	0.1662	2.4958	22 6	G
3092	T-1	17.5	710310	13.18	140.08	15.66	1.91	0.2632	2.6272	2 6	E G
3097	T-1	16.5	710310	56.97	193.56	268.40	2.32	0.2115	2.5103	8 5	G
3098	T-1	13.0	710310	57.81	106.55	357.78	16.88	0.2013	3.1407	9 7	G
3099	T-1	14.5	710419	104.63	101.73	336.00	5.44	0.1047	2.2147	50 8	G
3100	T-1	13.5	710330	86.07	230.72	211.19	7.32	0.1730	2.5915	22 8	G
3101	T-1	15.5	710330	292.59	354.35	276.47	1.78	0.1422	2.3762	22 8	G
3106	T-1	16.0	710310	278.94	29.21	248.42	2.55	0.1304	2.1901	9 7	G
3108	T-1	13.5	710310	177.28	161.59	205.74	10.15	0.0710	3.4036	2 4	E G
3109	T-1	15.5	710310	287.56	17.99	248.30	2.77	0.1025	2.3977	8 6	G
3113	T-1	15.5	710330	14.20	146.91	21.82	1.49	0.1200	2.2679	23 0	G
3116	T-1	16.5	710310	70.07	147.40	316.31	1.71	0.0671	2.1769	8 5	G
3118	T-1	15.5	710310	60.29	101.06	353.90	11.59	0.2481	2.6244	8 5	G
3119	T-1	15.0	710330	28.06	261.15	251.64	1.55	0.1103	2.3979	23 9	G
3122	T-1	17.5	710310	355.28	173.96	11.34	1.58	0.0812	2.1730	2 4	E G
3123	T-1	16.0	710310	218.81	319.75	10.69	4.09	0.1123	2.2946	9 6	G
3127	T-1	17.5	710310	355.87	207.48	338.93	4.61	0.1594	2.3724	2 4	E G
3131	T-1	17.0	710310	355.76	313.94	232.00	1.57	0.1449	2.3338	2 4	E G
3138	T-1	15.0	710330	71.46	283.01	177.27	3.79	0.1341	2.2930	23 0	G
3140	T-1	17.5	710310	25.92	136.43	356.67	3.40	0.2819	2.3609	3 5	G
3141	T-1	14.5	710310	176.91	174.16	193.02	20.77	0.1488	3.1305	2 4	E G
3143	T-1	13.5	710310	92.07	71.84	2.72	26.86	0.1570	2.5596	9 7	G
3148	T-1	14.0	710330	316.75	264.04	5.77	23.56	0.3646	3.1271	23 8	G
3150	T-1	17.0	710310	355.31	346.27	199.66	2.39	0.0853	2.1819	2 4	E G
3151	T-1	16.5	710310	355.71	349.32	196.69	4.82	0.1373	2.3131	2 4	E G
3154	T-1	16.0	710310	5.24	174.58	0.40	18.80	0.1688	2.7039	8 5	G
3156	T-1	16.0	710310	305.63	50.79	198.70	12.94	0.1232	2.5570	8 5	G

3159	T-1	15.0	710310	242.34	97.56	212.23	3.82	0.0984	2.2736	9 6	G
3162	T-1	17.5	710310	355.71	146.14	39.34	1.08	0.1366	2.3127	2 6	E G
3163	T-1	12.0	710310	178.77	354.64	12.20	3.11	0.1028	5.2090	8 5	E G
3164	T-1	17.0	710310	190.05	347.41	4.46	16.42	0.0559	1.8842	2 4	E G
3165	T-1	15.5	710310	145.96	36.23	350.27	2.56	0.2059	2.1665	8 5	G
3166	T-1	15.5	710330	290.52	77.14	191.48	14.87	0.1024	2.5322	23 0	G
3167	T-1	18.5	710310	14.69	294.81	222.64	1.52	0.1861	2.1521	2 4	E G
3171	T-1	15.0	710310	192.58	49.02	306.96	2.09	0.2335	2.1157	8 5	G
3172	T-1	15.0	710310	176.25	10.57	357.74	15.60	0.2599	2.5333	2 4	E G
3176	T-1	17.0	710310	4.40	343.93	190.10	3.38	0.1793	2.4815	9 6	E G
3178	T-1	16.0	710330	308.61	233.87	20.57	2.51	0.1561	2.4328	23 0	G
3179	T-1	14.5	710310	243.79	143.09	182.56	11.15	0.2938	2.7256	2 7	G
3182	T-1	14.0	710310	141.70	138.04	262.04	2.41	0.0507	3.0824	8 5	G
3188	T-1	14.0	710330	320.94	58.60	187.55	27.42	0.2159	3.1543	22 8	G
3192	T-1	18.5	710310	18.16	316.49	192.90	5.55	0.2342	2.2321	2 4	G
3193	T-1	17.5	710310	355.55	297.88	249.03	2.26	0.1180	2.2596	2 4	E G
3194	T-1	17.0	710310	356.40	326.01	220.50	3.80	0.1733	2.4635	8 5	G
3195	T-1	14.5	710419	103.55	99.10	338.59	4.76	0.1219	2.2317	51 0	G
3198	T-1	16.0	710310	304.84	173.68	68.58	0.39	0.0429	2.6561	2 4	E G
3201	T-1	15.0	710310	80.55	86.80	356.68	5.78	0.1771	2.8408	9 6	G
3203	T-1	16.0	710330	56.97	130.34	352.45	5.14	0.0858	2.2915	23 0	G
3204	T-1	15.0	710419	140.05	55.09	351.64	5.99	0.0948	2.4095	51 0	G
3209	T-1	14.5	710310	95.73	234.91	207.22	3.37	0.0576	2.8304	9 6	G
3210	T-1	16.5	710310	50.17	135.35	340.31	1.55	0.1652	2.4679	8 5	G
3212	T-1	14.0	710330	116.16	54.77	6.04	4.13	0.1134	2.2115	23 9	G
3215	T-1	15.0	710310	186.55	174.84	185.66	6.52	0.2094	2.6405	3 4	E G
3216	T-1	14.0	710330	285.92	59.03	207.28	2.08	0.0350	2.7602	23 8	G
3219	T-1	16.0	710330	317.60	271.75	330.87	3.63	0.1285	2.2605	21 8	G
3222	T-1	15.5	710330	256.74	82.88	230.53	1.61	0.2111	2.1286	22 9	G
3223	T-1	14.5	710310	207.68	344.54	6.56	38.35	0.3292	2.4087	8 5	G
3224	T-1	16.0	710330	68.59	113.36	1.03	7.39	0.0505	2.2529	23 8	G
3225	T-1	15.0	710330	339.58	290.59	285.49	0.83	0.1483	2.9653	23 8	G
3228	T-1	16.0	710330	353.36	236.29	321.54	1.39	0.1567	2.4338	22 7	G
3230	T-1	16.5	710330	3.59	345.92	197.92	8.71	0.1531	2.4311	22 7	G
3232	T-1	14.5	710330	41.60	309.08	191.28	8.31	0.0791	2.9909	23 7	G
3243	T-1	16.0	710310	203.31	346.34	355.12	3.06	0.0390	2.2321	8 5	G
3248	T-1	17.5	710310	355.90	357.22	189.11	5.70	0.1196	2.2659	8 5	E G
3249	T-1	15.0	710310	125.09	60.22	351.55	4.55	0.0866	2.4713	9 6	G
3251	T-1	14.5	710330	291.94	283.25	352.97	9.22	0.1626	3.1763	22 7	G
3254	T-1	15.0	710310	84.05	258.06	186.25	11.44	0.1354	2.6237	9 6	G
3255	T-1	15.0	710310	246.24	123.09	185.45	19.15	0.1192	2.2619	9 6	G
3256	T-1	15.5	710419	15.69	146.01	27.43	2.62	0.1653	2.3914	53 0	G
3258	T-1	15.0	710330	208.69	96.48	248.11	1.19	0.0847	2.7778	23 8	G
3260	T-1	15.5	710310	43.13	297.06	183.63	9.28	0.2126	3.1649	2 4	G
3262	T-1	16.0	710310	221.18	302.39	30.56	2.22	0.1639	2.2094	9 6	G
3263	T-1	16.5	710310	0.25	151.46	30.79	3.01	0.2268	3.2319	3 7	E G
3264	T-1	16.0	710310	269.63	255.98	27.60	0.44	0.0893	2.3182	8 5	G
3266	T-1	13.5	710330	3.32	180.39	4.20	0.82	0.1149	3.1671	23 8	G
3268	T-1	16.0	710330	309.98	249.83	357.64	6.44	0.0881	2.3589	23 8	G
3273	T-1	15.0	710330	300.47	254.69	14.19	2.27	0.1896	2.3783	23 8	G
3274	T-1	13.5	710330	179.71	186.62	182.00	13.17	0.1760	2.7256	23 0	G
3275	T-1	15.5	710310	300.29	162.45	92.62	0.79	0.1193	2.4538	9 6	G
3277	T-1	13.0	710419	254.63	137.19	175.42	0.51	0.1470	3.1746	53 0	G
3279	T-1	16.5	710310	336.52	206.34	5.82	10.00	0.1191	2.4172	8 5	G
3280	T-1	17.0	710310	0.33	350.83	188.72	10.89	0.2399	2.4224	8 5	G
3282	T-1	18.0	710310	355.56	43.25	142.81	1.47	0.1257	2.1724	2 6	E G
3283	T-1	17.0	710310	334.27	199.49	15.33	3.06	0.1320	2.3011	9 6	E G
3284	T-1	14.0	710330	91.87	69.61	9.32	9.40	0.1626	3.1471	7 4	E G
3285	T-1	15.5	710330	40.97	300.70	189.11	4.66	0.1991	2.4257	23 0	G

3286	T-1	15.0	710330	37.59	135.04	6.61	12.52	0.1242	2.7095	23	8	G
3287	T-1	14.0	710330	34.13	287.70	216.79	0.65	0.1408	3.0503	23	8	G
3290	T-1	15.0	710419	299.69	271.36	353.57	6.26	0.0886	2.3839	51	0	G
3292	T-1	15.5	710310	28.22	191.90	320.72	2.35	0.0655	2.6593	8	5	G
3297	T-1	13.5	710419	350.73	26.69	178.84	2.07	0.1249	3.1082	53	0	G
3298	T-1	15.5	710330	10.91	343.64	187.78	18.53	0.2241	2.6590	23	8	G
3306	T-1	16.0	710310	266.11	131.80	166.39	2.32	0.1857	2.3694	9	6	B
3307	T-1	17.0	710310	313.81	168.07	71.02	0.87	0.1198	2.2574	2	4	E B
3308	T-1	14.0	710330	252.46	133.81	171.07	1.64	0.0770	3.0544	23	8	G
3309	T-1	15.5	710310	198.83	229.01	123.95	0.41	0.2132	2.3976	8	4	B
3310	T-1	16.5	710310	307.00	243.13	3.05	29.03	0.1186	2.3958	2	4	E B
3311	T-1	17.0	710310	334.39	205.44	5.90	4.34	0.0674	2.1709	8	5	B
3312	T-1	15.5	710310	249.22	304.48	358.91	1.98	0.0726	2.6490	9	5	B
3313	T-1	15.5	710310	175.36	157.98	211.12	5.30	0.0880	2.2917	2	4	E B
3314	T-1	15.0	710330	313.58	55.42	194.69	12.68	0.1486	2.6428	50	8	G
3315	T-1	18.0	710310	352.41	117.69	73.78	0.64	0.2350	2.2196	8	5	E B
3317	T-1	13.0	710310	70.22	77.91	11.62	4.62	0.2302	3.3626	3	5	E B
3318	T-1	13.5	710310	219.55	148.23	190.37	4.73	0.2075	2.4168	8	5	B
3320	T-1	15.5	710310	264.99	307.05	350.23	4.15	0.1498	2.6225	8	5	E B
3321	T-1	16.0	710310	175.50	28.71	340.28	3.51	0.1849	2.1889	2	4	E B
3322	T-1	14.0	710310	163.64	8.30	8.46	16.64	0.2569	2.5759	8	5	E B
3325	T-1	16.5	710310	355.42	25.02	163.89	2.22	0.1233	2.6189	2	4	E B
3326	T-1	16.0	710310	174.26	181.95	187.28	8.59	0.1600	2.2376	2	4	E B
3328	T-1	15.5	710310	247.00	116.84	190.19	6.14	0.0928	2.4376	8	5	B
3329	T-1	14.0	710330	247.72	111.84	195.82	9.86	0.0518	3.0127	23	8	G
3332	T-1	15.5	710310	112.47	122.51	287.78	1.57	0.2551	2.3570	8	5	B
3337	T-1	14.0	710310	146.40	215.18	175.48	5.80	0.1800	3.0516	8	5	B
3338	T-1	17.0	710330	339.70	187.43	30.35	2.76	0.1743	2.3874	22	8	G
3344	T-1	15.5	710330	180.01	194.80	174.31	5.11	0.1517	2.2528	7	4	E G
3747	T-1	14.0	710419	68.77	287.31	188.47	1.92	0.1085	2.1994	30	5	G
3770	T-1	15.0	710419	344.53	27.23	190.77	6.25	0.1275	2.2397	30	5	G
4023	T-1	15.0	710330	87.25	259.59	175.30	6.96	0.2077	2.2949	23	9	G
4024	T-1	15.5	710310	334.41	186.08	26.93	7.74	0.1313	3.1480	3	6	G
4025	T-1	15.5	710330	356.89	67.99	120.24	3.31	0.0538	2.5254	23	0	G
4030	T-1	13.0	710330	103.77	47.39	17.60	9.06	0.1515	2.7994	23	8	G
4033	T-1	15.0	710330	251.95	134.56	172.68	5.50	0.1329	2.3769	23	9	G
4034	T-1	13.5	710419	290.76	103.17	158.92	4.40	0.0327	2.8514	53	0	G
4037	T-1	18.0	710310	356.14	78.44	104.51	1.84	0.1909	2.2651	3	6	G
4038	T-1	15.0	710310	166.58	198.04	171.92	14.12	0.2447	2.4232	9	6	G
4041	T-1	16.5	710310	32.72	107.03	24.18	9.44	0.1905	2.6427	9	5	G
4042	T-1	14.5	710330	335.27	197.18	17.03	12.90	0.0915	2.5656	23	8	G
4043	T-1	15.0	710419	316.78	234.66	19.78	5.02	0.1992	2.3599	51	0	G
4044	T-1	16.0	710310	139.86	21.36	13.39	6.47	0.0935	2.3653	9	6	G
4047	T-1	14.5	710310	112.45	343.16	79.27	3.23	0.0575	2.8646	9	5	G
4048	T-1	16.0	710310	257.62	232.60	66.48	3.78	0.1542	2.5904	9	5	G
4052	T-1	13.0	710310	131.46	325.03	64.37	1.85	0.3395	3.1409	9	5	G
4053	T-1	16.0	710310	316.39	85.59	149.43	2.09	0.1209	2.7953	9	5	G
4055	T-1	15.0	710310	94.23	253.72	173.41	4.19	0.1840	2.6008	3	4	B
4058	T-1	16.0	710330	240.00	144.14	170.15	6.77	0.0924	2.2803	23	7	G
4060	T-1	17.0	710310	297.96	200.18	54.34	3.70	0.1304	2.1539	3	4	E B
4062	T-1	13.0	710419	148.43	226.47	172.95	10.80	0.0157	3.1817	53	0	G
4064	T-1	16.0	710310	294.93	146.39	107.74	0.96	0.0864	2.2032	9	5	G
4065	T-1	17.5	710310	12.78	32.69	128.78	2.18	0.1284	2.1717	3	4	E B
4068	T-1	14.0	710310	122.28	247.99	163.57	11.29	0.0847	3.1032	9	5	G
4075	T-1	15.5	710419	352.22	39.34	159.46	6.23	0.0818	3.1332	51	7	G
4078	T-1	16.0	710330	179.38	217.50	148.57	4.13	0.1172	2.2335	7	4	E G
4089	T-1	15.0	710330	35.71	76.13	48.59	1.93	0.2840	3.3869	21	6	G
4097	T-1	15.0	710310	85.93	351.95	95.13	3.88	0.0706	2.9924	9	5	G
4099	T-1	15.5	710310	106.32	346.93	72.83	3.91	0.1342	2.3176	9	5	G

4100	T-1	16.0	710310	28.82	30.87	108.88	3.35	0.1515	2.3651	9 5	G
4103	T-1	15.0	710310	330.52	130.55	87.29	3.40	0.1465	2.4022	9 4	G
4104	T-1	13.5	710419	215.87	171.54	168.15	10.51	0.0953	2.5441	53 0	G
4105	T-1	14.0	710330	298.33	125.05	145.14	1.22	0.1995	3.2814	23 8	G
4106	T-1	15.5	710310	354.63	122.61	66.26	0.95	0.1385	3.1590	9 5	G
4107	T-1	13.5	710419	106.60	65.13	11.89	9.32	0.0545	3.1664	51 0	G
4109	T-1	13.5	710310	268.63	210.62	80.78	2.10	0.1569	3.1543	9 5	B
4111	T-1	15.0	710330	319.04	189.67	46.74	4.49	0.1201	3.0910	23 8	G
4114	T-1	15.0	710419	343.84	136.64	78.92	3.04	0.1602	2.3647	51 9	G
4117	T-1	16.5	710310	283.28	238.21	35.03	4.30	0.1433	2.2975	9 5	G
4125	T-1	16.0	710310	206.07	289.58	52.71	2.17	0.1640	2.1212	9 5	B
4126	T-1	13.5	710310	171.22	349.97	18.90	7.75	0.2567	2.9421	3 4	E B
4129	T-1	15.0	710310	221.48	232.79	105.08	1.92	0.2881	2.2403	3 4	E B
4131	T-1	15.5	710330	343.63	163.40	44.84	2.81	0.1415	2.3796	50 9	G
4133	T-1	17.0	710330	333.63	96.49	123.46	2.53	0.1228	2.2048	23 7	G
4134	T-1	16.0	710310	76.36	315.25	134.73	2.53	0.1285	2.4269	9 6	G
4137	T-1	15.0	710330	160.01	3.12	16.36	7.89	0.2144	2.3950	50 6	G
4141	T-1	17.0	710310	46.32	5.86	111.58	1.64	0.1732	2.4444	9 5	B
4142	T-1	16.5	710310	272.11	235.24	45.63	4.90	0.1160	2.1992	9 6	G
4143	T-1	15.0	710310	67.21	347.96	116.78	3.04	0.0837	2.6108	9 5	B
4149	T-1	18.0	710310	351.24	172.58	18.70	3.23	0.1855	2.2070	3 4	E B
4150	T-1	13.5	710330	72.57	288.28	176.49	13.02	0.0829	2.3813	50 8	G
4152	T-1	16.0	710310	31.02	342.88	149.85	5.32	0.1936	2.1672	3 4	B
4155	T-1	14.5	710330	90.53	17.80	72.53	3.04	0.0452	2.7231	23 9	G
4158	T-1	15.5	710310	203.39	333.49	15.40	8.98	0.2685	2.3120	3 4	E B
4161	T-1	14.5	710330	250.20	128.38	182.53	13.77	0.1402	2.5982	23 9	G
4164	T-1	13.5	710419	236.76	286.81	33.42	2.27	0.0693	2.8519	51 9	G
4166	T-1	14.0	710330	237.92	297.51	20.23	10.57	0.1083	3.1329	23 7	G
4168	T-1	18.0	710330	352.37	99.00	106.16	1.93	0.3797	2.7164	7 4	E B
4169	T-1	17.0	710310	8.83	36.45	125.15	2.73	0.3050	2.8601	3 4	B
4170	T-1	15.5	710310	253.87	226.56	79.50	3.40	0.1841	2.3592	9 5	B
4172	T-1	16.0	710330	317.59	111.73	129.76	1.67	0.1382	2.4062	23 9	G
4173	T-1	15.0	710310	268.48	250.90	37.93	1.47	0.1227	3.0266	8 6	G
4175	T-1	17.5	710310	13.11	115.90	46.06	1.20	0.1428	2.2440	3 4	B
4177	T-1	14.5	710330	130.28	20.95	25.41	4.64	0.1281	2.1852	23 7	G
4178	T-1	15.5	710419	344.92	156.14	58.94	3.26	0.1658	2.3868	53 0	G
4187	T-1	15.0	710310	232.63	315.67	12.37	10.58	0.2298	2.4118	9 4	B
4188	T-1	16.5	710330	49.81	332.61	157.77	2.17	0.0760	2.2474	23 7	G
4189	T-1	16.0	710330	243.04	196.89	130.86	1.59	0.2778	2.2554	7 4	E B
4193	T-1	15.0	710310	106.21	296.33	116.76	3.15	0.2312	2.4103	9 5	B
4194	T-1	16.0	710330	231.11	164.77	159.97	6.63	0.1145	2.2744	23 7	G
4195	T-1	14.0	710419	318.51	137.66	95.52	3.19	0.0162	2.8587	53 0	G
4197	T-1	14.0	710330	190.83	236.08	123.43	4.54	0.2785	2.6583	7 4	E B
4198	T-1	16.0	710310	16.26	348.78	161.34	7.59	0.2791	2.8570	3 4	E B
4200	T-1	15.0	710310	74.38	282.77	158.93	9.32	0.2263	2.8883	3 4	B
4205	T-1	14.0	710310	141.10	221.23	169.29	13.66	0.1875	2.5821	9 5	B
4207	T-1	17.0	710310	12.82	48.40	105.90	1.98	0.3207	3.1496	9 5	B
4208	T-1	16.5	710310	48.14	343.15	137.59	2.23	0.1211	2.2335	9 5	B
4210	T-1	15.0	710310	169.89	338.96	33.45	2.72	0.0744	2.8828	3 4	E B
4214	T-1	15.5	710330	52.69	328.25	153.75	4.37	0.1221	2.6110	23 7	G
4217	T-1	16.0	710330	24.15	62.31	91.11	3.05	0.1579	2.4208	23 7	G
4220	T-1	13.5	710330	258.58	119.66	180.40	10.13	0.1021	3.0041	23 9	G
4221	T-1	15.0	710330	347.97	34.80	167.30	4.54	0.1005	3.0733	23 7	G
4225	T-1	15.5	710330	193.88	319.58	33.17	8.17	0.0255	2.3907	23 9	G
4226	T-1	16.5	710310	17.25	100.23	47.17	5.20	0.2862	2.8059	3 4	E B
4229	T-1	16.0	710330	318.09	81.66	163.31	5.25	0.1761	2.4127	23 7	G
4230	T-1	17.0	710310	6.18	134.59	37.52	2.89	0.1339	2.3866	9 5	B
4231	T-1	14.0	710310	358.93	64.74	120.71	2.25	0.0969	3.9972	3 4	E B
4232	T-1	14.5	710419	39.61	123.60	15.36	7.93	0.1649	2.7920	51 0	G

4235	T-1	16.0	710330	100.64	297.62	135.02	3.96	0.1236	2.1937	23 7	G
4236	T-1	14.0	710310	120.13	297.97	112.93	4.83	0.1343	3.2248	9 5	E W
4237	T-1	15.0	710310	56.26	338.68	141.08	5.58	0.0524	2.4931	3 4	B
4240	T-1	16.5	710310	32.84	357.26	137.86	4.24	0.1526	2.1927	3 4	B
4241	T-1	16.0	710310	301.45	83.48	171.05	12.77	0.1344	2.5985	9 5	B
4242	T-1	13.0	710330	84.79	272.64	171.30	12.02	0.1608	3.2320	23 7	G
4243	T-1	14.0	710310	231.39	146.23	170.50	9.91	0.0532	2.9532	9 5	B
4256	T-1	13.5	710419	44.37	118.60	23.95	5.58	0.0528	3.1363	53 0	G
4260	T-1	14.0	710419	115.48	322.04	108.22	2.95	0.0506	2.9164	51 8	G
4262	T-1	14.0	710330	21.06	87.59	74.58	3.29	0.0811	2.7424	50 8	G
4264	T-1	14.5	710330	286.77	250.86	29.64	8.26	0.1794	2.8466	23 7	G
4265	T-1	16.0	710330	68.80	7.34	99.37	2.51	0.1045	2.2475	23 7	G
4266	T-1	17.0	710330	322.78	94.62	145.49	2.37	0.1826	2.4358	7 4	G
4269	T-1	15.0	710310	100.63	1.18	78.94	3.32	0.0239	3.0724	9 5	G
4271	T-1	15.0	710330	265.20	256.86	38.83	6.74	0.1286	2.3781	23 7	G
4272	T-1	14.0	710419	294.22	176.20	98.26	3.73	0.1484	2.4585	53 8	G
4273	T-1	14.0	710310	88.01	299.06	137.81	5.96	0.1596	2.9487	9 5	G
4277	T-1	12.5	710419	194.26	183.10	174.65	8.10	0.0371	3.2503	53 0	G
4281	T-1	16.0	710330	303.32	160.91	98.20	2.54	0.1433	2.5951	23 7	G
4288	T-1	15.0	710310	95.74	15.28	55.65	5.67	0.1408	2.5968	9 5	G
4289	T-1	17.0	710310	41.17	48.75	56.55	4.38	0.3365	2.7212	3 4	G
4290	T-1	13.0	710419	310.01	226.51	24.22	12.41	0.1099	3.3832	53 0	G
4300	T-1	17.5	710330	340.91	83.74	130.00	2.90	0.1549	2.4454	21 6	G
4301	T-1	17.5	710310	3.17	93.80	80.64	2.37	0.1934	2.3229	3 4	G
4302	T-1	15.5	710330	6.13	126.41	53.18	5.39	0.0766	2.5723	23 7	G
4303	T-1	17.0	710310	342.01	84.40	117.30	4.11	0.0872	2.2899	3 4	G
4310	T-1	13.5	710330	81.38	66.35	19.27	13.93	0.1750	2.7429	23 7	G
4311	T-1	16.0	710310	57.24	307.11	152.09	5.71	0.2339	2.6292	9 5	G
4313	T-1	17.5	710310	10.79	31.27	131.22	4.32	0.2135	2.4770	3 4	G
4315	T-1	14.0	710310	254.33	232.45	82.02	4.41	0.2589	2.6297	9 5	G
4318	T-1	15.5	710310	42.34	72.41	62.25	4.29	0.0646	2.6783	3 4	G
4319	T-1	15.5	710310	243.47	292.53	24.84	8.94	0.1944	2.4099	9 5	G
4320	T-1	16.5	710330	23.86	115.83	42.73	3.45	0.1024	2.2719	23 7	G
4322	T-1	16.0	710330	330.85	67.40	158.28	3.01	0.1294	2.4369	23 7	G
4325	T-1	15.5	710310	96.26	353.33	78.83	2.76	0.1304	2.4388	3 4	G
4326	T-1	14.0	710310	209.67	172.97	173.96	13.73	0.2503	2.9336	9 5	G
4329	T-1	16.0	710330	264.67	253.68	48.39	4.04	0.1740	2.3504	23 7	G
4333	T-1	14.5	710330	348.78	99.88	102.74	2.64	0.1297	3.1226	23 7	G
4339	T-1	16.0	710330	302.68	211.61	42.56	6.70	0.0953	2.3437	23 7	G
4342	T-1	15.5	710330	41.20	89.84	50.39	5.21	0.0739	2.5458	23 7	G
4343	T-1	17.0	710310	51.26	31.44	86.54	1.98	0.1240	2.2139	3 4	G
4344	T-1	16.0	710310	301.53	99.78	153.89	4.15	0.1118	2.7506	3 4	G
4348	T-1	14.5	710419	19.38	126.18	40.75	6.87	0.1271	3.1689	51 9	G
4349	T-1	14.0	710330	215.56	189.46	158.05	8.87	0.3025	2.7765	21 6	G
4355	T-1	14.5	710330	156.77	238.50	146.80	4.30	0.1607	2.3477	23 7	G
4358	T-1	15.5	710330	261.54	277.51	37.60	6.26	0.2781	2.5994	7 4	G
4361	T-1	13.0	710310	135.29	222.35	170.30	15.18	0.2833	3.0138	9 5	E G
4370	T-1	16.0	710419	193.09	258.72	103.46	2.77	0.0700	2.1349	51 9	G
4371	T-1	16.5	710330	354.20	44.66	151.78	2.64	0.1469	2.3091	23 7	G
4373	T-1	16.0	710330	24.51	132.71	16.37	12.98	0.2309	2.7808	23 7	G
4376	T-1	14.5	710310	66.41	317.01	136.58	5.28	0.1968	2.4289	9 5	G
4381	T-1	16.0	710310	200.85	316.88	30.63	4.06	0.1118	2.3282	3 4	E G
4384	T-1	15.5	710310	265.94	264.11	34.67	4.52	0.1921	2.3564	9 5	G
4393	T-1	14.5	710330	343.31	110.45	99.96	2.43	0.1270	3.1196	23 7	G
4396	T-1	15.0	710330	186.25	317.04	46.25	7.78	0.1958	2.6547	7 4	G
4402	T-1	17.0	710330	343.27	159.39	52.08	2.99	0.1512	2.4229	21 6	G
4403	T-1	15.0	710330	163.73	348.24	29.42	13.81	0.2272	2.5351	7 4	G
4406	T-1	15.0	710330	0.21	169.41	18.69	14.75	0.0129	2.6183	21 6	G
4409	T-1	15.0	710310	69.59	323.63	142.28	5.04	0.0559	2.3264	9 5	G

4413	T-1	16.0	710310	63.96	46.79	50.21	3.30	0.1801	2.4357	9 5	G
4419	T-1	15.5	710310	171.58	318.69	52.81	2.81	0.0940	2.5523	3 4	E G
4623	T-1	13.5	710509	125.13	248.87	163.36	3.69	0.1513	2.7372	3 3	E G
4640	T-1	13.5	710509	166.28	0.15	25.75	11.70	0.0719	2.2922	3 3	E G
4643	T-1	14.0	710509	184.66	274.54	94.86	4.01	0.1959	2.1779	3 3	E G
4644	T-1	13.0	710509	290.53	260.96	28.64	13.67	0.2496	2.8459	3 3	G
4676	T-1	14.0	710509	177.30	319.63	59.28	6.35	0.0297	2.2350	3 3	E G
4678	T-1	14.5	710509	353.15	134.27	71.51	4.00	0.0794	2.3918	3 3	E G
4714	T-1	13.5	710509	177.15	254.85	124.58	4.85	0.0174	2.3659	3 3	E G
4823	T-1	16.0	710419	314.64	188.64	69.13	3.23	0.1824	2.4689	30 5	G
4825	T-1	15.0	710419	139.69	280.43	122.13	3.17	0.1819	2.2579	30 5	G
4826	T-1	14.5	710509	178.21	327.15	53.40	6.80	0.0075	2.3223	3 3	E G
4827	T-1	13.5	710419	101.41	254.36	182.25	8.59	0.1453	2.7989	30 5	G
4831	T-1	14.5	710419	285.63	258.05	27.94	13.42	0.1602	2.6315	30 5	G
4835	T-1	14.0	710509	278.52	275.60	26.50	17.63	0.1494	1.9947	3 3	G
4841	T-1	14.5	710419	264.32	289.84	20.25	13.12	0.1881	2.6623	30 5	G
4843	T-1	15.0	710419	343.94	179.17	35.77	5.85	0.1318	3.1616	30 5	G
4845	T-1	13.0	710419	86.70	1.31	96.59	3.32	0.0742	2.9649	30 5	G
4854	T-1	14.0	710419	271.28	260.67	31.48	10.65	0.0917	3.0132	30 5	G
4855	T-1	14.0	710419	272.02	142.24	161.29	4.74	0.1841	2.5411	30 5	G
4861	T-1	13.0	710509	342.89	55.59	164.93	4.11	0.1090	2.9416	3 3	E G
4862	T-1	13.0	710419	58.20	286.50	185.43	11.53	0.2292	2.7663	30 5	G
4863	T-1	14.5	710509	164.69	214.03	176.92	4.25	0.1279	2.3672	3 3	E G
4868	T-1	15.0	710509	322.02	181.36	72.78	4.45	0.1594	2.4325	3 3	G
4869	T-1	14.5	710509	118.48	32.93	35.66	12.47	0.1394	2.2895	3 3	G
4871	T-1	14.5	710509	177.47	334.86	49.19	5.28	0.0544	2.1608	3 3	E G
4874	T-1	15.0	710509	357.37	154.19	53.10	2.87	0.2758	3.1389	3 3	E G
4875	T-1	15.0	710509	178.79	207.77	175.24	3.05	0.0087	2.3622	3 3	E G
4878	T-1	13.0	710509	178.72	206.19	171.71	10.33	0.1196	3.0881	3 3	E G
4881	T-1	14.5	710509	277.31	226.14	72.11	4.50	0.1178	2.3615	3 3	G
4882	T-1	14.0	710509	167.71	252.24	139.99	3.60	0.0640	2.2830	3 3	E G
4883	T-1	13.0	710509	183.12	255.39	120.82	3.29	0.0850	2.7429	3 3	E G
4886	T-1	14.0	710509	227.37	313.39	30.37	6.67	0.1251	2.3240	3 5	G
4943	T-1	15.0	710509	358.70	135.85	66.06	3.45	0.0263	2.3221	3 3	E G
4954	T-1	14.0	710509	191.86	205.76	164.42	5.12	0.1357	2.2778	3 3	E G
4962	T-1	14.5	710509	200.32	177.08	187.23	6.94	0.0981	2.1508	3 3	E G

1990 RS6 = 1990 QT16 (S. Nakano)

1990 VE12 = 1990 WQ9 (S. Nakano)

1991 NO2 = 1991 PH3 (S. Nakano, MPC 18998)

1991 RQ = 1991 PN16 (S. Nakano)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 ** J2000.0 ** Williams
 (348) May Obs. 76 M 91.87828 Peri. 10.09019
 H 9.4 G 0.15 Opp. 33 n 0.19278444 Node 90.42602
 rms res. 1".08 (M-C) 1892-1991 e 0.0738669 Incl. 9.75751

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 ** J2000.0 ** Bowell
 (842) Kerstin Obs. 40 M 27.02657 Peri. 350.71354
 H 10.8 G 0.15 Opp. 15 n 0.17027583 Node 6.29050
 rms res. 0".88 (M-P) 1916-1991 e 0.1348547 Incl. 14.62658

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 ** J2000.0 ** Williams
 (3903) Kliment Ohridski Obs. 40 M 14.66539 Peri. 304.90280
 H 12.1 G 0.15 Opp. 5 n 0.19661342 Node 342.62878
 rms res. 0".92 (M-C) 1972-1990 e 0.0843373 Incl. 1.31680

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 ** J2000.0 ** Williams
 (3966) 1976 SD3 Obs. 29 M 139.52457 Peri. 59.12017
 H 12.1 G 0.15 Opp. 6 n 0.16985937 Node 32.75726
 rms res. 0".86 (M-C) 1976-1991 e 0.0268949 Incl. 3.55873

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 ** J2000.0 ** Williams
 (4413) Mycerinos Obs. 20 M 181.53281 Peri. 182.84561
 H 13.6 G 0.15 Opp. 5 n 0.27097405 Node 212.66048
 rms res. 0".79 (M-C) 1960-1991 e 0.0724049 Incl. 2.26113

(4979)* 1949 PQ = 1977 DW10 = 1978 SW4 = 1978 TY5

Discovered 1949 Aug. 2 by K. Reinmuth at Heidelberg.

Id. S. Nakano (MPC 9583), N. S. Chernykh (d, MPC 6287)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 Nakano
 M 131.84247 (1950.0) P Q
 n 0.30889428 Peri. 206.34188 +0.10017104 +0.99485879
 a 2.1673521 Node 69.41017 -0.90999100 +0.09765751
 e 0.1452591 Incl. 0.91147 -0.40234579 +0.02681420
 P 3.19 H 14.2 G 0.15

Residuals in seconds of arc

490802	024	1.6-	2.0-	780927	095	2.1-	0.8-	900327	675	1.7+	2.2-
490820	690	(5.3+	0.7+)	781003	095	1.4-	0.8-	900401	675	0.6-	2.3-
490821	024	1.6-	0.6+	781004	675	1.2+	0.5+	900401	675	1.3-	2.0-
490822	024	1.4+	0.6-	781005	675	0.5+	0.1-	900422	675	0.0	0.2+
490824	690	0.9+	0.4-	781007	095	0.1+	0.7+	900422	675	2.7-	1.3+
490826	690	1.1+	1.0+	810905	095	2.4+	1.5-	900525	675	0.3-	1.0+
770219	381	0.6-	0.0	870624	801	0.5+	2.1+	900525	675	0.5-	1.2+
770219	381	1.5+	0.5-	900327	675	1.7+	0.1-				

(4980)* 1974 SP1 = 1977 EV3 = 1980 TV11 = 1986 XJ1 = 1988 CB1

Discovered 1974 Sept. 19 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Id. A. Lowe (k, MPC 13169), C. M. Bardwell (ibid.)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 Bardwell
 M 322.21877 (1950.0) P Q
 n 0.17226518 Peri. 355.50609 +0.56176686 -0.82681212
 a 3.1989273 Node 60.31334 +0.76000276 +0.50226682
 e 0.1454597 Incl. 1.86541 +0.32682382 +0.25319905
 P 5.72 H 12.3 G 0.15

Residuals in seconds of arc

740919	095	1.6+	2.2-	861128	046	(3.9+	1.0+)	910808	675	0.1+	0.5+
740921	095	2.0+	0.2-	861128	046	(4.8+	1.6+)	910808	675	0.7+	0.3-
740923	095	(3.6+	3.1-)	861204	688	0.9+	0.3-	910901	372	1.6-	1.7+
770315	381	0.6-	1.2+	861204	688	0.4+	1.3+	910901	372	1.6-	1.4+
770315	381	0.5+	0.5+	880214	033	0.6-	0.7+	910907	372	1.4-	0.1+
801010	095	0.1-	1.5-	880215	033	0.7+	0.1+	910909	894	1.9+	0.7+
801017	095	2.2-	2.2-	880215	033	1.3+	0.3+	910909	894	1.0+	0.6+
861125	046	0.6-	1.1+	880317	675	0.1-	0.1+	910911	372	1.6-	1.3+
861125	046	1.4-	0.3+	880317	675	1.4+	0.4-	910911	372	0.6-	0.5+
861126	046	2.3-	1.2+	880322	675	1.1-	0.2-				
861126	046	1.8+	0.5+	880322	675	0.6-	0.1-				

(4981)* 1974 VS = 1942 CL = 1977 HC1 = 1978 SA = 1979 VN2 = 1979 YM1
 = 1987 KL4

Discovered 1974 Nov. 12 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Id. A. Lowe (k, MPC 15239), N. S. Chernykh (d, ibid.), C. M. Bardwell
 (ibid., unpublished)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Bardwell

M	231.95288		(1950.0)		P		Q		
n	0.20235673	Peri.	299.51896	+0.98191840			+0.18583780		
a	2.8733660	Node	49.79553	-0.15318576			+0.89194604		
e	0.0804869	Incl.	2.70645	-0.11122218			+0.41218513		
P	4.87	H	12.0	G	0.15				

Residuals in seconds of arc

420212	053	(24.9- 18.7+)X	870530	413	0.9-	0.6-	910321	809	0.6-	0.1-
741112	095	1.2+ 1.3+	910209	801	0.3+	0.0	910321	809	0.2-	0.1-
741117	095	(0.7+ 4.7+)	910209	801	0.5+	0.0	910323	809	0.7+	0.0
770424	675	0.2+ 0.9+	910211	801	0.5+	0.1-	910323	809	1.0+	0.0
770425	675	0.2- 0.9+	910211	801	0.4+	0.2-	910323	809	1.1+	0.1+
780927	809	0.4- 0.4-	910305	071	2.4-	0.1-	910324	809	0.0	0.5+
780928	809	0.2+ 0.1+	910305	071	1.2-	0.5-	910324	809	0.2+	0.5+
780929	809	0.4+ 0.5-	910320	809	0.3-	0.5-	910324	809	0.2+	0.5+
791114	095	1.6- 1.1-	910320	809	0.1-	0.6-	910419	801	0.4+	0.0
791223	095	(4.5- 1.8+)	910320	809	0.2+	0.7-	910419	801	0.3+	0.2-
870530	413	0.8+ 0.3-	910321	809	0.8-	0.1-				

(4982)* 1977 PE1 = 1982 UR5 = 1982 VC6

Discovered 1977 Aug. 14 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. C. M. Bardwell (MPC 8786), K. Hurukawa (d, MPC 9476)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Bardwell

M	11.75309		(1950.0)		P		Q		
n	0.21261389	Peri.	127.96492	+0.99770844			+0.02637607		
a	2.7801931	Node	230.61236	-0.04657322			+0.93572109		
e	0.1808429	Incl.	4.62408	+0.04907961			+0.35175326		
P	4.64	H	13.2	G	0.15				

Residuals in seconds of arc

770814	095	0.8+ 0.5+	910806	801	0.4+	1.1+	910904	413	0.2+	0.0
770821	095	0.0 0.6+	910807	675	1.1+	0.1-	910907	801	0.5+	0.2+
770909	095	2.1- 0.7+	910807	675	0.1+	0.2+	910907	801	0.4+	0.2+
821020	095	0.2+ 1.4+	910807	675	0.3-	0.4+	910908	801	0.4+	0.3+
821021	095	0.6+ 0.0	910808	675	1.4-	0.6-	910908	801	0.3+	0.2+
821108	095	0.7- 1.1+	910808	675	0.4+	0.2+	910908	801	0.4+	0.3+
860707	010	(12.8- 1.2-)	910808	675	0.4-	2.8-	910909	046	0.8-	1.0-
860708	010	(4.2- 1.0-)	910810	675	0.1+	1.0+	910909	046	1.0-	2.6-
860708	801	0.2+ 0.5+	910810	675	0.1+	1.5+	910910	046	0.7-	2.0-
880111	054	0.3- 0.6-	910812	801	0.6+	0.7+	910910	046	0.0	2.2-
910806	801	0.4+ 1.1+	910812	801	0.6+	0.7+				

(4983)* 1977 RD7 = 1972 EO = 1979 DO = 1979 FO1 = 1986 CS

Discovered 1977 Sept. 11 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. C. M. Bardwell (MPC 12568)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Bardwell

M	180.25002		(1950.0)		P		Q		
n	0.27851528	Peri.	252.56908	-0.94922024			+0.31346137		
a	2.3222200	Node	305.69083	-0.27461193			-0.86720584		
e	0.0281242	Incl.	1.89711	-0.15352269			-0.38690568		
P	3.54	H	13.3	G	0.15				

Residuals in seconds of arc

720314	095	(12.2+ 2.1+)	771012	675	0.3-	0.8+	771021	675	0.5+	2.1-
770911	095	0.5+ 0.2+	771016	675	0.5+	1.8-	771022	675	0.5-	1.1+
771007	675	0.2+ 0.0	771016	675	0.2-	0.6-	771022	675	0.6-	0.5-
771011	675	0.3- 0.2-	771017	675	0.4+	1.1-	790226	330	0.8+	2.1+
771011	675	0.7+ 0.3+	771017	675	0.6-	0.6+	790323	095	1.8-	0.4-
771012	675	0.2+ 0.6+	771021	675	1.5+	0.0	860214	046	0.1+	0.3+

860214	046	1.4+	2.1-	900525	801	0.2-	0.4-	910908	801	0.3+	0.2+
881201	897	2.3-	1.2-	900525	801	0.3-	0.2-	910909	801	0.1-	0.1+
881201	897	1.2-	0.9+	910809	675	0.6-	1.1+	910909	801	0.2+	0.1+
881202	875	(0.3+	3.5-)	910810	675	0.8-	0.2+	910912	801	0.0	0.0
881202	875	1.0+	1.7-	910812	801	0.3-	0.3+	910912	801	0.3-	0.2-
881205	875	0.9+	1.5+	910812	801	0.1-	0.3+				
881205	875	0.3+	1.6+	910908	801	0.3+	0.3+				

(4984)* 1978 VU10 = 1971 UL = 1981 RO3 = 1981 SK4

Discovered 1978 Nov. 7 by E. F. Helin and S. J. Bus at Palomar.

Id. H. Kaneda (MPC 15876), N. S. Chernykh (d, ibid.)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

											Kaneda
M	29.58353			(1950.0)			P				Q
n	0.29139547	Peri.		66.06380		+0.79525395				+0.60534741	
a	2.2532749	Node		256.66545		-0.56800770				+0.72456548	
e	0.2099667	Incl.		1.97598		-0.21198679				+0.32948350	
P	3.38	H	15.1			G	0.15				

Residuals in seconds of arc

711026	029	0.2-	1.8-	781130	675	0.5+	0.4+	910815	675	1.0-	0.8-
711026	029	1.2+	1.3-	810902	095	1.3-	2.1+	910816	675	1.7-	1.2-
711030	029	0.7+	0.6+	810925	095	(3.0-	3.4+)	910816	675	0.5-	0.7-
781105	675	0.2+	0.0	910811	801	0.6+	0.5+	910909	801	0.3+	0.6+
781106	675	(3.3+	0.9+)	910811	801	0.5+	0.6+	910909	801	0.2+	0.5+
781107	675	0.2-	1.7+	910812	801	0.7+	0.0	910912	801	0.6-	0.0
781108	675	0.8-	0.8-	910812	801	0.7+	0.5+	910912	801	1.8+	0.4+
781129	675	0.3+	0.2+	910815	675	0.2-	1.1-				

(4985)* 1979 QK4 = 1974 WT = 1985 PY1

Discovered 1979 Aug. 23 by C.-I. Lagerkvist at the European Southern Observatory.

Id. T. Kobayashi (MPC 13151); 1979 QK4 = 1983 HU (ibid.) is invalid

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

											Marsden
M	357.67831			(1950.0)			P				Q
n	0.16982111	Peri.		14.54794		+0.87412321				-0.48569035	
a	3.2295469	Node		14.51148		+0.44412498				+0.79620820	
e	0.1628242	Incl.		0.84002		+0.19662556				+0.36077333	
P	5.80	H	12.9			G	0.15				

Residuals in seconds of arc

710324	675	0.4-	1.3-	790823	809	0.5-	1.1-	850920	095	(3.6-	0.2+)
710325	675	0.0	0.7-	790823	809	0.4-	0.7-	910911	675	0.0	0.9-
710326	675	1.7-	2.2-	790826	809	0.3-	0.9+	910911	675	0.0	0.8-
710326	675	0.9-	0.3-	790826	809	0.4+	0.4-	910914	675	0.5+	0.7-
710327	675	1.2+	2.4-	790826	809	0.0	0.1+	910914	675	0.9+	0.7-
710402	675	1.6-	0.4+	790830	809	1.7+	0.7+	911002	367	1.4+	1.1+
710416	675	1.1+	1.0+	790830	809	(1.6+	9.4-)	911002	367	0.1+	1.8-
710416	675	0.3+	1.1+	850814	010	1.9-	1.5+	911009	801	0.5+	0.4-
741118	095	0.1-	0.5+	850816	010	(3.3-	1.4+)	911009	801	0.4-	1.0-

(4986)* 1979 SL7 = 1987 SC5

Discovered 1979 Sept. 23 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. S. Nakano (MPC 12697)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

											Nakano
M	293.56297			(1950.0)			P				Q
n	0.23953789	Peri.		233.52694		+0.04665401				-0.99741410	
a	2.5677530	Node		213.92280		+0.94492555				+0.06181423	
e	0.2087146	Incl.		5.62154		+0.32394307				-0.03666223	
P	4.11	H	13.4			G	0.15				

Residuals in seconds of arc

790923	095	0.7+	1.5+	871001	054	1.3+	0.6+	910811	801	0.2+	0.1+
791014	095	0.8-	0.2-	890302	413	0.1-	0.3+	910811	801	0.1-	0.0
791110	095	0.1+	1.1-	890302	413	1.2+	0.8-	910903	413	0.6+	0.2-
791111	095	0.3-	0.6-	890304	413	1.2-	0.3+	910903	413	0.8+	0.5+
870902	095	2.4+	2.4+	910806	801	0.1-	0.3+	910904	413	0.4-	0.3+
870916	095	1.0+	0.9+	910806	801	0.1-	0.1+	910904	413	0.9-	0.6+
870929	054	1.2-	0.2+	910806	675	0.4-	0.5-	910906	801	0.1+	0.1-
870929	054	0.1-	1.0-	910806	675	0.6-	0.4+	910906	801	0.3+	0.0
870930	054	0.7-	0.0	910809	675	0.2-	1.9-	910908	801	0.3+	0.2+
870930	054	1.6-	1.7-	910809	675	0.5-	2.1-	910908	801	0.1+	0.5+

(4987)* 1980 FH12 = 1983 BV = 1990 DT

Discovered 1980 Mar. 20 at the Perth Observatory.

Id. S. Nakano (MPC 16228), W. Landgraf (ibid.)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

				Nakano	
				P	Q
M	125.95962	(1950.0)			
n	0.28778269	Peri.	272.48312	-0.69824114	+0.70926148
a	2.2720939	Node	312.71439	-0.59304293	-0.64899734
e	0.0639641	Incl.	7.58564	-0.40094812	-0.27522827
P	3.42	H	13.5	G	0.15

Residuals in seconds of arc

800320	323	0.7-	0.0	900228	400	0.6+	1.0-	910811	801	0.1-	0.9+
800320	323	0.3+	0.2+	900302	400	0.2+	0.9-	910812	801	0.2+	0.9+
800321	323	2.4+	0.2+	900302	400	0.5-	1.4+	910812	801	0.1+	1.0+
800324	323	1.0-	0.7+	910806	675	0.9+	1.8-	910906	801	0.5-	0.2+
800409	323	0.4+	0.2-	910806	675	0.2-	1.0-	910906	801	0.5-	0.1+
800411	323	1.1-	0.2-	910810	675	0.2-	0.1+	910909	801	0.2-	0.3+
830120	801	0.4+	0.9+	910810	675	0.2-	1.1-	910909	801	0.3-	0.3+
900228	400	0.3-	0.3+	910811	801	0.4+	1.1+				

(4988)* 1980 VU1 = 1990 HU4 = 1991 RN1

Discovered 1980 Nov. 6 at the Purple Mountain Observatory.

Id. H. Kaneda, D. W. E. Green

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

				Marsden	
				P	Q
M	9.60366	(1950.0)			
n	0.26408789	Peri.	185.00126	+0.98428923	-0.17653194
a	2.4060449	Node	185.17016	+0.16324673	+0.91710817
e	0.2138850	Incl.	2.12794	+0.06726980	+0.35742004
P	3.73	H	14.0	G	0.15

Residuals in seconds of arc

710324	675	0.4-	0.2+	910905	511	0.5+	0.8+	910916	552	0.1+	0.3-
710325	675	1.4-	0.2-	910906	511	0.1+	0.6+	910916	552	0.1+	0.2-
710326	675	0.7+	1.1+	910908	552	1.7+	0.4+	910917	589	(3.9-	3.0-)
710326	675	0.1+	1.4-	910908	552	2.4+	0.7-	910917	589	2.0-	1.7-
710327	675	0.8+	0.2+	910910	552	2.0-	0.6+	910917	589	1.0-	1.1-
710513	675	1.2+	0.2+	910910	552	0.2-	1.0+	910917	596	1.1-	0.1+
710514	675	0.8-	0.0	910911	552	1.8+	1.3-	910917	596	2.0-	0.4+
801010	095	2.5-	0.4+	910911	552	2.4+	1.3-	911001	552	0.2-	1.6+
801106	330	1.3+	1.6-	910911	552	1.9+	1.1-	911001	552	1.6-	2.2+
801110	330	1.5+	0.2-	910916	589	(3.6-	1.5-)	911013	552	0.4-	1.1-
900422	675	0.4-	1.7-	910916	589	1.3-	0.8+	911013	552	0.7+	0.0
900422	675	0.3-	0.0	910916	589	(0.3-	3.3+)				

(4989)* 1981 DX1 = 1987 SN4 = 1989 EA6

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

Id. C. M. Bardwell (MPC 14946)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Bardwell

M	352.37127		(1950.0)		P		Q
n	0.23869799	Peri.	79.06895	+0.79684402			-0.58607392
a	2.5737728	Node	316.59743	+0.43633334			+0.72630828
e	0.1829634	Incl.	12.33802	+0.41791484			+0.35915685
P	4.13	H	13.4	G	0.15		

Residuals in seconds of arc

810209	413	1.8-	0.1-	810409	413	0.9-	1.3+	890304	413	1.1+	1.8+
810212	413	0.1+	0.6-	810409	413	1.4+	0.7+	890307	413	0.6+	2.1-
810228	413	(3.1-	0.8+)	810501	413	1.1-	0.5+	890307	413	0.2-	1.8-
810228	413	(4.3-	1.1-)	810502	413	0.1+	0.8-	910809	675	0.6+	0.5+
810306	413	(3.7-	1.0+)	870925	095	0.1-	1.2-	910810	675	1.2+	1.2-
810306	413	1.4+	1.2-	870926	095	(7.8+	11.0-)	910909	801	0.1-	0.5-
810308	413	1.5-	0.7+	870929	688	0.8-	0.4+	910909	801	0.1-	0.4-
810308	413	1.2+	0.5-	870929	688	1.4+	0.5+	910912	801	0.6-	0.1-
810312	413	1.8-	0.9-	890302	413	1.6-	0.3+	910912	801	0.7+	1.3-
810312	413	1.0+	0.9-	890302	413	0.8-	0.1-				

(4990)* 1981 ET26

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

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	6.66928		(1950.0)		P		Q
n	0.29551094	Peri.	278.16905	+0.02008328			+0.99976384
a	2.2323057	Node	352.96574	-0.88848407			+0.01403891
e	0.1773402	Incl.	3.88718	-0.45846780			+0.01658826
P	3.34	H	14.0	G	0.15		

Residuals in seconds of arc

710324	675	0.5+	0.8-	810405	413	(4.1+	1.2-)	910313	809	0.3-	0.4-
710325	675	1.7-	0.6-	810406	413	0.8-	0.5+	910313	809	0.1-	0.5-
710325	675	0.5-	0.4-	810406	413	1.8+	0.3-	910313	809	0.5+	0.7-
710326	675	1.2+	0.9-	810407	413	1.8-	1.0+	910313	809	1.2+	1.0-
710327	675	0.4+	0.4-	810407	413	(3.5+	0.9-)	910313	809	1.5+	1.1-
791122	675	1.6+	0.1+	810410	413	0.6+	1.0+	910315	809	0.1-	0.5+
791124	675	0.1-	0.4-	810410	413	1.5+	0.5-	910315	809	0.3+	0.2+
791125	675	0.2+	0.1-	810502	413	0.6-	0.4+	910315	809	0.9+	0.0
791127	675	1.7-	0.3+	810503	413	0.4-	0.3+	910316	809	1.1-	0.0
810209	413	0.0	0.6-	910225	809	1.2-	1.0+	910316	809	0.6-	0.2-
810212	413	0.7+	0.1-	910225	809	0.9-	1.0+	910316	809	0.2+	0.4-
810213	413	0.6-	0.8+	910225	809	0.8-	1.3+	910320	801	0.1+	0.1-
810302	413	0.4+	0.4+	910226	809	0.3+	0.8+	910320	801	0.1+	0.1-
810306	413	0.8-	0.9-	910226	809	0.7+	0.7+	910321	801	0.3-	0.1+
810306	413	1.8+	0.4-	910226	809	1.6+	0.6+	910321	801	0.2-	0.4-
810311	413	1.9-	1.1-	910311	809	0.8+	0.1-	910419	801	0.2+	0.2+
810315	413	0.3-	0.1-	910311	809	(2.7+	0.7-)	910419	801	0.1+	0.4+
810315	413	0.5-	0.9+	910311	809	(4.8+	1.4-)				
810405	413	1.4-	0.6+	910313	809	0.7-	0.3-				

(4991)* 1981 EU29 = 1988 RA10

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

Id. B. G. Marsden (MPC 15409)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Marsden

M	219.47141		(1950.0)		P		Q
n	0.19003743	Peri.	8.23575	+0.98820044			+0.14382024
a	2.9962401	Node	343.21744	-0.14885876			+0.82080574
e	0.1070218	Incl.	10.51323	-0.03606894			+0.55280528
P	5.19	H	12.5	G	0.15		

Residuals in seconds of arc

810212	413	0.9+	1.3+	880915	809	1.9-	0.2+	891201	688	0.1+	0.1+
810301	413	1.3+	0.3-	880915	809	1.8-	0.4+	910220	413	0.6+	0.3+
810306	413	1.3-	0.6+	880918	809	0.6+	0.4+	910311	809	0.2-	0.9-
810306	413	(3.6+	0.2+)	880918	809	0.7+	0.1+	910311	809	0.4-	0.9-
810308	413	0.4-	0.7-	880918	809	0.8+	0.1-	910311	809	0.4-	0.9-
810308	413	0.9+	0.9+	880920	809	0.8-	0.1+	910312	809	0.6+	0.7+
810501	413	0.1-	0.1+	880920	809	0.6-	0.0	910312	809	0.8+	0.7+
880914	807	1.5+	0.1-	880920	809	0.5-	0.1+	910312	809	1.1+	0.7+
880914	809	(4.1-	1.0+)	881006	807	1.4+	0.2+	910313	809	0.9-	0.1+
880914	809	(3.9-	0.9+)	881007	807	0.5+	0.2-	910313	809	0.8-	0.0
880914	809	(3.7-	1.1+)	891130	688	0.1-	0.3+	910313	809	0.6-	0.0
880915	807	1.2+	0.0	891130	688	0.0	0.2+				
880915	809	1.9-	0.3+	891201	688	0.0	0.0				

(4992)* 1982 UX10 = 1986 VG3

Discovered 1982 Oct. 25 by L. V. Zhuravleva at the Crimean Astrophysical Observatory.

Id. S. Nakano (MPC 14785)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	173.68741	(1950.0)		P		Nakano	Q
n	0.23840586	Peri.	58.08508	+0.34087586		+0.91869971	
a	2.5758749	Node	233.15757	-0.92454794		+0.28915246	
e	0.1115666	Incl.	14.43416	-0.17033716		+0.26903847	
P	4.13	H	12.8	G	0.15		

Residuals in seconds of arc

781130	675	0.8+	0.2+	861104	010	1.7+	0.7-	901018	801	0.1+	1.2-
781201	675	1.1+	1.1+	861104	010	(4.1+	0.5+)	901018	801	0.1+	1.2-
821025	095	1.6-	1.2-	861104	010	(4.8+	0.2+)	901023	095	(2.4-	8.1+)
821109	095	2.1-	0.8-	900915	095	0.3-	0.5+	901115	801	0.7-	0.2+
821114	095	1.3-	1.6-	900923	095	0.7+	1.3+	901115	801	0.4-	0.0
861007	095	0.4+	2.9+	901017	801	0.3+	1.3-	901120	801	0.7-	0.6+
861011	095	2.1+	2.1+	901017	801	0.3+	1.4-	901120	801	0.7-	0.7+

(4993)* 1983 GR = 1983 JS = 1988 VA3

Discovered 1983 Apr. 11 by H. Debehogne and G. DeSanctis at the European Southern Observatory.

Id. S. Nakano (d, MPC 10752; MPC 14017), T. Kobayashi (ibid.)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	128.77614	(1950.0)		P		Nakano	Q
n	0.27019187	Peri.	185.36177	-0.74876922		+0.65899039	
a	2.3696700	Node	36.18919	-0.60353111		-0.63339086	
e	0.0595910	Incl.	6.93061	-0.27403441		-0.40564478	
P	3.65	H	12.8	G	0.15		

Residuals in seconds of arc

830411	809	1.6-	0.3+	881108	399	0.3+	0.4+	900320	385	0.8+	0.3-
830411	809	2.0-	1.3+	881108	399	1.7+	0.3+	900428	801	1.0-	1.6-
830411	809	1.9-	2.3+	881108	399	2.5+	0.8-	900428	801	0.4-	0.4-
830507	688	1.2+	0.8-	881111	399	1.6-	1.9-	910807	801	0.2+	0.1-
830507	688	0.3+	2.4-	881111	399	1.0-	0.2+	910807	801	1.2-	0.4+
830515	688	0.4+	2.1-	881111	399	0.4+	1.4-	910812	801	0.2+	0.4-
830515	688	1.2+	2.5-	881111	399	0.6-	0.3-	910812	801	0.3+	0.5-
881104	046	(5.0-	1.2-)	881114	399	1.1-	1.3-	910906	801	0.2-	0.7-
881104	046	(5.2-	4.6-)	881114	399	1.0+	0.7-	910906	801	0.8+	0.6-
881105	046	(1.4-	4.4-)	881114	399	0.9+	0.0	910908	801	0.7+	0.1+
881105	046	(0.2+	5.1-)	900320	385	0.3-	0.5+	910908	801	0.4-	0.7+

(4994)* 1983 RK3 = 1965 AE = 1989 YP6

Discovered 1983 Sept. 1 by H. Debehogne at the European Southern Observatory.

Id. S. Nakano (MPC 16232)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

						Nakano	
M 201.08885				(1950.0)		P Q	
n	0.19910751	Peri.	3.97111	+0.81743702		-0.57580637	
a	2.9045417	Node	31.20147	+0.52762632		+0.73761459	
e	0.1992473	Incl.	1.72694	+0.23109993		+0.35266376	
P	4.95	H	13.4	G	0.15		

Residuals in seconds of arc

650101	330	0.2+	2.5+	830902	809	0.1-	1.1-	830909	809	(2.0+	4.2+)
710324	675	1.2-	0.9-	830902	809	1.3+	0.8-	830914	809	0.3+	0.5-
710325	675	0.3+	0.5+	830903	809	0.1+	0.2+	830914	809	0.1+	0.8-
710326	675	0.8-	1.3+	830903	809	1.0+	1.1-	830916	809	1.2-	0.8-
710326	675	0.5-	2.8-	830903	809	1.1+	0.1-	830916	809	1.1-	0.7-
710326	675	0.7+	0.2+	830904	809	0.1-	1.1+	891229	372	0.5+	1.4-
710326	675	(0.1+	4.3-)	830904	809	0.1+	1.1+	891229	372	0.6+	2.1-
710327	675	0.7-	0.2+	830904	809	0.0	1.2+	900105	372	1.7-	0.2-
710327	675	0.2-	2.0-	830906	809	(1.0+	3.6+)	900105	372	1.0-	1.4+
710402	675	0.6+	0.7-	830906	809	(1.2+	3.6+)	900117	372	(13.4+	0.6-)
710416	675	(0.8+	3.1-)	830906	809	(1.4+	3.7+)	900117	372	(14.6-	0.1-)
710416	675	0.3-	0.3-	830908	809	(2.0+	5.3+)	900117	372	1.7-	1.4-
830901	809	0.6+	1.0-	830908	809	(2.2+	5.2+)	900117	372	0.1+	0.9-
830901	809	0.5+	1.2-	830908	809	(2.4+	5.1+)	900124	372	1.5+	2.0-
830901	809	0.3+	0.8-	830909	809	(2.1+	4.3+)	900124	372	(2.0+	3.5-)
830902	809	0.1-	1.6-	830909	809	(2.1+	4.2+)				

(4995)* 1984 QR = 1971 BV = 1989 CY

Discovered 1984 Aug. 28 by S. Swanson at Palomar.

Id. S. Nakano (MPC 14349), E. F. Helin (ibid.)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

						Nakano	
M 341.04213				(1950.0)		P Q	
n	0.27519339	Peri.	88.55824	+0.59956704		-0.77004316	
a	2.3408705	Node	321.71004	+0.51952182		+0.58173776	
e	0.3117770	Incl.	20.60500	+0.60878276		+0.26194409	
P	3.58	H	13.0	G	0.15		

Residuals in seconds of arc

710125	095	0.3+	1.0+	890208	809	0.6+	0.1+	890213	875	1.6-	1.9+
840828	675	0.5+	0.0	890208	220	(1.1+	6.5-)	890213	875	2.4-	1.1+
840828	675	(3.7+	2.8-)	890208	220	(7.3+	3.9-)	890214	809	0.3+	0.5-
840830	675	(4.0-	0.3-)	890209	809	0.6+	0.1-	890214	809	0.2+	0.4-
840901	675	0.3-	0.1-	890209	809	0.8+	0.1-	890224	809	0.7+	0.1+
840901	675	0.5+	0.0	890209	809	0.8+	0.1-	890224	809	0.2+	0.2+
840902	675	1.1-	0.5+	890210	809	0.9+	0.2+	890224	809	0.1-	0.2+
840902	675	0.0	0.9-	890210	809	1.0+	0.1+	890226	809	0.5+	0.5+
840920	675	1.0-	1.4+	890210	809	1.0+	0.0	890226	809	0.5+	0.3+
840920	675	0.8+	0.4+	890210	875	0.5-	0.8+	890226	809	0.4+	0.1+
840924	675	0.3-	0.5+	890210	875	0.3-	1.1+	890228	809	0.0	0.1+
840924	675	1.1+	1.2-	890211	675	0.3-	0.0	890228	809	0.0	0.1+
840928	675	0.2-	0.2-	890212	809	0.4+	0.2-	890228	809	0.1-	0.1+
840929	675	1.0+	0.1-	890212	809	0.4+	0.1-	890301	809	0.1-	0.6-
890205	049	1.4-	0.8-	890212	809	0.3+	0.1-	890301	809	0.1-	0.4-
890205	049	1.3-	0.2-	890212	675	0.5+	2.1-	890301	809	0.2+	0.1-
890206	875	1.2+	1.9+	890213	049	1.9-	0.4+	890302	809	0.4-	0.2-
890206	875	1.1-	0.2+	890213	049	2.2-	1.0+	890302	809	0.4-	0.2-
890207	220	(1.5+	5.1-)	890213	809	0.3+	0.0	890302	809	0.4-	0.4-
890208	809	0.5+	0.1+	890213	809	0.5+	0.7-	890303	809	0.2-	0.6-
890208	809	0.6+	0.1+	890213	809	0.6+	0.0	890303	809	0.1-	0.6-

890303	809	0.2-	0.6-	910806	801	0.2+	0.6+	910811	801	0.5+	1.0+
890306	675	(3.4-	3.6-)	910806	801	0.1+	0.8+	910811	801	0.4+	1.2+
890306	675	0.3-	2.3-	910806	675	0.4+	0.3+	910904	675	1.5-	1.3-
890312	399	0.3-	0.2-	910806	675	0.4+	0.4-	910904	675	2.1-	2.5-
890312	399	1.2+	0.3+	910810	675	0.6-	0.6+	910906	801	0.2+	0.1+
890312	399	0.9+	0.1-	910810	675	0.1+	0.4+	910906	801	0.3+	0.1-

(4996)* 1986 PX5 = 1978 TJ4 = 1978 VJ12

Discovered 1986 Aug. 11 by L. G. Karachkina at the Crimean Astrophysical Observatory.

Id. S. Nakano (MPC 14787)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	81.70355		(1950.0)			P				Nakano	Q
n	0.24225250	Peri.	274.05124			+0.89254273				-0.44338346	
a	2.5485346	Node	112.28529			+0.44095202				+0.81980675	
e	0.2381740	Incl.	5.10482			+0.09449226				+0.36239206	
P	4.07	H	13.3			G	0.15				

Residuals in seconds of arc

781004	095	1.4-	0.8+	880217	675	0.3-	1.0+	900914	675	0.2-	0.2-
781102	095	0.8+	0.9-	880217	675	0.0	2.1-	900914	675	0.0	0.9-
860811	095	2.1+	1.5-	900827	675	0.1+	0.8-	900916	675	0.0	0.5+
860909	095	0.5+	2.3-	900827	675	0.7+	0.5-	900916	675	0.4-	0.5+
860929	095	2.1+	1.0+	900828	095	(3.1-	4.3+)				
861006	095	1.6-	1.0+	900828	095	2.2-	2.5+				

(4997)* 1986 TM

Discovered 1986 Oct. 6 by L. G. Karachkina at the Crimean Astrophysical Observatory.

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	350.21924		(1950.0)			P				Bardwell	Q
n	0.20262159	Peri.	57.35357			+0.40251017				-0.91012695	
a	2.8708615	Node	10.43012			+0.54585875				+0.15246288	
e	0.3253494	Incl.	32.87102			+0.73486311				+0.38525835	
P	4.86	H	12.2			G	0.15				

Residuals in seconds of arc

861006	095	2.1+	1.5-	880219	801	0.8+	0.5-	910806	801	0.1-	0.3+
861010	095	0.9+	0.4+	880317	801	(5.2+	0.3+)	910806	801	0.1-	0.0
861011	095	0.6+	0.6+	880413	801	(4.3-	5.4+)	910808	801	0.1-	0.1+
861031	801	1.3-	0.9-	890604	474	0.1-	0.7-	910808	801	0.0	0.4-
861128	801	0.4-	0.0	890604	474	0.6+	0.7-	910906	801	0.2-	0.8+
861227	801	1.8-	0.5+	890608	474	1.5+	0.2-	910906	801	0.4-	1.1-
870129	801	0.2+	1.1+	890608	474	1.2+	0.5+	910907	801	0.0	0.6+
870202	801	2.8-	0.7+	900718	474	1.2-	0.3+	910907	801	0.1+	0.7+
880215	801	1.8-	1.9+	900718	474	0.9-	0.5+				

(4998)* 1986 VG = 1983 CU2

Discovered 1986 Nov. 5 by K. Suzuki and T. Urata at Toyota.

Id. S. Nakano (MPC 12943)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	299.58240		(1950.0)			P				Urata	Q
n	0.18876917	Peri.	102.90199			-0.08842785				-0.99579836	
a	3.0096455	Node	352.05549			+0.83401597				-0.06095885	
e	0.0664237	Incl.	9.91287			+0.54460801				-0.06833475	
P	5.22	H	11.3			G	0.15				

Residuals in seconds of arc

780315	675	1.1-	0.2+	861007	095	(1.7+	6.1+)	861105	413	0.4-	0.0
780316	675	0.6-	0.5+	861104	413	2.1+	1.9-	861105	413	1.1+	1.1-
830215	688	1.6+	0.9-	861104	883	0.1+	0.3+	861105	881	0.0	1.1+
830215	688	0.9+	2.1-	861104	883	1.2+	1.6+	861105	881	0.3-	0.3+

861105	010	(4.4+	0.3+)	861205	881	0.3-	0.4+	900504	413	0.8-	0.0
861105	010	(10.7-	1.5+)	861229	881	0.9-	0.2+	910906	885	0.7+	0.3-
861108	413	0.1-	0.2-	861229	881	0.1-	0.6+	910906	885	0.3+	1.0-
861109	413	0.4+	0.6-	880119	026	0.2-	0.4-	910912	801	0.3-	0.1+
861111	887	2.2-	0.5+	880210	881	0.3+	1.3+	910912	801	0.1-	0.1+
861111	887	1.9-	0.2-	880210	881	0.8-	1.0+	910928	385	0.1+	0.5+
861203	413	0.8+	1.4-	880312	881	0.7-	0.1-	911003	881	0.7-	0.1+
861205	881	1.1+	0.7-	900503	413	0.8+	0.4-	911003	881	0.0	0.9+

(4999)* 1987 CJ = 1966 CZ

Discovered 1987 Feb. 2 by E. W. Elst at the European Southern Observatory.

Id. L. D. Schmadel (MPC 15246)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	347.57978		(1950.0)			P		Bardwell		Q
n	0.18837420	Peri.	346.00694			-0.78654975				-0.61296200
a	3.0138510	Node	155.70314			+0.58262347				-0.77683210
e	0.0492329	Incl.	10.49486			+0.20466897				-0.14425487
P	5.23	H	11.9			G	0.15			

Residuals in seconds of arc

660214	330	0.0	0.0	870301	809	0.9-	0.2+	870330	054	0.3-	0.9+
870202	809	1.4-	0.6+	870301	809	0.5-	0.1+	870424	033	1.1+	0.3-
870202	809	0.6-	1.3+	870301	809	0.2-	0.2+	870424	033	1.2+	0.2+
870202	809	0.6+	0.8+	870301	809	0.5-	0.3+	870427	033	1.2+	0.5-
870202	809	0.5-	0.1+	870301	809	0.5-	0.4+	870427	033	0.3+	1.0-
870202	809	0.9-	0.8-	870301	809	0.4-	0.6+	870429	033	2.4+	0.7-
870204	809	1.0+	0.3-	870302	054	(4.2+	2.8-)	870429	033	0.9+	0.6-
870204	809	1.0+	0.8-	870303	688	1.3+	0.7+	890902	071	1.4+	0.9-
870205	809	1.5-	0.7+	870303	809	0.9-	0.2-	890902	511	0.1+	0.6+
870205	809	0.7+	0.9-	870303	688	0.2+	0.2-	890902	071	0.4+	1.5-
870223	054	1.7+	0.1+	870303	809	0.8-	0.2-	890902	511	0.1+	0.6-
870224	809	0.1+	0.6+	870303	809	1.1-	0.2-	890903	071	1.2-	1.6-
870224	809	0.2+	0.5+	870304	809	0.5-	0.6-	890903	071	0.3+	1.7-
870224	809	0.3+	0.6+	870304	809	0.4-	0.6-	890904	511	0.2-	0.1-
870224	054	0.4-	1.5+	870304	809	0.5-	0.1-	890904	511	(1.6+	3.2-)
870225	809	0.1-	0.9+	870304	399	1.4+	1.2-	901020	413	2.2-	0.7-
870225	809	0.1-	0.8+	870304	399	0.8+	1.4-	901020	413	0.9+	1.8+
870225	809	0.1-	0.7+	870304	399	1.5+	1.8-	901112	809	0.6-	1.0+
870226	809	0.2-	0.8+	870305	809	0.5-	0.6-	901112	809	0.5+	0.7+
870226	809	0.1-	0.4+	870305	809	0.8-	0.6-	901112	809	0.2+	0.8+
870226	809	0.0	0.4+	870305	809	0.8-	0.6-	901118	809	0.1+	0.0
870227	809	0.1-	0.1-	870306	809	1.0-	1.3-	901118	809	0.9+	0.1+
870227	809	0.1+	0.0	870306	809	1.0-	1.2-	901118	809	1.5+	0.4+
870227	809	0.3+	0.3-	870306	809	0.6-	0.9-	901119	809	0.3+	1.9-
870227	809	0.3+	0.0	870308	809	0.4-	0.7-	901119	809	0.3-	1.8-
870227	809	0.4+	0.0	870308	809	0.3-	0.8-	901119	809	1.0-	1.9-
870227	809	0.3+	0.1-	870308	809	0.2-	0.7-				

(5000)* 1987 QN7 = 1979 UK1 = 1989 EA11

Discovered 1987 Aug. 23 by E. F. Helin at Palomar.

Id. S. Nakano (MPC 15558)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	3.59352		(1950.0)			P		Nakano		Q
n	0.24416039	Peri.	230.68691			+0.92683056				-0.37169802
a	2.5352409	Node	151.01915			+0.36933467				+0.87697149
e	0.2678871	Incl.	6.29869			+0.06765360				+0.30456785
P	4.04	H	14.0			G	0.15			

Residuals in seconds of arc

791021	805	0.1-	0.1+	870927	095	(0.4+	3.7-)	910815	675	0.0	0.7-
791023	805	0.5-	0.6-	890305	033	0.4+	0.6-	910815	675	0.3+	0.1-
791023	805	0.1-	0.7+	890305	033	0.4-	0.2+	910816	675	0.3-	0.4-
870823	675	0.8+	0.1+	910807	801	0.2-	0.4+	910907	801	0.2+	0.4+
870823	675	0.6+	2.1+	910807	801	0.3-	0.3+	910907	801	0.1+	0.4+
870828	675	0.4-	0.8-	910807	675	0.2+	0.1+	910909	801	0.0	0.0
870828	675	0.9+	0.9+	910808	675	0.8-	0.7-	910909	801	0.2+	0.0
870904	095	0.2-	0.5+	910808	675	0.3+	0.1+				
870924	095	0.3+	2.2-	910808	675	1.0-	1.0-				

(5001)* 1987 SB1 = 1952 RF = 1977 EN4 = 1982 KQ3

Discovered 1987 Sept. 19 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. T. Kobayashi (MPC 15711), S. Nakano (ibid.)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

				Nakano	
M	20.76006	(1950.0)		P	Q
n	0.22671245	Peri.	149.76311	+0.76201825	+0.64616112
a	2.6637030	Node	169.65288	-0.63134046	+0.75592330
e	0.1715955	Incl.	13.67857	-0.14400494	+0.10514640
P	4.35	H	12.9	G	0.15

Residuals in seconds of arc

520915	024	0.6-	1.1+	870921	071	0.2-	1.1-	900330	095	0.4-	0.2-
770315	381	0.6+	0.6-	870921	071	0.8-	1.3+	910709	801	0.2-	0.2+
770315	381	1.1+	2.3-	870922	071	0.9-	0.9-	910709	801	0.2-	0.2+
820523	095	0.8+	0.7-	870924	095	(1.1+	4.9+)	910710	801	0.4-	0.0
820526	095	0.5-	0.1-	870924	071	(3.8-	4.4-)	910710	801	0.3-	0.2+
870904	095	2.1+	0.8+	870925	071	(8.2-	0.5-)	910710	657	0.6-	0.0
870919	688	0.5+	2.0+	870927	095	1.6+	0.1+	910710	657	0.3-	0.2+
870919	688	0.3+	1.4-	870929	688	0.0	1.0+	910806	801	0.4+	0.2-
870919	071	(1.6-	3.6-)	870929	688	0.1+	0.6-	910806	801	0.5+	0.2-
870919	071	(0.1+	5.1-)	871016	688	(5.1+	4.5+)	910807	801	0.4+	0.1-
870919	071	0.8-	2.4-	871016	688	(3.3+	4.1+)	910807	801	0.4+	0.2-
870920	071	1.0-	1.8-	900330	095	1.9-	0.9+				

(5002)* 1987 SS3 = 1951 JN = 1983 GD2

Discovered 1987 Sept. 20 by E. W. Elst at the Bulgarian National Observatory.

Id. S. Nakano (MPC 14198), B. G. Marsden (ibid.)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

				Kawanishi	
M	114.78225	(1950.0)		P	Q
n	0.27771714	Peri.	171.83649	+0.16367790	+0.98615732
a	2.3266672	Node	107.58091	-0.90662871	+0.16096634
e	0.2071396	Incl.	1.59410	-0.38888806	+0.03979412
P	3.55	H	13.5	G	0.15

Residuals in seconds of arc

510502	711	0.5+	1.6+	Y	870918	809	0.4-	0.4-	870926	809	0.4+	0.7-
510503	711	(2.6-	9.0-)	Y	870918	809	0.2-	0.3-	870927	809	0.6+	0.3-
830410	095	1.1+	1.5+		870918	809	0.2-	0.4-	870927	809	0.4+	0.4-
830512	095	0.1-	0.2+		870920	071	(3.7-	3.3+)	870927	809	0.5+	0.6-
870826	095	(3.6-	1.3+)		870920	071	(1.0-	3.4+)	870928	809	1.1+	0.2-
870901	095	1.4+	0.3+		870922	095	2.1-	0.3-	870928	809	1.1+	0.2-
870914	809	1.3-	2.2+		870923	809	0.4-	0.6-	870928	809	1.0+	0.2-
870914	809	0.5-	1.2+		870923	809	0.4-	0.8-	900401	675	0.7+	1.4-
870914	809	0.3-	1.2+		870923	809	0.4-	0.7-	900401	675	0.0	1.3-
870916	809	0.3+	0.0		870925	095	1.9-	0.8+	900525	801	1.4-	0.2-
870916	809	0.5+	0.2+		870926	809	0.2+	0.6-	900525	675	0.3-	1.3-
870916	809	0.5+	0.3+		870926	809	0.3+	0.7-	900525	801	1.3-	0.0

(5003)* 1988 ER2 = 1989 SF10 = 1991 BZ2

Discovered 1988 Mar. 15 by W. Ferreri at the European Southern Observatory.

Id. H. Kaneda (MPC 16698), G. V. Williams (MPC 18629)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

				Williams				
M	(1950.0)	P	Q					
n	0.29183827	Peri.	280.54432	-0.99681882	-0.07334641			
a	2.2509951	Node	255.25475	+0.07970092	-0.91729782			
e	0.0914965	Incl.	1.84797	+0.00000919	-0.39138858			
P	3.38	H	14.0	G	0.15			

Residuals in seconds of arc

710324	675	1.2-	0.5+	880315	809	0.7-	0.5+	890929	809	0.5+	1.0-
710325	675	1.3-	0.3-	880316	809	0.8-	0.7-	890929	809	0.6+	0.9-
710325	675	0.4-	0.5-	880316	809	0.1+	0.2+	890929	809	0.8+	0.9-
710326	675	0.3-	0.4+	880321	809	0.3-	0.6-	910115	033	0.7+	1.8-
710327	675	1.4+	1.1-	880321	809	0.3-	1.2+	910115	033	0.2+	0.6-
710402	675	0.7+	0.4-	880321	809	0.8+	1.0+	910116	033	0.2+	1.0-
710416	675	(0.5+	3.2-)	880322	809	0.5+	0.8-	910117	033	0.1-	0.3-
710416	675	0.3-	1.1-	880322	809	0.7+	0.8-	910122	675	0.4-	0.7+
710513	675	0.9-	1.4-	890928	809	0.1-	1.3-	910122	675	1.1-	0.6+
710514	675	0.2+	1.5-	890928	809	0.2+	1.2-	910209	675	0.2+	0.4+
880315	809	0.3-	0.3+	890928	809	0.6+	1.1-	910209	675	0.3-	0.0

(5004)* 1988 RR3 = 1978 RF5 = 1990 FW2

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

Id. S. Nakano (MPC 16582)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

				Nakano				
M	(1950.0)	P	Q					
n	0.29384943	Peri.	86.07819	-0.29554851	-0.95509597			
a	2.2407126	Node	21.14899	+0.85167514	-0.27339595			
e	0.0693502	Incl.	3.34348	+0.43278232	-0.11422060			
P	3.35	H	14.6	G	0.15			

Residuals in seconds of arc

780906	095	0.6-	1.2+	881005	807	0.2-	0.4-	910714	675	1.5-	1.2-
880908	033	0.8+	0.3+	881008	807	1.1-	1.4-	910719	675	0.4+	0.8+
880909	033	0.0	0.1+	881104	807	0.1-	0.3+	910802	809	0.8-	0.1-
880909	033	0.9+	0.5-	881105	807	0.1-	0.7+	910802	809	0.7-	0.0
880910	033	0.3+	0.2+	881106	807	0.4-	0.5+	910802	809	1.2-	0.7+
880910	033	0.5+	0.3-	881107	807	0.5-	0.3-	910807	809	2.1+	0.9+
880911	033	0.6+	0.6-	900317	033	0.7-	0.1+	910807	809	0.8+	0.7+
880918	807	2.0+	0.1-	900318	033	0.4+	0.6-	910807	809	1.6+	1.3+
881004	807	1.7-	0.4-	910714	675	0.8-	2.5-				

(5005)* 1988 UB = 1978 VM2 = 1986 AF2

Discovered 1988 Oct. 16 by S. Ueda and H. Kaneda at Kushiro.

Id. S. Nakano (MPC 13862)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

				Kawanishi				
M	(1950.0)	P	Q					
n	0.29157059	Peri.	108.23940	+0.36620950	-0.93041843			
a	2.2523726	Node	320.26885	+0.84486299	+0.33901377			
e	0.1712125	Incl.	1.30570	+0.38999632	+0.13925229			
P	3.38	H	14.1	G	0.15			

Residuals in seconds of arc

781030	010	0.7-	1.3-	881016	399	1.1-	0.6-	881031	399	1.6+	2.7+
781101	010	1.1-	0.2+	881016	399	1.4-	0.5+	881031	399	1.6+	0.7-
781101	010	2.2+	0.8-	881016	399	1.1-	1.7-	910803	809	0.5-	1.6-
860112	688	0.8-	1.5-	881019	399	1.4-	0.7-	910803	809	0.7-	0.5-
860112	688	0.4+	0.1+	881019	399	1.1+	1.4+	910803	809	0.9+	0.0
881016	399	(4.4-	1.0-)	881031	399	0.3-	1.4+	910805	809	2.2+	0.1-

910805	809	2.0+	0.7-	910807	675	0.4-	0.2-	910907	801	1.2-	0.4+
910805	675	0.1+	0.6+	910807	675	0.3-	0.9-	910907	801	0.7-	1.7-
910805	809	2.3+	0.6+	910811	801	0.3-	0.3-	910909	801	1.2-	1.0+
910805	675	0.1+	0.8+	910811	801	0.6-	0.0	910909	801	1.2-	0.3+

(5006)* 1989 GL5 = 1932 EY = 1982 BN8 = 1986 TS2
 Discovered 1989 Apr. 5 by E. F. Helin at Palomar.

Id. S. Nakano (MPC 14796)
 Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 Nakano
 M 235.90029 (1950.0) P Q
 n 0.17302592 Peri. 21.00834 -0.54915284 -0.82564400
 a 3.1895441 Node 102.51253 +0.74657561 -0.55423996
 e 0.0590163 Incl. 7.61659 +0.37557425 -0.10549901
 P 5.70 H 11.0 G 0.15

Residuals in seconds of arc

320315	024	0.3+	0.7+	890406	675	0.3-	1.0-	910815	675	0.9+	1.0-
820119	095	1.2+	0.9-	890406	675	0.2+	1.5-	910816	675	1.1+	1.1-
820120	095	0.7-	1.7-	890429	675	2.5-	2.2-	910816	675	1.1+	1.5-
861007	688	2.2+	1.9-	890429	675	(2.5-	3.2-)	910907	675	1.7-	0.5+
861007	688	1.2-	1.8-	890501	675	0.6-	1.0-	910907	675	1.1-	0.9+
890405	675	1.3+	0.3+	890501	675	1.4-	2.1-	910909	675	0.5+	0.3+
890405	675	0.1+	0.3+	910815	675	0.1-	0.4-	910909	675	1.1+	1.1-

(5007)* 1990 UH2 = 1981 TT2 = 1989 KH
 Discovered 1990 Oct. 20 by R. H. McNaught at Siding Spring.

Id. S. Nakano (MPC 17457)
 Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 Nakano
 M 141.79741 (1950.0) P Q
 n 0.22473714 Peri. 160.96650 +0.86507148 +0.49961192
 a 2.6792885 Node 168.72798 -0.48498816 +0.85595270
 e 0.1878710 Incl. 13.35759 -0.12821009 +0.13316495
 P 4.39 H 13.2 G 0.15

Residuals in seconds of arc

750123	413	0.9+	0.7-	890601	675	2.5-	1.2-	901020	413	1.4+	2.3+
811005	095	0.9-	2.0+	890601	675	0.7+	0.7+	901022	413	(17.8+	10.4+)
880321	675	0.4-	1.1+	890602	675	0.5-	1.6+	901022	413	0.8+	1.0-
880321	675	0.1-	1.5+	890707	413	2.4+	0.1-	901108	413	(4.0-	1.8-)
890530	675	(0.6-	9.9+)	890710	675	1.0+	0.0	901109	413	0.5-	1.3-
890531	675	(3.1+	7.6+)	890710	675	1.5+	1.6-	901109	413	1.1+	0.6+
890531	675	1.8-	1.1+	901020	413	1.9-	0.9-	901217	413	0.3-	0.0

(5008)* 1991 DV = 1926 RT = 1949 OS = 1968 HF = 1969 RO1 = 1971 BA2
 = 1986 XL

Discovered 1991 Feb. 20 by A. Sugie at the Dynic Astronomical Observatory.

Id. S. Nakano (MPC 17973)
 Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 Nakano
 M 68.90238 (1950.0) P Q
 n 0.29906733 Peri. 41.50854 -0.99642329 +0.06274787
 a 2.2145734 Node 141.97700 -0.07797937 -0.94082752
 e 0.0608810 Incl. 5.27195 +0.03255513 -0.33302594
 P 3.30 H 13.0 G 0.15

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

260905	672	(0.09-	0.04+)	Y	690913	095	(3.5+	3.5-)	861202	688	0.9+	0.0
260906	672	(0.05-	0.09+)	Y	710131	095	(2.5+	3.4+)	910220	402	0.7-	0.3-
490728	024	0.8-	0.5-		790920	675	0.8+	0.2-	910220	402	0.7-	0.2-
490730	024	0.4+	2.0-		790921	675	0.7+	0.6-	910221	402	0.2-	0.9-
680418	095	1.7+	2.1+		861202	688	1.4-	0.1-	910305	071	1.0-	0.1+

910305	071	1.0-	0.3-	910309	402	0.1-	0.4-	910316	046	(2.9-	3.0-)
910306	402	1.3+	0.2-	910312	402	0.0	0.2-	910316	046	(3.8-	2.6-)
910309	402	0.2-	1.0-	910312	402	0.2+	1.1-				

(5009)* 2562 P-L = 1941 DE = 1957 WU = 1990 BD

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. T. Kobayashi (k, MPC 15901), C. M. Bardwell (ibid.)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Bardwell

M	150.35945		(1950.0)		P		Q
n	0.28088148	Peri.	139.76999	-0.99800776		+0.06051102	
a	2.3091597	Node	43.70927	-0.06246108		-0.90772628	
e	0.1559166	Incl.	1.48093	-0.00889480		-0.41517637	
P	3.51	H	13.4	G	0.15		

Residuals in seconds of arc

410224	053	(26.2-	68.0+)X	900121	391	0.5-	0.5+	900223	675	0.2-	0.0
410225	053	(7.9-	15.4-)X	900124	896	2.1-	0.7-	910805	675	0.8+	0.8-
410226	053	(16.0-	55.5-)X	900124	896	0.6-	0.0	910805	675	1.3+	0.1+
571126	760	0.1-	1.1+	900124	391	(3.9+	2.3+)	910807	675	2.7+	1.2-
571126	760	(2.0+	3.0-)	900124	391	(7.7+	3.7+)	910807	675	1.5+	0.8-
600924	675	0.3+	0.7-	900125	896	1.9-	0.5-	910904	809	0.7+	1.1-
600926	675	0.0	0.0	900125	896	2.3+	2.3-	910904	809	0.5+	0.1-
600928	675	0.9-	0.5+	900127	675	0.6+	0.6-	910904	809	0.7-	0.5-
600929	675	0.8+	0.6+	900127	675	0.2-	0.4+	910907	809	0.8-	1.2-
601017	675	0.2+	1.5+	900127	391	(3.6+	1.8+)	910907	809	1.1-	1.0-
601022	675	0.9-	1.1-	900127	391	(3.3+	2.5+)	910907	809	1.4-	1.5-
601026	675	0.1-	0.1+	900130	675	0.7+	0.4-	910907	801	0.6-	0.2-
880915	675	0.1-	1.5-	900130	675	0.5+	0.4-	910907	801	1.6-	0.2+
880915	675	0.8+	0.3-	900216	896	1.5-	0.0	910909	801	0.9+	0.2+
900120	391	(7.0+	1.8-)	900216	896	0.2+	0.9-	910909	801	0.7-	0.2+
900120	391	(5.6+	1.1-)	900223	675	0.6+	2.7-				

(5010)* 4594 P-L = 1981 EU32 = 1990 FA1

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. S. Nakano (MPC 16439)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Nakano

M	124.66802		(1950.0)		P		Q
n	0.22014258	Peri.	43.85039	-0.79820876		+0.60157637	
a	2.7164394	Node	172.92600	-0.59845006		-0.78604805	
e	0.2024457	Incl.	14.63864	-0.06870442		-0.14224742	
P	4.48	H	12.1	G	0.15		

Residuals in seconds of arc

600924	675	0.5-	0.4+	900322	402	0.4-	0.7+	910715	801	0.2+	1.2+
600926	675	0.5-	0.7-	900325	402	0.3+	0.3+	910808	801	0.4+	0.7+
600927	675	1.1+	0.7+	900325	402	1.2+	0.2-	910808	801	0.3+	0.7+
600928	675	0.1-	0.7-	900326	402	1.0-	0.4-	910808	675	1.3-	2.3-
601022	675	0.2-	0.3-	900326	402	1.2-	0.7+	910808	675	0.4+	1.5-
601025	675	0.3-	0.7+	900402	402	0.5+	0.2-	910811	801	0.2+	0.8+
601026	675	0.1-	0.5+	900402	402	0.2+	0.3-	910811	801	0.2+	0.7+
810304	808	0.8+	0.5+	900816	801	0.5-	0.5-				
900322	402	0.1+	0.2-	910715	801	0.0	0.5+				

(5011)* 6743 P-L = 1983 TF2

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. E. Roemer (MPC 16883), G. V. Williams (ibid.)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M 279.22607	(1950.0)		P	Q
n 0.47139230	Peri. 105.36160	-0.43324528		-0.90097601
a 1.6351128	Node 10.40429	+0.76957733		-0.38324317
e 0.4999674	Incl. 7.39819	+0.46909408		-0.20338854
P 2.09	H 17.0	G 0.15		

Residuals in seconds of arc

600924 675	0.1-	0.4-	831005 010	0.2+	0.6+	831009 010	1.6-	2.3+
600924 675	1.3+	1.0-	831005 010	2.4+	1.6+	850908 413	0.4+	0.5-
600926 675	0.7-	0.1-	831007 010	2.2-	2.1-	850908 413	2.6+	0.5-
600926 675	0.9+	1.1-	831007 010	1.6+	0.2+	910817 413	0.3-	0.2+
600927 675	1.6-	0.1+	831007 010	1.1-	0.4+	910915 691	0.3-	0.7+
600927 675	0.9+	0.1-	831007 010	(3.5+	1.3+)	910915 691	0.4-	0.3+
600928 675	0.4-	0.1+	831008 010	1.8-	0.4-	910915 691	0.8-	0.9+
600928 675	1.4+	0.5-	831008 010	(5.3+	0.7+)	910915 691	0.2-	0.5+

(5012)* 9507 P-L = 1984 SV6 = 1988 AW2 = 1991 GD3

Discovered 1960 Oct. 17 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. O. Kippes (MPC 9761), S. Nakano (MPC 13303, MPC 18445)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Nakano

M 211.72147	(1950.0)		P	Q
n 0.08196063	Peri. 333.14061	+0.99093652		-0.12511401
a 5.2488706	Node 34.15666	+0.13349066		+0.87651701
e 0.0840668	Incl. 4.99658	+0.01500172		+0.46482731
P 12.03	H 10.6	G 0.15		

Residuals in seconds of arc

601017 675	0.1-	0.1-	840930 809	0.1+	0.8+	910408 809	1.3+	0.1-
601022 675	0.6-	0.4-	840930 809	0.3-	0.5+	910408 809	1.3+	0.2-
601024 675	1.3+	0.9-	840930 809	0.3-	0.3+	910410 809	0.0	1.4-
601026 675	1.1+	1.0-	880111 033	0.8+	0.0	910410 809	2.0-	0.1-
770211 675	1.5-	0.0	880111 033	0.2+	0.0	910410 809	1.2-	1.2-
770212 675	0.1+	0.3-	910320 809	1.4+	1.4+	910410 809	0.3+	1.1-
840928 809	0.4-	0.3-	910320 809	1.4+	1.2+	910410 809	0.3-	0.8-
840928 809	0.5-	0.2-	910320 809	1.5+	1.1+	910410 809	1.0-	1.9-
840928 809	0.4-	0.0	910321 809	0.9-	1.5+	910419 809	(3.1-	1.6+)
840929 809	0.2+	0.0	910321 809	0.9-	1.5+	910419 809	(4.6-	2.6+)
840929 809	0.1-	0.4+	910321 809	0.8-	1.5+	910419 809	(3.5-	1.8+)
840929 809	0.2-	0.9+	910408 809	0.5+	0.8-			

1952 SW1 = 4849 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M 320.76808	(1950.0)		P	Q
n 0.23627789	Peri. 184.41697	-0.76115400		+0.63254839
a 2.5913177	Node 36.13706	-0.58733088		-0.57855034
e 0.0990205	Incl. 14.06079	-0.27511275		-0.51493887
P 4.17	H 13.5	G 0.15		

Residuals in seconds of arc

520922 672	0.5+	0.6+	520925 672	1.1-	0.3+	521121 672	0.2-	0.8+
520923 672	0.2-	0.2+	521017 672	0.3+	0.5-	710513 675	0.8-	1.6+
520923 672	0.2+	0.3+	521017 672	0.5-	0.3-	710514 675	0.3+	0.3-
520923 672	0.0	0.2+	521018 672	0.1+	0.8-	710516 675	0.3+	1.7-
520924 672	0.3+	0.3+	521018 672	0.2-	0.8-			
520924 672	1.2+	1.1-	521121 672	0.1-	0.5+			

1973 SQ3 = 1973 SJ6 = 1991 RW9

Id. S. Nakano (d, MPC 14930), E. Bowell

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Bowell

M	29.49718		(1950.0)		P		Q	
n	0.27399384	Peri.	162.58655	+0.98860575			+0.14959614	
a	2.3476978	Node	188.86027	-0.14777230			+0.94333978	
e	0.1562318	Incl.	6.23309	-0.02867075			+0.29619429	
P	3.60	H	14.0	G	0.15			

Residuals in seconds of arc

730919	675	0.3-	1.0-	730925	095	1.9+	1.1-	731004	675	1.0-	0.9-
730919	675	1.4-	0.2-	730928	095	2.4+	1.1+	731005	675	1.7-	0.2-
730920	675	0.5-	0.3-	730929	675	0.0	0.9+	731005	675	1.0+	0.4+
730924	675	0.5+	0.0	730929	675	0.6+	0.6+	910910	675	1.2+	2.2+
730924	675	0.2-	1.1-	730930	675	0.0	0.4+	910910	675	0.8-	1.0-
730925	675	0.4+	1.4+	730930	675	0.4-	0.3+	910917	675	0.5-	0.9-
730925	675	0.7-	0.0	731004	675	0.7-	0.7-				

1973 SS4 = 1973 UB3 = 1990 TM15 = 1990 UH6

Id. B. G. Marsden (d, MPC 9064), G. V. Williams

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	353.44628		(1950.0)		P		Q	
n	0.17440913	Peri.	114.82247	-0.65801481			-0.74661567	
a	3.1726578	Node	17.46930	+0.51749004			-0.54280436	
e	0.1860719	Incl.	19.03060	+0.54701058			-0.38461471	
P	5.65	H	10.5	G	0.15			

Residuals in seconds of arc

730927	095	1.0-	0.1+	900927	095	2.0+	0.8-	901017	095	0.1-	0.5+
730928	095	0.4+	0.2-	900927	095	(1.3-	5.5+)	901017	095	0.3-	0.7-
731027	095	1.0-	2.0+	901013	095	0.7+	2.4+	901024	046	(0.1-	3.4-)
731029	095	0.9+	1.1-	901013	095	2.1-	0.4+	901024	046	0.6+	2.7-

1976 QP = 1950 PL = 1991 RZ4

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Kaneda

M	60.66867		(1950.0)		P		Q	
n	0.26609933	Peri.	84.30139	+0.62563749			+0.77985267	
a	2.3939047	Node	224.44888	-0.72663487			+0.57313674	
e	0.2168355	Incl.	1.65197	-0.28386527			+0.25168252	
P	3.70	H	14.7	G	0.15			

Residuals in seconds of arc

500812	760	0.5+	1.2-	910910	675	0.5+	0.4-	910915	033	0.2+	0.2+
760826	095	1.6-	0.2+	910913	033	0.2-	0.0	910916	675	1.2-	0.0
760827	675	0.7-	0.5-	910913	033	0.0	0.0	910916	675	0.4+	0.7-
760828	675	1.6+	0.4+	910913	033	0.1+	0.3+	910918	033	0.1+	0.1+
760830	675	0.2+	1.7+	910914	033	0.1+	0.2+				
910910	675	0.1-	0.3-	910915	033	0.5+	0.3-				

1976 YB2 = 1990 UJ11

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	154.71807		(1950.0)		P		Q	
n	0.27552418	Peri.	289.56059	+0.96705054			+0.24890277	
a	2.3389965	Node	56.06100	-0.20264799			+0.87975516	
e	0.1192738	Incl.	3.69634	-0.15410077			+0.40506577	
P	3.58	H	13.5	G	0.15			

Residuals in seconds of arc

761216	095	1.1-	0.4-	770113	095	0.6+	0.3-	901023	095	0.7-	0.1-
761218	095	0.2-	0.1-	901016	095	1.3+	1.8+				
761220	095	0.8+	0.8+	901016	095	0.5-	1.7-				

1977 EW5 = 1974 RE = 1988 CC6 = 1991 PF16

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M 326.09829	(1950.0)		P		Q
n 0.17477480	Peri. 78.17069		+0.56736454		-0.82263725
a 3.1682310	Node 337.14261		+0.71358779		+0.51355794
e 0.1238723	Incl. 5.45875		+0.41096221		+0.24397992
P 5.64	H 12.3	G 0.15			

Kaneda

Residuals in seconds of arc

740911 095	0.8- 1.5+	770315 381	0.7- 0.1-	880216 809	0.9- 0.5+
770312 381	0.9- 0.8+	880214 809	0.1- 0.5+	880216 809	0.8- 0.4+
770312 381	0.5- 0.2-	880214 809	1.2+ 0.1+	880317 675	2.1- 1.6-
770314 381	0.9+ 0.2+	880214 809	0.9+ 0.1-	880317 675	0.5+ 0.7-
770314 381	1.1+ 0.6-	880215 809	0.3- 0.3-	910807 675	1.1+ 0.9-
770315 381	0.1- 0.6-	880215 809	0.9+ 0.0	910808 675	0.6+ 2.3-

1977 QL1 = 1959 UC = 1975 ED4 = 1986 RL9 = 1991 RN7

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M 25.65805	(1950.0)		P		Q
n 0.21618101	Peri. 32.26465		+0.96559880		-0.25879935
a 2.7495251	Node 342.68003		+0.21682300		+0.85508709
e 0.0876386	Incl. 4.88175		+0.14355047		+0.44927605
P 4.56	H 12.6	G 0.15			

Kaneda

Residuals in seconds of arc

591028 760	0.1+ 0.3-	770909 675	1.1- 0.4-	910911 033	1.2+ 0.4+
591028 760	0.8+ 1.3+	770909 095	1.6- 0.1-	910913 033	1.0- 0.0
750315 095	0.9+ 2.1+	770910 675	0.4- 0.2-	910913 033	0.4- 0.2-
770819 095	1.7- 1.0+	860908 095	2.1+ 1.7+	910914 033	0.1+ 0.0
770820 095	(4.0- 1.0+)	910910 033	0.1+ 0.7-	910915 033	0.1+ 0.1+
770823 095	0.5+ 0.6-	910911 033	0.3+ 0.1-		

1977 UO5 = 1977 VW1 = 1979 DT = 1982 RD3 = 1990 EJ7

Id. G. V. Williams (d, MPC 18084), H. Oishi

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M 183.62680	(1950.0)		P		Q
n 0.17944487	Peri. 356.77917		+0.42531281		-0.90421131
a 3.1130208	Node 68.04747		+0.83125709		+0.37329026
e 0.2034457	Incl. 2.40193		+0.35793948		+0.20750010
P 5.49	H 12.2	G 0.15			

Oishi

Residuals in seconds of arc

771018 675	0.1+ 0.1-	790222 808	0.7- 0.1+	900303 809	0.3+ 0.2+
771019 675	0.1- 0.1+	820913 095	0.2- 0.5+	900304 809	0.2- 0.0
771112 330	(4.6- 0.8-)	900303 809	0.1+ 0.2+	900304 809	0.1- 0.1-
790222 808	0.7+ 0.0	900303 809	0.2+ 0.1+	900304 809	0.1- 0.1+

1978 RX7 = 1991 TV3

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P)

M 119.11909	(1950.0)		P		Q
n 0.23286215	Peri. 282.06460		-0.44689734		+0.89230446
a 2.6166019	Node 321.18627		-0.77599288		-0.42217185
e 0.2105000	Incl. 5.84582		-0.44510428		-0.15988645
P 4.23	H 14.0	G 0.15			

Marsden

Residuals in seconds of arc

780902 809	0.1- 0.6-	780906 809	0.0 0.0	780910 809	0.2+ 0.2-
780902 809	0.1+ 0.0	780910 809	1.0- 0.6+	911004 033	0.3+ 0.4+
780902 809	0.2- 0.9+	780910 809	0.3+ 2.0-	911004 033	0.4+ 0.6-
780902 809	0.2+ 0.2-	780910 809	0.6+ 1.6+	911005 033	0.7- 0.2+

1978 SC7 = 1975 CH = 1991 RO7

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Kaneda

M	354.92354		(1950.0)		P		Q
n	0.22964446	Peri.	54.15222	+0.54389705			-0.83907205
a	2.6409817	Node	2.97094	+0.67966678			+0.43239093
e	0.1716873	Incl.	12.91052	+0.49216772			+0.33014570
P	4.29	H	13.1	G	0.15		

Residuals in seconds of arc

750208	033	1.7+	0.1-	781008	095	1.1-	0.3-	910913	033	0.3-	1.8-
750208	033	1.8-	0.3+	910910	033	0.7-	0.1-	910913	033	0.3+	0.1-
780926	095	0.6-	0.3+	910911	033	0.4+	1.2+	910914	033	0.8+	0.2-
781002	095	1.2+	0.8+	910911	033	(1.9+	3.4+)				

1978 VW2 = 1991 EC5

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Nakano

M	65.39708		(1950.0)		P		Q
n	0.17501315	Peri.	356.09091	-0.64670909			-0.76242598
a	3.1653538	Node	134.20133	+0.70058405			-0.60505480
e	0.1575355	Incl.	1.74026	+0.30157808			-0.22938031
P	5.63	H	14.0	G	0.15		

Residuals in seconds of arc

781105	675	0.6-	0.8+	781129	675	2.8+	0.8-	910313	809	1.3+	1.0-
781106	675	3.1+	2.4+	781130	675	2.7-	0.9-	910315	809	0.9-	0.8+
781107	675	2.8-	0.4+	781130	675	4.2+	0.1+	910315	809	0.4-	1.0+
781108	675	1.4-	0.2-	910313	809	0.4-	0.7-	910315	809	0.2-	1.1+
781129	675	2.6-	1.4-	910313	809	0.6+	0.9-				

1979 MS4 = 4334 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	144.84340		(1950.0)		P		Q
n	0.26500997	Peri.	117.15840	-0.14584632			+0.98868681
a	2.4004606	Node	144.40094	-0.92760155			-0.12435354
e	0.1622499	Incl.	3.45020	-0.34392472			-0.08387244
P	3.72	H	16.0	G	0.15		

Residuals in seconds of arc

710324	675	1.2+	1.3-	790624	413	0.9-	0.2-	790725	675	0.9+	0.1-
710326	675	0.1-	0.5-	790625	413	0.6-	0.5+	790726	675	(4.8+	0.3-)
710326	675	0.5-	0.1+	790629	413	0.4+	0.8+	790727	675	0.6-	0.5-
710327	675	0.7-	1.2+	790724	675	0.7+	0.1-	790823	675	0.4-	1.0-
790623	413	1.3+	1.0+	790724	413	0.8-	0.7-				

1979 QX3 = 1991 TG1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Kaneda

M	59.79851		(1950.0)		P		Q
n	0.17212420	Peri.	356.01782	+0.78332810			+0.61349724
a	3.2006738	Node	325.49148	-0.56529373			+0.63609689
e	0.1789259	Incl.	10.17611	-0.25853450			+0.46797637
P	5.73	H	11.4	G	0.15		

Residuals in seconds of arc

790719	095	0.8-	0.3+	790823	809	0.5+	0.6+	790830	809	1.1-	0.7-
790730	095	1.4+	0.1+	790826	809	1.4+	0.4+	911008	400	0.5-	0.3+
790822	809	1.0-	1.7-	790826	809	0.1-	0.4+	911008	400	0.4+	0.1-
790822	809	0.4+	1.1-	790826	809	0.9-	0.8+	911010	400	0.1+	0.2-
790822	809	1.2-	0.9-	790826	095	1.4+	0.9+	911010	400	(3.9+	2.5-)
790823	809	0.8+	1.0+	790830	809	0.7-	0.1-				

1980 FR1 = 1983 VC1

Id. S. Nakano (MPC 10757)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	158.32329		(1950.0)		P		Q
n	0.17588934	Peri.	71.20852	+0.79509561			-0.60542303
a	3.1548330	Node	326.02407	+0.52944249			+0.72172111
e	0.1365688	Incl.	3.67907	+0.29582701			+0.33553181
P	5.60	H	12.0	G	0.15		

Residuals in seconds of arc

800316	809	0.2-	0.5+	800317	809	0.2-	0.4-	831107	046	0.3-	0.5+
800316	809	0.2+	0.2-	800323	809	0.0	0.1+	910311	809	1.0-	0.1-
800316	809	0.3+	0.5+	831103	046	1.0-	0.1-	910311	809	0.7-	0.4-
800316	809	0.2-	0.3-	831103	046	1.8-	0.9-	910311	809	0.1+	0.4-
800317	809	0.1-	0.0	831106	046	0.5+	1.3-	910313	809	0.7+	0.2+
800317	809	0.1-	0.4-	831106	046	0.4+	0.5-	910313	809	0.6+	0.5+
800317	809	0.2+	0.2-	831107	046	2.3+	2.2+	910313	809	0.5+	0.5+

1980 TE7 = 1980 TJ11 = 1954 RE = 1991 TV

Id. F. N. Bowman (d, MPC 7935), S. Nakano

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Nakano

M	51.90315		(1950.0)		P		Q
n	0.26697177	Peri.	132.88265	+0.77682048			+0.62941752
a	2.3886865	Node	188.17812	-0.61040662			+0.74498546
e	0.2126723	Incl.	7.91305	-0.15476985			+0.22097568
P	3.69	H	13.8	G	0.15		

Residuals in seconds of arc

540905	760	0.0	0.2-	910910	675	0.7-	0.2+	911002	403	1.4+	0.7- Y
540905	760	0.1+	0.1-	910910	675	(39.1-	78.3+)	911003	403	0.6-	0.4- Y
801008	095	2.0+	3.1+	910916	675	0.4-	0.6-	911003	403	1.4+	1.0+ Y
801014	330	0.1-	0.8-	910916	675	0.6-	0.5-				
801104	330	2.1-	2.0-	911002	403	0.5-	0.9+ Y				

1982 FF2 = 1948 GD = 1967 JW = 1987 SJ23 = 1991 RS3

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Nakano

M	204.70179		(1950.0)		P		Q
n	0.26010057	Peri.	311.34020	-0.99576927			+0.07012508
a	2.4305721	Node	232.76511	-0.04455972			-0.93366307
e	0.1374271	Incl.	4.27728	-0.08036162			-0.35122036
P	3.79	H	13.3	G	0.15		

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

480409	020	(0.08+	0.01-)X	820331	704	1.0+	2.4+	910905	033	0.6-	0.9+
670502	095	0.1-	0.2+	820401	704	(0.2+	3.7+)	910912	033	0.2-	1.0+
820326	046	0.5+	0.1+	820402	704	0.7+	1.0+	910912	033	0.5-	0.2+
820326	046	0.3+	1.5+	820425	688	0.9-	0.1-	910914	033	0.4-	1.0+
820327	046	1.6-	0.1+	820425	688	0.7+	1.5-	910915	033	0.4-	1.1+
820327	046	1.0+	0.7+	870923	095	1.5+	0.5-	910915	033	0.3-	1.1+
820330	704	(1.0-	5.8+)	910905	033	1.2-	1.2+				

1982 QG = 1969 RJ1 = 1991 UT

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Kaneda

M	60.31507		(1950.0)		P		Q
n	0.22728790	Peri.	23.83071	+0.81161198			+0.58320024
a	2.6592051	Node	300.44978	-0.54212380			+0.73011927
e	0.2001615	Incl.	2.26761	-0.21768733			+0.35609456
P	4.34	H	13.3	G	0.15		

Residuals in seconds of arc

690913	095	0.5+	1.2-	820819	046	2.2+	0.8+	820823	095	1.7-	0.0
820816	095	0.5-	0.5+	820822	046	2.5+	0.4-	820826	046	1.6-	0.1-
820819	046	1.1+	1.7-	820822	046	1.3-	0.8-	820826	046	0.3-	1.2+

820912	095	(3.5+	1.5+)	911018	399	0.5-	0.5+	911019	399	0.5+	0.1-
820917	095	1.1-	1.1+	911018	399	0.9-	1.2-				
820921	095	0.0	0.7+	911019	399	1.0+	0.6+				

1982 SJ1 = 1931 TX = 1973 UT4 = 1973 YF = 1991 RR

Id. H. Kaneda; 1982 SJ1 = 1985 JC (MPC 13583) is invalid

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Kaneda

M	320.01948		(1950.0)			P		Q			
n	0.21269167	Peri.	248.81579			+0.45032220		-0.89275512			
a	2.7795152	Node	174.35919			+0.86307273		+0.43120218			
e	0.2421978	Incl.	8.23530			+0.22872557		+0.13058707			
P	4.63	H	12.5			G	0.15				

Residuals in seconds of arc

311006	024	0.3+	0.9-	820917	046	0.3-	1.8-	910903	413	0.6+	0.1+
731021	688	1.3+	0.3-	820917	046	0.5-	2.0-	910903	413	1.2-	0.2+
731023	688	0.6-	0.8-	820918	046	(2.9-	3.5-)	910904	675	1.1-	1.1-
731219	095	0.5-	1.9+	820918	046	1.6-	1.4-	910904	675	0.8+	0.5+
820916	046	1.5-	0.1-	820919	095	1.8+	1.4-	910904	413	0.4+	0.3+
820916	046	0.6-	0.6+	820919	046	0.9+	1.7+	910907	675	0.0	2.1+
820917	046	2.5-	1.0-	820919	046	(5.2+	4.3+)	910907	675	0.3+	0.0
820917	046	0.6-	1.5+	820924	095	3.0+	0.3+				
820917	095	(1.0-	5.0-)	820927	095	1.5+	2.6+				

1983 EU = 1991 RM9

Id. H. E. Holt

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Bowell

M	196.47078		(1950.0)			P		Q			
n	0.29251263	Peri.	10.55888			-0.97208855		+0.23458305			
a	2.2475342	Node	183.01624			-0.22019759		-0.91786219			
e	0.0850483	Incl.	4.16957			-0.08097446		-0.32015588			
P	3.37	H	13.7			G	0.15				

Residuals in seconds of arc

830305	095	0.7+	0.8+	830317	688	0.7-	0.6-	910911	675	0.4-	0.5-
830310	688	0.4-	0.4+	830318	095	(2.9-	3.0+)	910911	675	0.2-	0.2+
830310	688	(0.6-	2.7-)	830318	095	(1.5-	2.6+)	910914	675	0.4+	0.4-
830315	095	1.0-	0.8+	830320	095	0.0	1.3-	910914	675	0.5+	0.5-
830317	688	0.8+	0.0	830409	095	0.3+	1.1-				

1983 GQ = 1989 CO7 = 1990 OE1 = 1990 QJ11

Id. S. Nakano (MPC 16869; d, unpublished), H. E. Holt (ibid.)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Nakano

M	168.80087		(1950.0)			P		Q			
n	0.29803535	Peri.	212.22336			+0.24774376		+0.96880784			
a	2.2196825	Node	72.12125			-0.88752373		+0.22937714			
e	0.1721854	Incl.	0.35312			-0.38849023		+0.09379501			
P	3.31	H	13.8			G	0.15				

Residuals in seconds of arc

830406	809	0.4+	0.7+	830415	809	0.6+	0.3+	890214	402	0.0	0.1-
830406	809	0.2+	0.8+	830418	809	1.4-	0.6+	900727	675	0.2-	0.2+
830406	809	0.2+	1.0+	830418	809	0.9-	0.5+	900727	675	0.2+	0.1+
830409	809	0.0	0.7+	830418	809	0.4-	0.5+	900730	675	1.1-	0.6-
830409	809	0.7+	0.4+	830420	809	(3.3-	1.0+)	900730	675	0.3-	0.7+
830409	809	0.8+	0.6+	830420	809	1.9-	0.8+	900730	372	1.0+	0.9-
830411	809	0.2+	0.3-	830422	809	0.4+	1.4-	900730	372	1.3-	1.9+
830411	809	0.2+	0.1-	830422	809	1.4+	1.3-	900731	372	0.4+	1.1+
830411	809	0.3+	0.0	830507	688	1.5-	1.5-	900731	372	2.0+	1.7+
830412	095	(3.3+	2.7-)	830507	688	1.0+	2.4-	900815	372	1.9-	0.3-
830415	809	0.8-	0.2+	830515	688	0.0	1.2-	900815	372	1.1-	2.1+
830415	809	0.0	0.4+	890214	402	(7.8+	1.4-)	900818	372	1.8+	0.1+

900818	372	0.2+	0.3-	900824	046	1.7-	1.4-	900914	675	1.6+	1.4-
900820	372	(3.8-	0.4+)	900824	046	0.2-	1.7-				
900820	372	(3.6-	0.5+)	900914	675	0.7+	1.4-				

1983 RB2 = 1989 ER5

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	72.10020		(1950.0)			P		Kaneda		Q
n	0.26377923	Peri.	178.12753			+0.99262283		+0.11946037		
a	2.4079215	Node	174.87114			-0.11402852		+0.97788810		
e	0.1196802	Incl.	13.39883			-0.04119966		+0.17165103		
P	3.74	H	13.7			G	0.15			

Residuals in seconds of arc

830904	688	1.6+	0.5+	830907	046	1.6-	0.8-	890302	413	2.1-	1.5+
830904	688	0.2-	0.6-	830907	046	1.3-	1.7-	890302	413	1.2+	0.3-
830905	046	2.0-	0.5-	830908	046	2.2+	1.8+	890304	413	0.9+	1.2-
830906	046	1.3+	1.6+	830908	046	0.0	0.4-				

1984 DZ = 1991 EJ5

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	19.48128		(1950.0)			P		Williams		Q
n	0.27945323	Peri.	259.57687			-0.42447483		+0.90477536		
a	2.3170210	Node	345.15883			-0.76867062		-0.38033369		
e	0.2082976	Incl.	7.78131			-0.47850453		-0.19164507		
P	3.53	H	14.0			G	0.15			

Residuals in seconds of arc

840226	809	0.5-	0.0	840304	809	2.5+	0.3-	840310	809	1.4-	0.3-
840226	809	0.3-	0.0	840305	809	1.1-	0.3+	840310	809	1.5-	0.4-
840226	809	0.1-	0.2+	840305	809	0.5-	0.3+	840311	809	1.3-	0.2+
840227	809	1.3+	0.2+	840305	809	0.0	0.1+	840311	809	1.1-	0.1+
840227	809	1.0+	0.1+	840306	809	0.0	0.2+	840311	809	1.0-	0.1+
840227	809	0.8+	0.0	840306	809	0.5+	0.3-	910220	898	1.8-	0.4-
840301	809	1.6-	0.2+	840306	809	0.9+	0.4-	910220	898	0.4-	0.2+
840301	809	0.8-	0.1+	840308	809	0.5-	1.0+	910314	809	0.3+	0.0
840301	809	0.2-	0.1+	840308	809	0.2+	1.0+	910314	809	0.6+	0.1-
840303	809	0.6+	0.1-	840308	809	0.6+	1.0+	910314	809	1.1+	0.0
840303	809	0.8+	0.1-	840309	809	0.1-	0.4-	910317	809	0.7-	0.1-
840303	809	0.7+	0.0	840309	809	0.0	0.6-	910317	809	0.0	0.0
840304	809	1.6+	0.3-	840309	809	0.4+	0.6-	910317	809	0.4+	0.2-
840304	809	2.1+	0.5-	840310	809	1.6-	0.2-				

1984 SA = 1991 TX1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	53.25934		(1950.0)			P		Nagata		Q
n	0.28547469	Peri.	77.70379			+0.87325370		+0.47726984		
a	2.2843237	Node	253.71903			-0.47729740		+0.79728836		
e	0.2226385	Incl.	5.87124			-0.09805701		+0.36951965		
P	3.45	H	13.8			G	0.15			

Residuals in seconds of arc

840922	054	1.7+	1.9+	840930	054	0.5-	0.8-	911013	877	1.4-	1.1-
840924	071	3.0-	1.6-	841020	095	0.9+	1.4-	911015	877	0.4+	2.4+
840924	071	1.0+	0.7+	841026	054	0.5-	0.4-	911015	877	1.8+	1.9+
840924	054	0.8+	0.8+	911013	877	1.1-	2.3-				

1985 CV1 = 1991 EH3

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	63.22448		(1950.0)		P		Williams	Q
n	0.17152192	Peri.	108.97822			-0.88722011		-0.46076393
a	3.2081620	Node	43.59355			+0.40960513		-0.80983558
e	0.1347014	Incl.	1.92602			+0.21228308		-0.36312936
P	5.75	H	13.0	G	0.15			

Residuals in seconds of arc

850211	809	0.7-	1.0+	850217	809	1.2+	0.4-	850224	809	0.1-	0.5+
850211	809	0.9-	0.9+	850219	809	0.8-	0.3+	850224	809	0.1+	0.3+
850211	809	0.9-	1.3+	850219	809	0.8-	0.3+	850225	809	0.2+	0.1+
850213	809	0.1-	0.8-	850219	809	0.9-	0.4+	850225	809	0.2+	0.5+
850213	809	0.1-	0.5-	850220	809	0.4-	0.2+	850225	809	0.3+	0.6+
850213	809	0.1-	0.5-	850220	809	0.3-	0.3+	850228	809	0.1+	0.2+
850214	809	0.0	0.9-	850220	809	0.0	0.2-	850228	809	0.4+	0.1+
850214	809	0.2+	0.4-	850221	809	0.0	0.2+	850228	809	0.8+	0.2-
850214	809	0.1-	0.5-	850221	809	0.1+	0.2+	910311	809	0.4-	0.1+
850216	809	0.2+	0.6-	850221	809	0.2+	0.5+	910311	809	0.4-	0.1+
850216	809	0.3+	0.6-	850222	809	0.3+	0.3-	910311	809	0.2-	0.1+
850216	809	0.1+	0.7-	850222	809	0.3+	0.1-	910313	809	0.0	0.2-
850217	809	0.7+	0.6-	850222	809	0.5+	0.0	910313	809	0.2+	0.2-
850217	809	0.9+	0.5-	850224	809	0.6-	0.4+	910313	809	0.6+	0.2-

1985 FD

Id. C. S. Shoemaker (1991 obs.)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	148.24465		(1950.0)		P		Williams	Q
n	0.22725513	Peri.	142.56799			-0.54934025		+0.79514534
a	2.6594607	Node	92.69891			-0.81526490		-0.44262758
e	0.1488818	Incl.	14.89983			-0.18321691		-0.41451745
P	4.34	H	13.0	G	0.15			

Residuals in seconds of arc

850321	675	0.2+	0.2-	850411	675	0.0	0.4-	911006	675	0.0	0.4-
850324	675	0.1+	0.0	850415	675	0.0	0.3+	911007	675	0.4+	0.3-
850325	675	0.4-	0.3+	911006	675	0.4-	0.7+				

1985 JY = 1979 GR = 1979 HN3

Id. S. Nakano (MPC 11426); 1985 JY = 1969 TC (ibid.) is invalid

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	43.77332		(1950.0)		P		Williams	Q
n	0.16827575	Peri.	164.10395			-0.74748450		+0.66269762
a	3.2492891	Node	57.49368			-0.61520142		-0.66459498
e	0.0965972	Incl.	3.11403			-0.25058759		-0.34517441
P	5.86	H	12.5	G	0.15			

Residuals in seconds of arc

790406	808	0.1-	0.3+	850524	675	0.3+	0.3-	910607	675	0.1-	1.2+
790406	808	0.1-	0.7+	850524	675	0.5+	1.1+	910607	675	1.6-	1.2+
790425	095	0.4+	0.2-	910514	675	0.2+	1.6-	910609	675	0.3+	0.8+
850513	675	0.7-	0.6-	910514	675	1.1+	1.3-				
850515	675	0.3-	1.1-	910516	675	(1.1+	3.0-)				

1985 QP = 1124 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	333.11017		(1950.0)		P		Williams	Q
n	0.30495137	Peri.	0.42523			+0.99915857		+0.04092793
a	2.1859941	Node	357.22493			-0.03778806		+0.89344823
e	0.1776559	Incl.	3.14612			-0.01594424		+0.44729762
P	3.23	H	15.0	G	0.15			

Residuals in seconds of arc

710324	675	0.4-	2.1-	710402	675	1.6+	0.2-	850914	688	2.9+	0.0
710324	675	1.0-	1.4-	850822	688	0.7+	1.4-	850915	054	0.1+	0.8+
710325	675	0.8-	1.5-	850822	688	1.5-	1.2+	850917	054	1.8-	1.1+
710325	675	0.1+	0.9+	850910	046	1.7-	0.9-	850918	688	0.8-	0.1+
710325	675	0.4-	1.2-	850910	046	1.1-	1.5-	850918	688	0.6-	0.5+
710325	675	1.4-	0.4+	850911	046	0.6-	1.9-	850923	054	0.9+	0.1+
710326	675	0.6-	2.4-	850911	046	1.6+	2.0-	851010	054	0.5+	1.6-
710326	675	0.4+	0.1-	850911	054	2.2+	2.0+	851012	054	1.0+	1.9-
710327	675	1.0-	0.8+	850914	688	0.8+	0.2+				

1985 TW3 = 1985 VQ1 = 1953 RK1 = 1969 TZ4 = 1979 YG9 = 1987 GD1 = 1990 CX
 Id. C. M. Bardwell (d, MPC 11723), C. S. Shoemaker (1991 obs.),
 G. V. Williams

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	17.58055		(1950.0)		P		Q
n	0.30919235	Peri.	280.95905	+0.82475643		+0.56322646	
a	2.1659589	Node	44.78564	-0.48674556		+0.75255225	
e	0.1935511	Incl.	4.11290	-0.28784646		+0.34123463	
P	3.19	H	13.5	G	0.15		

Residuals in seconds of arc

530914	210(28.4+	41.6-)X	851013	675	0.8-	0.4-	900201	403	(3.5-	4.5+)Y	
530918	210(42.4-	19.4+)X	851107	688	1.1+	1.6+	910606	675	0.5-	1.2+	
691014	095	1.6+	3.3-	851107	675	1.2-	0.8+	910606	675	0.5-	1.3+
791225	095	0.0	1.3+	851107	688	1.0+	1.1+	910608	675	1.4+	0.7-
850915	675	0.3+	1.5+	851107	675	0.9-	0.5+	910608	675	0.6-	0.4+
850915	675	0.3-	1.3+	870402	801	0.2+	0.5+				
851011	675	1.1-	1.6-	900201	403	(7.1-	3.0+)Y				

1986 CD2 = 1991 RV8

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Bowell

M	291.58297		(1950.0)		P		Q
n	0.28978039	Peri.	105.72825	-0.32357844		-0.94618434	
a	2.2616395	Node	3.16825	+0.82401694		-0.28473649	
e	0.1177905	Incl.	5.89226	+0.46507319		-0.15381914	
P	3.40	H	14.5	G	0.15		

Residuals in seconds of arc

860212	809	0.0	0.2+	860215	809	0.1-	0.2+	860219	809	0.9+	0.4+
860212	809	0.0	0.1+	860215	809	0.0	0.4+	860219	809	1.1+	0.4+
860212	809	0.2+	0.0	860215	809	0.3+	0.4+	860220	809	1.5-	0.2-
860213	809	1.0-	0.2-	860216	809	0.2+	0.2+	860220	809	1.2-	0.2-
860213	809	0.9-	0.2-	860216	809	0.5+	0.2+	860220	809	1.0-	0.2-
860213	809	0.6-	0.2-	860217	809	0.5+	0.4-	910911	675	0.2+	0.7-
860214	809	0.2-	0.0	860217	809	0.8+	0.4-	910911	675	0.3+	0.0
860214	809	0.1-	0.0	860217	809	1.1+	0.3-	910914	675	0.4+	0.4+
860214	809	0.2+	0.1-	860219	809	0.5+	0.1+	910914	675	0.9-	0.3+

1986 PX4 = 1988 DP2

Id. T. Kobayashi (MPC 14619)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	127.62399		(1950.0)		P		Q
n	0.25801301	Peri.	312.54010	+0.94383307		+0.33028556	
a	2.4436649	Node	28.17772	-0.29692674		+0.86043900	
e	0.2127853	Incl.	1.15492	-0.14496086		+0.38801570	
P	3.82	H	13.5	G	0.15		

Residuals in seconds of arc

860808	095	1.0-	0.9+	880221	809	0.6+	1.2+	880223	809	0.5+	1.0-
860813	095	0.1-	0.1-	880221	809	0.1-	0.5+	880223	809	(4.8+	1.5-)
860830	095	0.7+	0.5+	880221	809	0.7-	1.5+	880223	809	(8.0+	1.6-)

900923	095	1.0-	0.5+	901011	095	1.1+	1.3-	901015	095	1.2-	0.6-
900926	095	0.3-	0.8+	901014	095	0.5+	2.3+	901015	095	0.7+	1.6-
900926	095	0.4+	0.1+	901014	095	0.1-	0.4-				

1986 QS = 1963 TP = 1977 RX4 = 1991 TW

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	353.42369		(1950.0)		P		Q
n	0.21216593	Peri.	58.38700		+0.68339810		-0.72940753
a	2.7841051	Node	348.34799		+0.60807082		+0.59185682
e	0.1626180	Incl.	8.69256		+0.40400113		+0.34303085
P	4.65	H	12.4		G	0.15	

Nagata

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

631014	760(0.06-	0.00-)	X	860903	809	1.8-	0.1-	860907	809	0.9-	0.5-
770909	095	2.7+	0.1+	860903	809	1.7-	0.5-	860907	809	0.8-	0.3-
860826	809	0.7-	0.5-	860903	809	0.7-	0.0	860908	809	0.2-	0.4+
860826	809	0.6-	0.3-	860903	809	0.7-	0.0	860908	809	0.1-	0.4+
860826	809	0.3-	0.4-	860903	809	0.5-	0.2-	860908	809	0.2+	0.3+
860827	809	0.6-	0.4-	860904	809	0.9-	0.2-	860908	809	0.1-	0.4-
860827	809	0.4-	0.3-	860904	809	0.7-	0.2-	860908	809	0.1+	0.6-
860827	809	0.1+	0.5-	860904	809	0.7-	0.2-	860908	809	0.1+	0.9-
860829	809	0.4-	0.3-	860904	809	1.2-	0.7-	860908	095	0.9-	0.8-
860829	809	0.3-	0.2-	860904	809	1.1-	1.0-	860909	809	0.2-	0.3-
860829	809	0.3-	0.2-	860904	809	0.9-	0.9-	860909	809	0.2-	0.8-
860831	809	0.8-	0.4-	860905	809	0.7-	0.1-	860909	809	0.1+	1.0-
860831	809	0.7-	0.4-	860905	809	0.5-	0.2-	860911	809	0.1+	0.0
860831	809	0.8-	0.4-	860905	809	0.5-	0.2-	860911	809	0.3+	0.1+
860901	809	1.0-	0.8-	860905	809	0.7-	0.9-	860911	809	0.5+	0.1+
860901	809	1.1-	0.4-	860905	809	0.6-	0.9-	860911	809	0.2+	0.6-
860901	809	1.1-	0.7-	860905	809	0.4-	0.9-	860911	809	0.3+	0.7-
860901	809	1.3-	0.3-	860906	809	0.3-	0.4-	860911	809	0.6+	0.8-
860901	809	1.0-	0.4-	860906	809	0.2-	0.4-	860912	809	0.9+	0.6-
860901	809	0.7-	0.4-	860906	809	0.1-	0.4-	860912	809	0.8+	0.7-
860902	809	1.2-	0.3-	860906	809	0.5-	0.0	860912	809	0.7+	0.9-
860902	809	1.1-	0.3-	860906	809	0.8-	0.1-	911002	877	2.6+	0.2+
860902	809	1.0-	0.4-	860906	809	0.6-	0.6-	911003	877	0.8-	0.1+
860902	809	0.9-	0.2+	860906	809	0.5-	0.5-	911015	376	0.8+	1.7+
860902	809	0.2-	0.2+	860906	809	0.5-	0.7-	911015	376	0.5-	0.8+
860902	809	0.9-	0.4+	860906	809	0.6-	1.0-				
860903	809	1.7-	0.2+	860907	809	1.1-	0.8-				

1986 RD = 1991 UB1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	65.80555		(1950.0)		P		Q
n	0.21118500	Peri.	102.24835		+0.69732470		+0.71390158
a	2.7927196	Node	212.26498		-0.69530236		+0.65211245
e	0.2262771	Incl.	6.87443		-0.17404854		+0.25513504
P	4.67	H	13.0		G	0.15	

Kaneda

Residuals in seconds of arc

860908	054	1.0+	0.0	860929	054	0.3+	0.2+	911019	399	0.1-	0.2+
860911	054	1.0-	0.9-	860929	010(17.5+	7.0+)		911019	399	0.5+	1.0+
860912	054	0.3-	0.7+	911018	399	0.2-	0.7-				
860929	010(17.7+	5.7+)		911018	399	0.3-	0.5-				

1986 TB7 = 1991 UL1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	30.95977		(1950.0)		P		Q		
n	0.19040815	Peri.	111.50278		+0.98709657		+0.03328773		
a	2.9923498	Node	246.87194		-0.08417157		+0.93997725		
e	0.1335254	Incl.	9.80621		+0.13621863		+0.33960963		
P	5.18	H	13.0	G	0.15				

Kaneda

Residuals in seconds of arc

861009	092	1.9-	0.6-	861012	092	0.1+	0.1+	911028	399	0.3-	1.1+
861009	092	0.5+	0.1-	861201	010	(2.1+	10.2-)	911028	399	0.3+	0.5+
861011	092	2.0+	1.1+	861203	010	0.3-	0.6-	911029	399	0.4-	1.0-
861011	092	0.6-	0.6-	861203	010	0.2+	0.6+	911029	399	0.4+	0.6-

1986 WN7 = 1991 RH10

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	353.86622		(1950.0)		P		Q		
n	0.17747219	Peri.	81.94003		+0.83094261		-0.55224323		
a	3.1360466	Node	311.55159		+0.46824163		+0.75972864		
e	0.1404347	Incl.	5.17812		+0.30047323		+0.34327804		
P	5.55	H	12.3	G	0.15				

Bowell

Residuals in seconds of arc

861129	046	0.3-	0.5-	861207	046	0.6-	0.7+	910912	675	0.0	0.1+
861129	046	0.3+	0.1+	861207	046	0.2-	1.2-	910912	675	0.0	0.4+
861204	046	0.1-	0.5+	861209	046	(7.4+	1.1-)	910914	675	0.1+	1.1-
861204	046	0.9+	0.4+	861209	046	(4.3+	0.6-)	910914	675	0.1-	0.6+

1986 WO7 = 1991 RX3

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	304.44820		(1950.0)		P		Q		
n	0.17474935	Peri.	132.20020		-0.03827662		-0.99811283		
a	3.1685386	Node	319.91727		+0.89338184		-0.01265388		
e	0.1352668	Incl.	4.27673		+0.44766482		-0.06008880		
P	5.64	H	12.5	G	0.15				

Kaneda

Residuals in seconds of arc

861129	046	0.0	0.7-	861207	046	0.4-	0.3-	910914	033	0.8+	0.4+
861129	046	2.5+	1.0-	861207	046	1.3+	0.9+	910915	033	1.2-	0.2+
861204	046	1.7-	0.8+	910912	033	0.5-	0.1-	910915	033	0.3+	0.7-
861204	046	1.8-	0.1+	910912	033	0.6+	0.2+				

1987 RC1 = 1988 VU3

Id. T. Kobayashi (MPC 14197)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	302.70625		(1950.0)		P		Q		
n	0.17194430	Peri.	254.22451		+0.34459895		+0.93866322		
a	3.2029060	Node	35.94096		-0.85270311		+0.31867052		
e	0.1332191	Incl.	1.24611		-0.39261810		+0.13175912		
P	5.73	H	11.5	G	0.15				

Williams

Residuals in seconds of arc

870913	809	0.5-	0.1-	870917	809	0.1-	0.1+	870925	809	0.7+	0.7+
870913	809	1.1-	0.1-	870918	809	0.2+	0.3+	870926	809	0.1+	0.8+
870913	809	0.1+	0.4-	870918	809	0.2+	0.5+	870926	809	0.2+	0.7+
870914	809	1.2-	1.1-	870918	809	0.3+	0.3+	870926	809	0.3+	0.6+
870914	809	1.6-	1.2-	870924	809	0.1+	0.6+	870927	809	0.1-	0.4+
870914	809	0.6-	0.1-	870924	809	0.6+	0.6+	870927	809	0.1-	0.2+
870916	809	0.0	0.2-	870924	809	0.1+	0.5+	870927	809	0.1+	0.1+
870916	809	0.1+	0.0	870924	071	(5.0-	2.7-)	881114	399	2.4+	0.2-
870916	809	0.1+	0.1-	870924	071	(5.4-	3.7-)	881114	399	1.9+	0.1-
870917	809	0.1-	0.0	870925	809	0.2+	0.7+	881114	399	0.2+	0.7+
870917	809	0.2-	0.1+	870925	809	0.5+	0.8+	881117	399	1.3-	0.9+

881117	399	1.4-	0.3+	910320	809	0.6+	0.9+	910321	809	0.1-	0.6+
881117	399	0.2+	0.1-	910320	809	0.8+	0.7+	910322	809	0.2+	0.2+
881117	399	2.2-	0.3-	910321	809	0.5-	0.3+	910322	809	0.5+	0.4+
910320	809	0.3+	0.9+	910321	809	0.2-	0.5+	910322	809	0.7+	0.7+

1987 SL1 = 1976 YE6 = 1991 UA1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Kaneda

M	0.11212		(1950.0)			P			Q		
n	0.25847293	Peri.	52.84009			+0.62305909			-0.78217408		
a	2.4407652	Node	358.61872			+0.70318791			+0.56072339		
e	0.1653649	Incl.	2.47829			+0.34252610			+0.27164866		
P	3.81	H	13.6			G	0.15				

Residuals in seconds of arc

761218	095	0.0	0.3+	870921	046	1.2-	2.1+	871001	809	0.8+	0.2-
870904	095	(2.3-	3.6+)	870921	046	0.9-	2.3+	871001	809	0.9+	0.3-
870917	809	0.8-	0.7-	870924	809	0.3+	0.6-	871002	809	0.3-	0.0
870917	809	0.3+	0.3+	870924	809	0.5+	0.6-	871002	809	0.1-	0.0
870917	809	1.1+	0.8-	870924	809	0.8+	0.3-	871002	809	0.2-	0.1-
870919	809	0.4+	1.0-	870924	095	0.4+	2.5+	911018	399	0.4+	0.6-
870919	809	0.3+	1.0-	870927	095	(5.0-	0.9+)	911018	399	1.0-	0.3-
870919	809	0.4+	0.9-	870929	688	2.5-	1.4-	911019	399	0.8+	0.8+
870921	688	0.0	0.5+	870929	688	1.1+	0.7+	911019	399	0.0	0.3-
870921	688	2.3-	0.2+	871001	809	0.8+	0.3-				

1987 SV11 = 1971 FG1 = 1973 YU = 1982 HY1 = 1984 WD3 = 1991 UH

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Kaneda

M	266.75344		(1950.0)			P			Q		
n	0.26914677	Peri.	133.41686			-0.87919004			-0.47561392		
a	2.3758003	Node	18.24228			+0.40650282			-0.78001388		
e	0.1687526	Incl.	5.23660			+0.24855650			-0.40665679		
P	3.66	H	13.1			G	0.15				

Residuals in seconds of arc

710319	095	0.1-	1.7-	870924	809	0.5-	1.1-	871001	809	1.9+	0.2-
731220	095	0.3-	2.6-	870926	809	1.0-	0.3-	871001	809	2.0+	0.3-
820419	046	1.8-	0.7+	870926	809	0.4-	0.3-	911018	399	1.2-	0.2-
820419	046	0.2+	1.9-	870926	809	0.3-	0.4-	911018	399	1.4-	1.4+
841127	010	1.0+	1.3+	870928	809	0.0	0.1-	911019	399	2.4+	0.9+
841128	010	0.4-	1.4-	870928	809	0.2+	0.3-	911019	399	0.5-	0.2+
870924	809	1.0-	0.1-	870928	809	0.4+	0.4-				
870924	809	0.6-	1.0-	871001	809	1.7+	0.2-				

1987 UN = 1991 TC1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	10.73748		(1950.0)			P			Q		
n	0.23495342	Peri.	315.41708			+0.97490135			-0.10648130		
a	2.6010470	Node	51.71193			+0.19600784			+0.82698932		
e	0.1873420	Incl.	14.42446			-0.10558548			+0.55204202		
P	4.19	H	12.5			G	0.15				

Residuals in seconds of arc

871027	054	0.2+	0.0	871114	054	0.5-	0.4-	911012	413	0.4+	0.6-
871027	054	0.5-	0.5-	911010	413	0.4-	0.2+	911015	413	0.2-	0.1+
871030	054	0.1+	0.6+	911010	413	0.5+	0.1-				
871114	054	0.7+	0.3+	911010	413	0.3-	0.3+				

1988 CL2 = 1990 SG19 = 1990 SL20

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Nakano

M	98.21723		(1950.0)		P		Q	
n	0.25948893	Peri.	244.01883	+0.98568757			-0.14852413	
a	2.4343900	Node	124.42450	+0.16710567			+0.92328143	
e	0.1906376	Incl.	5.54835	-0.02226452			+0.35424847	
P	3.80	H	14.2	G	0.15			

Residuals in seconds of arc

880119	071	1.2-	0.2+	880217	809	0.5+	0.0	880223	809	1.8-	1.3+
880119	071	1.5+	0.7-	880217	809	0.3+	0.3-	880223	809	2.2-	1.5+
880211	809	0.1-	0.4+	880217	809	0.3+	0.5-	900917	675	0.6-	0.3+
880215	809	1.4+	1.4-	880221	809	0.9+	0.3+	900917	675	0.1+	0.1-
880216	809	0.9+	1.5-	880221	809	0.4-	1.1+	900920	675	0.7+	0.2-
880216	809	0.7+	0.9-	880221	809	1.2-	1.7+	900920	675	0.2-	0.2+
880216	809	0.4-	0.9-	880223	809	0.3+	0.3+				

1988 EA2 = 1991 AL1

Id. T. Urata (MPC 17822)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	37.66877		(1950.0)		P		Q	
n	0.29045610	Peri.	24.55493	-0.99960176			+0.01040758	
a	2.2581306	Node	155.99727	-0.01877879			-0.93914362	
e	0.0630799	Incl.	3.69708	+0.02106360			-0.34336707	
P	3.39	H	13.5	G	0.15			

Residuals in seconds of arc

710324	675	3.0-	0.6-	710402	675	2.3+	0.6-	880414	054	0.1+	0.3-
710325	675	0.6+	0.6+	880313	054	0.6-	1.0+	910115	889	0.2-	0.3-
710325	675	0.7-	1.3+	880314	054	0.5+	0.9+	910115	889	0.1-	0.7-
710326	675	0.1+	1.6-	880409	054	0.2+	0.2-	910118	889	0.4+	0.9+
710327	675	0.4+	0.2-	880413	054	0.2+	0.3-				

1988 PL = 3045 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	359.19693		(1950.0)		P		Q	
n	0.30509768	Peri.	135.30502	+0.94468990			+0.32762912	
a	2.1852952	Node	205.58104	-0.30968516			+0.87622963	
e	0.1391096	Incl.	1.96922	-0.10796336			+0.35338477	
P	3.23	H	14.5	G	0.15			

Residuals in seconds of arc

710325	675	0.2-	0.5+	880811	413	0.2-	0.1+	880820	413	(4.7-	2.0-)
710326	675	0.3+	1.3-	880813	413	0.3+	0.1-	881009	413	0.4+	0.9-
710326	675	0.6-	0.1-	880814	413	0.7-	0.8+	881009	413	(2.8-	0.3-)
710327	675	1.1+	0.6+	880814	413	0.2+	0.8-	881011	413	0.2-	0.0
710402	675	0.8-	0.3-	880816	413	1.0+	0.1-				
880811	413	0.7-	0.1+	880819	413	0.0	0.3+				

1988 PL1 = 1983 WY

Id. C. S. Shoemaker (1991 obs.), G. V. Williams

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	64.24746		(1950.0)		P		Q	
n	0.36022857	Peri.	93.59270	+0.88747422			+0.34335878	
a	1.9562181	Node	246.52829	-0.42395062			+0.86980096	
e	0.0134002	Incl.	19.58037	+0.18070800			+0.35433182	
P	2.74	H	14.0	G	0.15			

Residuals in seconds of arc

831129	688	0.2-	1.7+	880911	675	1.5+	0.2+	911006	675	0.1+	0.7+
831129	688	0.4+	0.8-	880913	675	0.4-	0.2-	911007	675	0.0	1.1-
880815	675	0.1-	0.9+	881007	675	1.7-	0.5-	911007	675	0.1+	1.0-
880816	675	0.8+	0.2+	881009	675	1.3-	0.1+				

1988 RS4 = 1991 FN3

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M 285.65211	(1950.0)		P	Q	Williams
n 0.21687322	Peri. 311.18256		+0.61912962	+0.78528817	
a 2.7436714	Node 357.06951		-0.71448250	+0.56277749	
e 0.0734994	Incl. 1.11832		-0.32587308	+0.25807747	
P 4.54	H 13.0	G 0.15			

Residuals in seconds of arc

880901 809 0.0 0.2-	880911 071 (1.4+ 2.4+)	881007 807 0.1- 0.3-
880901 809 0.4+ 0.2-	880912 809 0.5+ 0.4+	881008 807 0.0 0.5-
880901 809 0.3+ 0.4-	880912 809 0.4+ 0.6+	881008 807 0.4+ 0.2-
880903 809 0.6- 0.5+	880912 809 0.5+ 0.7+	881103 807 0.6+ 0.4-
880903 809 0.3- 0.5+	880914 807 0.2+ 0.1-	881105 807 0.2+ 0.7-
880903 809 0.3- 0.5+	880915 807 0.5+ 0.0	910322 809 0.4- 0.2-
880906 809 0.6- 0.2-	880915 809 0.2- 0.7-	910322 809 0.6- 0.2-
880906 809 0.5- 0.1-	880915 809 0.2- 0.7-	910322 809 0.1- 0.0
880908 809 0.1+ 0.0	880915 809 0.1- 0.7-	910323 809 0.0 0.8-
880908 809 0.1+ 0.0	880916 807 0.2- 0.2-	910323 809 0.1+ 0.6-
880908 809 0.5+ 0.0	881004 807 0.1- 0.2-	910323 809 0.0 0.5-
880911 071 (2.4- 2.1+)	881005 807 0.4- 0.2+	

1988 XT = 1981 VH

Id. T. Kobayashi (MPC 14203)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M 274.46367	(1950.0)		P	Q	Kobayashi
n 0.29139906	Peri. 241.92543		-0.65983455	-0.75128043	
a 2.2532564	Node 249.36887		+0.69451868	-0.60265662	
e 0.0949708	Incl. 0.85734		+0.28681382	-0.26904037	
P 3.38	H 13.8	G 0.15			

Residuals in seconds of arc

811102 688 2.4+ 2.2-	881207 399 0.1- 2.0+	881211 552(8.9- 0.2+)
811102 688 (3.8+ 0.2+)	881207 399 0.4+ 1.7+	881211 552 0.5+ 0.4+
811105 688 (3.1- 3.0-)	881209 552 0.3+ 1.7+	881213 552 0.6+ 0.5+
811105 688 1.7- 0.2-	881209 552 1.0+ 0.4-	881213 552 0.3- 0.6+
881203 400 0.6- 0.5+	881210 552 0.4+ 0.2+	881227 400 (4.5+ 3.9-)
881203 400 1.2- 2.1+	881210 552 0.6+ 0.0	881227 400 (3.0+ 6.7-)
881203 400 1.7+ 0.7+	881211 399 0.3- 1.8-	881230 552 0.7+ 1.0+
881206 400 1.6- 0.8-	881211 399 0.1- 1.8-	881230 552 0.3+ 0.1-
881206 400 0.3- 0.6-	881211 399 0.8+ 0.7-	910910 675 1.1+ 0.9+
881206 400 2.6- 0.1-	881211 399 1.5- 0.1+	910910 675 0.0 0.1-
881207 399 1.8+ 0.3+	881211 400 0.4- 2.5-	910916 675 0.2+ 0.3+
881207 399 1.4- 0.2-	881211 400 1.1+ 1.5-	910916 675 1.9- 0.6+

1988 XD1 = 1958 VZ = 1978 WF16 = 1981 TQ

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M 329.90477	(1950.0)		P	Q	Kaneda
n 0.29650954	Peri. 10.73787		+0.41553410	-0.90760276	
a 2.2272908	Node 54.73500		+0.82894688	+0.35076652	
e 0.1621709	Incl. 4.20753		+0.37440417	+0.23069479	
P 3.32	H 13.8	G 0.15			

Residuals in seconds of arc

581111 760 0.1+ 0.9-	811004 688 0.6+ 0.0	881209 875 (2.7- 4.4-)
581111 760 (8.8- 3.5+)	881202 875 (7.1- 2.4-)	881209 875 (2.5- 5.3-)
781130 675 0.6+ 0.0	881202 875 (7.9- 1.8-)	881210 875 1.4- 0.4+
781201 675 0.1- 0.3+	881205 875 0.1- 0.2+	881210 875 0.8- 0.4-
811004 688 0.7- 0.4+	881205 875 1.8+ 0.2+	

1988 XY1 = 1979 BZ1 = 1981 UG8 = 1986 CL2 = 1991 RU3

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

		(1950.0)		P		Q	
M	276.94485						
n	0.28778425	Peri.	170.90211	-0.47171169		-0.88087521	
a	2.2720856	Node	307.23336	+0.80581296		-0.41254735	
e	0.0503964	Incl.	2.83158	+0.35798542		-0.23208523	
P	3.42	H	13.7	G	0.15		

Kaneda

Residuals in seconds of arc

790124	095	0.7-	1.1+	881211	399	0.2+	1.0+	910905	033	0.7+	0.4-
811030	381	0.9+	0.9+	881211	399	0.5-	0.2+	910905	033	0.6+	0.4-
811030	381	0.1-	0.2+	881215	399	0.9+	0.4-	910912	033	0.2+	0.1-
860215	046	0.4-	2.8-	881215	399	1.3+	0.5-	910912	033	0.3+	0.4-
860215	046	(2.9-	3.7-)	881215	399	2.1-	0.3-	910914	033	0.3-	0.2-
881211	399	1.7-	0.6-	881216	399	1.9+	0.1-	910915	033	1.1-	0.5-
881211	399	0.9-	0.0	881216	399	0.8+	1.1+	910915	033	0.2+	0.7-

1989 CD = 1991 RX7

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

		(1950.0)		P		Q	
M	324.66434						
n	0.27402991	Peri.	343.05740	+0.14487351		-0.98894694	
a	2.3474917	Node	98.60415	+0.91141826		+0.12096751	
e	0.1620145	Incl.	1.82877	+0.38513428		+0.08573687	
P	3.60	H	13.9	G	0.15		

Bowell

Residuals in seconds of arc

890130	046	(10.9-	4.7+)	890202	046	(3.1-	0.5+)	890205	220	(4.3+	8.0-)
890130	046	1.1+	0.2+	890204	220	(1.0+	7.8-)	890210	875	0.2+	1.3-
890131	046	1.5-	0.5-	890204	071	(4.8-	2.6+)	890210	875	1.4-	0.6+
890131	046	0.0	0.7-	890205	071	(2.3-	3.0+)	910912	675	0.5+	0.7+
890202	875	(2.5+	2.2+)	890205	875	1.2+	1.0+	910912	675	0.1+	0.5+
890202	875	(2.2+	3.8+)	890205	875	1.2+	1.5+	910914	675	0.4-	0.6-
890202	046	0.8-	0.8-	890205	220	(3.9+	6.8-)	910914	675	0.2-	0.6-

1989 CV1 = 1991 TR

Id. G. V. Williams, S. Nakano

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

		(1950.0)		P		Q	
M	312.82988						
n	0.26977664	Peri.	358.59275	-0.13468468		-0.98635431	
a	2.3721009	Node	99.14117	+0.91001227		-0.16093695	
e	0.1712894	Incl.	5.50328	+0.39209399		+0.03470542	
P	3.65	H	14.7	G	0.15		

Nakano

Residuals in seconds of arc

890211	372	0.5+	2.6-	890214	372	1.5-	0.8+	911002	413	1.7-	0.5-
890211	372	1.5+	2.0-	890214	372	2.0-	2.3+	911007	413	(55.7-	20.7-)
890212	400	(4.7+	0.1+)	890301	372	(4.0-	2.4+)	911015	413	0.5+	1.1+
890212	400	(4.0+	0.6+)	890301	372	0.3-	1.2+				
890212	400	1.8+	0.5+	911001	413	1.1+	0.4-				

1989 CY2 = 1991 UD

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

		(1950.0)		P		Q	
M	335.57136						
n	0.27856564	Peri.	217.14681	+0.22697333		-0.97219658	
a	2.3219401	Node	219.82641	+0.91370822		+0.23303993	
e	0.1358649	Incl.	5.15920	+0.33707626		+0.02293901	
P	3.54	H	14.8	G	0.15		

Kaneda

Residuals in seconds of arc

890204	809	0.6-	0.6-	890207	809	0.8+	0.2+	890302	809	0.1+	0.4+
890204	809	0.3-	0.4+	890207	809	0.6-	0.0	890302	809	0.1-	0.2-
890204	809	1.1+	0.6+	890207	809	0.4-	0.6-	890302	809	0.2-	0.2-

890303	809	0.0	0.4+	911018	399	1.2-	0.5-	911019	399	1.4-	0.9+
890303	809	0.3-	0.4+	911018	399	0.0	1.5-				
890303	809	0.6+	0.7-	911019	399	2.6+	1.2+				

1989 UL1 = 4867 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M 237.41973

(1950.0)

P

Q

n 0.24068816 Peri. 294.51704 +0.92042090 +0.37084509

a 2.5595654 Node 43.99914 -0.26194538 +0.81991873

e 0.1122525 Incl. 10.25689 -0.29018957 +0.43612750

P 4.09 H 12.5 G 0.15

Residuals in seconds of arc

710513	675	0.5-	0.4+	891027	017	1.4-	1.4-	891119	399	0.0	0.6+
710514	675	0.0	1.3-	891028	017	(3.2+	2.1-)	891119	399	0.2+	0.1-
710516	675	0.3+	0.5+	891029	399	0.2-	0.2+	891201	399	0.8-	0.6-
891026	399	0.0	0.2+	891029	399	0.7-	0.0	891201	399	1.1-	0.4-
891026	399	1.2+	0.5+	891029	399	1.9+	0.4+	891201	399	0.7-	0.1+
891026	399	2.3+	0.1+	891119	399	0.6-	0.1-				

1990 ES3 = 1991 TU1

Id. H. E. Holt, S. Nakano

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Nakano

M 67.20239

(1950.0)

P

Q

n 0.29215176 Peri. 343.46245 +0.59116668 +0.80485756

a 2.2493845 Node 322.73180 -0.72985013 +0.50627416

e 0.1766124 Incl. 4.94650 -0.34327939 +0.30966236

P 3.37 H 14.2 G 0.15

Residuals in seconds of arc

900302	809	0.7-	0.5+	900404	809	0.4-	0.8-	910905	033	0.3+	0.1-
900302	809	1.0-	1.2+	900415	809	0.8+	0.8-	910915	675	0.2+	0.5-
900302	809	0.9-	0.5+	900416	809	0.6+	1.4-	910915	675	0.7+	0.4-
900304	809	0.7+	0.8-	900416	809	0.1-	0.4-	911013	894	1.9-	0.4-
900304	809	0.2+	1.1-	900416	809	1.0+	2.0+	911013	894	0.1-	0.6+
900304	809	0.6+	1.1-	900417	809	0.1+	1.3+	911015	894	0.9+	0.7+
900404	809	0.6+	0.6-	900417	809	2.3-	0.9+				
900404	809	0.3+	0.0	910905	033	0.3+	0.6-				

1990 EL7 = 1969 TJ7 = 1059 T-1 = 1991 PK17

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M 218.06865

(1950.0)

P

Q

n 0.30921359 Peri. 176.71646 -0.77109054 -0.63498866

a 2.1658598 Node 323.72582 +0.58233032 -0.67344163

e 0.0453883 Incl. 4.55608 +0.25750878 -0.37850465

P 3.19 H 14.5 G 0.15

Residuals in seconds of arc

691008	033	0.5+	0.0	900303	809	0.5-	0.3+	900316	809	0.8-	0.4+
691008	033	0.3-	0.2-	900303	809	0.2-	0.3+	900318	809	0.2-	1.5-
710324	675	0.2-	0.9+	900303	809	0.0	0.3+	900318	809	0.4-	1.2-
710325	675	0.8-	1.0+	900304	809	0.5+	0.0	900318	809	0.6-	0.9-
710325	675	0.5-	0.7+	900304	809	0.8+	0.0	910806	809	0.2+	0.3-
710326	675	1.7+	0.1-	900304	809	1.1+	0.0	910806	809	0.2+	0.7-
710327	675	0.9+	0.5-	900316	809	0.3-	0.6-	910806	809	0.3+	0.6-
900224	403	0.6-	0.6-	Y 900316	809	0.5-	0.1-				

1990 FR1

Id. C. S. Shoemaker (1991 obs.)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	280.37135		(1950.0)		P		Q
n	0.17548381	Peri.	259.23342	+0.95444787			-0.11711488
a	3.1596915	Node	107.05874	+0.20162781			+0.93113087
e	0.0224172	Incl.	16.68216	-0.21994427			+0.34536851
P	5.62	H	12.5	G	0.15		

Residuals in seconds of arc

900221	675	2.0+	0.7+	900331	675	0.0	0.2+	910606	675	0.8+	1.3+
900222	675	0.5-	0.2+	900401	675	0.7-	1.3-	910608	675	0.6+	0.1-
900224	675	0.3-	0.2+	910514	675	0.9+	1.3+	910608	675	0.1-	0.1+
900327	675	0.4-	0.0	910517	675	2.2-	2.4-				

1990 HC1 = 1991 TT1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	60.28708		(1950.0)		P		Q
n	0.23175997	Peri.	141.38746	+0.73842852			+0.67362283
a	2.6248859	Node	175.84438	-0.67432790			+0.73780300
e	0.2145764	Incl.	25.25102	-0.00228012			-0.04334754
P	4.25	H	12.0	G	0.15		

Residuals in seconds of arc

900426	675	(7.2+	6.6-)	900519	675	0.0	0.1+	911010	675	1.3+	0.7+
900426	675	0.4+	0.7-	900519	675	0.4+	0.0	911010	675	0.7-	0.3-
900429	675	0.1-	0.6+	900522	675	0.0	0.0	911013	675	1.2-	0.8-
900429	675	0.8-	0.2+	900522	675	0.0	0.3-	911013	675	0.6+	0.5+

1990 QF5 = 1036 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	169.94304		(1950.0)		P		Q
n	0.17271493	Peri.	252.94026	-0.42339862			+0.90516808
a	3.1933716	Node	351.71042	-0.70040188			-0.35329380
e	0.0670105	Incl.	15.06555	-0.57460492			-0.23633502
P	5.71	H	12.0	G	0.15		

Residuals in seconds of arc

710324	675	1.5+	1.4-	900826	809	0.2+	2.7+	900912	809	0.3-	0.2-
710325	675	1.0-	0.6+	900826	809	0.5+	1.5+	900914	809	0.0	0.6-
710325	675	0.3-	0.2+	900826	675	0.2+	0.6+	900914	809	0.2+	0.6-
710326	675	0.0	0.1+	900826	675	0.2-	0.2-	900914	809	0.3+	0.6-
710327	675	0.2-	0.6+	900827	675	0.4+	1.6-	900915	809	0.1+	0.2-
900823	675	0.0	0.5-	900827	675	0.2-	0.5+	900915	809	0.0	0.1-
900823	675	0.0	1.1-	900828	095	0.7-	2.1-	900915	809	0.4+	0.2-
900825	675	0.2+	0.1-	900828	095	1.1+	1.0-	900918	675	0.6-	0.3-
900825	675	0.5-	0.4+	900912	809	0.8-	0.3-	900918	675	0.0	0.2+
900826	809	0.6+	2.8+	900912	809	0.4-	0.0	900921	095	0.6-	1.3+

1990 RT2 = 1981 RT7

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	91.56153		(1950.0)		P		Q
n	0.22204024	Peri.	14.75650	+0.98135870			-0.19169153
a	2.7009399	Node	356.21316	+0.14833777			+0.80105085
e	0.1698724	Incl.	12.02887	+0.12219247			+0.56707309
P	4.44	H	13.0	G	0.15		

Residuals in seconds of arc

810903	675	0.0	0.2-	900917	675	1.3+	0.4-	900923	809	0.3+	0.6+
810904	675	0.0	0.2+	900917	675	0.1+	0.9-	900923	809	0.6+	0.5+
900915	675	0.0	2.0-	900919	675	1.4-	0.7+	900923	095	2.1-	1.5+
900915	095	0.2+	0.0	900919	675	2.0-	0.2+	900924	809	0.3+	0.7+
900915	095	0.2+	1.0-	900923	809	0.2+	0.5+	900924	809	0.5+	0.7+

900924 809	0.7+	0.9+	900928 809	0.9+	0.4-	901015 095	0.2-	2.6-
900928 809	0.3+	0.3-	901011 095	1.7-	0.5-			
900928 809	0.7+	0.2-	901015 095	1.1+	1.8+			

1990 RC3 = 1978 NG2 = 1986 PO6

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M 166.61115		(1950.0)		P	Q
n 0.25338551	Peri.	67.38541	+0.24431077	+0.96932111	
a 2.4733270	Node	216.78891	-0.90537371	+0.21804542	
e 0.1800140	Incl.	2.58378	-0.34729050	+0.11345831	
P 3.89	H 13.5		G 0.15		

Residuals in seconds of arc

780706 095	0.2+	0.9-	900914 675	1.5+	0.9-	900918 095	(4.9+	2.4+)
860812 095	0.6-	2.2+	900914 675	1.5+	0.8-	900922 095	1.3-	0.6+
860829 095	0.3-	0.5+	900918 675	0.9+	0.2+	900922 095	0.9-	1.1+
900829 095	1.9+	0.2-	900918 675	1.2+	2.0-			
900829 095	2.0-	1.2-	900918 095	2.0-	1.0+			

1990 RE7 = 1982 BF5

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Kaneda

M 19.13751		(1950.0)		P	Q
n 0.19110835	Peri.	65.82378	+0.43798602	-0.89896289	
a 2.9850363	Node	358.16958	+0.74426334	+0.36623553	
e 0.1040675	Incl.	10.51356	+0.50422250	+0.24028580	
P 5.16	H 13.0		G 0.15		

Residuals in seconds of arc

820126 381	1.0-	0.6-	900826 809	0.7+	0.3-	900913 809	0.0	0.1-
820126 381	1.2-	0.5-	900826 809	0.2+	0.7+	900914 809	0.0	0.1+
820126 381	1.0-	2.2+	900826 809	0.6-	0.2-	900914 809	0.2+	0.0
820126 381	1.7+	0.9-	900913 809	0.7-	0.1-	900914 809	0.5+	0.0
820128 381	1.5+	0.2-	900913 809	0.3-	0.1-			

1990 RC8 = 1982 BV9

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Kaneda

M 42.28015		(1950.0)		P	Q
n 0.30328412	Peri.	313.06102	+0.04225934	-0.99703927	
a 2.1939982	Node	134.39573	+0.94077020	+0.01806033	
e 0.0625470	Incl.	5.15823	+0.33640092	+0.07474295	
P 3.25	H 15.0		G 0.15		

Residuals in seconds of arc

820119 095	1.0-	0.0	900826 809	1.1-	1.2-	900915 809	0.2-	0.0
820120 095	1.0+	0.0	900914 809	0.6-	0.3+	900915 809	0.2+	0.3-
900826 809	0.6+	1.1+	900914 809	0.2-	0.3+	900915 809	0.4+	0.3-
900826 809	0.4+	0.0	900914 809	0.5+	0.0			

1990 RS17 = 1954 SC = 1967 RB

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M 162.39607		(1950.0)		P	Q
n 0.30191099	Peri.	6.59199	+0.85723047	+0.51196592	
a 2.2006455	Node	322.44705	-0.47645879	+0.74795432	
e 0.1892488	Incl.	5.19603	-0.19530219	+0.42243963	
P 3.26	H 13.5		G 0.15		

Residuals in seconds of arc

540919 760	1.5-	1.7+	670909 095	0.3-	0.8-	901023 095	1.0+	0.9-
540919 760	0.3-	1.8+	900915 095	0.1-	0.5-			
670903 095	1.5+	1.6-	900923 095	0.3-	0.2-			

1990 SW = 1989 GU4 = 1017 T-1

Id. S. Nakano (MPC 17216), G. V. Williams

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	185.05118		(1950.0)		P		Williams	Q
n	0.27497269	Peri.	84.03670	+0.32647850			+0.94309705	
a	2.3421229	Node	205.30097	-0.91505543			+0.29863759	
e	0.1161276	Incl.	8.48854	-0.23682346			+0.14623113	
P	3.58	H	13.5	G	0.15			

Residuals in seconds of arc

710324	675	0.9+	1.3-	890406	809	1.0+	0.2-	900918	675	0.8+	0.6-
710325	675	1.4-	1.2+	890409	809	0.9-	0.2-	900918	675	0.2+	1.1-
710325	675	0.1-	0.4+	890409	809	0.9-	0.2+	900920	675	0.1+	0.7-
710326	675	0.7+	0.1+	890409	809	0.1-	0.7-	900920	675	0.2-	0.5+
890405	809	0.3-	0.2+	900916	675	0.5+	0.2+	901010	400	1.3-	0.3-
890405	809	1.3+	0.9-	900916	675	0.8+	0.3+	901010	400	1.6-	0.2-
890406	809	0.3+	1.4+	900917	675	0.3+	0.6+	901010	400	(3.0+	1.7+)
890406	809	0.3-	0.4+	900917	675	0.2+	1.9+				

1990 ST8 = 2276 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	142.30336		(1950.0)		P		Williams	Q
n	0.27422404	Peri.	277.88034	+0.85916715			+0.50943760	
a	2.3463837	Node	51.50673	-0.44194959			+0.78607744	
e	0.1914529	Incl.	3.51689	-0.25789991			+0.35007942	
P	3.59	H	15.5	G	0.15			

Residuals in seconds of arc

710325	675	0.1+	0.1-	900914	809	0.0	0.3+	900922	809	0.0	0.1+
710325	675	0.3-	0.7+	900914	809	0.6+	0.4+	900925	809	0.6-	0.8-
710326	675	0.4+	0.6-	900914	809	0.4-	0.5-	900925	809	0.2-	0.1-
710327	675	0.3-	0.0	900922	809	0.7+	0.4+	900925	809	0.5-	0.4-
710402	675	0.1+	0.3-	900922	809	0.5+	0.4+				

1990 SJ16 = 1952 QH = 1974 SC3

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	63.73034		(1950.0)		P		Williams	Q
n	0.18102015	Peri.	69.39663	+0.98790212			-0.13288158	
a	3.0949343	Node	298.16562	+0.08529225			+0.89613208	
e	0.2201341	Incl.	5.20319	+0.12951696			+0.42342625	
P	5.44	H	12.5	G	0.15			

Residuals in seconds of arc

520828	024	0.3-	0.7+	900830	095	0.6-	0.5-	900919	675	0.9+	0.4+
740920	095	0.1-	0.4+	900830	095	0.6-	0.1+	900920	675	0.6-	0.2+
740922	095	0.1+	0.4-	900917	675	0.6-	0.6-	900920	675	1.2-	0.0
900826	095	0.5+	0.5+	900917	675	0.2-	0.2+				
900826	095	1.0+	0.6-	900919	675	1.9+	0.4-				

1990 SM28 = 1965 UD1 = 1970 EU3 = 1981 YF1 = 1984 WN4 = 1987 UL9

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	90.05185		(1950.0)		P		Williams	Q
n	0.31552491	Peri.	170.89362	+0.35074197			-0.93532613	
a	2.1368807	Node	258.56307	+0.85615111			+0.34030632	
e	0.0383004	Incl.	2.70844	+0.37945402			+0.09672974	
P	3.12	H	13.0	G	0.15			

Residuals in seconds of arc

651016	330	0.8+	2.0-	811231	704	(18.7+	36.2+)	900924	095	0.0	0.3+
700304	805	0.1-	1.1+	841122	330	1.6+	0.6-	900930	095	0.2-	1.1+
700304	805	0.3-	0.7+	841125	330	0.7-	0.1+	901015	095	0.3-	0.7+
700304	805	0.8+	0.6-	871028	095	1.5-	0.5-	901015	095	0.1-	1.9+

1990 TU8 = 1979 SP7 = 1979 TB1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M 146.80874	(1950.0)		P	Q
n 0.26963386	Peri. 321.36124	+0.86388443		+0.50365611
a 2.3729382	Node 8.40264	-0.45159103		+0.77961955
e 0.2310093	Incl. 2.29385	-0.22309018		+0.37218796
P 3.66	H 14.0	G 0.15		

Residuals in seconds of arc

790923 095 0.3+ 1.7-	901014 046 0.0 0.0	901015 095 (1.2+ 4.3+)
791014 095 0.2+ 0.6+	901014 046 0.4+ 0.3+	901015 095 0.3- 1.4+
900924 095 0.8- 0.9+	901015 046 2.1+ 1.3-	
900930 095 0.0 2.2+	901015 046 1.8- 2.4-	

1990 VA

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Marsden

M 176.39600	(1950.0)		P	Q
n 1.00785783	Peri. 34.41077	-0.34943640		+0.92594330
a 0.9852275	Node 215.75151	-0.90528189		-0.37307393
e 0.2791880	Incl. 14.19324	-0.24157585		+0.05869285
P 0.98	H 19.5	G 0.15		

Residuals in seconds of arc

901109 691 0.5+ 0.1+	901110 691 0.8- 1.0-	901122 691 0.4- 0.6-
901109 691 0.9+ 0.1-	901111 691 0.5+ 0.9+	901207 691 0.4+ 0.2+
901109 691 0.6+ 0.2-	901111 691 0.5+ 1.1+	901207 691 0.8+ 0.1-
901110 691 0.1- 0.3+	901113 691 0.2- 0.6+	911015 691 0.2+ 0.3+
901110 691 0.3+ 0.3+	901113 691 0.1- 0.6+	911015 691 0.4+ 0.1-
901110 691 0.2- 0.3+	901113 691 0.2- 0.4+	911016 691 0.1- 0.5-
901110 691 0.9- 1.4-	901122 691 0.2- 0.3-	911016 691 0.9- 0.2+
901110 691 0.8- 0.7-	901122 691 0.4- 0.0	911016 691 0.5+ 0.2-

1990 VD2 = 1957 VB = 1987 HX

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M 38.49629	(1950.0)		P	Q
n 0.18037165	Peri. 264.77622	-0.13679779		-0.99059393
a 3.1023482	Node 193.08764	+0.91426321		-0.12502495
e 0.1690593	Incl. 0.80126	+0.38132551		-0.05560956
P 5.46	H 12.0	G 0.15		

Residuals in seconds of arc

571114 330 0.6+ 0.7-	901112 399 1.7+ 0.5-	901117 399 0.1+ 0.6-
571116 330 0.5- 2.7+	901112 399 1.6+ 2.2-	901117 399 1.5+ 0.0
571118 330 0.3- 1.4-	901113 877 2.1- 0.1-	901123 877 1.3- 1.0+
870423 046 0.1+ 1.3-	901113 877 1.5- 0.5+	901123 877 2.4- 0.4+
870423 046 0.2- 1.0+	901115 877 1.2- 0.4-	901123 095 1.6+ 0.7+
901028 095 2.1- 0.9-	901115 877 0.3+ 0.6+	901123 095 2.0+ 0.8+
901029 095 1.9+ 0.1-	901115 095 (7.0+ 6.0+)	
901112 399 (1.6- 5.1-)	901115 095 (0.7+ 3.3+)	

1990 WU5 = 2197 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M 42.63466	(1950.0)		P	Q
n 0.23584998	Peri. 344.43377	-0.46123280		-0.88569178
a 2.5944511	Node 132.99954	+0.82157172		-0.44889245
e 0.0625368	Incl. 4.15972	+0.33508836		-0.11851428
P 4.18	H 15.0	G 0.15		

Residuals in seconds of arc

710324 675 1.0- 1.0-	710327 675 0.4- 0.1-	901121 809 0.7- 0.3-
710325 675 0.0 0.4+	901116 809 0.2+ 0.2-	901122 809 1.2+ 0.0
710325 675 1.2+ 0.4+	901121 809 0.2+ 1.1+	901122 809 0.4+ 0.6+
710326 675 0.2+ 0.2+	901121 809 1.5- 0.7-	901122 809 0.3+ 0.4-

1991 CF = 1971 KE1 = 1981 FJ1 = 1981 GL = 1989 TR13

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	20.51868		(1950.0)		P		Williams		Q
n	0.28904903	Peri.	54.66337			-0.70980004		+0.70404770	
a	2.2654529	Node	170.02162			-0.68089394		-0.67762558	
e	0.1251408	Incl.	7.42004			-0.18046429		-0.21246272	
P	3.41	H	13.5		G	0.15			

Residuals in seconds of arc

710522	095	0.4-	0.6+	910208	886	0.4+	1.6+	Y	910221	886	(3.9-	1.8+)
810329	095	(4.5-	1.6+)	910209	886	0.6-	0.1+		910307	809	0.4-	0.0
810405	688	0.6+	1.9-	910209	886	0.5-	1.3-		910307	809	0.3+	0.1-
810405	688	(0.0	3.7-)	910212	886	2.0-	1.6+	Y	910307	809	1.1+	0.0
891003	809	0.5-	0.6-	910212	886	1.0+	1.5-	Y	910309	809	0.4+	0.1+
891003	809	0.2+	0.1+	910216	886	(1.5+	3.1+)	Y	910309	809	0.7+	0.1+
891003	809	0.8+	0.3-	910216	886	(3.4+	2.6+)	Y	910309	809	0.8+	0.2+
910208	886	(0.3-	2.9-)	Y	910221	886	1.7-	0.3+				

1991 DT = 1978 WH15 = 1984 YC5 = 1986 GZ2

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	56.31396		(1950.0)		P		Kaneda		Q
n	0.17923808	Peri.	47.23615			-0.87000788		-0.49111912	
a	3.1154147	Node	103.30633			+0.43828653		-0.81075139	
e	0.1136696	Incl.	2.55930			+0.22581232		-0.31856585	
P	5.50	H	12.2		G	0.15			

Residuals in seconds of arc

781130	675	0.2-	1.5-	841228	095	0.1+	2.6+		910223	889	2.8+	0.8-
781201	675	0.8+	0.8-	860404	095	0.2-	0.5-		910223	889	0.5+	0.4-
841223	010	(2.1-	17.6-)	910221	889	0.9-	0.0	Y	910306	887	1.7-	1.1+
841223	010	(3.4+	10.2-)	910221	889	0.7-	2.2-	Y	910306	887	0.6-	0.9+

1991 GE9 = 1991 FD3 = 1988 RS1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	135.40986		(1950.0)		P		Nakano		Q
n	0.17671862	Peri.	324.31083			+0.11702270		-0.99258813	
a	3.1449555	Node	118.94819			+0.91960794		+0.09583746	
e	0.1738419	Incl.	2.14678			+0.37500256		+0.07472602	
P	5.58	H	13.1		G	0.15			

Residuals in seconds of arc

880907	033	0.2-	0.3+	910320	809	0.3-	0.5-		910410	809	0.2+	0.5+
880908	033	0.7-	1.1-	910321	809	0.0	0.5+		910410	809	0.1-	0.4+
880908	033	0.8+	0.8+	910321	809	0.3+	0.2+		910419	809	0.1+	0.0
910320	809	0.8-	0.6-	910321	809	0.6+	0.5+		910419	809	0.7-	0.4-
910320	809	0.4-	0.6-	910410	809	1.9+	0.9+		910419	809	0.8-	0.9-

1991 LE1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	304.69656		(1950.0)		P		Bardwell		Q
n	0.23179724	Peri.	262.29328			+0.86613486		-0.23078317	
a	2.6246045	Node	110.17260			+0.34708925		+0.91597866	
e	0.1188733	Incl.	28.18445			-0.35963794		+0.32821064	
P	4.25	H	11.0		G	0.15			

From 10 observations 1991 June 15-Sept. 13, mean residual 0".74.

1991 NL

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 Bardwell
M 22.04146 (1950.0) P Q
n 0.24113169 Peri. 53.50133 +0.65236108 +0.71305087
a 2.5564258 Node 259.32875 -0.75168081 +0.56534939
e 0.1938220 Incl. 15.15274 -0.09695863 +0.41465470
P 4.09 H 13.0 G 0.15
From 12 observations 1991 July 8-Oct. 10, mean residual 0".76.

1991 NP

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 Bardwell
M 59.14149 (1950.0) P Q
n 0.27262698 Peri. 350.26100 +0.09807370 +0.91905190
a 2.3555382 Node 284.60344 -0.88440822 -0.09538677
e 0.1142401 Incl. 23.23379 -0.45629337 +0.38241990
P 3.62 H 12.5 G 0.15
From 10 observations 1991 July 9-Oct. 7, mean residual 0".85.

1991 NR2

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 Bardwell
M 31.17243 (1950.0) P Q
n 0.22694723 Peri. 27.89292 +0.67773439 +0.67782986
a 2.6618656 Node 286.37333 -0.71773186 +0.52559111
e 0.4044428 Incl. 17.28006 -0.15980322 +0.51410181
P 4.34 H 14.0 G 0.15
From 16 observations 1991 July 12-Oct. 11, mean residual 0".22.

1991 PE1 = 1990 HH3

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P) Marsden
M 22.81496 (1950.0) P Q
n 0.17880959 Peri. 174.61785 +0.66767634 +0.71064740
a 3.1203960 Node 137.00306 -0.69455114 +0.70187270
e 0.2577535 Incl. 18.97874 -0.26796831 -0.04852824
P 5.51 H 12.5 G 0.15

Residuals in seconds of arc

900429 413	0.9-	0.2+	910815 675	0.4-	1.0+	910907 809	0.4+	0.3-
900429 413	0.6+	1.0-	910816 675	0.8+	0.1-	910907 809	0.4+	0.1+
900430 413	(4.0-	2.2+)	910904 809	0.5+	0.2-	910907 809	0.4-	0.2-
900430 413	0.2+	0.7+	910904 809	0.4-	0.5+			
910815 675	0.3-	1.0-	910904 809	0.7-	0.1+			

1991 PM1 = 1991 TA = 1974 OC = 1979 YE6

Id. G. V. Williams, S. Nakano
Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 Williams
M 12.94259 (1950.0) P Q
n 0.23840374 Peri. 266.37259 +0.97964683 +0.05437951
a 2.5758901 Node 90.44174 +0.02561118 +0.92087496
e 0.1952980 Incl. 11.14124 -0.19908829 +0.38604685
P 4.13 H 12.5 G 0.15

Residuals in seconds of arc

740716 808	0.7-	0.0	910815 675	0.1+	0.2-	911002 413	0.3+	0.2+
740717 808	0.5+	0.7+	910816 675	0.2+	0.2-	911009 413	0.4+	0.7+
740718 808	0.6+	0.3+	910818 413	0.3-	0.5-	911013 413	0.3-	0.3-
791223 095	0.4-	0.8+	910818 413	0.8-	0.9+			
910815 675	0.5-	0.9-	911001 413	1.1+	0.1-			

1991 PO2 = 1981 UU7 = 1989 EA7

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Kaneda

M	276.84605		(1950.0)			P			Q	
n	0.17589062		Peri.	348.56075		+0.37295557			-0.92709622	
a	3.1548177		Node	79.53253		+0.85421412			+0.32735320	
e	0.1175180		Incl.	2.17808		+0.36224631			+0.18257184	
P	5.60		H	13.0		G	0.15			

Residuals in seconds of arc

811024	095	2.0+	0.2-	910802	809	2.3+	0.4-	910807	809	1.7-	1.2-
811030	381	1.3-	0.3-	910802	809	0.4+	0.0	910814	809	0.7+	0.6+
811030	381	0.7-	0.7+	910802	809	0.2+	0.2-	910814	809	0.2-	0.5+
890306	033	0.1+	0.2-	910807	809	0.4-	0.5+	910814	809	0.6-	0.4+
890306	033	0.0	0.5+	910807	809	0.8-	0.2+				

1991 PE3 = 1980 TL1 = 1989 AE2 = 1989 AK2

Id. B. G. Marsden, D. W. E. Green (d, MPC 14324)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P)

Marsden

M	324.45033		(1950.0)			P			Q	
n	0.26251057		Peri.	294.02108		+0.71136083			-0.70075519	
a	2.4156781		Node	110.51736		+0.66391674			+0.64482222	
e	0.2089256		Incl.	3.30078		+0.23060860			+0.30519905	
P	3.75		H	14.5		G	0.15			

Residuals in seconds of arc

801005	809	0.5-	1.3+	890111	046	0.3+	0.8-	910814	809	0.1+	0.6+
890104	046	1.8-	0.1-	910802	809	1.7+	0.3+	910814	809	0.2-	0.2-
890104	046	0.4+	0.5-	910802	809	2.0+	1.5+	910904	809	1.4+	2.4-
890109	400	(3.9+	0.8-)	910802	809	0.5+	0.9+	910904	809	1.0+	1.4-
890109	400	2.9+	0.4-	910807	809	0.4-	0.6-	910904	809	0.1+	1.8-
890109	046	1.9-	0.3-	910807	809	1.3-	0.2-	910907	809	0.1-	0.5+
890109	046	0.6-	0.3+	910807	809	1.8-	1.5-	910907	809	1.3-	0.5+
890111	046	0.6+	0.2+	910814	809	0.2-	0.7+	910907	809	1.4-	0.2+

1991 PE5 = 1980 GB1

Id. G. V. Williams (MPC 18829)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	196.84542		(1950.0)			P			Q	
n	0.20195429		Peri.	259.28265		-0.80745768			-0.58961299	
a	2.8771819		Node	244.58511		+0.54919023			-0.73941922	
e	0.0037332		Incl.	1.21801		+0.21541168			-0.32498576	
P	4.88		H	13.0		G	0.15			

Residuals in seconds of arc

800414	805	1.3+	0.4-	910805	809	0.1+	0.1-	910904	809	0.2+	0.1+
800415	805	1.4-	0.8-	910805	675	1.2-	0.9-	910904	809	1.1+	0.1-
800416	805	0.1+	1.3+	910805	809	0.3-	0.0	910906	809	0.9+	0.4-
910803	809	0.6+	0.8+	910805	675	0.4-	0.2-	910906	809	1.1-	0.0
910803	809	0.0	1.2+	910807	675	0.3+	1.5-	910906	809	1.3-	1.2+
910803	809	0.3+	1.1+	910807	675	0.2-	1.6-				
910805	809	0.8+	0.2-	910904	809	0.1+	0.7+				

1991 PJ5 = 1954 WG = 1954 WL = 1969 UH2 = 1980 RQ1

Id. B. G. Marsden, O. Kippes (d, MPC 1750), S. Kanda (d, MPC 1753);

1954 WG = 1954 US2 (MPC 1331) is invalid

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P)

Marsden

M	297.04698		(1950.0)			P			Q	
n	0.26265701		Peri.	140.13437		+0.32071532			-0.94692956	
a	2.4147801		Node	291.14975		+0.86296366			+0.30152042	
e	0.1840343		Incl.	1.32641		+0.39042977			+0.11139943	
P	3.75		H	13.5		G	0.15			

Residuals in seconds of arc

541116	760	0.7-	0.1-	800914	688	2.3+	1.9-	910904	809	1.1-	2.3+
541117	760	0.2+	2.4+	910803	809	1.0+	0.7-	910904	809	1.2-	1.7+
541117	760	0.5-	0.8+	910803	809	0.1+	1.0-	910904	809	1.3-	2.3+
691018	095	0.3+	1.4-	910803	809	0.1+	0.3-	910906	809	0.6-	1.5+
691105	095	(5.6+	0.2-)	910805	809	1.7+	1.5-	910906	809	1.5-	1.7+
800908	095	1.4-	2.8-	910805	809	1.4+	0.9-	910906	809	2.3-	2.0+
800914	688	1.8+	1.0-	910805	809	1.5+	0.5-				

1991 PS6 = 1978 EQ1 = 1989 EY

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P)				Marsden	
M 189.22617 (1950.0)				P	Q
n	0.18321549	Peri.	43.95363	-0.89134863	-0.44784508
a	3.0701679	Node	109.32007	+0.39262989	-0.84013377
e	0.0830432	Incl.	4.26802	+0.22658196	-0.30595756
P	5.38	H	12.0	G	0.15

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

780305	095	0.1-	0.3-	910806	809	1.9-	0.0	910904	809	1.5+	0.3-
890305	881	(13.1-	0.3+)Y	910806	809	1.6-	0.7-	910904	809	0.8+	1.0-
890305	881	(0.02-	0.16-)	910806	809	2.2-	0.6-	910906	809	1.6+	0.1+
890309	881	0.5-	0.0	910814	809	0.3-	0.1+	910906	809	0.3+	0.6+
890309	881	0.7+	0.2+	910814	809	0.1-	0.5+	910906	809	0.9+	0.2-
890310	881	1.6+	0.3-	Y	910814	809	0.7-	0.6+			
890310	881	1.9-	0.4-	Y	910904	809	2.2+	0.1-			

1991 PR10 = 1991 RH = 1173 T-1 = 1990 DS3

Id. G. V. Williams (MPC 19031), D. W. E. Green; 1991 PR10 = 1980 TK14 (ibid.) is invalid

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P)				Green	
M 76.71268 (1950.0)				P	Q
n	0.25893964	Peri.	90.58674	+0.17770099	+0.98384996
a	2.4378364	Node	189.72899	-0.94585372	+0.16473043
e	0.1414581	Incl.	7.30437	-0.27163043	+0.07002244
P	3.81	H	13.5	G	0.15

Residuals in seconds of arc

710324	675	0.3+	0.7-	710513	675	0.4-	1.1+	900226	809	0.1-	0.2+
710325	675	1.5-	0.4-	710514	675	0.2-	1.0+	910807	675	0.1-	0.3-
710325	675	0.6-	0.8-	710516	675	0.4+	0.9-	910808	675	0.0	0.7+
710326	675	0.8+	1.3-	900225	809	0.3+	0.0	910904	413	0.0	0.6+
710327	675	0.7-	1.0-	900225	809	0.4+	0.1+	910905	413	0.6-	0.3-
710402	675	0.3+	1.3+	900225	809	0.6+	0.2+	910907	413	0.3+	1.0-
710416	675	0.8+	0.4+	900226	809	0.8-	0.9+				
710416	675	0.8+	0.2-	900226	809	0.3-	0.6+				

1991 PH11 = 1979 WH4 = 1986 NJ = 1987 SV22 = 1989 AY

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5				Kaneda	
M 146.73395 (1950.0)				P	Q
n	0.22628739	Peri.	342.86012	-0.78861260	+0.60864199
a	2.6670377	Node	234.95507	-0.55086068	-0.76249511
e	0.1218863	Incl.	6.13080	-0.27320812	-0.21944507
P	4.36	H	11.8	G	0.15

Residuals in seconds of arc

791117	095	0.9+	1.5+	890103	675	1.4+	0.8-	910906	511	0.6+	0.2-
860707	010	2.0+	0.6-	890105	675	2.1-	1.5-	910907	511	0.3-	1.4+
860708	010	2.1-	0.4-	910809	675	0.3+	0.3-	910908	511	0.1+	0.8+
870920	095	1.4-	1.4-	910810	675	0.7+	1.3-				

1991 PW12 = 1979 OU5 = 1983 CC5 = 1984 KQ = 1986 TK3 = 1989 DD

Id. H. Kaneda, A. Lowe

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Kaneda

M	147.11530		(1950.0)		P		Q	
n	0.17139789	Peri.	189.15062	-0.96501621			+0.26218737	
a	3.2097095	Node	6.04968	-0.23980373			-0.88072754	
e	0.1077126	Incl.	0.66403	-0.10600885			-0.39443224	
P	5.75	H	11.6	G	0.15			

Residuals in seconds of arc

790724	675	1.5+	0.8+	861005	046	(24.7-	83.9+)	890228	872	1.2+	1.4-	Y
790725	675	3.2+	2.1+	861005	046	(24.0-	88.9+)	910805	675	0.9+	1.5-	
830214	381	3.1-	0.8+	861009	046	1.7+	1.2-	910808	675	0.4+	0.1-	
840522	071	1.4-	0.4-	861009	046	(4.0+	0.1-)	910808	675	0.4+	1.1-	
840522	071	2.8-	0.4+	861010	046	(3.9-	1.5-)	910907	399	1.2-	0.2-	
840522	071	0.7-	0.5-	861010	046	1.7-	0.8-	910907	399	1.0-	0.5-	
861004	046	2.0+	0.4+	890226	872	2.9+	2.7-	Y				
861004	046	2.1-	0.4-	890226	872	(8.9+	3.4-)					

1991 PF15 = 1971 OG1 = 1974 LG = 1981 PR = 1981 RX2 = 1985 YH2

Id. G. V. Williams (MPC 19032; unpublished), H. Kaneda; 2200 T-2 = 1985 YH2
(MPC 15571) is invalid

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Kaneda

M	56.62136		(1950.0)		P		Q	
n	0.29551472	Peri.	32.32079	+0.43126333			+0.90042580	
a	2.2322867	Node	263.28251	-0.83945977			+0.37732130	
e	0.1474569	Incl.	3.28838	-0.33063460			+0.21647636	
P	3.34	H	13.7	G	0.15			

Residuals in seconds of arc

710728	095	1.3+	0.0	810902	095	1.0-	1.6+	910809	675	0.6+	0.1-
710801	095	(6.4-	5.0+)	851217	010	1.0-	1.5-	910809	675	0.6+	0.8-
740613	095	0.0	0.1+	851217	010	1.0+	1.1+	910810	675	0.2-	0.5+
810807	046	1.8-	0.0	910807	675	0.1-	1.4-	910810	675	0.7+	0.3+
810807	046	0.1-	0.3-	910807	675	(4.2+	12.2-)				

1991 PW16 = 1976 UD16

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P)

Marsden

M	59.03857		(1950.0)		P		Q	
n	0.25590803	Peri.	147.14156	+0.23272281			+0.97167779	
a	2.4570517	Node	136.27693	-0.90456873			+0.23175471	
e	0.1591646	Incl.	3.40213	-0.35720514			+0.04617381	
P	3.85	H	15.0	G	0.15			

Residuals in seconds of arc

761022	381	0.6+	0.2+	910806	809	0.5-	0.4+	910904	809	0.3-	0.1+
761022	381	0.1+	0.1+	910810	675	0.2+	0.5-	910906	809	0.4-	0.8-
761024	381	0.7-	0.2-	910810	675	0.6+	0.0	910906	809	0.1-	0.8-
910806	809	0.1-	0.3-	910904	809	0.4+	0.3+	910906	809	0.4+	0.1+
910806	809	0.1-	0.4+	910904	809	0.1-	1.1+				

1991 RG = 1985 YY = 1990 EG9 = 1990 GH

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Kaneda

M	154.07336		(1950.0)		P		Q	
n	0.29427669	Peri.	344.45714	-0.84654370			+0.52993016	
a	2.2385432	Node	227.65554	-0.48081504			-0.80181569	
e	0.0943272	Incl.	3.90822	-0.22843087			-0.27616231	
P	3.35	H	14.0	G	0.15			

Residuals in seconds of arc

851217	010	0.1-	0.9-	900302	809	0.2-	1.1+	900417	809	0.7-	0.5-
851217	010	2.8+	1.5-	900415	809	1.1+	1.0-	900417	809	1.8-	0.7-
851219	010	2.7-	1.0+	900416	809	0.2+	0.5-	910904	413	0.3+	0.3-
900302	809	0.8+	0.8+	900416	809	1.5-	0.8-	910905	413	0.2+	0.2+
900302	809	0.6+	0.4+	900416	809	0.6+	0.7-	910907	413	0.1+	1.6-

1991 RJ2

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 Marsden
 M 36.08541 (1950.0) P Q
 n 0.30006541 Peri. 150.36475 +0.78645760 +0.61720958
 a 2.2096598 Node 171.40811 -0.59277638 +0.76479837
 e 0.4291188 Incl. 8.92145 -0.17349526 +0.18475871
 P 3.28 H 19.0 G 0.15
 From 22 observations 1991 Sept. 8-Oct. 29, mean residual 0".7.

1991 RX2 = 1984 WM4

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 Kaneda
 M 248.03751 (1950.0) P Q
 n 0.26097506 Peri. 223.64628 -0.80219007 -0.59315695
 a 2.4251394 Node 279.85045 +0.56503351 -0.71724463
 e 0.0853457 Incl. 3.97121 +0.19294616 -0.36568425
 P 3.78 H 13.3 G 0.15

Residuals in seconds of arc

841119	675	0.1+	0.2+	910910	033	0.3+	0.5+	910913	033	0.0	0.3-
841121	675	0.1-	0.2-	910912	033	0.2-	0.3-	910914	033	0.1-	0.2+
910909	033	0.5-	0.3-	910912	033	0.4+	0.3+				

1991 RZ2 = 1964 WU = 1989 GZ4

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P) Marsden
 M 302.63401 (1950.0) P Q
 n 0.21528874 Peri. 217.38021 -0.02292702 -0.99724178
 a 2.7571224 Node 234.04084 +0.93697481 +0.00319022
 e 0.1099079 Incl. 5.00317 +0.34864389 -0.07415286
 P 4.58 H 13.5 G 0.15

Residuals in seconds of arc

641127	330	0.0	0.0	890411	809	0.4-	0.1+	910914	033	0.5-	1.1+
890408	809	1.9+	0.1-	910909	033	0.1+	0.0	911004	033	0.2+	0.1-
890408	809	0.8-	0.0	910910	033	0.0	0.2+	911004	033	0.1+	0.3-
890408	809	0.7+	0.5+	910912	033	0.1-	0.3-	911005	033	0.6-	0.3-
890411	809	1.4-	0.0	910912	033	0.4+	0.2+				
890411	809	0.1-	0.6-	910913	033	0.4+	0.5-				

1991 RT3 = 1977 PX1 = 1984 SB3

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 Kaneda
 M 356.68285 (1950.0) P Q
 n 0.28483952 Peri. 177.01879 +0.75857026 -0.64879906
 a 2.2877184 Node 223.63084 +0.59597227 +0.72823194
 e 0.1472754 Incl. 5.00992 +0.26341642 +0.22076691
 P 3.46 H 13.8 G 0.15

Residuals in seconds of arc

770814	095	1.7+	0.6-	840928	688	0.3-	1.8-	910914	033	1.7-	1.2+
770821	095	2.0-	1.9+	910905	033	1.2+	0.8+	910915	033	0.8-	1.0+
840928	688	0.1-	2.6-	910905	033	1.3+	0.4+	910915	033	1.4-	1.0+
840928	688	1.3+	1.3-	910912	033	0.1-	0.5+				
840928	688	1.2+	0.7-	910912	033	0.1+	0.5+				

1991 RC4 = 1981 UJ18

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 Urata
 M 319.34507 (1950.0) P Q
 n 0.28846228 Peri. 212.30074 +0.15784434 -0.98678500
 a 2.2685239 Node 228.64516 +0.91599088 +0.16016846
 e 0.1014076 Incl. 2.79580 +0.36884397 +0.02452411
 P 3.42 H 13.6 G 0.15

Residuals in seconds of arc

811024	095	0.1+	0.7+	910912	033	0.5-	1.4+	910915	033	0.7+	0.0	
811028	095	0.1-	0.3-	910914	033	0.1-	1.0+	911013	887	0.9-	2.6-	Y
910911	675	0.1-	0.8-	910914	675	0.7+	0.4-	911013	887	1.0+	0.8+	Y
910911	675	0.7+	1.2-	910914	675	0.2+	0.7-					
910912	033	0.3-	1.3+	910915	033	1.2-	1.0+					

1991 RW4 = 1977 RF10 = 1987 YN3

Id. B. G. Marsden, D. W. E. Green

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P)

Marsden

M	63.19346		(1950.0)		P		Q
n	0.21334110	Peri.	307.50986	+0.62293571		+0.78226807	
a	2.7738772	Node	1.03356	-0.66004862		+0.52751570	
e	0.1557829	Incl.	8.88942	-0.41986536		+0.33133647	
P	4.62	H	14.0	G	0.15		

Residuals in seconds of arc

710324	675	0.3-	1.8-	770909	675	0.1+	1.5-	910914	033	0.3-	0.1+
710325	675	1.4-	0.7-	770910	675	0.8+	0.3+	910915	033	0.1+	0.5+
710325	675	0.9-	0.5-	871220	010(15.7+	0.4-		910915	033	0.9-	0.0
710326	675	1.1+	0.4+	871220	010(16.9+	0.8+		910916	675	0.8-	0.1-
710327	675	0.2+	0.2+	871220	010(20.4+	2.9+		910916	675 (0.4-	5.4-)	
710402	675	1.2-	1.3+	910910	675	0.9+	0.1+	911007	033	0.9+	0.2+
710416	675	0.4-	0.1-	910910	675	0.2+	0.3-	911007	033	0.3+	0.1-
710416	675	0.1+	0.0	910913	033	0.9-	0.9-	911008	033	0.7+	0.6+
710513	675 (3.0+	0.4+)		910913	033	0.9-	0.2-	911009	033	1.3+	0.0
710514	675	2.0+	0.2-	910913	033	0.7-	0.1+				

1991 RB5 = 1973 YS = 1980 TQ6

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Urata

M	19.54146		(1950.0)		P		Q
n	0.26988520	Peri.	23.13198	+0.98086062		-0.19350047	
a	2.3714647	Node	347.96447	+0.15840903		+0.85777064	
e	0.1329091	Incl.	5.96792	+0.11322116		+0.47622168	
P	3.65	H	13.8	G	0.15		

Residuals in seconds of arc

731220	095	0.0	0.2+	910913	033	0.1-	0.7+	911007	033	0.7+	1.5-	
801008	095	0.6+	0.5-	910914	033	0.2+	0.8+	911007	033	2.8-	0.3-	
801012	095	0.9-	1.0+	910915	033	1.0+	0.6+	911008	033	2.1-	0.0	
910910	675	0.4+	0.6-	910915	033	0.9-	0.6+	911009	033	1.1-	0.1+	
910910	675	0.5+	0.1-	910915	675	0.6-	0.0	911013	881	2.9+	0.5-	Y
910913	033	0.3+	0.3+	910915	675	0.8-	1.5-	911015	881	0.7+	0.8+	
910913	033	0.7-	0.1+	910916	675	0.3+	0.0	911015	881	1.3+	0.0	
910913	675	0.5-	0.8+	910916	675	1.3+	1.8-					
910913	675	0.2-	0.3-	910918	033	0.5+	1.3+					

1991 RQ7 = 1986 TN9

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Kaneda

M	41.64863		(1950.0)		P		Q
n	0.19146367	Peri.	6.94105	+0.66901312		+0.73038068	
a	2.9813419	Node	305.15882	-0.68972923		+0.54104818	
e	0.2815856	Incl.	9.69754	-0.27693869		+0.41690639	
P	5.15	H	12.6	G	0.15		

Residuals in seconds of arc

861002	095	1.9+	0.8+	910913	399	1.0-	0.3+	911018	399	0.6+	0.4-
861008	095	2.3-	0.4+	910915	399	0.1-	0.8+	911018	399	1.3+	2.0-
910913	399	0.0	0.4-	910930	399	0.0	0.6+				

1991 RX10 = 1975 LE1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Nakano

M	41.56609		(1950.0)			P		Q	
n	0.25943780	Peri.	345.05596	+0.96940469				+0.24545075	
a	2.4347099	Node	0.75419	-0.19633651				+0.78243960	
e	0.1021422	Incl.	12.78102	-0.14733134				+0.57231303	
P	3.80	H	14.2	G	0.15				

Residuals in seconds of arc

750601	413	0.0	0.0	910910	675	0.7-	0.3+	911003	402	2.1-	1.7-
750601	413	0.7+	0.4+	910910	675	1.2+	0.3-	911003	402	2.1-	0.4-
750603	413	0.5-	0.3-	910916	675	0.3+	0.5-	911003	402	3.4+	1.7+
750603	413	0.2-	0.0	910916	675	1.2-	0.5+	911003	402	1.1+	0.4+

1991 SY = 1981 FF1 = 1990 HR4

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	114.61369		(1950.0)			P		Q	
n	0.22420464	Peri.	207.69643	-0.56297647				+0.81876459	
a	2.6835292	Node	28.47526	-0.70783754				-0.40732761	
e	0.1277726	Incl.	13.66229	-0.42664213				-0.40460941	
P	4.40	H	13.0	G	0.15				

Residuals in seconds of arc

810329	095	0.3+	0.4+	910818	413	1.2-	0.8-	911005	413	0.7-	0.3+
900422	675	1.0+	1.0+	910930	413	1.5+	0.1-	911009	413	0.3+	0.2-
900422	675	1.0-	1.0-	911001	413	0.7-	0.9+	911012	413	0.6-	0.4-
910818	413	1.7+	0.1-	911002	413	0.6-	0.9+				

1991 SF1 = 1990 EN

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Nakano

M	67.18182		(1950.0)			P		Q	
n	0.27505475	Peri.	93.44778	+0.44836315				+0.89049875	
a	2.3416570	Node	203.67313	-0.87735987				+0.42189473	
e	0.2075287	Incl.	11.10658	-0.17090978				+0.17034322	
P	3.58	H	13.8	G	0.15				

Residuals in seconds of arc

900302	809	0.4-	0.0	910928	894	1.7+	0.1-	911004	033	0.3-	0.8+
900302	809	0.9-	0.6+	910928	894	0.4-	0.1-	911005	033	0.6-	0.1-
900302	809	0.4-	0.2-	911001	894	0.0	1.6+	911013	894	0.7+	0.2-
900304	809	1.1+	0.4+	911001	894	0.9-	1.8-	911013	894	0.3-	0.4-
900304	809	0.6+	0.4-	911002	894	0.6+	0.5-				
900304	809	0.0	0.4-	911004	033	0.6-	0.7+				

1991 SL1 = 1983 ES1 = 1990 HU

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Kaneda

M	74.98714		(1950.0)			P		Q	
n	0.28330749	Peri.	290.27869	+0.62740049				+0.77819493	
a	2.2959584	Node	18.66437	-0.67784272				+0.56345725	
e	0.0958174	Incl.	5.01066	-0.38327259				+0.27736001	
P	3.48	H	13.6	G	0.15				

Residuals in seconds of arc

830311	381	0.8+	1.2+	910910	675	0.5-	0.0	911005	400	0.3-	1.3+
830311	381	0.4+	1.1+	910910	675	0.0	0.3-	911005	400	0.4-	0.9-
900425	675	0.3+	1.4+	910916	675	0.1-	0.4-	911018	400	0.9+	2.1+
900425	675	0.7+	0.8+	910916	675	0.6-	0.2+	911018	400	0.2-	0.1+
900428	675	0.4+	0.7-	910930	400	0.9-	0.9+				
900428	675	0.5-	0.3+	910930	400	0.1-	0.8+				

Residuals in seconds of arc

890109 046	1.0+	0.5-	911002 896	0.8+	0.6+	911015 896	0.1-	0.8+
890109 046	1.3+	0.6-	911002 896	0.4-	1.3-	911015 896	0.1-	0.8+
890111 046	2.8-	1.3+	911013 896	0.1+	2.3-	911018 896	1.0-	0.5-
890111 046	0.5+	0.3-	911013 896	0.7+	1.8+			

1991 TK2

Epoch 1991 Oct. 11.0 ET = JDE 2448540.5

Williams

M	6.96541		(1950.0)		P		Q
n	0.20700336	Peri.	144.51582	+0.93177845		+0.35907674	
a	2.8302043	Node	194.72411	-0.36222466		+0.90982095	
e	0.4896489	Incl.	12.13092	-0.02412925		+0.20806185	
P	4.76	H	15.0	G	0.15		

From 6 observations 1991 Oct. 10-13.

1991 TF3

Epoch 1991 Sept. 21.0 ET = JDE 2448520.5

Marsden

M	13.51779		(1950.0)		P		Q
n	0.33788570	Peri.	303.23430	+0.63026574		+0.77596066	
a	2.0415319	Node	6.02963	-0.60670696		+0.51275190	
e	0.5310566	Incl.	14.04828	-0.48442931		+0.36738337	
P	2.92	H	19.0	G	0.15		

From 6 observations 1991 Oct. 2-12.

1991 VA

Epoch 1991 Oct. 31.0 ET = JDE 2448560.5

Marsden

M	21.67669		(1950.0)		P		Q
n	0.57559329	Peri.	313.18996	+0.98250638		+0.17312402	
a	1.4312832	Node	36.99680	-0.11979924		+0.86968764	
e	0.3536311	Incl.	6.54810	-0.14258105		+0.46224613	
P	1.71	H	27.0	G	0.15		

From 7 observations 1991 Nov. 1-2.

2557 P-L = 1990 FN1

Id. H. Kaneda (MPC 16438)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Kaneda

M	139.59035		(1950.0)		P		Q
n	0.28758526	Peri.	234.59794	-0.36825964		+0.92950690	
a	2.2731336	Node	13.83600	-0.82347366		-0.31609076	
e	0.1713699	Incl.	4.80790	-0.43159700		-0.19000935	
P	3.43	H	13.3	G	0.15		

Residuals in seconds of arc

600924 675	0.9-	0.0	601025 675	0.3+	0.3+	900430 808	(7.6-	0.5+)
600926 675	0.6-	0.6+	601026 675	0.2-	0.1+	900430 808	1.3-	0.1+
600928 675	0.2-	1.0+	900329 400	0.1-	0.7+	911018 399	1.0-	0.1+
600929 675	0.3+	1.3+	900329 400	0.0	0.7-	911018 399	2.6+	0.3-
601017 675	0.4-	0.9+	900330 400	1.8+	2.6+	911019 399	1.8-	0.3+
601022 675	0.5-	0.2+	900330 400	1.9+	2.2+	911019 399	0.3-	1.2+

4100 P-L = 1023 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	334.22834		(1950.0)		P		Q
n	0.23814745	Peri.	226.17160	-0.78521537		+0.61841097	
a	2.5777379	Node	351.84766	-0.48433714		-0.64525992	
e	0.1250711	Incl.	12.91607	-0.38581648		-0.44856159	
P	4.14	H	15.0	G	0.15		

Residuals in seconds of arc

600924	675	0.1-	0.2-	601017	675	0.0	1.6+	710325	675	0.9-	0.1+
600925	675	0.4+	0.4-	601022	675	0.3-	0.1-	710325	675	0.1-	1.2+
600926	675	0.7+	0.2-	601026	675	0.7+	0.4-	710326	675	0.3+	0.1+
600928	675	1.2-	0.6-	710324	675	1.1+	1.6-	710327	675	0.6-	0.1-

4614 P-L = 1991 FE4

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	132.14184		(1950.0)			P		Q	
n	0.20878947	Peri.	75.71810	-0.01774333				-0.99945157	
a	2.8140404	Node	15.38064	+0.87184515				-0.02915521	
e	0.0094628	Incl.	6.05114	+0.48946013				+0.01570144	
P	4.72	H	13.5	G	0.15				

Residuals in seconds of arc

600924	675	0.9-	0.8-	601022	675	0.0	0.7-	910323	809	0.7+	0.1-
600926	675	0.3-	0.2-	601025	675	0.1+	0.1+	910324	809	0.4-	0.2-
600927	675	0.5+	0.1+	601026	675	0.1-	0.8+	910324	809	0.5-	0.2+
600928	675	0.6+	1.2+	910323	809	0.3+	0.2-	910324	809	0.4-	0.5+
601017	675	0.2+	0.6-	910323	809	0.3+	0.2-				

4882 P-L = 2165 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	312.65924		(1950.0)			P		Q	
n	0.23491427	Peri.	189.12778	-0.87448532				+0.48139802	
a	2.6013360	Node	19.98550	-0.43331020				-0.72025836	
e	0.0508663	Incl.	10.01286	-0.21798556				-0.49948358	
P	4.20	H	15.0	G	0.15				

Residuals in seconds of arc

600926	675	0.0	0.5-	601022	675	0.3+	0.4-	710325	675	0.1-	0.5+
600927	675	0.3+	0.3+	601025	675	1.7-	0.5-	710325	675	0.1-	0.3+
600928	675	0.9+	0.4+	601026	675	0.6-	0.6-	710326	675	0.9+	0.2-
601017	675	0.7+	1.1+	710324	675	0.8-	0.7-				

6030 P-L = 3146 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	126.42456		(1950.0)			P		Q	
n	0.14090722	Peri.	224.31000	+0.69648370				-0.71757092	
a	3.6574682	Node	181.54694	+0.67333208				+0.65429261	
e	0.0116250	Incl.	3.30944	+0.24806121				+0.23873240	
P	6.99	H	12.5	G	0.15				

Residuals in seconds of arc

600924	675	0.1-	0.2-	710324	675	0.4-	0.7-	710416	675	0.6-	0.6+
600925	675	0.1-	1.2+	710325	675	0.9+	1.6-	710416	675	1.3-	0.2+
600926	675	0.6-	0.2+	710326	675	1.0-	1.3-	710513	675	1.2+	0.1+
600928	675	0.4+	0.6-	710326	675	0.6+	0.2+	710513	675	0.8-	1.3-
601017	675	0.1-	0.2-	710327	675	1.2+	0.7-	710514	675	0.7+	1.3+
601022	675	0.9+	0.5-	710402	675	1.2-	0.6+	710514	675	0.2-	0.1-
601025	675	0.0	1.9-	710416	675	0.2-	0.1-	710516	675	0.3+	1.7-
601026	675	0.8+	1.2-	710416	675	0.2-	1.3+				

6207 P-L = 1054 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	307.83722		(1950.0)			P		Q	
n	0.23872105	Peri.	5.02172	-0.38338698				+0.92272934	
a	2.5736070	Node	242.43950	-0.84888996				-0.36903438	
e	0.0651414	Incl.	2.57390	-0.36386848				-0.11128425	
P	4.13	H	15.0	G	0.15				

Residuals in seconds of arc

600924	675	0.1+	0.1-	601017	675	0.8+	0.1-	710325	675	0.0	0.9+
600925	675	0.6-	0.1+	601022	675	0.4+	0.2-	710325	675	0.5+	1.3+
600926	675	0.2-	0.0	601026	675	0.1-	0.4+	710326	675	0.3+	0.1+
600928	675	0.3-	0.3-	710324	675	0.3-	0.9-	710327	675	0.7-	1.7-

7643 P-L = 4118 T-2

Id. D. W. E. Green (MPC 14962)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	156.55439		(1950.0)			P		Q			
n	0.30362587	Peri.	287.15183			+0.22076652		-0.97459218			
a	2.1923516	Node	150.01356			+0.92112318		+0.19558516			
e	0.1045172	Incl.	4.34263			+0.32061539		+0.10916287			
P	3.25	H	15.0			G	0.15				

Residuals in seconds of arc

601017	675	0.8+	0.3-	730925	675	1.6-	0.4+	731005	675	0.2+	0.8+
601022	675	0.9+	0.9+	730925	675	0.9+	0.6+	910311	809	0.1-	0.9+
601025	675	0.1-	0.8+	730929	675	0.1-	0.6-	910311	809	0.4+	0.5+
601026	675	2.8-	2.0+	730929	675	0.4+	0.3-	910311	809	1.0+	0.1-
730919	675	1.0+	1.9-	730930	675	1.0+	0.3-	910313	809	0.6-	1.2-
730919	675	1.3+	2.4-	730930	675	1.1+	0.6-	910313	809	0.7-	1.1-
730920	675	1.6-	0.7-	731004	675	0.5-	0.1-	910313	809	0.7-	1.0-
730924	675	0.0	0.2+	731004	675	0.3-	1.1+				
730924	675	0.6-	0.6-	731005	675	0.4+	0.7-				

1089 T-1 = 1979 WK

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P)

Green

M	358.16013		(1950.0)			P		Q			
n	0.18228389	Peri.	130.79661			-0.45344413		-0.89043886			
a	3.0806195	Node	346.01562			+0.76166247		-0.36451022			
e	0.0550604	Incl.	9.24427			+0.46288087		-0.27249024			
P	5.41	H	13.5			G	0.15				

Residuals in seconds of arc

710324	675	0.6-	0.9-	710326	675	0.9+	0.5-	791122	675	0.1+	0.2+
710325	675	0.5+	0.6+	710327	675	0.2-	0.2+	791124	675	0.4-	0.3-
710325	675	0.5-	0.6+	710402	675	0.2-	0.0				

1104 T-1 = 1987 QO7

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P)

Green

M	7.25004		(1950.0)			P		Q			
n	0.27286131	Peri.	73.68962			+0.40558407		-0.91364656			
a	2.3541941	Node	352.21392			+0.74217015		+0.34667310			
e	0.1278249	Incl.	11.67470			+0.53355884		+0.21229161			
P	3.61	H	14.0			G	0.15				

Residuals in seconds of arc

710324	675	0.4-	0.8-	710326	675	1.7+	0.3+	870822	033	0.3+	0.0
710325	675	0.7-	0.6+	710327	675	0.3+	0.8-	870822	033	0.1-	0.7+
710325	675	0.6-	0.5+	710402	675	0.5-	0.1+	870823	033	0.7+	0.4+

1114 T-1 = 1976 SF5 = 1976 UZ5 = 1987 QE11 = 1991 RN2

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	57.30337		(1950.0)			P		Q			
n	0.26117446	Peri.	109.19495			+0.70230865		+0.71101992			
a	2.4239049	Node	205.52486			-0.67970625		+0.65522934			
e	0.1641386	Incl.	4.63650			-0.21157024		+0.25519637			
P	3.77	H	14.0			G	0.15				

Residuals in seconds of arc

710324	675	0.6-	1.3-	710325	675	1.1-	0.1+	710327	675	0.1+	1.6-
710325	675	0.6-	0.1+	710326	675	0.5+	1.6-	710402	675	0.6-	2.1-

760924	095	1.7-	1.3+	870831	095	1.4+	0.3+	910911	675	0.0	1.6-
761022	381	0.8+	0.5-	910908	511	0.7+	2.1+	910911	675	1.0+	3.0-
761022	381	0.8+	0.4-	910908	511	1.4+	1.5-	910914	675	0.3-	0.6-
870828	095	1.6-	0.1-	910910	511	0.8+	0.7-	910914	675	1.3-	1.0-

1171 T-1 = 1987 UB

Epoch	1991 Dec. 10.0	ET =	JDE 2448600.5	(J-P)	Green
M	69.63008		(1950.0)	P	Q
n	0.26615394	Peri.	137.61033	+0.91856150	+0.39304633
a	2.3935820	Node	199.36799	-0.38803122	+0.87640365
e	0.1842665	Incl.	7.26616	-0.07534282	+0.27826466
P	3.70	H	15.0	G	0.15

Residuals in seconds of arc

710324	675	0.1-	1.1-	710416	675	1.1-	2.0-	871018	881	2.2-	1.4+
710325	675	0.2+	0.9+	710416	675	1.1-	1.7-	871018	881	1.8-	0.4+
710325	675	0.4+	1.4-	710513	675	1.4-	1.6+	871023	095	1.4+	0.1-
710326	675	0.7+	0.6-	710514	675	2.3-	0.8+	871027	881	3.2-	1.5-
710327	675	0.6-	0.1-	870923	095	0.6+	2.3-	871027	881	1.6-	0.7+

1217 T-1 = 1989 SW11

Epoch	1991 Dec. 10.0	ET =	JDE 2448600.5	(J-P)	Green
M	141.52289		(1950.0)	P	Q
n	0.24275434	Peri.	90.37950	+0.41627330	-0.90905900
a	2.5450261	Node	334.99649	+0.81618731	+0.38237896
e	0.1155492	Incl.	2.45679	+0.40069292	+0.16552360
P	4.06	H	15.0	G	0.15

Residuals in seconds of arc

710324	675	2.9+	1.4-	710416	675	1.2+	1.7-	890930	809	0.2+	0.3-
710325	675	1.0-	2.3+	710416	675	1.5+	0.5-	891001	809	0.2-	0.7+
710325	675	1.5-	0.9+	710513	675	0.6-	0.4+	891001	809	0.1+	0.5+
710326	675	0.7-	0.3+	710514	675	0.3+	0.3-	891001	809	0.3+	0.3+
710327	675	1.8-	0.2-	890930	809	0.9-	0.2-				
710402	675	0.2+	1.0+	890930	809	0.3-	0.1-				

1220 T-1 = 1982 BH2

Epoch	1991 Dec. 10.0	ET =	JDE 2448600.5	(J-P)	Green
M	198.73538		(1950.0)	P	Q
n	0.26054041	Peri.	219.52377	-0.85156126	-0.52370320
a	2.4278407	Node	288.87939	+0.48717783	-0.77355761
e	0.1439496	Incl.	1.45643	+0.19365221	-0.35685233
P	3.78	H	14.5	G	0.15

Residuals in seconds of arc

710324	675	0.5+	0.0	710416	675	1.9+	2.7-	820119	046	0.2+	2.0-
710325	675	0.1+	0.9+	710416	675	0.3+	1.2-	820119	046	1.1-	0.5-
710325	675	1.0+	0.3+	820116	046	1.4-	2.1-	820119	095	1.4+	1.8-
710326	675	0.8+	0.7+	820116	046	2.6-	2.7-	820120	095	0.1+	3.1-
710327	675	0.2-	0.0	820118	046	0.8+	4.1-				
710402	675	0.6-	2.0+	820118	046	0.2+	0.7+				

1232 T-1 = 1978 JA2 = 1986 UP2 = 1988 GA

Epoch	1991 Dec. 10.0	ET =	JDE 2448600.5	(J-P)	Green
M	29.88518		(1950.0)	P	Q
n	0.28995549	Peri.	341.02718	-0.99047952	+0.13388945
a	2.2607334	Node	206.72954	-0.11529592	-0.93384784
e	0.1386227	Incl.	4.07967	-0.07521415	-0.33166523
P	3.40	H	13.5	G	0.15

Residuals in seconds of arc

710324	675	2.3-	0.8+	710325	675	1.8-	0.0	710327	675	0.3+	2.1-
710325	675	1.9-	0.1-	710326	675	0.5-	0.7+	710402	675	3.0-	1.1-

710416	675	1.2+	2.8-	780506	095	1.3-	2.9-	880408	675	1.6+	2.5+
710416	675	0.9+	2.1-	861027	010	0.2+	2.7-	880410	675	0.0	1.2+
710513	675	3.3+	1.3-	861027	010	0.3+	1.6-	880420	413	1.1+	1.7+
710514	675	2.8+	1.6-	861027	010	1.6+	1.7-	880420	413	0.1+	0.9+

1280 T-1 = 1979 SO10 = 1979 UJ4

Id. D. W. E. Green, N. S. Chernykh (d)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P)

Green

M 150.40067

(1950.0)

P

Q

n 0.17637527 Peri. 102.59223 +0.36169294 +0.93198592

a 3.1490420 Node 188.72747 -0.90508254 +0.34481910

e 0.0304149 Incl. 9.13619 -0.22361531 +0.11181247

P 5.59 H 12.5 G 0.15

Residuals in seconds of arc

710324	675	1.6-	0.6+	710327	675	0.2-	0.4-	710513	675	0.3-	0.5+
710324	675	0.5+	0.7+	710402	675	2.1-	0.7-	710514	675	1.5-	1.3+
710325	675	1.7-	0.0	710416	675	1.3+	1.3-	710516	675	0.6+	0.1+
710325	675	0.3-	0.2+	710416	675	1.2+	1.0+	790928	095	0.6-	2.2-
710325	675	2.1-	0.2+	710416	675	0.8+	0.9-	791016	095	0.6+	2.7+
710326	675	2.5+	1.4-	710416	675	1.7+	0.2+				

1287 T-1 = 1981 EQ22

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P)

Green

M 344.87977

(1950.0)

P

Q

n 0.29431022 Peri. 52.48252 -0.03854289 +0.99909766

a 2.2383776 Node 215.32111 -0.92621892 -0.04242071

e 0.0192707 Incl. 1.76838 -0.37501061 +0.00208727

P 3.35 H 16.0 G 0.15

Residuals in seconds of arc

710324	675	1.5-	1.2+	710416	675	0.3-	0.2-	810311	413	0.1+	1.4+
710324	675	2.0+	3.2-	710416	675	1.6-	1.9+	810311	413	0.8+	1.2+
710325	675	0.2-	0.4+	810212	413	0.0	1.6-	810316	413	2.3-	0.7+
710325	675	0.6+	0.0	810213	413	1.6-	0.0	810316	413	1.0-	0.2+
710325	675	0.2-	0.0	810302	413	1.4+	0.9-	810329	413	0.9+	1.6+
710326	675	2.5+	1.2-	810303	413	3.2-	0.3+	810408	413	2.7+	1.7-
710326	675	0.8-	0.4-	810303	413	3.7+	0.7-	810411	413	0.4+	0.7+
710326	675	0.9-	0.3-	810307	413	0.8-	1.1+	810411	413	2.0+	0.1-
710327	675	1.2+	1.8-	810307	413	1.2-	1.1+	810426	413	0.7+	0.8-
710402	675	1.9-	0.6+	810307	413	0.4+	0.4-	810502	413	1.8-	0.7+

2146 T-1 = 1977 JL = 1990 RZ6

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P)

Green

M 302.01766

(1950.0)

P

Q

n 0.17840537 Peri. 329.84210 -0.68217641 -0.73113720

a 3.1251076 Node 163.16684 +0.67660663 -0.63566266

e 0.1435717 Incl. 1.69924 +0.27719815 -0.24773246

P 5.52 H 13.0 G 0.15

Residuals in seconds of arc

710324	675	0.5-	0.2+	710514	675	0.2-	0.6+	900914	809	0.3+	0.8+
710325	675	0.2-	0.0	710516	675	0.7-	0.8-	900914	809	0.5+	0.8+
710325	675	1.8-	0.0	770515	095	0.4+	0.8+	900914	809	0.7+	0.8+
710326	675	0.8-	0.8-	900826	809	1.3+	1.4-	900915	809	0.1-	0.1-
710327	675	0.7-	1.1+	900826	809	1.0+	0.9-	900915	809	0.0	0.1-
710402	675	1.2+	0.8-	900826	809	1.9+	1.3-	900915	809	0.2+	0.2-
710416	675	0.6+	0.9-	900913	809	0.2-	0.0	900916	809	0.5-	0.3-
710416	675	1.1+	1.4-	900913	809	0.1+	0.3+	900916	809	0.5-	0.1-
710513	675	0.2-	1.1+	900913	809	0.5+	0.2+	900916	809	0.6-	0.2-

2246 T-1 = 1942 VL = 1953 PG1 = 1976 UE1 = 1982 DG2 = 1986 EL3 = 1991 SH
 Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P) Green
 M 31.07839 (1950.0) P Q
 n 0.26033457 Peri. 294.63234 +0.89396625 +0.44601990
 a 2.4291203 Node 38.91924 -0.38203072 +0.80922279
 e 0.2146875 Incl. 3.96876 -0.23425812 +0.38239342
 P 3.79 H 13.5 G 0.15

Residuals in seconds of arc

421105	062	1.1+	1.5-	710402	675	1.2+	0.1-	820220	046	(2.6-	11.3+)
421105	062	0.2-	0.8-	710416	675	1.0+	1.0-	820220	046	(0.3+	9.2+)
530809	094	(16.7-	2.3-)	710416	675	2.3+	0.6-	820221	046	2.3+	1.2+
710324	675	2.0+	3.5-	710513	675	0.4-	0.2-	820221	046	1.0-	2.4+
710325	675	2.1-	0.7+	710514	675	1.8-	1.0-	860312	809	0.4+	0.1-
710325	675	2.2-	0.6+	710516	675	0.3-	0.7+	910929	413	0.4-	0.3+
710326	675	1.2-	0.6+	761022	026	(12.0+	7.4+)	910930	413	0.4-	0.0
710327	675	1.0-	0.5-	761024	026	(11.6+	7.7+)	910930	413	0.4+	0.3+

2259 T-1 = 1985 VH4 = 1990 RV13 = 1990 SJ8

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P) Green
 M 17.56466 (1950.0) P Q
 n 0.18040938 Peri. 305.23075 +0.26207722 -0.96338743
 a 3.1019218 Node 129.47521 +0.90748317 +0.22607837
 e 0.1120051 Incl. 4.20280 +0.32831361 +0.14412921
 P 5.46 H 14.0 G 0.15

Residuals in seconds of arc

710324	675	1.6-	1.1-	710416	675	1.7+	0.1-	900922	809	0.0	0.3+
710325	675	0.0	0.6+	710513	675	0.2-	0.1-	900922	809	2.1+	0.9+
710325	675	0.6-	0.9-	710514	675	0.4-	0.5+	900922	809	1.1+	1.0-
710326	675	0.9-	1.1+	851111	095	0.1-	0.2+	900925	809	0.3+	1.0-
710327	675	2.6-	0.5-	900914	809	1.2-	0.7+	900925	809	0.0	1.4-
710402	675	3.6+	0.9-	900914	809	0.2+	1.5+	900925	809	1.3-	0.8-
710416	675	0.6+	0.5+	900914	809	0.9-	0.1-				

2312 T-1 = 3115 T-2

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 Williams
 M 229.18864 (1950.0) P Q
 n 0.20311254 Peri. 10.44816 +0.69227571 -0.72116148
 a 2.8662334 Node 35.74971 +0.65878965 +0.61682199
 e 0.0549326 Incl. 2.55901 +0.29453445 +0.31536763
 P 4.85 H 14.0 G 0.15

Residuals in seconds of arc

710324	675	2.8+	2.2-	710514	675	0.3-	1.7-	730929	675	0.1-	0.3-
710325	675	0.4-	1.0-	730919	675	0.2-	2.7+	730930	675	0.0	1.0-
710325	675	1.1-	0.4+	730919	675	1.1-	1.6+	730930	675	0.0	0.7-
710326	675	2.0-	0.8+	730920	675	1.0-	0.6+	731004	675	2.0+	0.3-
710327	675	1.3+	0.4-	730924	675	0.6-	0.0	731004	675	1.8+	0.9-
710402	675	0.2+	1.3-	730924	675	1.5-	0.6+	731005	675	1.3+	0.8-
710416	675	0.9-	0.5+	730925	675	0.2-	1.6-	731005	675	1.6+	2.2-
710416	675	1.6-	1.3+	730925	675	0.5-	1.2-				
710513	675	0.3+	0.3-	730929	675	0.1+	0.1-				

3058 T-1 = 1985 QU4

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 Williams
 M 320.07112 (1950.0) P Q
 n 0.30380568 Peri. 12.30675 +0.99721418 -0.07297414
 a 2.1914864 Node 351.83081 +0.05582688 +0.86752385
 e 0.1656205 Incl. 6.24143 +0.04946960 +0.49201336
 P 3.24 H 14.5 G 0.15

Residuals in seconds of arc

710324	675	2.4+	1.0-	710327	675	1.4-	1.5+	850819	095	0.8-	0.2+
710325	675	1.4+	0.7+	710416	675	0.2+	0.9+	850824	095	1.6+	0.6-
710326	675	1.4-	0.6-	710416	675	2.2-	0.8-				
710326	675	1.0+	0.7-	850817	095	0.8-	0.4+				

3105 T-1 = 1986 ED5

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P) Green

M	166.07607		(1950.0)		P		Q
n	0.26102928	Peri.	232.19867		-0.95311058		+0.30198660
a	2.4248084	Node	325.36584		-0.26566442		-0.86597674
e	0.1120309	Incl.	1.97672		-0.14492285		-0.39860806
P	3.78	H	14.5		G	0.15	

Residuals in seconds of arc

710324	675	0.9+	1.2+	710416	675	2.1-	1.0+	860305	809	1.7+	1.2-
710325	675	1.9+	0.4+	710416	675	2.5-	0.6+	860310	809	1.3-	0.2+
710326	675	0.7+	0.5-	710513	675	1.8-	1.7-	860310	809	1.0-	0.8+
710326	675	1.2+	0.5+	710514	675	1.8-	1.6-	860314	809	1.4-	0.1+
710327	675	0.8+	1.4+	860304	809	0.5+	0.8-	860314	809	0.7-	1.4+
710402	675	0.6-	1.4+	860304	809	1.0-	0.6-				
710402	675	2.1-	0.6+	860305	809	0.3+	1.6-				

3128 T-1 = 1966 TL = 1966 VS = 1979 VY1 = 1979 YC1 = 1982 TC = 1990 DL9

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Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P) Green

M	269.77664		(1950.0)		P		Q
n	0.30607040	Peri.	88.13560		+0.49351796		-0.86885302
a	2.1806671	Node	332.18382		+0.76082339		+0.45310207
e	0.1263997	Incl.	4.81541		+0.42141168		+0.19948171
P	3.22	H	13.5		G	0.15	

Residuals in seconds of arc

661013	095	1.5+	0.4-	710416	675	0.3-	1.8-	821011	688	1.3+	0.3-
661111	095	1.6-	0.9+	710416	675	0.0	1.2-	821011	688	1.2+	1.1-
710326	675	0.6-	0.3-	710513	675	0.9-	2.5-	821021	688	0.2-	0.7+
710326	675	0.1-	0.6+	710514	675	0.2+	0.5-	821021	688	1.0-	2.4-
710327	675	0.8-	0.9+	791114	095(11.4+	2.8+)		900221	808	0.2+	2.0-
710402	675	1.1+	2.0+	791217	095(14.9+	5.0+)		900221	808	0.3-	0.9+

3174 T-1 = 1987 SK5

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P) Green

M	100.33793		(1950.0)		P		Q
n	0.26733642	Peri.	314.48324		+0.70345508		+0.71073942
a	2.3865186	Node	0.22478		-0.59555659		+0.58995434
e	0.0735645	Incl.	9.59408		-0.38789599		+0.38314926
P	3.69	H	14.5		G	0.15	

Residuals in seconds of arc

710324	675	0.5+	2.0+	710402	675	0.9-	0.1+	870929	054	0.8-	0.4-
710325	675	0.2-	0.8-	710416	675	0.5+	1.0+	870930	054	1.0-	0.7-
710326	675	0.5-	0.4+	710416	675	1.3+	0.4+	870930	054	0.9-	0.7-
710326	675	0.1-	0.0	710513	675	0.6+	1.6-	871002	054	0.1-	0.4-
710327	675	0.5-	0.0	710514	675	1.6+	0.9-				

3196 T-1 = 1978 WE16

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P) Green

M	186.27703		(1950.0)		P		Q
n	0.21633899	Peri.	316.39489		-0.95025129		+0.31021468
a	2.7481918	Node	241.69684		-0.27629652		-0.88111258
e	0.1502016	Incl.	1.82863		-0.14381489		-0.35694185
P	4.56	H	13.5		G	0.15	

Residuals in seconds of arc

710324 675	0.0	0.1-	710327 675	0.0	0.0	781130 675	0.2-	0.4+
710325 675	1.8+	0.2-	710402 675	1.1-	0.3-	781201 675	0.3-	0.8+
710326 675	0.4+	0.4-	710416 675	0.3+	0.9-			
710326 675	0.3-	0.1-	710416 675	0.7-	0.6+			

3227 T-1 = 1959 TK = 1987 SM27 = 1987 UM8

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Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P)

Green

M 327.37876

(1950.0)

P

Q

n	0.21233672	Peri.	190.93092	+0.92977019	-0.36363628
a	2.7826175	Node	190.93121	+0.35645585	+0.92822358
e	0.1385692	Incl.	17.62307	+0.09201428	+0.07854705
P	4.64	H	12.5	G	0.15

Residuals in seconds of arc

591005 024	0.0	0.0	710327 675	1.0-	0.2+	710514 675	0.1+	0.1+
710324 675	1.5+	0.4-	710402 675	2.3-	0.1+	710516 675	0.9+	0.7+
710325 675	0.2-	0.7-	710416 675	0.5-	0.5+	870927 095	0.9+	3.3+
710326 675	0.7-	0.0	710416 675	0.7+	0.2+	871023 095	0.1+	1.1-
710326 675	0.9-	0.8-	710513 675	1.2+	0.4-			

3233 T-1 = 1980 FX2

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P)

Green

M 270.53184

(1950.0)

P

Q

n	0.21563624	Peri.	90.38913	-0.06479568	-0.99787066
a	2.7541595	Node	3.35342	+0.85725591	-0.05948876
e	0.1320584	Incl.	7.32753	+0.51079725	-0.02674371
P	4.57	H	13.5	G	0.15

Residuals in seconds of arc

710324 675	0.8+	0.8-	710416 675	0.4+	0.4-	800316 809	0.2-	0.1-
710325 675	0.1-	1.2-	710416 675	1.3+	0.3+	800316 809	0.2-	0.5+
710326 675	0.4-	0.3+	710513 675	1.1+	0.0	800317 809	0.4+	0.0
710326 675	1.3-	0.1-	710514 675	0.9+	0.2+	800317 809	0.5+	0.2-
710327 675	1.3-	0.4-	800316 809	0.2-	0.1+	800317 809	0.6+	0.1+
710402 675	1.2-	1.0+	800316 809	0.1+	0.1+	800317 809	0.2+	0.2-

3252 T-1 = 1990 TX1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P)

Green

M 184.32233

(1950.0)

P

Q

n	0.27496641	Peri.	40.11769	+0.45316631	+0.89045615
a	2.3421632	Node	256.86609	-0.82838189	+0.40343312
e	0.1199954	Incl.	2.44656	-0.32927759	+0.21054587
P	3.58	H	15.5	G	0.15

Residuals in seconds of arc

710326 675	0.2+	0.8-	710416 675	1.0+	0.3+	901011 033	0.5+	0.4+
710326 675	0.3-	0.1+	710416 675	0.9-	0.0	901012 033	0.9-	0.1-
710327 675	0.1-	1.7+	901010 033	0.2+	0.2-	901013 033	0.7+	1.1-
710402 675	0.1+	1.2-	901011 033	0.2-	0.2+	901014 033	0.2-	0.7+

3271 T-1 = 1982 VG7 = 1990 MY1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P)

Green

M 134.74562

(1950.0)

P

Q

n	0.21942384	Peri.	288.60278	+0.08795003	+0.99609004
a	2.7223735	Node	346.43484	-0.89996391	+0.07587143
e	0.0258928	Incl.	2.03579	-0.42700089	+0.04525658
P	4.49	H	14.0	G	0.15

Residuals in seconds of arc

710324 675	0.7-	0.7+	710326 675	0.4+	1.5-	710327 675	0.9-	0.1-
710325 675	2.3+	0.3-	710326 675	0.4+	1.0-	710402 675	1.7-	1.2+

710416	675	0.7+	0.8-	710514	675	0.8-	0.2+	900628	808	0.8+	0.9-
710416	675	0.1+	0.3+	821109	095	0.2-	0.5-	900628	808	0.6-	0.2+
710514	675	1.1-	0.4+	821114	095	0.7+	0.7-				

3289 T-1 = 1978 NA2 = 1988 VB2

Epoch	1991 Dec. 10.0	ET =	JDE 2448600.5	(J-P)	Green
M	39.88802		(1950.0)	P	Q
n	0.31003899	Peri.	130.38290	+0.94303970	+0.33090742
a	2.1620183	Node	210.33910	-0.32208155	+0.88231445
e	0.1313783	Incl.	3.89354	-0.08330431	+0.33469611
P	3.18	H	14.5	G	0.15

Residuals in seconds of arc

710324	675	0.1-	2.1+	710514	675	1.8-	1.2-	881104	046	2.0-	1.1-
710325	675	1.3+	1.0+	710514	675	0.9-	0.9-	881105	046	3.2-	0.4-
710326	675	1.5-	0.3+	710514	675	2.0-	0.4-	881105	046	0.3+	0.6+
710326	675	0.7-	0.0	710516	675	0.7-	0.4-	881108	399	1.3+	3.4+
710327	675	0.7+	0.2-	780706	095	0.5+	1.5-	881108	399	1.6-	1.2+
710402	675	1.2-	0.1-	881102	399	0.3-	0.1-	881108	399	0.2+	2.5-
710416	675	2.7+	1.7-	881102	399	0.1+	0.1+	881111	399	2.4+	0.8-
710416	675	1.7+	1.8-	881102	399	0.5-	1.1-	881111	399	2.9+	0.5+
710513	675	0.5-	1.9-	881104	046	1.0-	1.3-	881111	399	1.9+	1.1-

3300 T-1 = 1978 QW1

Epoch	1991 Dec. 10.0	ET =	JDE 2448600.5	(J-P)	Green
M	89.18514		(1950.0)	P	Q
n	0.31115089	Peri.	344.60812	+0.66776630	+0.74404678
a	2.1568646	Node	327.27766	-0.67855021	+0.59632103
e	0.1940156	Incl.	2.32900	-0.30603560	+0.30132312
P	3.17	H	15.5	G	0.15

Residuals in seconds of arc

710324	675	1.6-	1.8+	710416	675	0.7+	0.7-	780826	414	0.6+	0.3-
710325	675	1.7+	0.5+	710416	675	0.0	0.7-	780826	414	0.4-	0.8-
710326	675	0.8-	0.2-	780823	414	0.9+	1.6-	780831	095	0.7-	1.6+
710326	675	0.1+	0.7+	780823	414	1.3-	0.2-	780905	095	2.6-	1.8+
710327	675	0.4-	1.5+	780824	414	0.2+	0.7-				
710402	675	0.6+	1.2-	780824	414	0.3-	0.2-				

4050 T-1 = 1975 RF1 = 1977 ES2

Epoch	1991 Dec. 10.0	ET =	JDE 2448600.5	(J-P)	Green
M	45.45153		(1950.0)	P	Q
n	0.31181857	Peri.	203.21229	+0.96565765	+0.25674985
a	2.1537846	Node	141.84045	-0.22712078	+0.90857786
e	0.1938866	Incl.	3.69427	-0.12618028	+0.32949323
P	3.16	H	15.0	G	0.15

Residuals in seconds of arc

710324	675	0.4+	1.1-	710327	675	2.7-	0.6-	750903	095	0.8+	1.5+
710326	675	1.1-	0.3+	710402	675	1.2+	0.5+	750906	095	2.8+	2.6+
710326	675	0.8+	0.1-	710416	675	2.6+	0.3-	770312	381	1.3+	0.6-
710327	675	(4.8+	4.0-)	710416	675	0.9+	0.3-	770312	381	0.2+	0.8-

4098 T-1 = 1969 TH2 = 1978 ES5 = 1989 GB7

Epoch	1991 Dec. 10.0	ET =	JDE 2448600.5	(J-P)	Green
M	45.81281		(1950.0)	P	Q
n	0.27526662	Peri.	21.82888	+0.61789667	-0.78321445
a	2.3404600	Node	30.13787	+0.69944261	+0.50738124
e	0.0894410	Incl.	7.91389	+0.35914306	+0.35935971
P	3.58	H	15.0	G	0.15

Residuals in seconds of arc

691008	095	1.4+	3.4-	710402	675	1.6+	0.5+	780306	095	0.0	0.7+
710324	675	2.4+	1.3-	710416	675	1.2+	2.0-	890405	809	3.6-	1.2-
710326	675	0.5-	0.9+	710416	675	0.8+	0.7-	890405	809	0.2+	1.8-
710326	675	0.2+	1.8+	710513	675	1.2-	0.4+	890405	809	0.6+	2.4-
710327	675	2.0-	0.4-	710514	675	0.8-	1.8+				

4121 T-1 = 1977 KP1 = 1978 RT8 = 1985 YX1 = 1990 WA3

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Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	246.58760		(1950.0)			P		Williams		Q	
n	0.17985723	Peri.	155.25301			-0.65511856		+0.75507177			
a	3.1082608	Node	73.80701			-0.69761196		-0.59122361			
e	0.1267747	Incl.	1.56318			-0.29009864		-0.28341006			
P	5.48	H	12.5			G	0.15				

Residuals in seconds of arc

710324	675	1.7+	1.2-	710416	675	0.6-	2.1-	780902	809	0.2+	0.5+
710326	675	0.0	0.8-	710513	675	1.0-	2.7+	780902	809	0.1-	0.8-
710326	675	0.0	1.2-	710514	675	0.3-	1.3+	851217	010	(3.4+	3.8-)
710327	675	0.0	0.6-	710516	675	0.9+	2.1+	851217	010	(5.1+	2.6-)
710402	675	(5.4+	3.1-)	770518	675	0.1+	0.1+	851219	010	(1.7-	8.0+)
710402	675	0.7-	0.3+	770519	675	0.1+	0.4+	901117	372	2.4+	0.4-
710416	675	(4.5+	3.4-)	780902	809	0.3+	0.7+	901117	372	0.2+	0.9+
710416	675	0.6-	0.7-	780902	809	0.0	0.5-	901121	372	1.9-	0.6-
710416	675	(4.2+	1.5-)	780902	809	0.3+	1.3-	901121	372	1.0-	0.7+

4192 T-1 = 1983 TU2 = 1989 EH7 = 1990 SW16

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5 (J-P)

M	127.80642		(1950.0)			P		Green		Q	
n	0.27357744	Peri.	277.38794			+0.90235201		+0.42770424			
a	2.3500840	Node	57.30382			-0.36626754		+0.82602078			
e	0.1265861	Incl.	3.62428			-0.22717601		+0.36709502			
P	3.60	H	15.0			G	0.15				

Residuals in seconds of arc

710324	675	0.2+	1.7-	710416	675	2.0+	1.7-	900914	675	0.9+	3.7-
710326	675	1.2-	0.5-	710416	675	0.2-	0.0	900917	675	0.8-	0.8+
710326	675	0.7-	0.4-	831004	688	1.5+	1.3-	900917	675	0.5-	0.5-
710327	675	1.9-	1.1-	831004	688	0.8+	3.4-	900920	675	1.0-	0.1-
710402	675	1.7-	1.3+	890306	033	0.5-	1.1-	900920	675	1.0-	0.1-
710416	675	(7.6+	0.4-)	890306	033	0.6-	1.3-				
710416	675	0.3+	0.8-	900914	675	0.4+	1.8-				

4206 T-1 = 1979 OH6

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	244.50600		(1950.0)			P		Williams		Q	
n	0.26945869	Peri.	36.91296			-0.99807976		-0.05366798			
a	2.3739665	Node	139.97647			+0.03877862		-0.93073461			
e	0.1753805	Incl.	2.75653			+0.04830131		-0.36173587			
P	3.66	H	15.0			G	0.15				

Residuals in seconds of arc

710324	675	0.8+	1.0+	710402	675	0.5-	0.2-	710514	675	0.2+	0.0
710326	675	0.1+	0.7+	710416	675	0.9+	0.8-	710516	675	0.0	0.2-
710326	675	0.2+	0.3+	710416	675	0.7+	0.8-	790724	675	0.2-	0.5-
710327	675	1.7-	0.6-	710513	675	0.6-	0.6+	790725	675	0.1+	0.7+

4255 T-1 = 1979 ML8

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	192.11484		(1950.0)		P		Q
n	0.26582536	Peri.	48.47674		-0.85347950		+0.52086265
a	2.3955493	Node	162.89259		-0.49331919		-0.79727608
e	0.1553493	Incl.	3.23077		-0.16795510		-0.30504583
P	3.71	H	16.0	G	0.15		

Residuals in seconds of arc

710324	675	0.2-	0.8+	710402	675	0.7+	0.8+	790625	413	0.1-	1.2-
710326	675	1.3-	0.8-	710416	675	1.0+	0.4-	790629	413	0.3-	0.2-
710326	675	0.7-	0.1-	710416	675	1.4-	0.1+				
710327	675	1.9+	0.5-	790624	413	0.4+	1.4+				

4283 T-1 = 1986 TW3

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	141.96991		(1950.0)		P		Q
n	0.29120267	Peri.	46.30247		+0.27907273		-0.95819639
a	2.2542694	Node	27.67816		+0.83731080		+0.21065603
e	0.1080171	Incl.	7.80393		+0.47013725		+0.19360711
P	3.38	H	14.0	G	0.15		

Residuals in seconds of arc

710324	675	0.6+	0.2-	710416	675	0.6-	1.3-	861009	046	(4.2-	4.2-)
710326	675	1.3-	0.3+	710514	675	0.7-	0.8-	861009	046	(4.4-	1.5-)
710326	675	0.8-	0.3+	861004	046	1.2+	0.2-	861010	046	(6.2-	0.7-)
710327	675	1.5-	0.8-	861005	046	0.5+	1.1-	861010	046	0.3-	1.2-
710402	675	2.5+	1.2+	861005	046	0.8-	0.8+				
710416	675	1.2+	0.1+	861005	046	0.0	0.8+				

4298 T-1 = 1982 FW = 1990 OY2

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	151.32091		(1950.0)		P		Q
n	0.26942247	Peri.	155.00896		+0.34338296		+0.93835049
a	2.3741793	Node	135.04520		-0.87085171		+0.33399093
e	0.1644160	Incl.	3.23169		-0.35171783		+0.08915385
P	3.66	H	15.5	G	0.15		

Residuals in seconds of arc

710324	675	0.7+	0.5-	710416	675	(3.9+	0.3+)	900815	372	(1.0+	3.6-)
710326	675	1.1-	0.3-	820323	801	0.7+	1.9+	900815	372	1.0-	1.8-
710326	675	1.4-	0.9-	900730	372	(5.3-	2.5-)	900818	372	1.1-	1.6-
710327	675	1.7-	1.0-	900730	372	0.7-	1.6-	900818	372	1.9+	1.2+
710402	675	1.5+	0.8+	900731	372	0.9+	1.3+	900820	372	(3.9+	1.7+)
710416	675	1.2+	0.3-	900731	372	0.1+	2.2+				

4321 T-1 = 1986 TG7

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	354.37128		(1950.0)		P		Q
n	0.23225617	Peri.	76.09793		-0.70991822		-0.70324673
a	2.6211460	Node	59.19753		+0.62773823		-0.65642714
e	0.1521492	Incl.	2.54979		+0.31931308		-0.27303378
P	4.24	H	13.5	G	0.15		

Residuals in seconds of arc

710324	675	1.1+	0.0	710402	675	1.3-	1.5+	861007	675	0.5+	0.1+
710326	675	0.4+	0.8-	710416	675	0.3-	0.2+	861008	675	1.9-	0.3-
710326	675	0.4-	0.6-	710416	675	1.0+	0.2+	861008	675	0.6+	0.9+
710327	675	0.4-	0.4-	861007	675	0.8+	0.4-				

4408 T-1 = 1990 TD1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	129.62135		(1950.0)		P		Q
n	0.27935071	Peri.	310.33691	+0.98393622			-0.16472615
a	2.3175878	Node	59.24818	+0.17819599			+0.88303323
e	0.1963720	Incl.	4.59250	+0.01075668			+0.43945149
P	3.53	H	14.0	G	0.15		

Residuals in seconds of arc

710324	675	2.8+	1.9-	901015	400	0.2-	0.1+	901110	385	1.3-	0.7+
710326	675	0.2+	0.2+	901015	400	2.1-	0.7+	901111	400	1.4-	2.2-
710326	675	0.0	0.3+	901017	400	(7.2+	1.6-)	901111	400	(4.2+	2.9-)
710327	675	1.8-	1.8-	901017	400	2.1+	1.7-	901122	385	1.0+	1.0-
710402	675	1.0-	2.7+	901026	385	0.9+	2.0+	901122	385	0.8+	0.7+
710416	675	0.4+	0.4+	901026	385	0.0	0.2-				
710416	675	0.3-	0.6+	901110	385	0.2+	1.3+				

1053 T-2 = 1982 YK4 = 1990 RQ1

Id. E. Bowell (MPC 17652), G. V. Williams

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	64.56105		(1950.0)		P		Q
n	0.23133124	Peri.	223.74061	+0.61023230			-0.79221876
a	2.6281281	Node	188.65408	+0.73121423			+0.56442469
e	0.1965666	Incl.	0.93171	+0.30486438			+0.23197889
P	4.26	H	14.0	G	0.15		

Residuals in seconds of arc

710324	675	(3.6+	2.7-)	730929	675	0.0	0.2+	900922	809	0.3-	0.1-
710324	675	1.5+	0.5+	730930	675	0.3-	1.1+	900922	095	0.8-	2.8-
710325	675	1.5-	1.9-	730930	675	0.0	0.6+	900922	095	0.6+	1.3-
710325	675	0.8-	1.5-	731004	675	0.2-	0.1-	900923	809	1.5-	0.1-
710325	675	0.6-	0.0	731004	675	0.5+	0.3-	900923	809	1.1-	0.0
710326	675	1.1+	1.7-	731005	675	0.0	2.9+	900923	809	0.5-	0.1+
710327	675	0.4-	0.0	731005	675	1.0+	1.1+	900924	809	0.2-	0.2-
710402	675	1.1-	0.1+	821223	095	0.0	1.4-	900924	809	0.2+	0.1-
730919	675	1.1+	1.2-	900914	675	2.3+	1.1-	900924	809	0.7+	0.3-
730919	675	0.5-	0.7-	900914	675	0.6+	2.3-	900929	809	0.4+	0.5+
730920	675	0.6+	0.2-	900918	675	0.9+	1.1-	900929	809	0.4+	0.8+
730924	675	0.5-	0.3-	900918	675	2.3+	1.7-	900929	809	0.5+	0.8+
730924	675	0.3-	0.3+	900918	095	(1.1+	3.7-)	901022	675	0.3+	0.3+
730925	675	2.0-	0.0	900918	095	(3.8+	1.8+)	901022	675	0.5+	0.1+
730925	675	0.5-	0.7-	900922	809	1.2-	0.5+				
730929	675	0.6-	1.1+	900922	809	0.8-	0.3+				

1079 T-2 = 1991 RQ8 = 1991 RX8

Id. E. Bowell (k), G. V. Williams (d)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	54.41432		(1950.0)		P		Q
n	0.21976797	Peri.	311.18482	+0.73951759			+0.67312702
a	2.7195254	Node	6.50940	-0.60735186			+0.66961030
e	0.1322048	Incl.	1.87471	-0.29023690			+0.31388224
P	4.48	H	13.5	G	0.15		

Residuals in seconds of arc

730919	675	0.9+	0.3-	730929	675	1.1+	0.1-	731005	675	0.6+	0.5+
730919	675	0.5-	1.5+	730929	675	0.2-	0.4-	910911	675	0.2+	0.5-
730920	675	1.0+	0.0	730930	675	0.7-	0.4-	910911	675	0.7-	0.4-
730924	675	1.0-	0.8-	730930	675	0.2-	0.4+	910913	400	0.8+	0.4+
730924	675	0.6-	0.8-	731004	675	1.0+	0.5-	910913	400	0.4+	1.4+
730925	675	0.3-	0.8-	731004	675	0.6+	0.2+	910914	675	0.5-	0.2-
730925	675	0.8-	0.5+	731005	675	0.7-	0.2+	910914	675	0.5-	0.0

1170 T-2 = 1026 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	53.58572		(1950.0)		P		Williams	Q
n	0.23385549	Peri.	254.10138		+0.16272817		-0.98640118	
a	2.6091818	Node	186.66271		+0.96413282		+0.16393673	
e	0.1428362	Incl.	11.46940		+0.20968416		+0.01172467	
P	4.21	H	15.0	G	0.15			

Residuals in seconds of arc

710324	675	0.1+	0.1+	730920	675	0.4-	0.7+	730930	675	0.4+	1.1+
710325	675	0.5+	0.2-	730924	675	0.4+	0.2+	730930	675	1.2-	1.1-
710325	675	0.2-	0.2+	730924	675	1.6+	0.1-	731004	675	0.5-	1.5-
710326	675	1.6-	0.2+	730925	675	0.2+	0.9-	731004	675	0.3-	1.2-
710327	675	1.1+	0.3-	730925	675	0.5+	0.8+	731005	675	0.4+	0.8+
730919	675	0.9-	0.6-	730929	675	0.2+	1.4+	731005	675	0.1-	0.7+
730919	675	0.4-	0.6-	730929	675	0.0	0.2+				

2252 T-2 = 2061 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	337.26927		(1950.0)		P		Williams	Q
n	0.21418865	Peri.	16.32754		+0.95527547		-0.29570762	
a	2.7665493	Node	0.88329		+0.25086110		+0.80604201	
e	0.1651114	Incl.	8.97149		+0.15658060		+0.51269219	
P	4.60	H	14.0	G	0.15			

Residuals in seconds of arc

710324	675	0.7+	2.0-	730920	675	2.0+	1.4+	730930	675	0.2-	1.0-
710325	675	1.1-	0.5+	730924	675	1.9-	0.8+	730930	675	0.4+	1.0-
710325	675	1.2+	0.6+	730924	675	1.9-	0.8+	731004	675	1.2+	0.5-
710326	675	0.3-	0.6+	730925	675	0.7+	2.0-	731004	675	1.4+	0.2-
710327	675	0.5-	0.3+	730925	675	0.2+	1.8-	731005	675	0.6-	1.4+
730919	675	0.4+	0.0	730929	675	0.1-	0.5+	731005	675	1.2-	0.3+
730919	675	0.6-	0.1-	730929	675	0.3+	1.7+				

2908 T-2 = 1977 UH5 = 1991 LO4

Id. A. Lowe (k), G. V. Williams

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	111.08692		(1950.0)		P		Williams	Q
n	0.25862367	Peri.	345.16132		-0.99962681		-0.00902393	
a	2.4398167	Node	194.39589		+0.01643030		-0.95266484	
e	0.0831472	Incl.	5.95270		-0.02182381		-0.30388857	
P	3.81	H	14.0	G	0.15			

Residuals in seconds of arc

730930	675	0.7-	1.3+	771018	675	0.4+	0.3+	910608	809	0.2+	0.3-
730930	675	1.8-	0.2+	771019	675	0.4-	0.0	910608	809	0.6-	0.3+
731004	675	0.5-	0.5-	910606	809	1.5+	0.0	910608	809	(0.3-	3.7-)
731004	675	1.0-	1.4+	910606	809	0.4+	0.3-	910608	809	(1.0-	4.4-)
731005	675	2.8+	1.4-	910606	809	0.3-	0.3-	910608	809	(0.2-	4.2-)
731005	675	1.3+	1.2-	910608	809	1.1-	0.5+				

3178 T-2 = 2150 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M	246.16160		(1950.0)		P		Williams	Q
n	0.20156419	Peri.	347.09619		+0.95835895		-0.28427536	
a	2.8808931	Node	29.46295		+0.26664504		+0.85681612	
e	0.0706355	Incl.	3.16108		+0.10221815		+0.43017862	
P	4.89	H	14.0	G	0.15			

Residuals in seconds of arc

710324	675	1.5-	1.2-	710326	675	0.2+	0.9+	730919	675	0.4-	0.1-
710325	675	0.3+	0.0	710327	675	0.8-	2.1+	730919	675	1.8+	2.2+
710325	675	0.0	0.4+	710402	675	1.9+	2.1-	730919	675	1.1+	1.3-

730919	675	0.2+	0.7+	730925	675	2.4-	1.7-	730930	675	0.0	0.3-
730920	675	2.0-	0.8-	730925	675	0.0	1.1+	731004	675	0.2-	0.5-
730920	675	1.9+	0.2-	730925	675	0.3-	0.6-	731004	675	0.2+	0.2-
730924	675	0.0	0.6-	730925	675	0.8-	1.0+	731004	675	1.1-	1.2-
730924	675	0.5-	0.7+	730929	675	0.2+	0.3+	731004	675	0.7+	0.9+
730924	675	1.0+	1.4-	730929	675	0.2-	0.3+	731005	675	0.9+	0.6+
730924	675	0.2+	1.4+	730930	675	0.0	0.1-	731005	675	0.5-	0.4-

3181 T-2 = 2115 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M 233.58288

(1950.0)

P

Williams

Q

n	0.20258390	Peri.	301.36215	+0.80551807	-0.58966590
a	2.8712175	Node	94.83487	+0.56167335	+0.72825369
e	0.0337345	Incl.	3.37186	+0.18884832	+0.34920007
P	4.87	H	14.0	G	0.15

Residuals in seconds of arc

710324	675	0.1+	0.2-	730924	675	0.6-	1.7-	730930	675	1.3-	0.6-
710325	675	1.0-	0.6+	730924	675	0.4-	1.6-	731004	675	0.6+	0.6+
710325	675	0.9+	0.8-	730925	675	0.5+	1.1-	731004	675	0.7+	0.9+
710326	675	0.0	0.4+	730925	675	0.7-	1.3-	731005	675	0.6+	0.4+
730919	675	1.0+	1.9+	730929	675	0.3-	1.0+	731005	675	0.7+	0.5+
730919	675	0.8+	1.5+	730929	675	0.5-	0.4-				
730920	675	0.1+	0.4+	730930	675	1.3-	0.5-				

1054 T-3 = 2158 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M 211.80293

(1950.0)

P

Williams

Q

n	0.37789246	Peri.	312.68877	+0.71661188	+0.69720504
a	1.8947732	Node	3.28898	-0.49992655	+0.53274553
e	0.0698141	Incl.	19.65922	-0.48635466	+0.47967420
P	2.61	H	17.0	G	0.15

Residuals in seconds of arc

710325	675	0.4-	1.0-	771011	675	0.1+	0.9+	771017	675	1.8+	0.4+
710325	675	(4.2-	1.5-)	771012	675	0.0	0.2-	771017	675	2.1+	1.5+
710326	675	0.5+	0.4-	771012	675	0.7-	1.3+	771022	675	0.5+	0.9-
710327	675	0.1-	1.4+	771016	675	0.3-	2.1-	771022	675	2.4-	1.3+
771011	675	0.0	0.1-	771016	675	1.0-	2.0-				

2272 T-3 = 1991 UO

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M 344.83789

(1950.0)

P

Williams

Q

n	0.28268078	Peri.	66.33759	+0.37152879	-0.92841750
a	2.2993506	Node	1.85885	+0.81851221	+0.32617048
e	0.1481179	Incl.	4.78065	+0.43818274	+0.17791506
P	3.49	H	14.5	G	0.15

Residuals in seconds of arc

771007	675	1.2-	0.5+	771016	675	0.4+	1.7-	771022	675	0.1-	0.0
771011	675	0.3-	0.3+	771017	675	0.6-	1.1+	911018	399	2.0+	0.3-
771011	675	0.3-	0.3+	771017	675	0.3+	2.0+	911018	399	0.8-	2.5-
771012	675	0.5+	0.7-	771021	675	0.5+	0.1-	911019	399	0.7-	1.2+
771012	675	0.0	0.4+	771021	675	0.2-	1.1-	911019	399	0.6-	1.8+
771016	675	1.5+	1.9-	771022	675	0.6-	0.7+				

2288 T-3 = 1991 RU10

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Bowell

M	29.45073		(1950.0)		P		Q		
n	0.28140716	Peri.	7.03912			+0.99950058		+0.02861406	
a	2.3062831	Node	351.28736			-0.03154576		+0.87855555	
e	0.1981145	Incl.	5.07871			-0.00185635		+0.47678232	
P	3.50	H	15.2	G	0.15				

Residuals in seconds of arc

771007	675	0.0	0.0	771016	675	0.5+	1.2-	771022	675	0.3+	0.5+
771011	675	0.5+	0.4-	771017	675	0.2+	1.3+	910910	675	0.0	0.8+
771011	675	0.8-	0.7+	771017	675	1.0-	0.5+	910910	675	0.3+	0.0
771012	675	0.2+	0.6-	771021	675	0.2+	0.1+	910916	675	0.3-	0.8-
771012	675	0.1+	0.9-	771021	675	0.4-	0.3+	910916	675	(1.1+	6.2-)
771016	675	(2.0+	1.9-)	771022	675	0.1+	0.3-				

3019 T-3 = 1986 RT

Id. T. Kobayashi (MPC 12801)

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Bowell

M	54.86556		(1950.0)		P		Q		
n	0.21061780	Peri.	129.36543			+0.76562406		+0.64267380	
a	2.7977313	Node	190.74412			-0.62678824		+0.73544002	
e	0.1579215	Incl.	8.67257			-0.14476293		+0.21470529	
P	4.68	H	13.3	G	0.15				

Residuals in seconds of arc

771016	675	0.1-	0.8+	771022	675	0.6-	0.3-	860907	071	0.4-	0.8+
771016	675	0.0	1.1+	771022	675	0.3-	1.1-	860907	071	(2.9+	2.1+)
771017	675	(1.6-	2.6+)	860829	095	1.6+	0.4-	910910	675	1.0-	0.3+
771017	675	(2.2-	2.2+)	860905	071	1.3-	0.1-	910910	675	0.8+	0.0
771021	675	0.1-	0.0	860905	071	(2.4-	1.3-)	910916	675	0.3+	0.6-
771021	675	0.9+	0.4+	860906	095	(1.3+	2.8+)	910916	675	0.2+	0.9-

3395 T-3 = 1980 PO3 = 1988 YO

Id. E. Bowell (MPC 18134), G. V. Williams

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	221.55792		(1950.0)		P		Q		
n	0.27902338	Peri.	344.96852			-0.95828303		-0.28581206	
a	2.3194000	Node	178.41875			+0.26993732		-0.90759600	
e	0.0499768	Incl.	4.68999			+0.09395460		-0.30754018	
P	3.53	H	14.5	G	0.15				

Residuals in seconds of arc

771007	675	0.9-	1.8+	771017	675	1.2-	0.3-	800805	675	0.2-	0.0
771011	675	(3.7-	1.9+)	771017	675	0.5-	0.3+	881227	372	(5.4-	1.7+)
771011	675	(2.5-	1.5+)	771021	675	0.7+	0.9+	881227	372	0.1-	1.0+
771012	675	0.8+	0.9-	771021	675	1.5-	0.5+	910910	675	0.7+	1.0+
771012	675	1.4+	0.6-	771022	675	2.0+	0.5-	910910	675	1.2-	0.6+
771016	675	0.6-	1.8-	771022	675	1.0+	1.1-				
771016	675	0.5-	0.4-	800803	675	0.2+	0.1+				

3424 T-3 = 2073 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

Williams

M	163.15160		(1950.0)		P		Q		
n	0.23079819	Peri.	174.78251			+0.83391668		+0.55156393	
a	2.6321731	Node	151.71710			-0.50776287		+0.78025974	
e	0.0303759	Incl.	2.29561			-0.21624025		+0.29491009	
P	4.27	H	15.0	G	0.15				

Residuals in seconds of arc

710324	675	0.5-	0.0	710326	675	0.2+	1.0-	771011	675	3.0-	1.8+
710325	675	0.2-	1.0+	710327	675	0.3+	0.0	771011	675	0.7-	1.0+
710325	675	0.2+	0.2+	771007	675	0.8+	0.3-	771012	675	2.0+	0.6-

771016 675 0.4- 1.2-	771017 675 0.4+ 0.4-	771022 675 (4.8+ 1.0-)
771016 675 1.3+ 0.5-	771021 675 0.6- 0.0	
771017 675 0.1+ 0.6-	771021 675 0.1+ 1.0+	

3854 T-3 = 1991 FH3

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M 66.92371	(1950.0)	P	Williams	Q
n 0.17944216	Peri. 31.68934	-0.97878170		-0.20298626
a 3.1130521	Node 136.57065	+0.17845448		-0.91155564
e 0.0997262	Incl. 2.33275	+0.10069950		-0.35757922
P 5.49	H 13.5	G 0.15		

Residuals in seconds of arc

771011 675 0.9- 1.0+	771017 675 1.6- 0.6-	910321 809 0.4+ 0.4-
771011 675 0.3- 0.3-	771021 675 2.5- 0.7-	910321 809 0.7+ 0.7-
771012 675 2.3+ 0.5-	771021 675 1.2- 1.4+	910419 809 1.3+ 0.1-
771012 675 0.5+ 0.2-	910320 809 1.2- 0.7+	910419 809 0.2+ 0.0
771016 675 2.6+ 0.6+	910320 809 0.8- 0.6+	910419 809 0.2+ 0.0
771016 675 1.0+ 0.6-	910320 809 0.9- 0.6+	
771017 675 0.0 0.1+	910321 809 0.1+ 0.6-	

4050 T-3 = 4204 T-1

Epoch 1991 Dec. 10.0 ET = JDE 2448600.5

M 138.09368	(1950.0)	P	Williams	Q
n 0.24171195	Peri. 284.60349	+0.50274833		-0.86216420
a 2.5523328	Node 135.03624	+0.82325549		+0.45546374
e 0.1472490	Incl. 5.08112	+0.26361812		+0.22186860
P 4.08	H 14.5	G 0.15		

Residuals in seconds of arc

710324 675 (4.2+ 1.0-)	771011 675 0.7- 1.1-	771017 675 0.0 0.7-
710326 675 0.1+ 0.4-	771011 675 0.6+ 0.4-	771017 675 1.0- 0.5+
710326 675 0.3+ 0.7+	771012 675 0.3- 0.4+	771021 675 0.5+ 0.8+
710327 675 0.5+ 2.2-	771012 675 0.5- 0.7-	771021 675 0.2- 0.3-
710402 675 1.0- 1.8+	771016 675 1.8- 0.8+	771022 675 0.8+ 0.5+
771007 675 1.6+ 0.1+	771016 675 0.2- 0.9+	771022 675 1.1+ 0.9-

* * * * *

NEW NAMES OF MINOR PLANETS.

(2461) Clavel = 1981 EC1

Discovered 1981 Mar. 5 by H. Debehogne and G. De Sanctis at the European Southern Observatory.

Named in honor of Gustavine Clavel and her family on the occasion of her hundredth birthday, 1991 Apr. 13, in recognition of a life of work and humility.

(2500) Alascattalo = 1926 GC

Discovered 1926 Apr. 2 by K. Reinmuth at Heidelberg.

Named for Alaska's mythical beast, supposedly a cross between a moose and a walrus and genetically bred by miners during the Alaska Gold Rush around 1900. The alascattalo is also the epitome of Alaska's unique sense of humor, "absurding", which is the Alaskan way of dealing with tourists who ask stupid questions. A parade, lasting just four minutes and extending just one block down an alley, is held each year at three minutes past noon on Alascattalo Day, the first Sunday after the third Saturday in November. Named by the Minor Planet Names Committee following a suggestion by S. C. Levi.

(2572) Annschnell = 1950 DL

Discovered 1950 Feb. 17 by K. Reinmuth at Heidelberg.

Named in honor of Anneliese Schnell (1941-), Austrian astronomer at the Vienna Observatory. Although she mainly studies variable stars, she also works on problems in the history of astronomy, especially on the meaning of the names and on the discovery circumstances of the minor planets discovered by J. Palisa. Schnell was the first woman on the board of the Astronomische Gesellschaft--more than one century after its founding. Name suggested and citation provided by L. D. Schmadel and endorsed by E. Bowell and B. G. Marsden.

(2765) Dinant = 1981 EY

Discovered 1981 Mar. 4 by H. Debehogne and G. De Sanctis at the European Southern Observatory.

Named for a city in southern Belgium, birthplace of Adolphe Sax, inventor of the saxophone, and of the painter Wiertz.

(2788) Andenne = 1981 EL

Discovered 1981 Mar. 1 by H. Debehogne and G. De Sanctis at the European Southern Observatory.

Named for an industrial city in southern Belgium, known for its foundries and metallurgic factories.

(2958) Arpetito = 1981 DG

Discovered 1981 Feb. 28 by H. Debehogne and G. De Sanctis at the European Southern Observatory.

Named in honor of E. Araya, J. Perez, R. Tighe and A. Torrecon, who prepare the plates used in the observing program on minor planets with the Grand Prism Objectif at La Silla.

(3016) Meuse = 1981 EK

Discovered 1981 Mar. 1 by H. Debehogne and G. De Sanctis at the European Southern Observatory.

Named for the river, more than 900 km long, with its source at Langres and that flows through the cities of Verdun, Domremy and Sedan in France, Dinant, Namur, Huy and Liege in Belgium, and Maastricht, Nijmegen and Rotterdam in the Netherlands.

(3083) Oafa = 1974 MH

Discovered 1974 June 17 at El Leoncito.

Named in honor of the Observatorio Astronomico Felix Aguilar, established on 1953 Sept. 28 under the auspices of the National San Juan University in San Juan province, Argentina. Oafa has made important contributions to astronomy in the areas of meridian and extrameridian astrometry. Since 1974 the observing station at El Leoncito, operated in collaboration with Yale University and now known as the Dr. Carlos U. Cesco Observatory, has been a branch of Oafa.

(3121) Tamines = 1981 EV

Discovered 1981 Mar. 2 by H. Debehogne and G. De Sanctis at the European Southern Observatory.

Named for an industrial city on the river Sambre in southern Belgium, known for foundries and glass works.

(3572) Leogoldberg = 1954 UJ2

Discovered 1954 Oct. 28 at the Goethe Link Observatory, Indiana University.

Named in memory of Leo Goldberg (1913-1987), one of the three incorporators of the Association of Universities for Research in Astronomy

on 1957 Oct. 28, exactly three years after the discovery of this minor planet. Having begun work in solar physics as a student of Donald H. Menzel, he served as director of the University of Michigan's observatory from 1946 to 1960, after which he moved to Harvard University and succeeded Menzel as director of the Harvard College Observatory in 1966. He became the third director of the Kitt Peak National Observatory in 1971 and retired in 1977. He was president of the American Astronomical Society during 1964-1966 and of the International Astronomical Union during 1973-1976. Name proposed by B. G. Marsden with the concurrence of F. K. Edmondson, who prepared the citation.

(3610) Decampos = 1981 EA1

Discovered 1981 Mar. 5 by H. Debehogne and G. De Sanctis at the European Southern Observatory.

Named in honor of Jose Adolfo Snajdauf de Campos, of the Valongo Observatory, Federal University of Rio de Janeiro. A teacher of astronomy and a researcher on the photometry of minor planets, he participates in the first discoverer's group for photometric observations at the European Southern Observatory.

(3654) AAS = 1949 QH1

Discovered 1949 Aug. 21 at the Goethe Link Observatory, Indiana University.

Named in honor of the American Astronomical Society, the professional society of American astronomers and astrophysicists from its founding in 1899 until today. Through its journals, its meetings, and especially its members now numbering over five thousand, it has promoted research and education in every branch of astronomy, including the study of minor planets. Name proposed by D. E. Osterbrock and F. K. Edmondson. Citation by D. E. Osterbrock.

(3717) Thorenia = 1964 CG

Discovered 1964 Feb. 15 at the Goethe Link Observatory, Indiana University.

Named in memory of Victor Eugene Thoren (1935-1991), one of the foremost contemporary historians of astronomy and a faculty member in Indiana University's department of history and philosophy of science for his entire academic career. Although Thoren's research contributions were wide-ranging, they nonetheless focused on Tycho Brahe and his emphasis on accuracy in a manner never before thought possible. A copy of his monumental study, "The Lord of Uraniborg: A Biography of Tycho Brahe", reached Thoren a few days before his tragic death, thus affording him an opportunity to enjoy, all too briefly, the fruits of his intellectual labors. Name proposed by F. K. Edmondson and endorsed by IAU Commission 41. Citation prepared by E. Grant.

(3740) Menge = 1981 EM

Discovered 1981 Mar. 1 by H. Debehogne and G. De Sanctis at the European Southern Observatory.

Named in honor of Sergio Menge de Freitas, vice-director of the Valongo Observatory, Federal University of Rio de Janeiro, during 1983-1990. Known for his research on stellar motions, he has also been a collaborator of the first discoverer.

(3756) Ruscannon = 1979 MV6

Discovered 1979 June 25 by E. F. Helin and S. J. Bus at Siding Spring.

Named in honor of Russell Cannon, astrophysicist, director of the Anglo-Australian Observatory, coordinating the activities of the joint

observatories. His special interests are the study of stars in globular clusters and in dwarf galaxies of the Local Group. Cannon was officer-in-charge of the U.K. 1.2-m Schmidt from its first operation in 1974 and is responsible for setting the high standards for which it is renowned. The first discoverer wishes to acknowledge his support in helping her initiate special asteroid surveys at the U.K. Schmidt telescope in Siding Spring.

(3882) Johncox = 1962 RN

Discovered 1962 Sept. 7 at the Goethe Link Observatory, Indiana University.

Named in memory of John Paul Cox (1926-1984), whose professional life was devoted to an investigation of the pulsational mechanisms in variable stars. First at Cornell University and later at the University of Colorado, from where he collaborated with workers at the Los Alamos National Laboratories, he made several outstanding contributions in his field. He produced the first exact, linear, non-adiabatic treatment of pulsation. Along with Zhevakin, Cox realized the importance of the second helium ionization zone as the source of the driving power for Cepheids. He also made significant contributions to our understanding of the Beta Cephei and RR Lyrae stars and authored several review papers and two books that are models of clarity in a very complex subject and will be cited for years to come. Name proposed by H. R. Johnson and F. K. Edmondson.

(3961) Arthurcox = 1962 OB

Discovered 1962 July 31 at the Goethe Link Observatory, Indiana University.

Named in honor of Arthur N. Cox, one of the graduate student observers in the early years of the Indiana minor planet program and the first recipient of a Ph.D. in the graduate program established after the gift of the Goethe Link Observatory to Indiana University in 1948. His four years at Indiana University included a six-month expedition, initiated by John B. Irwin, to the South African observatories to introduce photometry by photoelectric methods to the southern hemisphere. Cox then moved to Los Alamos National Laboratory, becoming the leader of a scientific research group studying both nuclear test results and stellar astrophysics. His calculations of stellar opacities in the early 1960s enabled considerable progress to be made by many stellar astrophysicists, and they are used even now some 30 years later. Name proposed by H. R. Johnson and F. K. Edmondson.

(3999) Aristarchus = 1989 AL

Discovered 1989 Jan. 5 by T. Kojima at Chiyoda.

Named by the Minor Planet Names Committee for one of the earliest (3rd century B.C.) astronomers of the Alexandrine school, known for his belief that the earth revolved around the sun.

(4000) Hipparchus = 1989 AV

Discovered 1989 Jan. 4 by S. Ueda and H. Kaneda at Kushiro.

Named by the Minor Planet Names Committee for the greatest astronomer of ancient times, renowned for his introduction of systematic and critical procedures with regard both to observations and to theoretical concepts.

(4001) Ptolemaeus = 1949 PV

Discovered 1949 Aug. 2 by K. Reinmuth at Heidelberg.

Named by the Minor Planet Names Committee for the celebrated author of the "Almagest", whose ideas dominated astronomical thought in Europe and the Middle East from the second to the sixteenth centuries.

(4016) Sambre = 1979 XK

Discovered 1979 Dec. 15 by H. Debehogne and E. Netto at the European Southern Observatory.

Named for a tributary of the river Meuse in Namur, site of Caesar's victory over Boduognat, leader of the Belgian tribes, in 59 B.C.

(4191) Assesse = 1980 KH

Discovered 1980 May 22 by H. Debehogne at the European Southern Observatory.

Named for the birthplace of the discoverer's father, a charming village in southern Belgium, site of the victory of the Austrians over the Etats Beligues Unis in 1790.

(4192) Breysacher = 1981 DH

Discovered 1981 Feb. 28 by H. Debehogne and G. De Sanctis at the European Southern Observatory.

Named in honor of Jacques Breysacher, astronomer in charge of the Section for Visiting Astronomers at the European Southern Observatory. His scientific work is mainly concerned with stellar spectroscopy and the classification of external galaxies, and he has carried out an extensive study of the Wolf-Rayet populations of the Magellanic Clouds.

(4256) Kagamigawa = 1986 TX

Discovered 1986 Oct. 3 by T. Seki at Geisei.

Named for the river that flows through Kochi, home town of the discoverer.

(4257) Ubasti = 1987 QA

Discovered 1987 Aug. 23 by J. Mueller at Palomar.

Ubasti, also called Bastet or Bast, was an ancient Egyptian goddess worshipped in the form of a cat. Originally a goddess of the home, in the New Kingdom Ubasti was equated with the lioness war goddess. This name is being dedicated to observatory cats throughout the world. Name suggested and citation prepared by G. V. Williams at the request of the discoverer.

(4263) Abashiri = 1989 RL2

Discovered 1989 Sept. 7 by M. Yanai and K. Watanabe at Kitami.

Named for a small city of population 43 000 in the eastern part of Hokkaido. Located on the Sea of Okhotsk, it has prospered for many years on account of its fishing industry, and it serves as a center for transportation, culture and commerce.

(4284) Kaho = 1988 FL3

Discovered 1988 Mar. 16 by S. Ueda and H. Kaneda at Kushiro.

Named in memory of Sigeru Kaho (1909-1981), an earnest researcher of variable stars at the Tokyo Observatory. His discovery of comet 1936 III (Kaho-Kozik-Lis) was the first cometary discovery in Japan in modern times. The Kaho prize, established after his death, has been awarded annually to an active amateur astronomer in Japan. Name suggested by H. Fukushima.

(4310) Stromholm = 1978 RJ7

Discovered 1978 Sept. 2 by C.-I. Lagerkvist at the European Southern Observatory.

Named in honor of Stig Stromholm, scholar, author, professor and vice chancellor of Uppsala University, to commemorate his active and enduring effort to support and strengthen international collaboration in fundamental sciences and culture. Although a respecter of tradition, he is ever open to significant new developments in science and society. Citation prepared by B. Gustafson.

(4313) Bouchet = 1979 HK1

Discovered 1979 Apr. 21 by H. Debehogne at the European Southern Observatory.

Named in honor of Patrice Bouchet, a staff astronomer at the European Southern Observatory at La Silla, where he leads the infrared section. His work has ranged from the discoveries of a ring around Neptune and of ice in Halley's Comet, to the determination of the extinction law in the Small Magellanic Cloud and infrared monitoring to study dust formation in supernova 1987A.

(4350) Shibechea = 1989 UG1

Discovered 1989 Oct. 26 by S. Ueda and H. Kaneda at Kushiro.

Named for a small town, located 47 km to the north of Kushiro. Its cattle population, 45 500, is four times that of its human population.

(4454) Kumiko = 1988 VW

Discovered 1988 Nov. 2 by S. Ueda and H. Kaneda at Kushiro.

Named in honor of Kumiko Kaneda (1951-), wife of the second discoverer.

(4455) Ruriko = 1988 XA

Discovered 1988 Dec. 2 by S. Ueda and H. Kaneda at Kushiro.

Named in honor of Ruriko Ueda (1957-), wife of the first discoverer.

(4496) Kamimachi = 1988 XM1

Discovered 1988 Dec. 9 by T. Seki at Geisei.

Named for the street on which the discoverer lives and from where he discovered six comets, including the sungrazer 1965 VIII (Ikeya-Seki).

(4500) Pascal = 1989 CL

Discovered 1989 Feb. 3 by S. Ueda and H. Kaneda at Kushiro.

Named by the Minor Planet Names Committee for the French mathematician and philosopher Blaise Pascal (1623-1662).

(4547) Massachusetts = 1990 KP

Discovered 1990 May 16 by K. Watanabe and K. Endate at Sapporo.

Named for the U.S. state in which the Minor Planet Center is located. In 1876, the Sapporo School of Agriculture (now Hokkaido University), located in what was then a very undeveloped region, invited William S. Clark, head of the Massachusetts University of Agriculture, to teach them about American agriculture and technology, which at that time was far more advanced. Before leaving to return to the United States, Clark uttered the famous words "Boys, be ambitious", words that even now linger on in the pioneer spirit of Hokkaido's people. On 1990 Feb. 7 Hokkaido and Massachusetts established a sister-state relationship.

(4558) Janesick = 1988 NF

Discovered 1988 July 12 by A. Maury and J. Mueller at Palomar.

Named in honor of James R. Janesick of the Jet Propulsion Laboratory. Janesick has been instrumental in the development of CCDs for astronomy and, of equal importance, in the education of astronomers in the use of these devices and of industry in establishing requirements for good scientific imagers. His contributions have ranged from making the detectors useful in the blue and ultraviolet to the development of techniques for excellent charge transfer at very low signal levels, of amplification methods with sub-electron noise and of procedures to avoid damaging effects in high-

energy radiation. Citation written by J. E. Gunn at the request of the first discoverer. Name endorsed by E. F. Helin.

(4563) Kohnia = 1980 OG

Discovered 1980 July 17 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Named in honor of Franz D. Kahn, professor of astronomy and head of the department of astronomy at the University of Manchester. Kahn has made important contributions to many areas of astrophysics, including studies of H II regions, supernovae and cosmical gas dynamics, and he has shown great interest in and support for research on comets and minor planets at Manchester. Name proposed and citation prepared by G. J. Hahn.

(4571) Grumiaux = 1985 RY3

Discovered 1985 Sept. 8 by H. Debehogne at the European Southern Observatory.

Named in memory of Arthur Grumiaux (1921-1986), Belgian violonist who established the conservatories of Charleroi and Brussels. After winning the Vieuxtemps Prize in 1939 he went to Paris to study with Georges Enesco. Of particular brilliance are his recordings of the Mozart and Beethoven sonatas with Clara Haskil at the piano and of Bach's sonatas and partitas for unaccompanied violin. His superb renditions of Mozart's music will last for ever. Name proposed in consultation with E. Goffin, who found the identifications involving this minor planet.

(4584) Akan = 1990 FA

Discovered 1990 Mar. 16 by M. Matsuyama and K. Watanabe at Kushiro.

Named for an extensive national park in eastern Hokkaido. Designated a national park in 1934, Akan has an area of 905 square km, within which are located the three large lakes Akan, Mashu and Kussyaro, as well as the volcanic mountains Meakandake, Oakandake and Mashudake.

(4585) Ainonai = 1990 KQ

Discovered 1990 May 16 by K. Endate and K. Watanabe at Kitami.

Named for a small town (population less than 3000), situated 10 km west of Kitami in eastern Hokkaido.

(4644) Oumu = 1990 SR3

Discovered 1990 Sept. 16 by A. Takahashi and K. Watanabe at Kitami.

Named for a town, noted for its fishing industry, situated on the Sea of Okhotsk some 50 km of Kitami.

(4660) Nereus = 1982 DB

Discovered 1982 Feb. 28 by E. F. Helin at Palomar.

Named for the ancient Greek god Nereus, a son of Pontus and Gaia. A benevolent sea-god associated with ancient origins (mythology, if not science), he had the power of prophecy. Name proposed by Robert M. Cutler, a Planetary Society member interested in near-earth asteroids. To English-language speakers the name seems very appropriate for such an object.

(4670) Yoshinogawa = 1987 YJ

Discovered 1987 Dec. 19 by T. Seki at Geisei.

Named for the longest river on Shikoku island, flowing east-west for a distance of 194 km.

(4675) Ohboke = 1990 SD

Discovered 1990 Sept. 19 by T. Seki at Geisei.

Named for one of the valleys of the Yoshino river, famous for its tinted autumn leaves.

(4726) Federer = 1976 SV10

Discovered 1976 Sept. 25 at the Agassiz Station of the Harvard College Observatory.

Named in honor of Charles A. Federer, Jr., founding editor of "Sky and Telescope". In January 1940, Federer became editor of "The Sky", a monthly popular astronomy magazine published since 1936 by the Hayden Planetarium in New York City. Then in November 1941, "The Sky" was combined with a similar publication, "The Telescope", which was founded at Perkins Observatory in 1931 but which since 1934 had been published by Harvard College Observatory. Federer became editor-in-chief of "Sky and Telescope" in 1964, a post he held until his retirement a decade later.

(4733) ORO = 1982 HB2

Discovered 1982 Apr. 19 at the Oak Ridge Observatory.

Named in honor of the Oak Ridge Observatory, established in Harvard, Massachusetts, by the Harvard College Observatory in 1932 and since 1982 operated by the Smithsonian Astrophysical Observatory. This minor planet is one of 39 discovered in the course of the Oak Ridge (also known for many years as the Agassiz Station) astrometric program, which has been conducted with the 1.5-m Wyeth reflector, the largest telescope in the eastern United States, for almost 20 years.

(4760) Jia-xiang = 1981 GN1

Discovered 1981 Apr. 1 at the Agassiz Station of the Harvard College Observatory.

Named in honor of Zhang Jia-xiang, an astronomer at the Purple Mountain Observatory and the director of its Planetary Laboratory. A student of the late Y. C. Chang, Zhang has devoted himself to observations and orbital studies of comets and minor planets for more than three decades. He and his colleagues have discovered 115 numbered minor planets and four comets.

(4776) Luyi = 1975 VD

Discovered 1975 Nov. 3 at the Agassiz Station of the Harvard College Observatory.

Named for a town in the eastern Henan province of China. Luyi is the birthplace of the legendary philosopher Laotze (born circa 640 B.C.) of the western Zhou dynasty and founder of Taoism. Luyi is the original hometown of C.-Y. Shao, who has been involved with the minor planet program at Harvard since its inception, and it is also the name of his son.

(4782) Gembloux = 1980 TH3

Discovered 1980 Oct. 14 by H. Debehogne and L. Houziaux at Haute Provence.

Named for an industrial city on the river Orneau in southern Belgium.

(4798) Mercator = 1989 SU1

Discovered 1989 Sept. 26 by E. W. Elst at the European Southern Observatory.

Named in memory of the Flemish cartographer Gerard De Kremer (1512-1594), known under the Latinised form of his name Gerardus Mercator. After receiving a master's degree from the University of Leuven in 1532, he studied mathematics, geography and astronomy and became a skillful engraver. He established himself in that city as an independent scientific-instrument maker and cartographer in 1537 and began to build his reputation as the most important geographer of his time. Appointed court cosmographer to the Duke of Cleve in 1564, he perfected his cylindrical map projection now known as "Mercator projection" in 1569. To him we owe the term "atlas" for a

collection of geographical maps. Name proposed by the discoverer following a suggestion by E. Goffin, who also prepared the citation.

(4804) Pasteur = 1989 XC1

Discovered 1989 Dec. 2 by E. W. Elst at the European Southern Observatory.

Named in memory of the great French chemist and microbiologist Louis Pasteur (1822-1895), who proved that fermentation and disease are caused by micro-organisms. His invention of the principle of immunization was successfully applied for the first time against rabies in 1885. In 1888 the celebrated Pasteur Institute was established in Paris, and the process of pasteurization is well known throughout the whole world.

(4818) Elgar = 1984 EM

Discovered 1984 Mar. 1 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Named for Sir Edward Elgar (1857-1934), English composer. Arguably the progenitor of the English musical renaissance of the 20th century, Elgar is best known for his orchestral and choral works.

(4821) Bianucci = 1986 EE5

Discovered 1986 Mar. 5 by W. Ferreri at the European Southern Observatory.

Named in honor of Piero Bianucci, scientific journalist and member of the editorial staff of "La Stampa" of Turin, one of the most important newspapers in Italy. One of the best known popular writers on astronomy in Italy, Bianucci has written more than ten popular astronomical books and thousands of scientific articles. He has inspired a growing interest in astronomy in Italy, especially among young people.

(4822) Karge = 1986 TC1

Discovered 1986 Oct. 4 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Named in honor of Orville B. Karge (1919-1990), instructor of physics at San Dieguito and Torrey Pines High Schools, near San Diego, California. Karge was known to be selflessly devoted to teaching and the development of opportunities for students to independently explore their interests beyond the classroom. His encouragement to enter science fairs, sponsorship of a long-lived rocketry and astronomy club, and an open-lab policy provided educational challenges and adventures for his physics students and many others. Citation provided by J. Bytof at the request of the discoverer.

(4825) Ventura = 1988 CS2

Discovered 1988 Feb. 11 by E. W. Elst at the European Southern Observatory.

Named for the city near the coast of the Pacific, north of Los Angeles. After the conference "Near-Earth Asteroids" at San Juan Capistrano in July 1991 the discoverer and his family spent a most enjoyable time there at the home of friends.

(4841) Manjiro = 1989 UO3

Discovered 1989 Oct. 28 by T. Seki at Geisei.

Named in memory of Manjiro Nakahama, a fisherman from Kochi prefecture who was rescued by an American whaling ship at the age of 16 when, in 1843, he was drifting in the Pacific. Beginning a new life in the U.S. under the name John Manjiro, he served as first officer on several voyages and played a very important part in the early stages of cultural exchange between Japan and the United States.

(4850) Palestrina = 1973 UJ5

Discovered 1973 Oct. 27 by F. Borngen at Tautenburg.

Named for the famous Italian Renaissance composer Giovanni Pierluigi da Palestrina (ca. 1525-1594). His works fill 34 volumes and are marked by quiet elevation, dignity, clearness and melodious sound.

(4865) Sor = 1988 UJ

Discovered 1988 Oct. 18 by T. Seki at Geisei.

Named for the great Spanish guitarist Fernando Sor.

(4873) Fukaya = 1990 EC

Discovered 1990 Mar. 4 by A. Sugie at the Dynic Observatory.

Named for a city 70 km northwest of Tokyo, not far from the National Astronomical Observatory's Dodaira Station. Originally a stop on one of the main routes between Tokyo and Kyoto, the city received its present name in 1955, since when it has shown remarkable growth. Fukaya, home to one of the factories of the Dynic Corporation, is now one of the leading industrial centers in Saitama prefecture. Name proposed by the discoverer, following a suggestion by S. Sakabe.

(4889) Praetorius = 1982 UW3

Discovered 1982 Oct. 19 by F. Borngen at Tautenburg.

Named for Michael Praetorius (1571-1621), outstanding German composer and musical writer of the early baroque. He published a fundamental three-volume composition theory (Syntagma musicum) and about 25 volumes with sacred and secular compositions and collections of church songs. Particularly well known is his beautiful melody for the Christmas carol "Es ist ein Ros entsprungen."

(4893) Seitter = 1986 PT4

Discovered 1986 Aug. 9 by E. W. Elst and V. Ivanova at the Bulgarian National Observatory.

Named in honor of Waltraut Seitter, director of the Munster (Westfalen) Astronomical Institute, famous for her spectroscopic researches on novae and a good friend of the discoverer.

(4954) Eric = 1990 SQ

Discovered 1990 Sept. 23 by B. Roman at Palomar.

The name dates back to ancient Norse times, and was also prominent among Scandinavian monarchs. Eric the Red was the first Norse explorer of Greenland and father of Leif Ericson, Eric IX was king of Sweden and is revered as Sweden's patron saint (although he was never formally canonized), and Eric of Pomerania was king of Denmark, Norway and Sweden. This Amor object also honors Eric Dale Roman, the discoverer's first child, in his first year of life. Name endorsed by E. F. Helin.

(4956) Noymer = 1990 VG1

Discovered 1990 Nov. 12 by R. H. McNaught at Siding Spring.

Named in honor of Andrew J. Noymer on the occasion of his twentieth birthday, 1991 Nov. 4. A student at Harvard University, he has since the age of 14 been an enthusiastic assistant in a number of astronomical activities. In addition to those at the Harvard-Smithsonian Center for Astrophysics, where he is currently working at the Minor Planet Center and Central Bureau for Astronomical Telegrams, he spent several weeks at Siding Spring in 1988 (where he discovered several minor planets) and at the U.K. Infrared Telescope in 1989. Name proposed by the discoverer, following a suggestion by C. M. Bardwell, D. W. E. Green, B. G. Marsden and G. V. Williams.

(4999) MPC = 1987 CJ

Discovered 1987 Feb. 2 by E. W. Elst at the European Southern Observatory.

Named by the Minor Planet Names Committee for the "Minor Planet Circulars", the series established in 1947 for the publication of astrometric observations, orbital elements and limited ephemerides of minor planets--as well as for the announcement of new names. The abbreviation also honors the Minor Planet Center, which operates through IAU Commission 20 to issue the Circulars. Originally located at the Cincinnati Observatory, the Minor Planet Center moved to the Smithsonian Astrophysical Observatory in 1978. Data on comets also now appear in the publication, which has the alternate title "Minor Planets and Comets".

(5000) IAU = 1987 QN7

Discovered 1987 Aug. 23 by E. F. Helin at Palomar.

Named in honor of the International Astronomical Union, established in 1919 as the international association of professional astronomers. Most of its activity is concentrated in some 40 commissions, each devoted to some particular area of astronomical or astrophysical research. At a competition held in July 1991 among members of Commission 20, "Positions and Motions of Minor Planets, Comets and Satellites", for the selection of a name for the five-thousandth minor planet to be given a permanent number the name "IAU" received the largest number of votes, including that of the discoverer.

(5001) EMP = 1987 SB1

Discovered 1987 Sept. 19 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Named by the Minor Planet Names Committee for the "Ephemerides of Minor Planets", the annual publication of ephemerides of the numbered minor planets and updates of the orbital elements of these bodies to a current epoch. Many new orbit improvements are also included in the EMP each year. Under the auspices of the IAU Commission 20, the EMP, successor to the old "Kleine Planeten" volumes, has been published since 1948 by the Minor Planets and Comets department of the Institute of Theoretical Astronomy in St. Petersburg (formerly Leningrad). The EMP is also now available in a computer-diskette edition.

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EPHEMERIDES.

1991 TB1		a,e,i = 1.47, 0.36, 24				Elements MPC 19316		
Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	V
1991 11 20		21 27.33	+29 18.2	0.412	1.118	97.3	61.2	18.0
1991 11 25		21 20.13	+31 09.4					
1991 11 30		21 14.20	+32 59.0	0.436	1.070	88.8	67.1	18.2
1991 12 05		21 09.24	+34 48.2					
1991 12 10		21 04.96	+36 38.0	0.452	1.028	82.4	71.8	18.3
1991 12 15		21 01.06	+38 28.8					
1991 12 20		20 57.26	+40 20.5	0.458	0.992	77.6	75.6	18.4
1991 12 25		20 53.30	+42 12.6					
1991 12 30		20 48.99	+44 04.6	0.452	0.965	74.3	78.9	18.5
1992 01 04		20 44.13	+45 56.2					
1992 01 09		20 38.51	+47 47.1	0.434	0.948	72.5	81.6	18.4
1992 01 14		20 31.87	+49 36.8					
1992 01 19		20 23.97	+51 25.0	0.404	0.943	72.3	83.6	18.3
1992 01 24		20 14.51	+53 11.6					

1992 01 29	20 03.16	+54 57.4	0.363	0.949	73.7	84.7	18.2
1992 02 03	19 49.33	+56 43.6					
1992 02 08	19 32.01	+58 32.1	0.315	0.967	77.3	84.2	17.9

Periodic Comet McNaught-Hughes (1991y)

Elements MPC 19258

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	m1
1991 11 20		23 18.53	-14 21.9	1.918	2.414	108.0	22.9	17.7
1991 11 30		23 26.62	-12 50.3					
1991 12 10		23 36.16	-11 11.9	2.224	2.482	93.2	23.3	18.2
1991 12 20		23 46.89	-09 28.6					
1991 12 30		23 58.56	-07 42.0	2.544	2.555	79.5	22.2	18.6
1992 01 09		00 10.99	-05 53.0					
1992 01 19		00 24.03	-04 03.0	2.863	2.630	66.5	20.1	19.0
1992 01 29		00 37.54	-02 13.0					
1992 02 08		00 51.44	-00 23.8	3.167	2.707	54.0	17.1	19.3
1992 02 18		01 05.64	+01 23.8					
1992 02 28		01 20.06	+03 08.9	3.444	2.786	41.8	13.7	19.6
1992 03 09		01 34.67	+04 50.9					
1992 03 19		01 49.40	+06 29.1	3.685	2.866	30.0	10.0	19.9

1991 TK2

a, e, i = 2.83, 0.49, 12

Elements MPC 19317

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	V
1991 11 20		23 41.15	-06 46.8	0.912	1.615	116.3	33.3	17.2
1991 11 30		00 01.02	-06 09.6					
1991 12 10		00 20.75	-05 08.5	1.151	1.706	105.8	33.7	17.9
1991 12 20		00 40.31	-03 50.4					
1991 12 30		00 59.67	-02 21.0	1.425	1.808	95.6	32.8	18.4
1992 01 09		01 18.86	-00 44.7					
1992 01 19		01 37.92	+00 55.0	1.724	1.917	85.5	30.8	18.9
1992 01 29		01 56.85	+02 34.9					
1992 02 08		02 15.71	+04 12.9	2.039	2.029	75.4	28.1	19.3

Periodic Comet Shoemaker-Levy 5 (1991z)

Elements MPC 19258

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	m1
1991 11 20		00 05.21	-00 51.3	1.264	1.995	124.3	24.2	16.5
1991 11 30		00 10.14	+01 11.4					
1991 12 10		00 18.00	+03 22.0	1.437	1.984	108.6	28.1	16.8
1991 12 20		00 28.42	+05 38.2					
1991 12 30		00 41.02	+07 57.9	1.641	1.990	95.4	29.5	17.1
1992 01 09		00 55.48	+10 19.2					
1992 01 19		01 11.54	+12 40.3	1.864	2.011	83.8	29.1	17.4
1992 01 29		01 28.94	+14 59.3					
1992 02 08		01 47.52	+17 14.5	2.099	2.047	73.3	27.5	17.7
1992 02 18		02 07.12	+19 24.1					
1992 02 28		02 27.59	+21 26.5	2.340	2.097	63.6	25.0	18.1
1992 03 09		02 48.83	+23 20.3					
1992 03 19		03 10.73	+25 04.1	2.581	2.158	54.3	22.0	18.4
1992 03 29		03 33.17	+26 36.6					
1992 04 08		03 56.03	+27 57.1	2.817	2.230	45.4	18.6	18.7
1992 04 18		04 19.19	+29 04.9					
1992 04 28		04 42.51	+29 59.6	3.041	2.311	36.5	15.0	19.1

Comet Shoemaker-Levy (1991a1)

Elements MPC 19258

Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	m1
1991 11 20		01 16.13	+37 04.9	2.827	3.677	144.6	9.0	15.4
1991 11 30		00 57.57	+35 50.3					
1991 12 10		00 41.68	+34 24.4	2.821	3.452	122.5	13.9	15.1
1991 12 20		00 28.99	+32 57.3					
1991 12 30		00 19.53	+31 37.7	2.907	3.221	99.6	17.5	14.9

1992 01 09	00 13.09	+30 31.5						
1992 01 19	00 09.33	+29 42.3	3.019	2.984	78.6	18.9	14.6	
1992 01 29	00 07.82	+29 11.6						
1992 02 08	00 08.20	+28 59.8	3.098	2.742	60.0	18.2	14.3	
1992 02 18	00 10.15	+29 06.7						
1992 02 28	00 13.37	+29 31.9	3.103	2.493	44.4	16.1	13.9	
1992 03 09	00 17.64	+30 15.3						
1992 03 19	00 22.77	+31 17.0	3.009	2.238	32.8	14.0	13.4	

1990 VA		a,e,i = 0.99, 0.28, 14			Elements MPC 19307				
Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	V	
1991 11 20		03 39.45	-03 49.2	0.275	1.246	156.8	18.2	18.1	
1991 11 25		03 24.50	-06 50.2						
1991 11 30		03 11.56	-09 09.1	0.312	1.255	145.2	26.6	18.7	
1991 12 05		03 00.92	-10 48.1						
1991 12 10		02 52.67	-11 52.5	0.362	1.260	132.9	34.9	19.2	
1991 12 15		02 46.73	-12 28.3						
1991 12 20		02 42.91	-12 41.3	0.420	1.259	122.3	41.3	19.7	
1991 12 25		02 40.96	-12 36.6						
1991 12 30		02 40.65	-12 18.0	0.480	1.253	113.3	46.1	20.1	
1992 01 04		02 41.77	-11 48.3						
1992 01 09		02 44.17	-11 10.1	0.539	1.242	105.6	49.7	20.5	
1992 01 14		02 47.68	-10 25.5						
1992 01 19		02 52.16	-09 35.9	0.595	1.226	98.9	52.5	20.7	
1992 01 24		02 57.48	-08 42.5						
1992 01 29		03 03.54	-07 46.2	0.645	1.205	93.0	54.7	20.9	
1992 02 03		03 10.28	-06 47.6						
1992 02 08		03 17.65	-05 47.4	0.687	1.178	87.6	56.8	21.1	

Comet Shoemaker-Levy (1991d)					Elements MPC 18256				
Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	ml	
1991 11 20		14 12.98	+36 07.7	2.662	2.313	59.0	21.5	11.8	
1991 11 30		14 46.88	+37 08.1						
1991 12 10		15 22.62	+38 03.9	2.508	2.278	65.2	23.1	11.6	
1991 12 20		15 59.59	+38 51.5						
1991 12 30		16 36.94	+39 28.0	2.439	2.265	68.2	23.8	11.5	
1992 01 09		17 13.71	+39 52.9						
1992 01 19		17 48.95	+40 07.7	2.456	2.275	67.9	23.6	11.5	
1992 01 29		18 21.94	+40 15.0						
1992 02 08		18 52.21	+40 18.7	2.532	2.308	65.7	22.9	11.6	
1992 02 18		19 19.51	+40 22.1						
1992 02 28		19 43.81	+40 27.6	2.632	2.362	63.5	22.0	11.8	
1992 03 09		20 05.16	+40 37.2						
1992 03 19		20 23.64	+40 51.2	2.719	2.435	63.0	21.4	12.0	
1992 03 29		20 39.36	+41 09.7						
1992 04 08		20 52.38	+41 32.0	2.769	2.525	65.5	21.2	12.2	
1992 04 18		21 02.71	+41 56.5						
1992 04 28		21 10.32	+42 21.3	2.771	2.629	71.4	21.3	12.4	
1992 05 08		21 15.14	+42 43.8						
1992 05 18		21 17.08	+43 00.4	2.726	2.746	80.5	21.3	12.6	
1992 05 28		21 16.08	+43 06.8						
1992 06 07		21 12.13	+42 57.7	2.648	2.873	92.3	20.7	12.7	
1992 06 17		21 05.41	+42 26.8						
1992 06 27		20 56.30	+41 27.8	2.566	3.009	106.0	19.0	12.8	
1992 07 07		20 45.42	+39 55.2						
1992 07 17		20 33.67	+37 45.4	2.520	3.151	119.8	16.3	13.0	
1992 07 27		20 22.01	+34 59.0						
1992 08 06		20 11.33	+31 40.5	2.554	3.298	129.9	13.6	13.2	

1991 11 10	03	42.45	+33	10.2	1.450	2.406	160.6	7.9	17.8
-11.56	-0.66	+ 5.1	-10.9	3174	T-1 19323	- 8.48	+1.51	- 42.1	- 2.6
1991 12 10	03	08.36	+31	59.3	1.511	2.430	153.1	10.6	18.0
1991 11 10	03	43.28	+17	17.4	2.002	2.980	168.7	3.7	17.2
- 7.89	-0.46	- 29.8	- 1.2	2146	T-1 19321	- 6.56	+0.86	- 22.2	+ 3.8
1991 12 10	03	19.16	+15	50.2	2.018	2.939	154.6	8.3	17.4
1991 11 10	03	48.50	+24	20.9	1.191	2.164	165.6	6.5	18.1
-11.71	-0.60	- 31.4	- 6.5	3300	T-1 19325	- 7.95	+1.60	- 42.5	+ 3.5
1991 12 10	03	14.94	+22	11.4	1.298	2.230	155.1	10.7	18.5
1991 11 10	04	30.83	+13	47.2	1.310	2.255	157.0	9.9	18.0
- 8.55	-1.04	- 61.6	+ 1.0	1171	T-1 19320	- 8.69	+0.97	- 32.0	+ 8.1
1991 12 10	04	01.24	+11	13.6	1.363	2.317	161.3	7.8	18.1
1991 11 10	05	09.32	+42	35.7	1.182	2.053	141.7	17.4	16.8
- 6.61	-2.26	+ 72.6	-10.2	1104	T-1 19319	-12.94	+0.64	- 22.0	-17.5
1991 12 10	04	34.63	+44	05.6	1.110	2.056	157.9	10.4	16.5
1991 12 10	05	22.03	+00	33.4	1.413	2.352	157.3	9.3	16.9
- 9.80	-0.11	- 17.0	+13.0	1983	RB2 19294	- 5.37	+1.38	+ 52.5	+ 8.5
1992 01 09	04	56.52	+01	35.0	1.551	2.392	140.4	15.2	17.4
1991 12 10	05	44.17	+10	48.9	2.273	3.233	164.5	4.7	17.2
- 7.89	-0.31	- 16.3	+ 4.2	1280	T-1 19321	- 6.17	+0.82	+ 10.6	+ 4.3
1992 01 09	05	20.99	+10	40.1	2.346	3.237	150.3	8.7	17.5
1991 12 10	06	18.90	+39	35.3	1.763	2.696	156.7	8.3	17.0
- 9.66	-0.95	+ 23.4	- 8.3	1990	RE7 19305	- 8.98	+1.15	- 31.0	- 7.4
1992 01 09	05	47.05	+39	22.1	1.788	2.710	154.6	8.9	17.0
1991 12 10	06	56.77	+19	36.0	1.996	2.910	153.3	8.8	17.9
- 8.07	-1.02	+ 1.4	+ 1.7	1990	RC3 19305	- 9.91	+0.50	+ 6.3	+ 0.2
1992 01 09	06	27.01	+19	50.4	1.947	2.917	168.5	3.9	17.6
1991 12 10	07	09.18	+25	19.4	2.029	2.930	151.1	9.4	17.0
- 7.19	-1.04	+ 2.0	- 0.3	1990	SJ16 19306	- 9.21	+0.45	- 7.1	- 2.1
1992 01 09	06	41.84	+25	15.2	2.019	2.996	171.8	2.7	16.7
1991 12 10	07	12.44	+19	01.5	1.881	2.775	149.5	10.4	18.2
- 5.71	-1.12	+ 15.2	+ 3.1	2259	T-1 19322	- 8.62	+0.28	+ 25.1	0.0
1992 01 09	06	48.36	+20	07.8	1.810	2.789	173.3	2.3	17.8
1991 12 10	07	18.22	+26	16.8	4.191	5.061	149.1	5.7	17.3
- 4.57	-0.55	+ 5.8	- 0.1	(4707)	17616	- 6.10	+0.08	+ 0.8	- 1.4
1992 01 09	07	01.06	+26	29.2	4.110	5.090	174.7	1.0	17.0
1991 12 10	07	23.97	+02	24.8	1.751	2.586	140.2	14.1	17.6
- 4.99	-1.22	- 32.1	+ 8.5	4092	T-3 16039	- 9.00	+0.08	+ 29.3	+10.5
1992 01 09	07	00.60	+02	16.6	1.611	2.556	159.6	7.7	17.1
1991 12 10	07	25.50	+15	45.3	1.790	2.662	145.7	12.0	17.1
- 5.41	-1.24	+ 4.1	+ 4.6	1990	RO1 17964	- 9.19	+0.15	+ 25.4	+ 2.0
1992 01 09	07	01.03	+16	34.2	1.694	2.673	173.3	2.4	16.5
1991 12 10	07	17.82	+04	07.2	4.399	5.214	142.4	6.6	17.3
- 3.94	-0.47	- 16.6	+ 3.6	1988	RO 19022	- 5.29	+0.05	+ 6.5	+ 3.8
1992 01 09	07	03.02	+03	51.7	4.294	5.235	161.3	3.5	17.1

1991 12 10	07 29.68	+09 14.8	2.053	2.896	142.3	12.0	17.6
- 6.40	-1.14	- 34.0	+ 4.9 1986 SC2 14790	- 9.93	+0.11	+ 0.1	+ 5.8
1992 01 09	07 02.88	+08 22.3	1.936	2.899	165.7	4.8	17.2
1991 12 10	07 28.30	+04 24.1	1.368	2.217	140.3	16.5	16.8
- 4.99	-1.46	+ 27.2	+12.4 1986 PD1 13466	- 9.38	+0.22	+ 94.4	+ 7.6
1992 01 09	07 03.65	+07 35.3	1.308	2.272	165.0	6.4	16.4
1991 12 10	07 38.81	+39 25.5	1.607	2.466	143.1	13.9	15.7
- 7.66	-1.80	+ 30.7	- 4.8 1931 UD 15873	-12.61	+0.42	- 25.2	-11.5
1992 01 09	07 04.30	+39 46.3	1.569	2.524	162.4	6.8	15.4
1991 12 10	07 30.51	+23 46.6	2.126	2.995	146.2	10.6	17.7
- 5.64	-1.13	+ 21.0	+ 1.5 1990 SV12 18123	- 8.99	+0.15	+ 18.1	- 2.3
1992 01 09	07 06.22	+24 52.3	2.064	3.046	176.7	1.1	17.2
1991 12 10	07 29.34	+11 28.8	1.308	2.179	143.3	15.7	17.1
- 3.53	-1.58	- 2.0	+ 8.2 1984 DN 13464	- 9.47	-0.07	+ 48.2	+ 6.9
1992 01 09	07 07.08	+12 40.2	1.146	2.122	170.2	4.5	16.3
1991 12 10	07 34.11	+23 55.0	1.772	2.643	145.4	12.2	17.6
- 5.90	-1.36	+ 34.9	+ 2.3 1990 OK2 18633	-10.03	+0.17	+ 30.6	- 3.5
1992 01 09	07 07.39	+25 43.9	1.719	2.701	176.1	1.4	17.0
1991 12 10	07 36.54	+28 13.4	1.239	2.122	145.0	15.4	15.9
- 3.73	-1.85	+ 66.3	+ 2.8 1986 RQ5 16872	-10.22	+0.07	+ 48.6	- 8.4
1992 01 09	07 12.10	+31 26.9	1.163	2.140	170.8	4.2	15.4
1991 12 10	07 38.80	+25 51.8	2.113	2.970	144.5	11.1	16.7
- 5.58	-1.20	+ 7.8	+ 0.7 1987 DE6 17633	- 9.38	+0.09	+ 0.2	- 2.8
1992 01 09	07 13.99	+26 10.3	2.032	3.014	176.1	1.3	16.1
1991 12 10	07 41.98	+41 01.4	2.444	3.277	142.1	10.7	17.1
- 6.33	-1.32	+ 38.8	- 3.2 (4663) 17417	-10.65	+0.07	- 1.7	- 9.2
1992 01 09	07 13.95	+42 08.4	2.351	3.293	160.2	5.8	16.8
1991 12 10	07 38.51	+29 41.8	2.242	3.098	144.6	10.6	16.9
- 5.00	-1.24	+ 63.2	+ 1.6 1990 TN4 17454	- 9.64	-0.10	+ 50.6	- 5.7
1992 01 09	07 14.44	+32 46.1	2.100	3.072	169.5	3.3	16.4
1991 12 10	07 45.07	+19 21.3	1.424	2.283	142.1	15.4	17.9
- 6.35	-1.68	+ 43.6	+ 5.6 1987 OM 12207	-11.77	+0.15	+ 54.3	- 2.4
1992 01 09	07 14.52	+22 03.1	1.376	2.360	179.7	0.1	17.1
1991 12 10	07 39.25	+15 10.2	1.962	2.807	142.3	12.4	18.1
- 5.36	-1.22	+ 4.5	+ 4.7 4019 T-3 17978	- 9.46	+0.03	+ 26.2	+ 2.1
1992 01 09	07 14.73	+16 00.9	1.857	2.837	173.7	2.2	17.6
1991 12 10	07 31.09	+29 26.7	4.628	5.474	146.2	5.7	17.4
- 4.09	-0.56	+ 23.2	- 0.1 (4792) 18097	- 5.93	0.00	+ 15.8	- 2.2
1992 01 09	07 15.04	+30 29.0	4.516	5.491	171.8	1.5	17.1
1991 12 10	07 40.46	+22 09.8	2.245	3.094	143.7	10.9	18.2
- 5.55	-1.18	- 1.8	+ 1.6 1980 PV1 16423	- 9.85	-0.07	- 0.5	- 1.1
1992 01 09	07 15.31	+22 11.3	2.068	3.052	179.9	0.0	17.3
1991 12 10	07 40.02	+19 00.0	2.276	3.121	143.2	10.9	17.9
- 5.54	-1.14	+ 16.6	+ 3.3 1989 LA 14958	- 9.61	-0.05	+ 27.2	0.0
1992 01 09	07 15.30	+20 11.8	2.125	3.107	177.9	0.7	17.2