

**PRECISE ASTROMETRIC POSITIONS OF 40 MINOR PLANETS
OBTAINED BY GPO TELESCOPE OF ESO - LA SILLA IN 1987- 88**

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SUMMARY: 543 precise astrometric positions of 40 minor planets, observed during two missions (January 1987 and September-October 1988) at La Silla were obtained. 21 new minor planets were discovered during these observational periods.

The measurements were made with Ascorecord of the Observatoire Royal de Belgique. The reductions were performed using the dependance method by means of five reference stars.

1. INTRODUCTION

Here we present the results of photographic observations of minor planets which were carried out in February 1987 and September – October 1988 with Grand Prism Objective ($f = 4\text{m}$, $d = 40\text{ cm}$) at the European Southern Observatory, La Silla, Chile, by H. Debehogne.

543 precise positions are obtained and 21 new minor planets were discovered.

2. OBSERVATIONS, MEASUREMENTS AND REDUCTIONS

All minor planet observations were performed using the standard Kodak II-O plates with three exposures on each plate.

Five referent stars of SAO catalogue were selected per plate. All the plates were measured on the Ascorecord Zeiss machine by H. Debehogne at the Observatoire Royal de Belgique.

The reduction were performed using the dependance method by means of five reference stars.

The computation was carried out in the Uccle computing center using UNIVAC 9200.

3. RESULTS

The results of observations collecting during these missions are presented in two tables.

Table I contains respectively: the ordinal number of each position, the object designation, ordinal number of the plate, date in UT, the topocentric coordinates α and δ for the equinox 1950.0 and the residuals.

For the new asteroids the calculated positions only are presented.

All other data including the residuals of the referent stars and dependences can be obtained from the authors on request.

For six new asteroids orbital elements were calculated by V. Protitch-Benishek and D. Olevich on the basis of such observations.

Acknowledgments — We wish to express our thanks to the ESO for the financial supports for Dr H. Debehogne during his mission at La Silla.

TABLE I

NO	OBJECT	FLAT	DATE JUL 1957		ALPHA 1950			DELTA 1950					
			MO	DAY	H	M	S	G	M	S			
1	175 Andromache	11456	9	17	132629	23	41	42	799	4	50	34	51
2	175 Andromache	11456	9	13	137848	23	41	42	549	4	50	35	82
3	175 Andromache	11456	9	13	143066	23	41	42	382	4	50	36	66
4	175 Andromache	12467	9	16	190613	23	39	23	821	5	0	56	00
5	175 Andromache	12467	9	16	195496	23	39	23	529	5	0	57	00
6	175 Andromache	12467	9	16	200348	23	39	23	396	5	0	58	00
7	175 Andromache	12476	9	17	157288	23	38	39	776	5	4	9	87
8	175 Andromache	12476	9	17	162140	23	38	39	560	5	4	10	88
9	175 Andromache	12476	9	17	167023	23	38	39	325	5	4	11	83
10	175 Andromache	12491	9	19	307993	23	37	46	935	5	7	58	79
11	175 Andromache	12491	9	19	312836	23	37	46	699	5	8	0	14
12	175 Andromache	12491	9	19	317719	23	37	46	466	5	8	1	00
13	175 Andromache	12526	9	24	239929	23	33	19	700	5	26	35	19
14	175 Andromache	12526	9	24	244781	23	33	19	462	5	26	36	00
15	175 Andromache	12526	9	24	249664	23	33	19	225	5	26	36	66
16	175 Andromache	11585	10	1	237152	23	29	25	421	5	45	7	38
17	175 Andromache	11585	10	1	242004	23	29	25	182	5	45	8	17
18	175 Andromache	11585	10	1	246887	23	29	25	000	5	45	9	00
19	555 Norma	11456	9	13	132629	23	42	27	111	4	37	57	74
20	555 Norma	11456	9	13	137848	23	42	27	294	4	37	59	10
21	555 Norma	11456	9	13	143066	23	42	27	773	4	38	0	46
22	555 Norma	12467	9	16	190613	23	40	18	257	4	53	32	80
23	555 Norma	12467	9	16	195496	23	40	18	047	4	53	34	48
24	555 Norma	12467	9	16	200348	23	40	17	851	4	53	35	76
25	555 Norma	12476	9	17	157288	23	39	36	970	4	58	27	22
26	555 Norma	12476	9	17	162140	23	39	36	751	4	58	28	70
27	555 Norma	12476	9	17	167023	23	39	36	518	4	58	30	00
28	555 Norma	12491	9	19	307993	23	38	47	455	5	4	16	53
29	555 Norma	12491	9	19	312836	23	38	47	246	5	4	18	20
30	555 Norma	12491	9	19	317719	23	38	47	044	5	4	20	02
31	555 Norma	12526	9	24	239929	23	34	33	909	5	33	47	23
32	555 Norma	12526	9	24	244781	23	34	33	693	5	33	48	64
33	555 Norma	12526	9	24	249664	23	34	33	484	5	33	50	03
34	555 Norma	12546	9	26	351746	23	33	4	929	5	43	55	69
35	555 Norma	12546	9	26	356599	23	33	4	695	5	43	57	06
36	555 Norma	12546	9	26	361450	23	33	4	421	5	43	58	43
37	555 Norma	12557	9	27	330992	23	32	24	081	5	48	33	54
38	555 Norma	12557	9	27	335754	23	32	23	876	5	48	34	89
39	555 Norma	12557	9	27	340637	23	32	23	672	5	48	36	25
40	555 Norma	11562	9	28	123260	23	31	51	561	5	52	15	56
41	555 Norma	11562	9	28	128113	23	31	51	357	5	52	17	11
42	555 Norma	11562	9	28	132996	23	31	51	123	5	52	19	64
43	555 Norma	11585	10	1	237152	23	29	45	003	6	6	23	08
44	555 Norma	11585	10	1	242004	23	29	44	791	6	6	24	52
45	555 Norma	11585	10	1	246887	23	29	44	607	6	6	25	92
46	990 Yerkes	12456	9	13	150360	23	41	34	972	2	31	6	08
47	990 Yerkes	12456	9	13	155212	23	41	34	669	2	31	5	76
48	990 Yerkes	12456	9	13	160065	23	41	34	405	2	31	5	49
49	1486 Marilyn	11467	9	16	176056	23	40	49	602	2	1	4	55
50	1486 Marilyn	11467	9	16	180908	23	40	49	347	2	1	6	30

NO	OBJECT	PLATE	DATE UT 1987		ALPHA 1950			DELTA 1950				
			MON.	DAY	H	M	S	O	'	''		
51	1486 Marilyn	11467	9	16	185760	23	40	49.078	-	2	1	8.00
52	1486 Marilyn	11476	9	17	142700	23	39	55.874	-	2	6	49.00
53	1486 Marilyn	11476	9	17	147583	23	39	55.615	-	2	6	51.11
54	1486 Marilyn	11476	9	17	152435	23	39	55.334	-	2	6	52.63
55	1486 Marilyn	11491	9	18	293396	23	38	51.310	-	2	13	39.01
56	1486 Marilyn	11491	9	18	298279	23	38	51.041	-	2	13	40.70
57	1486 Marilyn	11491	9	18	303131	23	38	50.761	-	2	13	42.32
58	1486 Marilyn	11526	9	24	225342	23	33	26.503	-	2	48	16.69
59	1486 Marilyn	11526	9	24	230194	23	33	26.247	-	2	48	18.48
60	1486 Marilyn	11526	9	24	235077	23	33	25.985	-	2	48	20.21
61	2174 Asmodeus	11456	9	13	132629	23	49	4.597	-	3	39	14.41
62	2174 Asmodeus	11456	9	13	137848	23	49	4.293	-	3	39	13.70
63	2174 Asmodeus	11456	9	13	143066	23	49	4.000	-	3	39	13.00
64	2174 Asmodeus	12467	9	16	190613	23	46	11.030	-	3	31	21.08
65	2174 Asmodeus	12467	9	16	195496	23	46	10.730	-	3	31	19.90
66	2174 Asmodeus	12467	9	16	200348	23	46	10.438	-	3	31	19.00
67	2174 Asmodeus	12476	9	17	157288	23	45	15.493	-	3	28	49.83
68	2174 Asmodeus	12476	9	17	162140	23	45	15.182	-	3	28	49.08
69	2174 Asmodeus	12476	9	17	167023	23	45	14.886	-	3	28	48.35
70	2174 Asmodeus	11491	9	18	293396	23	44	9.221	-	3	25	50.74
71	2174 Asmodeus	11491	9	18	298279	23	44	8.907	-	3	25	50.00
72	2174 Asmodeus	11491	9	18	303131	23	44	8.612	-	3	25	49.22
73	2174 Asmodeus	12491	9	18	307983	23	44	8.315	-	3	25	48.57
74	2174 Asmodeus	12491	9	18	312836	23	44	8.019	-	3	25	47.82
75	2174 Asmodeus	12491	9	18	317719	23	44	7.725	-	3	25	46.81
76	2174 Asmodeus	11526	9	24	225342	23	38	26.588	-	3	9	36.94
77	2174 Asmodeus	11526	9	24	230194	23	38	26.296	-	3	9	36.17
78	2174 Asmodeus	11526	9	24	235077	23	38	26.003	-	3	9	35.39
79	2520 Novorossi js11456	11456	9	13	132629	23	46	13.994	-	3	57	27.69
80	2520 Novorossi js11456	11456	9	13	137848	23	46	13.747	-	3	57	28.77
81	2520 Novorossi js11456	11456	9	13	143066	23	46	13.501	-	3	57	29.82
82	2520 Novorossi js12467	12467	9	16	190613	23	43	46.807	-	4	6	28.79
83	2520 Novorossi js12467	12467	9	16	195496	23	43	46.578	-	4	6	29.54
84	2520 Novorossi js12467	12467	9	16	200348	23	43	46.341	-	4	6	30.70
85	2520 Novorossi js12476	12476	9	17	157288	23	43	0.066	-	4	9	18.30
86	2520 Novorossi js12476	12476	9	17	162140	23	42	59.767	-	4	9	19.14
87	2520 Novorossi js12476	12476	9	17	167023	23	42	59.512	-	4	9	20.15
88	2520 Novorossi js12491	12491	9	18	307983	23	42	3.972	-	4	12	38.76
89	2520 Novorossi js12491	12491	9	18	312836	23	42	3.714	-	4	12	39.84
90	2520 Novorossi js12491	12491	9	18	317719	23	42	3.474	-	4	12	40.69
91	2520 Novorossi js12526	12526	9	24	239929	23	37	18.037	-	4	29	18.61
92	2520 Novorossi js12526	12526	9	24	244781	23	37	17.817	-	4	29	19.40
93	2520 Novorossi js12526	12526	9	24	249664	23	37	17.576	-	4	29	20.12
94	2520 Novorossi js12546	12546	9	26	351746	23	35	38.330	-	4	34	50.47
95	2520 Novorossi js12546	12546	9	26	356598	23	35	38.107	-	4	34	51.44
96	2520 Novorossi js12546	12546	9	26	361450	23	35	37.869	-	4	34	52.00
97	2520 Novorossi js12557	12557	9	27	330902	23	34	52.766	-	4	37	19.22
98	2520 Novorossi js12557	12557	9	27	335754	23	34	52.547	-	4	37	20.05
99	2520 Novorossi js12557	12557	9	27	340637	23	34	52.341	-	4	37	20.91
100	2520 Novorossi js11562	11562	9	28	123260	23	34	16.522	-	4	39	17.81

NO	OBJECT	PLATE	DATE UT 1987		ALPHA 1950			DELTA 1950						
			MON	DAY	H	M	S	O	'	"				
101	2520 Novorossi	js11562	9	28	128113	23	34	16	275	-	4	39	18	49
102	2520 Novorossi	js11562	9	28	132996	23	34	16	072	-	4	39	19	49
103	2520 Novorossi	js11585	10	1	237152	23	31	56	292	-	4	46	33	74
104	2520 Novorossi	js11585	10	1	242004	23	31	56	065	-	4	46	34	66
105	2520 Novorossi	js11585	10	1	246887	23	31	55	841	-	4	46	35	61
106	3473 Sapporo	11467	9	16	176056	23	45	53	038	-	2	42	44	42
107	3473 Sapporo	11467	9	16	180908	23	45	52	772	-	2	42	46	23
108	3473 Sapporo	11467	9	16	185760	23	45	52	503	-	2	42	48	00
109	3473 Sapporo	11491	9	18	293396	23	43	56	447	-	2	55	49	00
110	3473 Sapporo	11491	9	18	298279	23	43	56	187	-	2	55	50	61
111	3473 Sapporo	11491	9	18	303131	23	43	55	919	-	2	55	52	24
112	1987 RK1	11456	9	13	132629	23	46	37	817	-	3	15	41	71
113	1987 RK1	11456	9	13	137848	23	46	37	500	-	3	15	44	36
114	1987 RK1	11456	9	13	143066	23	46	37	203	-	3	15	47	00
115	1987 RK1	12467	9	16	190613	23	43	44	463	-	3	42	14	61
116	1987 RK1	12467	9	16	195496	23	43	44	188	-	3	42	17	15
117	1987 RK1	12467	9	16	200348	23	43	43	908	-	3	42	19	53
118	1987 RK1	12476	9	17	157288	23	42	49	605	-	3	50	37	16
119	1987 RK1	12476	9	17	162140	23	42	49	324	-	3	50	39	77
120	1987 RK1	12476	9	17	167023	23	42	49	044	-	3	50	42	36
121	1987 RK1	12491	9	18	307983	23	41	43	848	-	4	0	30	47
122	1987 RK1	12491	9	18	312836	23	41	43	572	-	4	0	33	00
123	1987 RK1	12491	9	18	317719	23	41	43	296	-	4	0	35	41
124	1987 RK1	12526	9	24	239929	23	36	11	721	-	4	50	7	72
125	1987 RK1	12526	9	24	244781	23	36	11	452	-	4	50	10	17
126	1987 RK1	12526	9	24	249664	23	36	11	182	-	4	50	12	65
127	1987 RK1	11562	9	28	123260	23	32	44	535	-	5	20	39	34
128	1987 RK1	11562	9	28	128113	23	32	44	293	-	5	20	41	78
129	1987 RK1	11562	9	28	132996	23	32	44	042	-	5	20	44	00
130	1987 RK1	11585	10	1	237152	23	30	7	229	-	5	43	35	56
131	1987 RK1	11585	10	1	242004	23	30	6	983	-	5	43	37	65
132	1987 RK1	11585	10	1	246887	23	30	6	737	-	5	43	39	70
133	1987 RPI	12456	9	13	150360	23	44	51	430	-	1	22	21	30
134	1987 RPI	12456	9	13	155212	23	44	51	164	-	1	22	22	14
135	1987 RPI	12456	9	13	160065	23	44	50	901	-	1	22	22	89
136	1987 RPI	11467	9	16	176056	23	42	11	765	-	1	30	34	93
137	1987 RPI	11467	9	16	180908	23	42	11	482	-	1	30	35	80
138	1987 RPI	11467	9	16	185760	23	42	11	207	-	1	30	36	61
139	1987 RPI	11491	9	18	293396	23	40	18	060	-	1	36	29	79
140	1987 RPI	11491	9	18	298279	23	40	17	816	-	1	36	30	54
141	1987 RPI	11491	9	18	303131	23	40	17	561	-	1	36	31	26
142	1987 RPI	11526	9	24	225342	23	34	59	890	-	1	53	10	63
143	1987 RPI	11526	9	24	230194	23	34	59	629	-	1	53	11	25
144	1987 RPI	11526	9	24	235077	23	34	59	372	-	1	53	11	93
145	1987 RMI	11456	9	13	132629	23	48	5	313	-	4	21	50	77
146	1987 RMI	11456	9	13	137848	23	48	5	007	-	4	21	53	33
147	1987 RMI	11456	9	13	143066	23	48	4	702	-	4	21	56	00
148	1987 RMI	12467	9	16	190613	23	45	15	872	-	4	45	39	90
149	1987 RMI	12467	9	16	195496	23	45	15	602	-	4	45	41	93
150	1987 RMI	12467	9	16	200348	23	45	15	319	-	4	45	44	22

NO	OBJECT	PLATE	DATE UT 1987		ALPHA 1950			DELTA 1950						
			MON	DAY	H	M	S	O	'	"				
151	1987 RM1	12476	9	17	157288	23	44	20	009	-	4	53	9	92
152	1987 RM1	12476	9	17	162140	23	44	21	734	-	4	53	12	23
153	1987 RM1	12476	9	17	167023	23	44	21	460	-	4	53	14	52
154	1987 RM1	12491	9	18	307983	23	43	17	342	-	5	2	1	34
155	1987 RM1	12491	9	18	312836	23	43	17	070	-	5	2	3	53
156	1987 RM1	12491	9	18	317719	23	43	16	729	-	5	2	5	86
157	1987 RM1	12526	9	24	239929	23	37	48	466	-	5	46	24	34
158	1987 RM1	12526	9	24	244781	23	37	48	181	-	5	46	26	40
159	1987 RM1	12526	9	24	249664	23	37	47	911	-	5	46	28	57
160	1987 RM1	12539	9	26	103821	23	36	8	048	-	5	59	41	13
161	1987 RM1	12539	9	26	108673	23	36	7	796	-	5	59	43	30
162	1987 RM1	12539	9	26	113556	23	36	7	526	-	5	59	45	36
163	1987 RM1	11562	9	28	123260	23	34	21	235	-	6	13	36	15
164	1987 RM1	11562	9	28	128113	23	34	20	982	-	6	13	38	08
165	1987 RM1	11562	9	28	132996	23	34	20	732	-	6	13	40	09
166	1987 SV3	1246	9	16	190613	23	45	36	591	-	5	6	8	27
167	1987 SV3	12467	9	16	195496	23	45	36	266	-	5	6	8	25
168	1987 SV3	12467	9	16	200348	23	45	35	933	-	5	6	8	18
169	1987 SV3	12476	9	17	157288	23	44	32	647	-	5	5	7	59
170	1987 SV3	12476	9	17	162140	23	44	32	329	-	5	5	7	45
171	1987 SV3	12476	9	17	167023	23	44	31	291	-	5	5	7	34
172	1987 SV3	12491	9	18	307983	23	43	15	818	-	5	3	51	38
173	1987 SV3	12491	9	18	312836	23	43	15	492	-	5	3	51	18
174	1987 SV3	12491	9	18	317719	23	43	15	182	-	5	3	50	24
175	1987 SV3	12526	9	24	239929	23	36	46	843	-	4	56	9	27
176	1987 SV3	12526	9	24	244781	23	36	46	525	-	4	56	9	06
177	1987 SV3	12526	9	24	249664	23	36	46	212	-	4	56	8	75
178	1987 SV3	12546	9	26	351746	23	34	32	759	-	4	52	48	44
179	1987 SV3	12546	9	26	356598	23	34	32	451	-	4	52	47	87
180	1987 SV3	12546	9	26	361450	23	34	32	151	-	4	52	47	32
181	1987 SV3	12557	9	27	330902	23	33	32	012	-	4	51	6	46
182	1987 SV3	12557	9	27	335754	23	33	31	709	-	4	51	5	92
183	1987 SV3	12557	9	27	340637	23	33	31	404	-	4	51	5	32
184	1987 SV3	11562	9	28	123260	23	32	44	140	-	4	49	41	14
185	1987 SV3	11562	9	28	128113	23	32	43	828	-	4	49	41	02
186	1987 SV3	11562	9	28	132996	23	32	43	515	-	4	49	40	79
187	1987 SX11	11467	9	16	176056	23	41	50	821	-	2	37	3	64
188	1987 SX11	11467	9	16	180908	23	41	50	630	-	2	37	12	24
189	1987 SX11	11467	9	16	185760	23	41	50	443	-	2	37	20	85
190	1987 SX11	11476	9	17	142700	23	41	23	504	-	3	5	41	56
191	1987 SX11	11476	9	17	147583	23	41	23	345	-	3	5	50	19
192	1987 SX11	11476	9	17	152435	23	41	23	186	-	3	5	58	88
193	1987 SX11	12491	9	18	307983	23	40	49	341	-	3	40	30	26
194	1987 SX11	12491	9	18	312836	23	40	49	154	-	3	40	39	04
195	1987 SX11	12491	9	18	317719	23	40	48	979	-	3	40	47	82
196	1987 SX11	12539	9	26	103821	23	37	2	410	-	7	37	39	39
197	1987 SX11	12539	9	26	108673	23	37	2	246	-	7	37	48	29
198	1987 SX11	12539	9	26	113556	23	37	2	095	-	7	37	57	25
199	1987 RL1	11456	9	13	132629	23	47	48	456	-	3	22	51	86
200	1987 RL1	11456	9	13	137448	23	47	48	188	-	3	22	53	89

NO	OBJECT	PLATE	DATE UT 1987		ALPHA 1950			DELTA 1950						
			MON	DAY	H	M	S	0	'	''				
201	1987 RLI	11456	9	13	143066	23	47	47	223	-	3	22	56	00
202	1987 RLI	12467	9	16	190613	23	45	21	756	-	3	41	44	22
203	1987 RLI	12467	9	16	195496	23	45	21	522	-	3	41	46	13
204	1987 RLI	12467	9	16	200348	23	45	21	291	-	3	41	48	02
205	1987 RLI	12491	9	18	307983	23	43	39	089	-	3	54	38	86
206	1987 RLI	12491	9	18	312836	23	43	38	838	-	3	54	40	91
207	1987 RLI	12491	9	18	317719	23	43	38	585	-	3	54	43	00
208	1987 RLI	12526	9	24	239929	23	38	58	349	-	4	29	10	65
209	1987 RLI	12526	9	24	244781	23	38	58	115	-	4	29	12	39
210	1987 RLI	12526	9	24	249664	23	38	57	883	-	4	29	13	93
211	1987 RLI	11562	9	28	123260	23	36	7	033	-	4	49	33	73
212	1987 RLI	11562	9	28	128113	23	36	6	817	-	4	49	35	21
213	1987 RLI	11562	9	28	132996	23	36	6	603	-	4	49	36	68
214	1987 RLI	11585	10	1	237152	23	34	0	241	-	5	4	10	01
215	1987 RLI	11585	10	1	242004	23	34	0	043	-	5	4	11	37
216	1987 RLI	11585	10	1	246887	23	33	59	840	-	5	4	12	94
217	1987 RNI	11456	9	13	132629	23	48	10	943	-	3	22	51	49
218	1987 RNI	11456	9	13	137848	23	48	10	717	-	3	22	53	48
219	1987 RNI	11456	9	13	143066	23	48	10	510	-	3	22	55	55
220	1987 RNI	12467	9	16	190613	23	46	2	477	-	3	42	29	67
221	1987 RNI	12467	9	16	195496	23	46	2	272	-	3	42	31	54
222	1987 RNI	12467	9	16	200348	23	46	2	068	-	3	42	33	36
223	1987 RNI	12491	9	18	307983	23	44	31	500	-	3	56	7	76
224	1987 RNI	12491	9	18	312836	23	44	31	277	-	3	56	9	70
225	1987 RNI	12491	9	18	317719	23	44	31	059	-	3	56	11	57
226	1987 RNI	12526	9	24	239929	23	40	16	854	-	4	33	33	48
227	1987 RNI	12526	9	24	244781	23	40	16	637	-	4	33	35	33
228	1987 RNI	12526	9	24	249664	23	40	16	417	-	4	33	37	05
229	1987 RNI	11562	9	28	123260	23	37	35	892	-	4	56	42	72
230	1987 RNI	11562	9	28	128113	23	37	35	701	-	4	56	44	39
231	1987 RNI	11562	9	28	132996	23	37	35	512	-	4	56	46	00
232	1987 RNI	11585	10	1	237152	23	35	33	176	-	5	14	3	93
233	1987 RNI	11585	10	1	242004	23	35	32	980	-	5	14	5	57
234	1987 RNI	11585	10	1	246887	23	35	32	782	-	5	14	7	15
235	1987 SW11	11467	9	16	176056	23	39	14	254	-	3	0	55	23
236	1987 SW11	11467	9	16	180908	23	39	14	035	-	3	0	57	45
237	1987 SW11	11467	9	16	185760	23	39	13	794	-	3	0	59	71
238	1987 SW11	11476	9	17	142700	23	38	29	470	-	3	8	13	89
239	1987 SW11	11476	9	17	147583	23	38	29	261	-	3	8	16	09
240	1987 SW11	11476	9	17	152435	23	38	29	023	-	3	8	18	26
241	1987 SW11	11491	9	18	293396	23	37	35	876	-	3	16	54	29
242	1987 SW11	11491	9	18	298279	23	37	35	622	-	3	16	56	55
243	1987 SW11	11491	9	18	303131	23	37	35	395	-	3	16	58	77
244	1987 SW11	12510	9	23	110779	23	33	55	303	-	3	52	41	14
245	1987 SW11	12510	9	23	115631	23	33	55	084	-	3	52	43	31
246	1987 SW11	12510	9	23	120483	23	33	54	852	-	3	52	45	45
247	1987 SW11	11539	9	26	088531	23	31	42	817	-	4	14	6	79
248	1987 SW11	11539	9	26	093414	23	31	42	608	-	4	14	8	69
249	1987 SW11	11539	9	26	098267	23	31	42	392	-	4	14	10	73
250	1987 SW11	11467	9	16	176056	23	45	31	911	-	3	0	55	00

NO	OBJECT	PLATE	DATE III 1987		ALPHA 1950			DELTA 1950				
			MON.	DAY	H	M	S	0	'	"		
251	1987 SU11	11467	9	16	180908	23	45	31.679	-	3	0	57.24
252	1987 SU11	11467	9	16	185760	23	45	31.444	-	3	0	59.77
253	1987 SU11	11491	9	18	293396	23	43	52.077	-	3	17	11.00
254	1987 SU11	11491	9	18	298279	23	43	51.847	-	3	17	13.00
255	1987 SU11	11491	9	18	303131	23	43	51.648	-	3	17	14.91
256	1987 SU11	12526	9	24	239929	23	39	14.081	-	4	1	54.91
257	1987 SU11	12526	9	24	244781	23	39	13.844	-	4	1	56.77
258	1987 SU11	12526	9	24	249664	23	39	13.622	-	4	1	58.66
259	1987 SU11	11562	9	28	123260	23	36	22.093	-	4	29	16.21
260	1987 SU11	11562	9	28	128113	23	36	21.903	-	4	29	18.15
261	1987 SU11	11562	9	28	132996	23	36	21.692	-	4	29	20.03
262	1935 SP1	12526	9	24	239929	23	37	13.603	-	5	41	39.85
263	1935 SP1	12526	9	24	244781	23	37	13.162	-	5	41	36.48
264	1935 SP1	12526	9	24	249664	23	37	12.718	-	5	41	33.19
265	1935 SP1	12546	9	26	351746	23	34	2.165	-	5	18	54.77
266	1935 SP1	12546	9	26	356598	23	34	1.703	-	5	18	51.61
267	1935 SP1	12546	9	26	361450	23	34	1.249	-	5	18	48.47
268	1935 SP1	12557	9	27	330902	23	32	35.627	-	5	8	20.14
269	1935 SP1	12557	9	27	335754	23	32	35.199	-	5	8	17.08
270	1935 SP1	12557	9	27	340637	23	32	34.774	-	5	8	13.94
271	1935 SP1	11562	9	28	123260	23	31	27.253	-	4	59	47.26
272	1935 SP1	11562	9	28	128113	23	31	26.821	-	4	59	44.31
273	1935 SP1	11562	9	28	132996	23	31	26.385	-	4	59	41.38
274	1935 SP1	11571	9	30	309397	23	28	21.873	-	4	36	9.16
275	1935 SP1	11571	9	30	314240	23	28	21.481	-	4	36	5.92
276	1935 SP1	11571	9	30	319022	23	28	21.091	-	4	36	2.75
277	1935 SP1	11573	9	30	292004	23	27	26.783	-	4	28	46.21
278	1935 SP1	11573	9	30	297223	23	27	26.346	-	4	28	42.86
279	1935 SP1	11573	10	1	002441	23	27	25.914	-	4	28	39.72
280	1935 SP1	11592	10	2	031586	23	26	3.141	-	4	17	32.28
281	1935 SP1	11592	10	2	035065	23	26	2.858	-	4	17	30.08
282	1935 SP1	11592	10	2	039544	23	26	2.572	-	4	17	27.49
283	1935 SP1	11594	10	2	096191	23	25	57.822	-	4	16	50.38
284	1935 SP1	11594	10	2	098267	23	25	57.664	-	4	16	49.29
285	1935 SP1	11594	10	2	100342	23	25	57.493	-	4	16	48.24
286	1935 SP1	11602	10	3	223969	23	24	29.340	-	4	4	39.85
287	1935 SP1	11602	10	3	226746	23	24	29.129	-	4	4	38.00
288	1935 SP1	11602	10	3	229523	23	24	28.921	-	4	4	36.22
289	1987 SV11	12526	9	24	239929	23	40	26.207	-	5	34	2.26
290	1987 SV11	12526	9	24	244781	23	40	25.731	-	5	34	3.50
291	1987 SV11	12526	9	24	249664	23	40	25.650	-	5	34	4.83
292	1987 SV11	12546	9	26	351746	23	38	24.773	-	5	42	53.38
293	1987 SV11	12546	9	26	356598	23	38	24.529	-	5	42	54.62
294	1987 SV11	12546	9	26	361450	23	38	24.264	-	5	42	55.89
295	1987 SV11	11562	9	28	123260	23	36	44.777	-	5	50	3.76
296	1987 SV11	11562	9	28	128113	23	36	44.513	-	5	50	5.22
297	1987 SV11	11562	9	28	132996	23	36	44.237	-	5	50	6.41
298	1987 SV11	11585	10	1	237152	23	33	52.220	-	6	1	59.00
299	1987 SV11	11585	10	1	242004	23	33	51.958	-	6	2	0.10
300	1987 SV11	11585	10	1	246887	23	33	51.701	-	6	2	1.19

NO	OBJECT	PLATE	DATE UT 1987		ALPHA 1950			DELTA 1950				
			MON.	DAY	H	M	S	0	'	''		
301	1987 SL12	11467	9	16	176056	23	39	6.757	-	1	42	25.59
302	1987 SL12	11467	9	16	180908	23	39	6.534	-	1	42	27.00
303	1987 SL12	11467	9	16	185760	23	39	6.316	-	1	42	28.16
304	1987 SL12	11491	9	18	293396	23	37	30.624	-	1	52	19.05
305	1987 SL12	11491	9	18	298279	23	37	30.405	-	1	52	20.52
306	1987 SL12	11491	9	18	303131	23	37	30.183	-	1	52	22.00
307	1987 SY11	12539	9	26	103821	23	38	27.813	-	6	58	38.70
308	1987 SY11	12539	9	26	108673	23	38	27.470	-	6	58	39.24
309	1987 SY11	12539	9	26	113556	23	38	27.249	-	6	58	39.55

TABLE 2

NO	OBJECT	PLATE	DATE UT 1988		ALPHA 1950			DELTA 1950				
			MON.	DAY	H	M	S	0	'	''		
1	220 Stephania	1183	1	22	300694	9	59	27.392	+	1	50	7.00
2	220 Stephania	1183	1	22	310417	9	59	26.931	+	1	50	7.89
3	220 Stephania	11833	1	22	320139	9	59	26.474	+	1	50	8.76
4	220 Stephania	11862	1	24	307638	9	57	53.555	+	1	52	41.84
5	220 Stephania	11862	1	24	315971	9	57	53.144	+	1	52	42.33
6	220 Stephania	11862	1	24	324306	9	57	52.740	+	1	52	42.94
7	220 Stephania	12900	1	27	343750	9	55	23.492	+	1	57	49.37
8	220 Stephania	12900	1	27	353472	9	55	23.015	+	1	57	50.77
9	220 Stephania	12931	1	29	353472	9	53	39.346	+	2	2	0.30
10	220 Stephania	12931	1	29	363194	9	53	38.872	+	2	2	1.15
11	536 Merapi	11863	1	24	348612	10	7	28.440	+	3	49	9.32
12	536 Merapi	11863	1	24	356945	10	7	28.067	+	3	49	9.55
13	536 Merapi	11863	1	24	365278	10	7	27.711	+	3	49	10.54
14	539 Pamina	11834	1	22	335764	10	8	50.894	+	3	46	45.14
15	539 Pamina	11834	1	22	347569	10	8	50.384	+	3	46	45.70
16	539 Pamina	11834	1	22	359375	10	8	49.876	+	3	46	46.16
17	539 Pamina	12887	1	26	337152	10	6	3.046	+	3	52	0.50
18	539 Pamina	12887	1	26	347569	10	6	2.613	+	3	52	1.55
19	539 Pamina	12916	1	28	352083	10	4	32.829	+	3	55	27.27
20	539 Pamina	12916	1	28	361805	10	4	32.413	+	3	55	28.08
21	539 Pamina	12945	1	30	351389	10	2	59.914	+	3	59	21.71
22	539 Pamina	12945	1	30	361111	10	2	59.388	+	3	59	23.00
23	970 Primula	11769	1	17	336111	9	34	55.586	+	14	27	3.00
24	970 Primula	11769	1	17	345933	9	34	55.054	+	14	27	3.85
25	970 Primula	11769	1	17	355556	9	34	54.524	+	14	27	4.77
26	970 Primula	11780	1	18	305555	9	34	3.952	+	14	28	48.29
27	970 Primula	11780	1	18	315277	9	34	3.408	+	14	28	49.18
28	970 Primula	11806	1	20	313194	9	32	12.953	+	14	32	40.87
29	970 Primula	11806	1	20	322916	9	32	12.411	+	14	32	42.00
30	970 Primula	11831	1	22	242361	9	30	22.127	+	14	36	42.73
31	970 Primula	11831	1	22	252083	9	30	21.535	+	14	36	43.61
32	970 Primula	12944	1	30	306250	9	22	3.351	+	14	55	32.05
33	970 Primula	12944	1	30	315971	9	22	2.716	+	14	55	33.47
34	1181 Lilith	11732	1	14	215272	10	1	31.109	+	4	36	20.93
35	1181 Lilith	11732	1	14	225000	10	1	30.724	+	4	36	20.60
36	1181 Lilith	11732	1	14	234722	10	1	30.494	+	4	36	20.44
37	1181 Lilith	11745	1	15	267361	10	0	56.507	+	4	36	1.37
38	1181 Lilith	11745	1	15	277093	10	0	56.190	+	4	36	1.19
39	1181 Lilith	11745	1	15	286805	10	0	55.865	+	4	36	1.01
40	1315 Bronislawa	11833	1	22	300694	9	57	6.040	+	2	15	48.19
41	1315 Bronislawa	11833	1	22	310417	9	57	5.621	+	2	15	49.01
42	1315 Bronislawa	11833	1	22	320139	9	57	5.205	+	2	15	49.61
43	1315 Bronislawa	11842	1	23	320139	9	56	30.967	+	2	17	2.13
44	1315 Bronislawa	11842	1	23	328472	9	56	30.661	+	2	17	3.10
45	1315 Bronislawa	11842	1	23	336805	9	56	30.365	+	2	17	4.02
46	1315 Bronislawa	11862	1	24	307638	9	55	56.292	+	2	18	21.80
47	1315 Bronislawa	1186	1	24	315971	9	55	55.900	+	2	18	22.32
48	1315 Bronislawa	1186	1	24	324306	9	55	55.587	+	2	18	23.20
49	1315 Bronislawa	12875	1	25	340272	9	55	18.886	+	2	19	53.38
50	1315 Bronislawa	12875	1	25	350000	9	55	18.510	+	2	19	54.20

NO	OBJECT	PLATE	DATE UT 1988		ALPHA 1950			DELTA 1950				
			MON	DAY	H	M	S	0	'	''		
51	1315 Bronislawa	12900	1	27	343750	9	54	3.983	+	2	23	14.47
52	1315 Bronislawa	12900	1	27	353472	9	54	3.621	+	2	23	15.46
53	1315 Bronislawa	12931	1	29	353472	9	52	45.871	+	2	27	8.44
54	1315 Bronislawa	12931	1	29	363194	9	52	45.507	+	2	27	9.62
55	1905 Ambartsumian	11818	1	21	277082	9	44	48.991	+	9	26	31.76
56	1905 Ambartsumian	11818	1	21	286806	9	44	48.492	+	9	26	33.89
57	1905 Ambartsumian	11818	1	21	296528	9	44	47.977	+	9	26	35.94
58	1905 Ambartsumian	11832	1	22	277082	9	44	1.842	+	9	30	3.22
59	1905 Ambartsumian	11832	1	22	286806	9	44	1.317	+	9	30	5.53
60	1905 Ambartsumian	11861	1	24	280556	9	42	23.104	+	9	37	33.77
61	1905 Ambartsumian	11861	1	24	288889	9	42	22.682	+	9	37	36.19
62	1905 Ambartsumian	11861	1	24	297222	9	42	22.236	+	9	37	38.08
63	1905 Ambartsumian	11887	1	26	315971	9	40	37.071	+	9	45	51.66
64	1905 Ambartsumian	11887	1	26	325695	9	40	36.576	+	9	45	54.08
65	1905 Ambartsumian	11916	1	28	331249	9	38	47.077	+	9	54	37.00
66	1905 Ambartsumian	11916	1	28	340973	9	38	46.552	+	9	54	39.83
67	1905 Ambartsumian	11945	1	30	330555	9	36	53.608	+	10	3	48.52
68	1905 Ambartsumian	11945	1	30	340279	9	36	53.010	+	10	3	51.76
69	2173 Maresjev	11833	1	22	300694	9	59	33.458	+	1	25	43.48
70	2173 Maresjev	11833	1	22	310417	9	59	33.129	+	1	25	45.76
71	2173 Maresjev	11833	1	22	320139	9	59	32.801	+	1	25	48.07
72	2714 Matti	11860	1	24	260416	9	36	30.612	+	14	25	10.17
73	2714 Matti	11860	1	24	270140	9	36	30.083	+	14	25	14.07
74	2714 Matti	12886	1	26	293751	9	34	41.625	+	14	38	58.55
75	2714 Matti	12886	1	26	303473	9	34	41.092	+	14	39	1.73
76	2714 Matti	12915	1	28	307638	9	32	49.535	+	14	52	55.51
77	2714 Matti	12915	1	28	317362	9	32	48.966	+	14	52	58.69
78	3047 Goethe	11769	1	17	336111	9	37	26.834	+	14	24	2.21
79	3047 Goethe	11769	1	17	345833	9	37	26.465	+	14	24	4.00
80	3047 Goethe	11769	1	17	355556	9	37	26.045	+	14	24	5.56
81	3047 Goethe	11780	1	18	305555	9	36	45.474	+	14	26	54.00
82	3047 Goethe	11780	1	18	315277	9	36	45.094	+	14	26	55.20
83	3047 Goethe	11806	1	20	313194	9	35	16.024	+	14	33	4.10
84	3047 Goethe	11806	1	20	322916	9	35	15.580	+	14	33	6.01
85	3047 Goethe	11831	1	22	342361	9	33	45.769	+	14	39	18.55
86	3047 Goethe	11831	1	22	252083	9	33	45.277	+	14	39	20.25
87	3047 Goethe	11860	1	24	260416	9	32	6.981	+	14	46	6.58
88	3047 Goethe	11860	1	24	270140	9	32	6.477	+	14	46	8.60
89	3047 Goethe	12886	1	26	293751	9	30	23.548	+	14	53	12.00
90	3047 Goethe	12886	1	26	303473	9	30	23.019	+	14	53	14.01
91	3047 Goethe	12915	1	28	307638	9	28	37.709	+	15	0	25.75
92	3047 Goethe	12915	1	28	317362	9	28	37.256	+	15	0	27.91
93	3047 Goethe	12944	1	30	306250	9	26	49.980	+	15	7	43.81
94	3047 Goethe	12944	1	30	315971	9	26	49.476	+	15	7	46.00
95	1988BM3	11769	1	17	336111	9	35	14.510	+	13	41	36.79
96	1988BM3	11769	1	17	345833	9	35	14.153	+	13	41	38.05
97	1988BM3	11769	1	17	355556	9	35	13.809	+	13	41	39.38
98	1988BM3	11780	1	18	305555	9	34	37.674	+	13	43	17.07
99	1988BM3	11780	1	18	315277	9	34	37.257	+	13	43	18.21
100	1988BM3	11806	1	20	313194	9	33	15.431	+	13	47	8.29

NO	OBJECT	PLATE	DATE UT 1988		ALPHA 1950			DELTA 1950			
			MON	DAY	H	M	S	0	'	''	
101	1988BM3	11806	1	20	322916	9	33	15.039	+13	47	9.64
102	1988BM3	11831	1	22	242361	9	31	50.022	+13	51	20.85
103	1988BM3	11831	1	22	252083	9	31	49.540	+13	51	22.06
104	1988BM3	11860	1	24	260416	9	30	13.790	+13	56	13.56
105	1988BM3	11860	1	24	270140	9	30	13.305	+13	56	15.11
106	1988BM3	12886	1	26	293751	9	28	30.579	+14	1	35.07
107	1988BM3	12886	1	26	303473	9	28	30.086	+14	1	36.59
108	1988BM3	12915	1	28	307638	9	26	42.950	+14	7	16.84
109	1988BM3	12915	1	28	317362	9	26	42.454	+14	7	18.25
110	1988BM3	12944	1	30	306250	9	24	51.451	+14	13	15.42
111	1988BM3	12944	1	30	315971	9	24	50.858	+14	13	17.41
112	1988BD2	11769	1	17	336111	9	38	3.308	+13	23	11.74
113	1988BD2	11769	1	17	345833	9	38	2.885	+13	23	16.12
114	1988BD2	11769	1	17	355556	9	38	2.490	+13	23	20.45
115	1988BD2	11780	1	18	305555	9	37	23.540	+13	30	25.02
116	1988BD2	11780	1	18	315277	9	37	23.160	+13	30	28.74
117	1988BD2	11806	1	20	313194	9	35	56.467	+13	45	47.35
118	1988BD2	11806	1	20	322916	9	35	56.004	+13	45	51.34
119	1988BD2	11831	1	22	242361	9	34	27.611	+14	1	4.35
120	1988BD2	11831	1	22	252083	9	34	27.149	+14	1	8.45
121	1988BD2	11860	1	24	260416	9	32	49.228	+14	17	32.48
122	1988BD2	11860	1	24	270140	9	32	48.758	+14	17	37.25
123	1988BD2	12886	1	26	293751	9	31	5.281	+14	34	32.61
124	1988BD2	12886	1	26	303473	9	31	4.752	+14	34	37.88
125	1988BD2	12915	1	28	307638	9	29	18.273	+14	51	42.23
126	1988BD2	12915	1	28	317362	9	29	17.733	+14	51	46.80
127	1988BD2	12944	1	30	306250	9	27	28.680	+15	9	0.81
128	1988BD2	12944	1	30	315971	9	27	28.126	+15	9	3.90
129	1988BL4	11818	1	21	277082	9	44	23.732	+9	14	34.47
130	1988BL4	11818	1	21	286806	9	44	23.323	+9	14	35.74
131	1988BL4	11818	1	21	296528	9	44	22.936	+9	14	37.00
132	1988BL4	11832	1	22	277082	9	43	44.421	+9	16	31.26
133	1988BL4	11832	1	22	286806	9	43	44.054	+9	16	32.64
134	1988BL4	11861	1	24	290556	9	42	23.022	+9	20	45.03
135	1988BL4	11861	1	24	298889	9	42	22.677	+9	20	46.05
136	1988BL4	11861	1	24	297222	9	42	22.327	+9	20	47.16
137	1988BL4	11887	1	26	315971	9	40	56.967	+9	25	25.00
138	1988BL4	11887	1	26	325695	9	40	56.557	+9	25	26.32
139	1988BL4	11916	1	28	331249	9	39	28.682	+9	30	23.30
140	1988BL4	11916	1	28	340973	9	39	28.271	+9	30	24.73
141	1988BL4	11945	1	30	330555	9	37	58.617	+9	35	38.48
142	1988BL4	11945	1	30	340279	9	37	58.179	+9	35	40.00
143	1988BK4	11818	1	21	277082	9	43	38.311	+9	43	1.00
144	1988BK4	11818	1	21	286806	9	43	37.946	+9	43	5.73
145	1988BK4	11818	1	21	296528	9	43	37.604	+9	43	11.00
146	1988BK4	11832	1	22	277082	9	43	2.815	+9	51	38.78
147	1988BK4	11832	1	22	286806	9	43	2.492	+9	51	44.47
148	1988BK4	11861	1	24	290556	9	41	49.092	+10	9	22.17
149	1988BK4	11861	1	24	298889	9	41	48.769	+10	9	26.72
150	1988BK4	11861	1	24	297222	9	41	48.467	+10	9	31.16

NO	OBJECT	PLATE	DATE UT 1988		ALPHA 1950			DELTA 1950					
			MON	DAY	H	M	S	0'	'	"			
151	1988BK4	11887	1	26	315971	9	40	30	517	+10	27	51	48
152	1988BK4	11887	1	26	325695	9	40	30	120	+10	27	56	41
153	1988BK4	11916	1	28	331249	9	39	9	646	+10	46	34	29
154	1988BK4	11916	1	28	340273	9	39	9	215	+10	46	39	70
155	1988BK4	11945	1	30	330555	9	37	46	622	+11	5	31	90
156	1988BK4	11945	1	30	340279	9	37	46	311	+11	5	37	09
157	1988AHS	11732	1	14	215272	9	59	55	781	+3	40	22	92
158	1988AHS	11732	1	14	225000	9	59	55	502	+3	40	21	02
159	1988AHS	11732	1	14	234722	9	59	55	256	+3	40	19	20
160	1988AHS	11745	1	15	267361	9	59	25	604	+3	37	26	21
161	1988AHS	11745	1	15	277083	9	59	25	298	+3	37	24	67
162	1988AHS	11745	1	15	286805	9	59	25	012	+3	37	23	06
163	1988AHS	11848	1	23	320139	9	54	32	132	+3	21	49	79
164	1988AHS	11848	1	23	328472	9	54	31	756	+3	21	49	02
165	1988AHS	11848	1	23	336805	9	54	31	377	+3	21	48	24
166	1988AHS	12875	1	25	340279	9	53	2	250	+3	19	51	47
167	1988AHS	12875	1	25	350000	9	53	1	917	+3	12	51	00
168	1988AHS	12900	1	27	343750	9	51	27	462	+3	12	39	75
169	1988AHS	12900	1	27	353472	9	51	26	223	+3	12	39	41
170	1988AHS	12931	1	29	353472	9	49	47	102	+3	12	13	23
171	1988AHS	12931	1	29	363124	9	49	46	524	+3	12	13	77
172	1988B04	11833	1	22	300624	10	0	35	220	+2	26	54	52
173	1988B04	11833	1	22	310417	10	0	35	607	+2	26	54	41
174	1988B04	11833	1	22	320139	10	0	35	237	+2	26	54	21
175	1988B04	11848	1	23	320139	9	59	57	770	+2	26	39	34
176	1988B04	11848	1	23	328472	9	59	57	432	+2	26	39	15
177	1988B04	11848	1	23	336805	9	59	57	122	+2	26	39	24
178	1988B04	11862	1	24	307638	9	59	19	211	+2	26	32	62
179	1988B04	11862	1	24	315971	9	59	19	477	+2	26	32	65
180	1988B04	11862	1	24	324306	9	59	19	141	+2	26	32	61
181	1988B04	12875	1	25	340279	9	58	39	053	+2	26	34	62
182	1988B04	12875	1	25	350000	9	58	38	668	+2	26	34	64
183	1988B04	12900	1	27	343750	9	57	17	188	+2	27	1	17
184	1988B04	12900	1	27	353472	9	57	16	768	+2	27	1	27
185	1988B04	12931	1	29	353472	9	55	51	550	+2	27	59	08
186	1988B04	12931	1	29	363124	9	55	51	102	+2	27	59	26
187	1988BP4	11834	1	22	335764	10	10	19	418	+4	43	0	27
188	1988BP4	11834	1	22	347569	10	10	18	264	+4	43	1	19
189	1988BP4	11834	1	22	352375	10	10	18	507	+4	43	2	50
190	1988BP4	11863	1	24	348612	10	8	58	737	+4	46	42	26
191	1988BP4	11863	1	24	356945	10	8	58	376	+4	46	43	21
192	1988BP4	11863	1	24	365278	10	8	58	039	+4	46	44	29
193	1988BP4	12887	1	26	337152	10	7	34	010	+4	50	57	61
194	1988BP4	12887	1	26	347569	10	7	33	588	+4	50	59	27
195	1988BP4	12916	1	28	352083	10	6	3	483	+4	55	52	50
196	1988BP4	12916	1	28	361205	10	6	3	004	+4	55	53	94
197	1988BP4	1294	1	30	351382	10	4	29	352	+5	1	20	73
198	1988BP4	129	1	30	361111	10	4	28	881	+5	1	23	00
199	1981UV1	11769	1	17	336111	9	38	50	204	+14	35	34	76
200	1981UV1	11769	1	17	345833	9	38	49	774	+14	35	36	50

NO	OBJECT	PLATE	DATE UT 1988		ALPHA 1950			DELTA 1950			
			MON.	DAY	H	M	S	0	'	''	
201	1981WV1	11769	1	17	355556	9	38	49.367	+14	35	38.90
202	1981WV1	11780	1	18	305555	9	38	11.489	+14	38	32.80
203	1981WV1	11780	1	18	315277	9	38	11.054	+14	38	35.02
204	1981WV1	11806	1	20	313194	9	36	48.158	+14	44	54.05
205	1981WV1	11806	1	20	322916	9	36	47.759	+14	44	55.87
206	1981WV1	11831	1	22	242361	9	35	24.571	+14	51	15.36
207	1981WV1	11831	1	22	252083	9	35	24.154	+14	51	16.92
208	1981WV1	11860	1	24	260416	9	33	53.509	+14	58	7.64
209	1981WV1	11860	1	24	270140	9	33	53.047	+14	58	9.54
210	1981WV1	12886	1	26	293751	9	32	18.532	+15	5	14.01
211	1981WV1	12886	1	26	303473	9	32	18.044	+15	5	16.04
212	1981WV1	12915	1	28	307638	9	30	41.630	+15	12	26.00
213	1981WV1	12915	1	28	317362	9	30	41.138	+15	12	28.12
214	1981WV1	12944	1	30	306250	9	29	3.116	+15	19	41.86
215	1981WV1	12944	1	30	315971	9	29	2.579	+15	19	43.93
216	1988BN3	11769	1	17	336111	9	39	35.960	+14	29	19.08
217	1988BN3	11769	1	17	345833	9	39	35.613	+14	29	20.74
218	1988BN3	11769	1	17	355556	9	39	35.257	+14	29	22.38
219	1988BN3	12886	1	26	293751	9	31	59.564	+15	12	37.44
220	1988BN3	12886	1	26	303473	9	31	59.027	+15	12	42.25
221	1978GR3	11780	1	18	305555	9	35	9.137	+13	4	12.00
222	1978GR3	11780	1	18	315277	9	35	8.716	+13	4	13.64
223	1978GR3	11806	1	20	313194	9	33	52.692	+13	10	39.27
224	1978GR3	11806	1	20	322916	9	33	52.289	+13	10	41.69
225	1978GR3	11831	1	22	242361	9	32	35.452	+13	17	12.61
226	1978GR3	11831	1	22	252083	9	32	35.042	+13	17	14.56
227	1978GR3	11860	1	24	260416	9	31	10.659	+13	24	24.22
228	1978GR3	11860	1	24	270140	9	31	10.262	+13	24	26.26
229	1978GR3	12886	1	26	293751	9	29	41.573	+13	31	56.63
230	1978GR3	12886	1	26	303473	9	29	41.150	+13	31	58.90
231	1978GR3	12915	1	28	307638	9	28	10.297	+13	39	40.20
232	1978GR3	12915	1	28	317362	9	28	9.870	+13	39	42.66
233	1978GR3	12944	1	30	306250	9	26	36.984	+13	47	34.22
234	1978GR3	12944	1	30	315971	9	26	36.554	+13	47	36.54

**АСТРОМЕТРИЈСКИ ПОЛОЖАЈИ 40 МАЛИХ ПЛАНЕТА
СНИМЉЕНИХ СА ЕСО – ЛА СИЛА 1987-1988**

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УДК 523.44
Стручни чланак

У току фебруара 1987. године и периода септембар-октобар 1988. године снимљено је 40 малих планета и изведено 543 прецизних положаја са опсерваторије ЕСО, Ла Сила у

Чилеу. Том приликом откривени су нови астероиди, укупно 21. За шест нових В. Протић-Бенишек и Д. Олевић су извели орбиталне елементе.