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Observations of Comets and Asteroids at the Klet Observatory in the Year 1970

A. MRKOS

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The routine programme of comet observations at the Klet Observatory is continued. A list of precise observations of comets and two asteroids obtained at the Observatory during the year 1970 is presented.

The positions of comets were obtained by means of the instrument described in [1]. Only the rectangular coordinates were measured on the Zeiss coordinate comparator 3030 (Komess) of the Klet Observatory.

The author wishes to express his thanks to Mrs. R. Petrovičová and Mrs. E. Klojdová for their active help in all tasks.

Reference

- [1] MRKOS A.: AUC – Mat. Phys. 11, 29 (1970).

Periodic Comet Comas-Solá (1968g)

Plate No.	1970 UT	α (1950.0)	δ (1950.0)	Observer
404	Jan 4.95163	11 ^h 35 ^m 45.24 ^s	+24°48'34.9"	Mrkos
	4.95927	11 35 45.71	+24 48 31.6	Mrkos
407	7.03956	11 37 37.79	+24 59 12.8	Mrkos
416	12.99762	11 42 02.38	+25 33 24.6	Mrkos
420	14.01838	11 42 38.80	+25 39 49.9	Mrkos
426	14.89935	11 43 08.69	+25 45 24.1	Mrkos
432	Feb. 1.98299	11 46 00.33	+27 54 14.9	Petrovičová
439	6.92307	11 44 27.11	+28 29 28.1	Mrkos
448	Mar. 7.80624	11 22 38.26	+30 16 30.7	Mrkos
456	9.91451	11 20 46.28	+30 14 27.4	Petrovičová
461	10.83451	11 19 57.98	+30 13 03.9	Mrkos
466	29.84547	11 06 37.83	+28 45 53.5	Mrkos
469	30.81968	11 06 10.31	+28 38 47.4	Mrkos
476	Apr. 1.83229	11 05 18.30	+28 23 31.6	Mrkos
482	3.82166	11 04 33.28	+28 07 31.7	Petrovičová
487	5.84021	11 03 54.19	+27 50 34.3	Mrkos
493	8.90626	11 03 07.85	+27 23 26.2	Petrovičová
499	10.83581	11 02 47.09	+27 05 27.6	Petrovičová

Reference Stars Numbers

404	SAOSC	081904	081911	081942	081929	081920	081887
407	SAOSC	081942	081911	081910	081913	081950	AGK 2 +24°1244
416	SAOSC	081942	081946	081962	081979	081993	AGK 2 +25°1288
420	SAOSC	081942	081946	081979	081962	081993	AGK 2 +25°1288
426	SAOSC	081942	081946	081979	081962	081993	AGK 2 +25°1288
432	SAOSC	081996	081992	081971	081989	082004	082032
439	SAOSC	082004	081900	081976	081971	081992	081996
448	SAOSC	062545	062537	062547	062578	062563	AGK 2 +30°1131
456	SAOSC	062545	062537	062498	081793	AGK 2	+30°1129
	AGK 2	+29°1197					
461	SAOSC	062545	062537	062498	081793	AGK 2	+30°1129
	AGK 2	+29°1197					
466	SAOSC	081699	081701	081670	081666	AGK 2	+28°1156
	AGK 2	+28°1158					
469	SAOSC	081699	081701	081670	081666	AGK 2	+28°1156
	AGK 2	+28°1158					
476	SAOSC	081699	081701	081670	081663	081653	AGK 2 +28°1156
482	SAOSC	081699	081690	081663	081653	081667	081685
487	SAOSC	081699	081690	081663	081653	081667	081685
493	SAOSC	081668	081660	081654	081685	AGK 2	+27°1113
	AGK 2	+27°1117					
499	SAOSC	081685	081667	081643	081669	AGK 2	+27°1113

Periodic Comet Faye (1969a)

Plate No.	1970 UT	α (1950.0)	δ (1950.0)	Observer
403	Jan. 4.93531	5 ^h 13 ^m 31.78 ^s	+5°36'55.6"	Mrkos
406	6.80137	5 13 25.03	+5 45 25.1	Petrovičová
415	12.92366	5 13 45.11	+6 17 46.7	Petrovičová
419	14.00588	5 13 55.54	+6 24 07.4	Mrkos
424	14.76081	5 14 04.60	+6 28 32.5	Petrovičová
430	Feb. 1.83818	5 22 19.25	+8 29 53.8	Mrkos
434	3.75808	5 23 42.31	+8 43 25.1	Petrovičová
438	6.85779	5 26 07.06	+9 05 17.3	Petrovičová
442	10.83295	5 29 32.32	+9 32 55.9	Mrkos

Reference Stars Numbers

403	SAOSC	112598	112585	112533	112547	112569	112590
406	SAOSC	112598	112585	112533	112569	112590	
415	SAOSC	112594	112571	112609	112559	112569	112590
419	SAOSC	112594	112609	112571	112559	112569	112590
424	SAOSC	112594	112609	112600	112571	112559	112569
430	SAOSC	112742	112769	112789	112759	112723	112612
434	SAOSC	112742	112769	112789	112815	112759	112728
438	SAOSC	112815	112854	112812	112753	112859	112789
442	SAOSC	112922	112926	094643	094603	112854	112868

Comet Kohoutek (1969b)

Plate No.	1970 UT	α (1950.0)	δ (1950.0)	Observer
405	Jan. 6.70414	19 ^h 04 ^m 08.30 ^s	+35°28'05.2"	Mrkos
409	7.70141	19 05 43.11	+35 47 11.2	Mrkos
411	11.73981	19 12 23.71	+37 09 03.7	Mrkos
422	14.71393	19 17 37.88	+38 14 21.1	Mrkos
427	Feb. 1.72325	19 57 03.87	+46 22 18.9	Mrkos
443	11.75128	20 28 07.53	+52 02 15.2	Mrkos
445	Mar. 7.76666	22 49 25.59	+66 15 24.3	Mrkos
455	9.86104	23 09 32.32	+67 09 50.1	Mrkos
485	10.78347	23 18 51.76	+67 31 21.2	Mrkos
464	29.82028	2 54 04.82	+67 16 32.0	Mrkos
467	30.78936	3 03 26.02	+66 53 23.1	Mrkos
471	31.79786	3 12 49.53	+66 27 38.4	Mrkos
474	Apr. 1.79271	3 21 44.28	+66 00 45.7	Mrkos
483	3.83532	3 38 57.35	+65 01 34.7	Mrkos
485	5.81606	3 54 19.89	+63 59 57.3	Mrkos
491	8.87437	4 15 40.69	+62 18 35.6	Mrkos
507	May 4.85214	6 04 19.52	+47 09 21.6	Mrkos
513	6.86521	6 09 39.96	+46 04 31.6	Mrkos
523	9.86740	6 17 10.74	+44 30 12.0	Mrkos
526	24.86473	6 48 41.66	+37 20 46.6	Mrkos

Reference Stars Numbers

405	SAOSC	067824	067776	067739	067766	067713	067754
409	SAOSC	067713	067828	067840	067894	067893	067754
411	SAOSC	068029	068044	068030	068021	067930	067986
422	SAOSC	068133	068096	068100	068139	068169	
427	SAOSC	049042	049074	049037	048992	AGK 2	+46°1551
	AGK 2	+46°1539					
443	SAOSC	032646	032663	032635	032610	AGK 2	+52°1398
	AGK 2	+51°1464					
445	SAOSC	020298	020277	020297	AGK 2	+66°1150	AGK 2 +66°1148
	AGK 2	+66°1145					
455	SAOSC	020492	020496	020453	020425	020430	020482
458	SAOSC	020598	020636	020590	020513	020482	020492
464	SAOSC	012540	012506	012504	012582	AGK 2	+67°167
	AGK 2	+67°168					
467	SAOSC	012643	012654	012607	012622	AGK 2	+67°176
	AGK 2	+67°167					
471	SAOSC	012643	012705	AGK 2	+66°181	AGK 2	+67°176
	AGK 2	+66°187	AGK 2	+66°193			
474	SAOSC	012730	012794	012773	AGK 2	+66°189	AGK 2 +66°193
	AGK 2	+66°196					
483	SAOSC	012906	012880	012841	012863	012898	AGK 2 +65°223
485	SAOSC	012977	012991	013001	012992	012970	012958
491	SAOSC	013115	013106	013079	013082	013096	013105
507	SAOSC	040890	040836	040827	040873	040915	AGK 2 +47°578
513	SAOSC	040943	040961	040994	040976	040885	040884
523	SAOSC	041047	041049	041033	041022	041044	AGK 2 +43°693
526	SAOSC	59616	59540	59507	59545	59602	AGK 2 +38°755

Periodic Comet Whipple (1969c)

Plate No.	1970 UT	α (1950.0)	δ (1950.0)	Observer
647	Sept. 29.07488	1 ^h 22 ^m 52.71 ^s	+6°35'08.8"	Mrkos
	29.09641	1 22 52.12	+6 34 57.7	Mrkos
651	29.94542	1 22 28.89	+6 27 39.8	Mrkos
	29.96729	1 22 28.26	+6 27 29.2	Mrkos
666	Nov. 23.80396	1 02 17.71	+0 20 03.0	Mrkos
669	25.80638	1 02 30.08	+0 16 38.0	Mrkos
675	26.75714	1 02 38.43	+0 15 19.3	Mrkos
677	26.85402	1 02 38.98	+0 15 14.2	Mrkos
680	27.84264	1 02 49.00	+0 14 05.6	Mrkos
683	28.75312	1 02 58.10	+0 13 12.8	Mrkos
687	Dec. 19.72258	1 12 04.36	+0 38 13.1	Petrovičová

Reference Stars Numbers

647	SAOSC	109871	109850	109874	109888	109901	109892
651	SAOSC	109871	109850	109874	109888	109901	109892
666	SAOSC	109668	109686	109663	109633	109612	129102
669	SAOSC	109668	109686	109663	109633	109612	129102
675	SAOSC	109668	109686	109663	109633	109612	129102
677	SAOSC	109668	109686	109663	109633	109612	129102
680	SAOSC	129113	109686	109663	109633	109612	129102
683	SAOSC	129113	109686	109663	109633	109612	129102
687	SAOSC	109728	109746	109762	109797	109782	129194

Comet Tago-Sato-Kosaka (1969g)

Plate No.	1970 UT	α (1950.0)	δ (1950.0)	Observer
428	Feb. 1.73193	1 ^h 59 ^m 30.39 ^s *	+20°59'53.2"	Mrkos
433	3.74593	2 10 33.94	+24 42 05.6	Mrkos
436	6.80536	2 25 18.26	+29 11 09.8	Mrkos
441	10.80865	2 42 25.45	+33 43 07.7	Mrkos
444	11.77686	2 46 09.60	+34 36 46.0	Mrkos
446	Mar. 7.77707	3 56 09.78	+45 54 18.6	Mrkos
451	9.78639	4 01 00.34	+46 22 32.3	Mrkos
459	10.79493	4 03 23.00	+46 36 05.4	Mrkos
465	29.83213	4 46 04.58	+49 37 49.6	Mrkos
470	30.83380	4 48 13.41	+49 44 39.4	Mrkos
472	31.82841	4 50 22.00	+49 51 15.7	Mrkos
475	Apr. 1.80418	4 52 27.45	+49 57 39.7	Mrkos
481	3.80672	4 56 44.39	+50 10 02.8	Mrkos
486	5.82738	5 01 02.14	+50 21 51.2	Mrkos
492	8.88647	5 07 30.77	+50 38 34.6	Mrkos
498	10.81897	5 11 34.42	+50 48 41.9	Mrkos

Reference Stars Numbers

428	SAOSC	075120	075130	075124	075091	075073	075089
433	SAOSC	075213	075222	075190	075182	075197	AGK 2 +24°202
436	SAOSC	075376	075390	075397	075375	075342	AGK 2 +28°280
441	SAOSC	055814	055840	055854	055911	055882	055802
444	SAOSC	055909	055019	055022	055014	055867	AGK 2 +34°287
446	SAOSC	039215	039235	039258	039263	039218	AGK 2 +45°403
451	SAOSC	039308	039333	039263	039248	039264	AGK 2 +45°413
459	SAOSC	039305	039310	039344	039360	039333	AGK 2 +46°388
465	SAOSC	039768	039749	039735	039830	039774	AGK 2 +49°542
470	SAOSC	039830	039780	039797	039884	039870	AGK 2 +49°542
472	SAOSC	039830	039870	039884	024914	024863	039797
475	SAOSC	039877	039830	024863	024914	024947	AGK 2 +50°488
481	SAOSC	024995	024974	024931	039877	039924	AGK 2 +49°551
486	SAOSC	024963	024974	024998	025025	025030	039993
492	SAOSC	025097	025091	025073	025044	025030	040116
498	SAOSC	025097	025114	025130	025099	025073	025044

Comet Čurjumov-Gerasimenko (1969h)

<i>Plate No.</i>	<i>1970 UT</i>		<i>α (1950.0)</i>	<i>δ (1950.0)</i>	<i>Observer</i>
408	Jan.	7.05588	11 ^h 32 ^m 38.48 ^s	+15°15'04.8"	Mrkos
		7.06699	11 32 38.86	+15 15 12.4	Mrkos
418		13.05109	11 32 41.05	+15 40 58.8	Mrkos
421		14.03539	11 32 33.07	+15 45 28.4	Mrkos
431	Feb.	1.96111	11 22 06.86	+17 46 40.4	Mrkos
440		6.94390	11 17 16.85	+18 21 48.2	Mrkos
449	Mar.	7.82846	10 43 51.33	+20 41 18.6	Mrkos
456 A		9.89264	10 41 44.07	+20 44 19.4	Mrkos
462		10.85882	10 40 46.00	+20 45 32.3	Mrkos

Reference Stars Numbers

408	SAOSC	099688	099665	099667	099680	099710	099701
418	SAOSC	099688	099669	099667	099675	099702	099701
	AGK 2	+15°1245					
421	SAOSC	099688	099669	099667	099675	099702	099701
	AGK 2	+15°1245					
431	SAOSC	099592	099577	099575	099606	099614	AGK 2+18°1120
440	SAOSC	099554	099569	099575	099573	099557	099528
449	SAOSC	081536	081521	081498	081535	081539	AGK 2+20°1205
456 A	SAOSC	081515	081522	081501	081472	081471	AGK 2+20°1205
462	SAOSC	081515	081522	081501	081472	081471	AGK 2+20°1205

Comet Bennett (1969i)

<i>Plate No.</i>	<i>1970 UT</i>		<i>α (1950.0)</i>	<i>δ (1950.0)</i>	<i>Observer</i>
490	Apr.	6.13417	22 ^h 37 ^m 50.32 ^s	+31°56'05.6"	Mrkos
495		10.11325	22 53 52.75	+39 40 56.5	Mrkos
502		11.10552	22 58 10.54	+41 20 29.4	Mrkos
506		12.12223	23 02 38.98	+42 56 06.4	Mrkos
510	May	4.91059	00 50 32.68	+61 31 27.9	Mrkos
512		5.05771	00 51 13.51	+61 34 59.7	Mrkos
514		6.88344	00 59 28.14	+62 16 00.2	Mrkos
518		7.06990	1 00 19.46	+62 20 05.8	Mrkos
520		8.86900	1 08 18.39	+62 56 45.8	Mrkos
522		9.07352	1 09 11.48	+63 01 46.6	Mrkos
524		9.87765	1 12 42.43	+63 16 01.3	Mrkos
525		10.05300	1 13 28.85	+63 19 19.9	Mrkos
528		24.94894	2 12 42.47	+66 44 38.5	Mrkos
531		29.93824	2 30 08.45	+67 33 14.4	Mrkos
535		30.04569	2 30 30.72	+67 34 16.6	Mrkos
538	Jun.	6.99789	2 55 57.25	+68 41 21.0	Mrkos
540		7.04546	2 56 05.82	+68 41 45.2	Mrkos
544		22.91238	3 39 05.13	+70 38 40.8	Mrkos

Plate No.	1970 UT	α (1950.0)	δ (1950.0)	Observer
545	23.90073	3 ^h 41 ^m 27.19 ^s	+70°45'44.4"	Mrkos
549	24.93336	3 43 53.78	+70 53 11.1	Mrkos
551	25.94880	3 46 15.57	+71 00 26.6	Mrkos
554	26.95311	3 48 33.26	+71 07 42.3	Mrkos
555	27.88708	3 50 39.04	+71 14 24.1	Mrkos
559	29.94418	3 55 11.05	+71 29 20.7	Mrkos
562	Jul. 1.96334	3 59 28.74	+71 44 09.8	Mrkov
566	2.97326	4 01 34.35	+71 51 38.6	Mrkos
568	3.03854	4 01 42.50	+71 52 07.0	Mrkos
569	4.97674	4 05 37.03	+72 06 35.4	Mrkos
571	5.03229	4 05 43.23	+72 07 00.4	Mrkos
574	6.96206	4 09 28.22	+72 21 38.5	Mrkos
575	7.01935	4 09 35.39	+72 22 03.8	Mrkos
578	7.95200	4 11 20.80	+72 29 08.9	Mrkos
579	26.93236	4 39 34.06	+75 06 59.7	Mrkos
583	27.96361	4 40 37.56	+75 16 24.1	Mrkos
586	28.02440	4 40 40.88	+75 16 56.8	Mrkos
589	28.90358	4 41 32.24	+75 25 03.7	Mrkos
594	29.05253	4 41 40.61	+75 26 27.5	Mrkos
597	Aug. 2.01625	4 44 57.25	+76 04 00.1	Petrovičová
600	4.99854	4 46 42.50	+76 32 44.1	Petrovičová
602	5.99227	4 47 10.91	+76 42 35.2	Petrovičová
605	6.97867	4 47 33.31	+76 52 23.8	Petrovičová
624	Sept. 2.87854	4 11 06.32	+81 32 35.7	Mrkos
627	7.85963	3 47 06.45	+82 16 51.6	Mrkos
632	8.09192	3 45 47.70	+82 18 43.6	Mrkos
636	22.81457	1 49 53.51	+83 07 50.3	Mrkos
638	23.88044	1 40 13.61	+83 04 30.4	Mrkos
642	28.13523	1 03 23.09	+82 40 51.5	Mrkos
644	28.89675	0 57 13.08	+82 34 40.2	Mrkos
650	29.80513	0 50 04.69	+82 27 09.3	Mrkos
657	Oct. 27.81421	23 03 39.64	+74 52 15.3	Mrkos

Reference Stars Numbers

490	SAOSC	072604	072555	072577	072619	072667	072642
495	SAOSC	072870	052471	072812	072819	072882	072897
502	SAOSC	052578	052625	052632	052574	052543	052502
506	SAOSC	052698	052709	052672	052642	052623	AGK 2 +43°2198
510	SAOSC	011430	011459	011499	011488	AGK 2	+61°77 AGK 2
							+61°72
512	SAOSC	011430	011459	011499	011488	AGK 2	+61°77 AGK 2
							+61°72
514	SAOSC	011563	011492	011511	011553	AGK 2	+62°97 AGK 2
							+62°105
518	SAOSC	011563	011519	011492	011511	011553	AGK 2
							+62°105

520	SAOSC AGK 2	011640 +62°117	011683	AGK 2	+63°123	AGK 2	+63°100 AGK2 +62°108
522	SAOSC AGK 2	011640 +62°117	011683	AGK 2	+63°123	AGK 2	+63°100AGK2 +62°108
524	SAOSC	011651	011686	011716	011694	011669	AGK 2 + 63°123
525	SAOSC	011651	011686	011716	011694	011669	AGK 2 +63°123
528	SAOSC	12255	12249	12199	12161	12177	12218
531	SAOSC	12310	12345	12364	12351	12335	AGK 2 +67°136
535	SAOSC	12310	12345	12364	12351	12335	AKG 2 +67°136
538	SAOSC	012555	012520	012511	012569	AGK 2	+68°155 012548
540	SAOSC	012555	012520	012511	012548	012569	AGK 2 + 68°155
544	SAOSC AGK 2	005009 +70°173	005015	004948	AGK 2	+71°124	AGK 2 + 70°174
545	SAOSC AGK 2	005009 +70°173	005015	004948	AGK 2	+71°124	AGK 2 + 70°174
549	SAOSC AGK 2	005017 +70°175	004988	005015	005029	AGK 2	+70°173
551	SAOSC	005039	004988	004997	005015	005054	AGK 2 + 70°173
554	SAOSC	004988	004992	005015	005054	005063	005040
555	SAOSC	005003	005015	005054	005063	005049	004988
559	SAOSC	005049	005079	005124	005105	005063	005029
562	SAOSC	005049	005079	005124	005105	005063	005029
566	SAOSC	005049	005079	005124	005148	005105	005063
568	SAOSC	005049	005079	005124	005148	005105	005063
569	SAOSC	005112	005148	005151	005132	005066	005079
571	SAOSC	005112	005148	005151	005132	005066	005079
574	SAOSC	005112	005148	005186	005132	005079	AGK 2 + 73°109
575	SAOSC	005112	005148	005186	005132	005079	AGK 2 + 73°109
578	SAOSC	005112	005148	005186	005132	005079	AGK 2 + 73°109
579	SAOSC	005290	005224	005244	005279	005335	AGK 2 + 74°111
585	SAOSC	005335	005279	005224	005244	005295	AGK 2 + 74°115
586	SAOSC	005335	005279	005224	005244	005295	AGK 2 + 74°115
589	SAOSC	005371	005316	005229	005224	005295	AGK 2 + 74°115
594	SAOSC	005371	005316	005229	005224	005295	AGK 2 + 74°115
597	SAOSC	005347	005335	005391	005373	005304	005351
600	SAOSC	005351	005333	005304	005313	005352	005375
602	SAOSC	005351	005304	005313	005318	005352	005375
605	SAOSC	005340	005313	005318	005336	005364	005375
624	SAOSC	000696	000668	000649	000663	AGK 2	+81°122 000651
627	SAOSC	000641	000642	000613	000588	000601	000614
632	SAOSC	000617	000613	000580	000588	000590	000614
636	SAOSC	000287	000293	000315	000343	000334	000200
638	SAOSC	000287	000315	000293	000267	000249	000246
642	SAOSC	000160	000157	000192	000229	000238	000174
644	SAOSC	000157	000139	000138	000154	000174	000192
650	SAOSC	000160	000157	000139	000095	000127	000174
657	SAOSC	010634	010622	010605	010585	010607	010624

Periodic Comet Pons-Wienercke (1970b)

<i>Plate No.</i>	<i>1970 UT</i>	α (1950.0)	δ (1950.0)	<i>Observer</i>
564	July 2.91591	13 ^h 27 ^m 44.26 ^s	+9°28'28.9"	Mrkos

Reference Stars Numbers

564	SAOSC	119967	119989	119985	119938	119937	119955
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Periodic Comet Kopff (1970c)

<i>Plate No.</i>	<i>1970 UT</i>	α (1950.0)	δ (1950.0)	<i>Observer</i>
532	May 29.95734	12 ^h 55 ^m 10.08 ^s	+ 2°17'09.2"	Mrkos
536	June 6.93400	12 56 02.22	+ 1 46 23.3	Mrkos
556	29.89487	13 10 25.00	— 1 01 45.1	Mrkos
560	July 1.92064	13 12 28.81	— 1 21 23.2	Mrkos
563	2.89091	13 13 30.83	— 1 31 01.6	Mrkos
576	7.90166	13 19 16.13	— 2 23 19.4	Mrkos

Reference Stars Numbers

532	SAOSC	119684	119675	119664	119665	119707	119694
536	SAOSC	119684	119705	119722	119694	119687	119675
556	SAOSC	139219	139245	139254	139264	139198	139188
560	SAOSC	139219	139222	139254	139264	139241	139233
563	SAOSC	139219	139222	139254	139263	139274	139241
576	SAOSC	139335	139331	139317	139274	139291	139336

Comet ABE (1970g)

<i>Plate No.</i>	<i>1970 UT</i>	α (1970.0)	δ (1950.0)	<i>Observer</i>
582	July 26.97663	2 ^h 17 ^m 58.96 ^s	+ 34°50'54.1"	Mrkos
584	27.97613	2 17 31.13	+ 35 31 46.0	Mrkos
587	28.03725	2 17 29.36	+ 35 34 19.1	Mrkos
591	28.96608	2 16 59.72	+ 36 13 36.8	Mrkos
595	29.06017	2 16 56.43	+ 36 17 39.8	Mrkos
596	Aug. 1.99438	2 14 04.66	+ 39 19 11.9	Petrovičová
598	4.97840	2 10 52.82	+ 41 54 40.7	Petrovičová
601	5.97456	2 09 33.58	+ 42 50 29.8	Petrovičová
604	6.96652	2 08 05.87	+ 43 48 00.6	Petrovičová
607	13.95963	1 51 50.68	+ 51 39 05.6	Petrovičová
610	14.99561	1 48 08.60	+ 52 59 25.3	Petrovičová
612	25.91557	0 11 54.11	+ 69 05 11.0	Petrovičová
613	26.88905	23 52 37.03	+ 70 25 36.8	Petrovičová
617	27.93544	23 28 13.61	+ 71 43 38.5	Petrovičová

Plate No.	1970 UT	α (1950.0)	δ (1950.0)	Observer
618	28.92348	23 ^h 01 ^m 26.52 ^s	+72°45'57.8"	Petrovičová
621	30.89289	21 57 46.86	+74 03 02.6	Petrovičová
622	31.88351	21 22 19.67	+74 11 36.5	Petrovičová
626	Sept. 2.91049	20 10 54.63	+73 19 03.3	Mrkos
629	7.89748	18 09 36.88	+66 09 49.9	Mrkos
633	8.79751	17 56 07.24	+64 28 27.5	Mrkos
635	22.79860	16 30 29.78	+39 09 56.9	Mrkos
637	23.78062	16 28 11.75	+37 44 06.2	Mrkos
640	27.78213	16 20 38.28	+32 25 34.9	Mrkos
643	28.81272	16 19 03.97	+31 11 10.6	Mrkos
649	29.78811	16 17 41.40	+30 03 26.4	Mrkos
654	Oct. 27.71942	15 59 59.65	+ 9 41 35.0	Mrkos
658	30.73014	15 59 12.72	+ 8 19 09.9	Mrkos
662	31.72432	15 58 58.54	+ 7 53 11.0	Mrkos

Reference Stars Numbers

582	SAOSC	055490	055441	055473	AGK 2	+35°209	AGK 2 +34°228
	AGK 2	+34°233					
584	SAOSC	055507	055505	055412	055423	AGK 2	+35°209
	AGK 2	+36°216					
587	SAOSC	055507	055505	055412	055423	AGK 2	+35°209
	AGK 2	+36°216					
591	SAOSC	055489	055444	055399	055423	055461	AGK 2 +36°226
595	SAOSC	055489	055444	055399	055423	AGK 2	+36°226 055461
596	SAOSC	055394	055379	055400	055443	055454	055439
598	SAOSC	037870	037853	037851	037892	037923	037903
601	SAOSC	037843	037811	037826	037916	AGK 2	+43°263
	AGK 2	+43°269					
604	SAOSC	037863	037828	037777	037825	037835	037859
607	SAOSC	022760	022685	022679	022747	022773	022803
610	SAOSC	022676	022722	022692	022677	022643	AGK 2 +52°190
612	SAOSC	011087	011009	011022	AGK 2	+69°14	AGK 2 +68°9
	AGK 2	+68°13					
613	SAOSC	010914	010927	010886	010859	010876	AGK 2 +70°844
617	SAOSC	010741	010748	010782	010774	010763	010733
618	SAOSC	010593	010661	010656	010608	010566	010565
621	SAOSC	010237	010225	010208	010177	010236	AGK 2 +73°575
622	SAOSC	010053	010008	010003	010012	010052	010080
626	SAOSC	009638	009678	009726	009684	009673	009633
629	SAOSC	017815	017829	017772	017801	AGK 2	+66°824
	AGK 2	+66°820					
633	SAOSC	017706	017730	017678	017675	017676	AGK 2 +65°854
635	SAOSC	065381	065408	065386	065362	065331	065334
637	SAOSC	065358	065330	065327	065355	065379	AGK 2 +37°1484
640	SAOSC	065265	065253	065255	065281	AGK 2	+32°1402
	AGK 2	32°1414					

643	SAOSC	065252	065224	065236	065266	AGK 2	+31°1410
	AGK 2	+ 30°1504					
649	SAOSC	084200	084282	065100	065230	065246	084319
654	SAOSC	121321	121347	121356	101902	101309	101318
658	SAOSC	121302	121304	121332	121341	121327	121305
662	SAOSC	121310	121332	121353	121322	121303	121295

Periodic Comet Encke (1970i)

<i>Plate No.</i>	<i>1970 UT</i>	α (1950.0)	δ (1950.0)	<i>Observer</i>
663	Nov. 17.82249	22 ^h 02 ^m 53.17 ^s	+ 19°47'12.7"	Mrkos
665	23.72878	21 32 42.24	+ 15 44 38.4	Mrkos
668	25.75811	21 22 44.59	+ 14 17 32.1	Mrkos
674	26.80992	21 17 37.91	+ 13 31 44.4	Mrkos
679	27.76694	21 13 03.18	+ 12 49 48.8	Mrkos
682	28.75035	21 08 27.46	+ 12 07 17.7	Mrkos
684	Dec. 4.69288	20 40 15.46	+ 7 36 32.6	Mrkos
685	6.70553	20 30 40.56	+ 6 01 51.8	Mrkos
686	19.69269	19 23 22.45	— 5 15 51.7	Mrkos

Reference Stars Numbers

663	SAOSC	107652	107686	107700	090223	090185	107588
665	SAOSC	107273	107257	107254	107213	107199	107303
668	SAOSC	107147	107132	107111	107091	107097	107124
674	SAOSC	107057	107056	107028	107000	107048	107062
679	SAOSC	106958	107007	107013	106970	106943	106919
682	SAOSC	106913	106870	106857	106864	106904	106919
684	SAOSC	126096	126089	126092	126129	126178	126151
685	SAOSC	125965	125986	125979	125936	125890	125892
686	SAOSC	143394	143349	143364	143396	143448	143423

Periodic Comet Jackson-Neujmin (1970k)

<i>Plate No.</i>	<i>1970 UT</i>	α (1950.0)	δ (1950.0)	<i>Observer</i>
648	Sept. 29.14850	4 ^h 59 ^m 50.60 ^s	+ 2°41'11.3"	Mrkos
653	30.04889	5 00 55.35	+ 2 29 01.6	Mrkos
	30.06972	5 00 57.60	+ 2 28 56.2	Mrkos

Reference Stars Numbers

648	SAOSC	112327	112336	112357	112368	112378	112356
693	SAOSC	112397	112378	112327	112336	112357	112414

Comet Suzuki-Sato-Seki (1970m)

<i>Plate No.</i>	<i>1970 UT</i>	α (1950.0)	δ (1950.0)	<i>Observer</i>
655	Oct. 27.72706	16 ^h 42 ^m 03.17 ^s	+ 3°01'01.2"	Mrkos
659	30.73691	16 57 46.93	+ 5 45 45.9	Mrkos
664	Nov. 23.71715	18 37 07.13	+21 13 26.4	Mrkos
667	25.73624	18 44 08.27	+22 08 17.1	Mrkos
673	26.71825	18 47 30.49	+22 34 04.3	Mrkos
678	27.75063	18 50 59.97	+23 00 32.5	Mrkos
681	28.71562	18 54 15.95	+23 24 57.0	Mrkos

Reference Stars Numbers

655	SAOSC	121801	121807	121847	121839	121833	121815
659	SAOSC	121960	122021	122040	122035	121976	121959
664	SAOSC	086280	086305	086313	086257	086242	086234
667	SAOSC	086383	086397	086436	086480	086463	086357
673	SAOSC	086499	086436	086492	086553	086520	AGK 2 + 21°1893
678	SAOSC	086551	086569	086564	086504	086499	086509
681	SAOSC	086569	086579	086613	086646	086642	086565

Asteroid (887) Alinda

<i>Plate No.</i>	<i>1970 UT</i>	α (1950.0)	δ (1950.0)	<i>Observer</i>
410	Jan. 7.71704	3 ^h 34 ^m 18.01 ^s	+ 8°34'09.9"	Mrkos
	7.72097	3 34 18.67	+ 8 34 24.7	Mrkos
412	12.82366	3 50 20.95	+13 36 36.9	Mrkos
	12.82713	3 50 21.54	+13 36 50.6	Mrkos

Reference Stars Numbers

410	SAOSC	111325	111323	111271	111265	111260	111337
412	SAOSC	93664	93648	93638	93631	93655	93674

Asteroid (1055) Tynka

<i>Plate No.</i>	<i>1970 UT</i>	α (1950.0)	δ 1950.0)	<i>Observer</i>
543	June 22.88009	16 ^h 39 ^m 03.11 ^s	—12°11'03.8"	Mrkos
	22.89363	16 39 02.33	—12 11 05.9	Mrkos
547	24.89447	16 37 18.73	—12 14 21.6	Mrkos
550	25.90626	16 36 26.66	—12 16 19.0	Mrkos
565	July 2.94196	16 31 27.11	—12 34 34.8	Mrkos
	2.95619	16 31 26.28	—12 34 38.0	Mrkos

Reference Stars Numbers

543	SAOSC	160058	160034	160026	160043	160066	160071
547	SAOSC	160058	160009	160034	160011	160028	160049
550	SAOSC	160041	160034	160009	160011	160028	160049
565	SAOSC	159975	159973	159961	159996	160009	160011