

COMET OBSERVATIONS MADE AT THE SKALNATÉ PLESO OBSERVATORY IN THE YEARS 1981-1982

E.M. Pittich

Astronomical Institute of the Slovak Academy of Sciences, Tatranská Lomnica, Interplanetary Matter Division, 842 28 Bratislava, Dúbravská cesta
Czechoslovakia

J. Svoreň

Astronomical Institute of the Slovak Academy of Sciences, Skalnaté Pleso Observatory, 059 60 Tatranská Lomnica, Czechoslovakia

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ABSTRACT. The paper presents the results of position photographing of comets carried out at the Skalnaté Pleso Observatory in the years 1981-1982. 67 observations of 5 comets are given together with the list of reference stars and dependences.

1. INTRODUCTION

The presented paper is a continuation of previous papers which give the results of positional observations of comets made at the Skalnaté Pleso Observatory and contains positional comet observations made in the years 1981-1982. The reduction constants as well as method of observation and processing and all the other necessary data which need not be repeated here are given in the last paper of this series (Pittich, Svoreň; 1989). A list of reference stars and dependences and a list of collaborators are also given, together with their share in photographing, measuring and reducing the positions.

2. POSITIONS OF COMETS

The data have been arranged according to individual comets in the order of their definitive designation. The individual columns of the tables containing the following:

N - ordinal number of observation,
 Date U.T. - date and time of the middle of the exposure,
 R.A.₁₉₅₀ - right ascension for equinox 1950.0,
 Decl.₁₉₅₀ - declination for equinox 1950.0,
 t - the exposure time in minutes,
 O - observer,
 M - measurer,
 R - reduction.

N	Date U.T.	R.A. ₁₉₅₀	Decl. ₁₉₅₀	t	O	M	R
Periodic Comet Stephan-Oterma (1980 X)							
1	1981 Jan. 8.00625	5 ^h 35 ^m 05.80 ^s	+38 ^o 12'49.1"	10	G	R	S
2	Jan. 8.04653	5 35 06.82	+38 13 39.8	10	G	R	S
3	Jan. 9.96111	5 36 01.06	+38 51 11.1	10	G	R	S
4	Jan. 11.01319	5 36 34.52	+39 10 48.4	10	G	R	S
5	Jan. 11.04792	5 36 35.70	+39 11 22.9	10	G	R	S
6	Jan. 28.78646	5 52 22.64	+43 02 24.4	15	J	E	S
7	Jan. 28.83924	5 52 26.14	+43 02 51.0	15	J	F	S
8	Jan. 29.74444	5 53 33.44	+43 10 03.7	12	J	J	P
9	Jan. 29.80556	5 53 38.22	+43 10 28.2	12	J	E	S
10	Jan. 30.80417	5 54 53.89	+43 18 00.0	12	J	J	P
11	Jan. 30.86319	5 54 58.13	+43 18 26.1	12	J	E	S
12	Feb. 2.97778	5 59 07.97	+43 38 42.3	12	J	J	P
13	Feb. 3.01736	5 59 11.13	+43 38 57.1	12	J	J	P
14	Feb. 6.81701	6 04 42.18	+43 57 58.5	15	G	G	P
15	Feb. 6.87118	6 04 47.03	+43 58 14.2	21	G	G	P
Comet Panther (1981 II)							
1	1981 Jan. 30.05625	19 08 58.89	+52 57 41.8	8	J	J	P
2	Jan. 30.10694	19 09 01.39	+52 59 32.7	8	J	E	S
3	Feb. 26.80625	19 35 16.51	+75 42 22.3	2	G	E	S
4	Feb. 26.81458	19 35 18.66	+75 42 53.2	10	G	E	S
5	Apr. 7.80660	7 58 13.11	+60 40 05.3	7	G	F	S
6	Apr. 7.84826	7 58 15.80	+60 37 43.6	7	G	F	S
7	Apr. 8.90868	7 59 21.79	+59 37 46.7	7	G	F	S
8	Apr. 8.92743	7 59 22.82	+59 36 44.2	7	G	F	S
9	Apr. 11.94479	8 02 27.99	+56 51 22.7	3	G	E	S
10	Apr. 11.96285	8 02 29.02	+56 50 23.4	3	G	E	S
11	Apr. 12.87326	8 03 24.22	+56 02 04.5	3	G	E	S
12	Apr. 12.88993	8 03 25.10	+56 01 13.1	3	G	E	S

N	Date U. T.	R. A. 1950	Decl. 1950	t	O	M	R
Comet Bowell (1982 I)							
1	1982 March 28.07882	17 ^h 58 ^m 37.12 ^s	-22 ^o 14'56.1"	20	S	R	S
2	March 28.12361	17 58 39.74	-22 14 50.1	20	S	R	S
3	April 21.02257	18 14 37.72	-22 13 29.6	15	F	F	S
4	April 21.07049	18 14 38.91	-22 13 31.5	15	F	F	S
Comet Austin (1982 VI)							
1	1982 Aug. 27.08571	11 46 47.47	+44 48 50.6	20	R	R	S
2	Aug. 27.09826	11 46 52.43	+44 48 55.0	9	R	R	S
3	Sep. 11.08854	12 36 36.06	+42 05 18.5	20	R	R	S
4	Sep. 11.10729	12 36 37.39	+42 04 57.6	10	R	R	S
5	Sep. 16.09583	12 42 33.00	+40 47 00.7	4	F	F	S
6	Sep. 16.10208	12 42 33.80	+40 46 53.7	4	F	F	S
7	Sep. 18.09502	12 44 23.78	+40 16 12.3	5	R	R	S
8	Sep. 18.10220	12 44 24.33	+40 16 05.4	5	R	R	S
9	Sep. 21.09236	12 46 45.25	+39 31 17.2	10	R	R	S
10	Sep. 21.10434	12 46 45.88	+39 31 08.0	10	R	R	S
11	Sep. 26.12535	12 49 59.71	+38 20 03.2	15	R	R	S
12	Sep. 27.10174	12 50 32.64	+38 06 57.1	7	F	F	S
13	Sep. 27.11007	12 50 32.83	+38 06 47.2	7	F	F	S
14	Oct. 28.12940	13 02 22.13	+33 26 51.4	10	R	R	S
15	Oct. 28.14236	13 02 22.25	+33 26 46.3	10	R	R	S
16	Nov. 16.09826	13 04 44.80	+32 51 38.1	15	R	R	S
17	Nov. 16.11285	13 04 44.60	+32 51 39.0	15	R	R	S
18	Nov. 23.10382	13 04 07.76	+33 05 24.0	15	F	E	S
19	Nov. 24.15868	13 03 56.59	+33 08 44.8	15	F	R	S
20	Nov. 24.17188	13 03 56.51	+33 08 46.6	15	F	R	S
Periodic Comet Churyumov-Gerasimenko (1982 VIII)							
1	1982 Oct. 15.91163	5 03 20.93	+19 04 41.4	30	R	R	S
2	Oct. 15.95851	5 03 28.69	+19 05 30.4	30	R	R	S
3	Oct. 17.98958	5 09 26.44	+19 42 30.0	30	R	R	S
4	Oct. 18.05116	5 09 36.66	+19 43 34.7	30	R	R	S
5	Oct. 18.89178	5 12 04.98	+19 59 03.2	30	R	R	S
6	Oct. 18.92049	5 12 09.86	+19 59 36.4	30	R	R	S
7	Nov. 11.87152	6 18 16.16	+27 48 25.1	10	R	R	S
8	Nov. 15.86123	6 27 37.25	+29 07 58.9	10	R	R	S
9	Nov. 23.08618	6 42 30.27	+31 28 58.2	10	F	F	S
10	Nov. 23.13750	6 42 35.64	+31 29 55.2	10	F	F	S
11	Nov. 23.88819	6 44 00.19	+31 44 09.5	10	R	R	S
12	Nov. 23.91771	6 44 03.11	+31 44 43.7	10	R	R	S
13	Nov. 24.89931	6 45 48.33	+32 03 12.1	10	R	R	S
14	Nov. 24.92801	6 45 51.18	+32 03 45.0	10	R	R	S
15	Dec. 14.72535	7 08 12.58	+37 23 16.2	10	R	R	S
16	Dec. 14.77431	7 08 14.07	+37 23 54.8	10	R	R	S

3. REFERENCE STARS AND DEPENDENCES

The individual columns of the tables containing the following:
 N - ordinal number of the observation in agreement with the Section 2,
 Catalogue - the catalogue of the reference stars,
 Numbers of stars and dependences,
 A - the difference between independent determinations of α in arc seconds,
 B - the difference between independent determinations of δ in arc seconds,
 C - notes.

N	Catalogue	Numbers of stars and dependences			A	B	C
Periodic Comet Stephan-Oterma (1980 X)							
1	SAO 1	58132 .26253	58298 .63735	40648 .10012	0.4	0.6	
		40455 .21217	58219 .56977	58460 .21806			
2	SAO 1	58132 .26427	58298 .63273	40648 .10300	1.3	0.1	
		40455 .21541	58219 .56496	58460 .21963			
3	SAO 1	58132 .33071	58298 .42983	40648 .23946	1.4	0.5	
		40455 .35554	58219 .34850	58460 .29596			
4	SAO 1	58132 .36129	58298 .32408	40648 .31463	0.9	0.5	
		40455 .42395	58219 .23418	58460 .34187			
5	SAO 1	58132 .36197	58298 .32102	40648 .31701	1.3	1.1	
		40455 .42587	58219 .23080	58460 .34333			
		58252 .36262	58302 .20398	58350 .43340			
		58266 .39989	58326 .26638	58330 .33373			
6	SAO 1	40675 .13188	40702 .19450	40715 .67362	0.9	0.8	a
		49671 .10913	40687 .38150	40732 .50937			
		40644 .24402	40691 .44448	40794 .31150			
		40628 .34084	40723 .42808	40816 .23108			
7	SAO 1	40675 .39982	40724 .25709	40738 .34309	1.1	0.5	
		40675 .38707	40702 .37553	40782 .23740			
8	SAO 1	40711 .75001	40754 .06436	40767 .18563	0.8	0.7	
		40702 .34247	40715 .52275	40804 .13478			
9	SAO 1	40675 .41435	40751 .23515	40777 .35050	0.2	0.2	
		40687 .28856	40702 .27807	40767 .43337			
10	SAO 1	40711 .40397	40754 .19165	40767 .40438	0.4	1.3	
		40702 .46655	40733 .22070	40804 .31275			
11	SAO 1	40699 .52078	40777 .32578	40832 .15344	0.0	0.0	
		40671 .32938	40768 .43536	40822 .23526			
12	SAO 1	40767 .20458	40793 .51119	40852 .28423	1.2	0.9	
		40754 .34409	40804 .07745	40832 .57846			
13	SAO 1	40767 .19151	40793 .51739	40852 .29110	0.2	0.4	
		40754 .33690	40804 .06673	40832 .59637			

N	Catalogue	Numbers of stars and dependences				A	B	C
14	SAO 1	40822 .29439	40893 .40636	40928 .29925				
		40808 .28271	40893 .44471	40938 .27258	0.6	0.8		
15	SAO 1	40822 .28179	40893 .41439	40928 .30382				
		40808 .27342	40893 .44816	40938 .27842	3.5	0.9		
Comet Panther (1981 II)								
1	SAO 1	31375 .16095	31437 .33021	31466 .50884				
		31383 .20334	31426 .37555	31477 .42111	0.3	0.4		
2	SAO 1	31362 .36572	31478 .22147	31493 .41281				
		31385 .30018	31427 .44978	31528 .25004	0.4	0.2		
3	SAO 1	9418 .35215	9464 .36012	9538 .28773				
		9373 .25428	9473 .31460	9524 .43112	0.8	0.6	a	
4	SAO 1	9418 .34669	9464 .36669	9538 .28662				
		9373 .25063	9473 .32142	9524 .42795	1.0	0.5		
5	SAO 1	14387 .33005	14406 .41897	14441 .25098				
		14387 .35396	14391 .33491	14455 .31113	0.6	0.1		
6	SAO 1	14387 .35628	14406 .36900	14441 .27472				
		14387 .38583	14391 .29701	14455 .31716	0.3	0.4		
7	SAO 1	14385 .27309	26606 .40637	26725 .32054				
		14387 .33733	26606 .43755	26765 .22512	1.1	0.5		
8	SAO 1	14385 .25928	26606 .42143	26725 .31929				
		14387 .32256	26606 .45323	26765 .22421	0.2	0.2		
9	SAO 1	26602 .29620	26655 .29765	26722 .40615				
		26592 .24370	26647 .37676	26729 .37954	0.7	0.4		
10	SAO 1	26602 .30082	26655 .28741	26722 .41177				
		26592 .24715	26647 .36876	26729 .38409	0.3	0.3		
11	SAO 1	26622 .28631	26686 .54535	26727 .16834				
		26615 .08031	26651 .59647	26732 .32322	1.2	1.0		
12	SAO 1	26622 .27930	26686 .56015	26727 .16055				
		26615 .06975	26651 .60983	26732 .32042	1.3	1.2		
Comet Bowell (1982 I)								
1	SAO 3	186008 .26994	186083 .33476	186251 .39530				
		186049 .22960	186075 .49010	186274 .28030	0.4	0.7	a	
2	SAO 3	186008 .26481	186083 .33347	186251 .40172				
		186049 .22476	186075 .48839	186274 .28685	0.4	1.0	a	
3	SAO 3	186487 .26108	186634 .27518	186644 .46374				
		186482 .36060	186625 .38763	186737 .25177	0.2	1.3		
4	SAO 3	186487 .25769	186634 .27664	186644 .46567				
		186482 .35822	186625 .38821	186737 .25357	0.8	1.4		

N	Catalogue	Numbers of stars and dependences						A	B	C
Comet Austin (1982 VI)										
1	SAO 1	43830 .23493	43893 .44209	43987 .32298						
		43872 .29940	43921 .44803	43928 .25257	2.0	0.6				
2	SAO 1	43830 .23033	43893 .44369	43987 .32598						
		43872 .29113	43921 .45418	43928 .25469	1.0	2.4				
3	SAO 1	44232 .20055	44271 .65309	44294 .14636						
		44237 .21560	44274 .12933	44275 .65507	0.9	2.9				
4	SAO 1	44232 .19600	44271 .65902	44294 .14498						
		44237 .21166	44274 .12451	44275 .66383	1.5	1.7				
5	SAO 1	44264 .28628	44321 .46601	44351 .24771						
		44282 .33266	63159 .35472	44351 .31262	0.7	0.0			a	
6	SAO 1	44264 .28457	44321 .46750	44351 .24793						
		44282 .32947	63159 .35710	44351 .31343	0.4	1.4				
7	SAO 1	63128 .44254	44328 .20789	63249 .34957						
		63128 .36964	44300 .22851	63249 .40185	0.2	1.6				
8	SAO 1	63128 .44246	44328 .20676	63249 .35078						
		63128 .36993	44300 .22733	63249 .40274	0.1	1.2				
9	SAO 1	63191 .37369	63193 .35945	63242 .26686						
		44321 .20318	44345 .28123	63216 .51559	0.4	1.3				
10	SAO 1	63191 .37002	63193 .36177	63242 .26821						
		44321 .20077	44345 .28138	63216 .51785	0.2	0.6				
11	SAO 1	63183 .28027	63203 .43523	63323 .28450						
		63110 .23327	44354 .20429	63276 .56244	0.5	3.0				
12	SAO 1	63213 .43479	63233 .30909	63276 .25612						
		63203 .19726	63224 .55231	63276 .25043	0.2	1.6				
13	SAO 1	63213 .43589	63233 .30683	63276 .25728						
		63203 .19855	63224 .55013	63276 .25132	0.5	1.4				
14	SAO 1	63270 .10826	63320 .64486	63376 .24688						
		63284 .32800	63346 .46580	63358 .20620	0.3	0.0				
15	SAO 1	63270 .10697	63320 .64708	63376 .24595						
		63284 .32802	63346 .46407	63358 .20791	0.1	0.4				
16	SAO 1	63261 .28900	63376 .47438	63422 .23662						
		63272 .26205	63331 .35876	63431 .37919	0.6	0.7				
17	SAO 1	63261 .28916	63376 .47442	63422 .23642						
		63272 .26213	63331 .35897	63431 .37890	1.0	0.7				
18	SAO 1	63320 .31054	63345 .25541	63361 .43405						
		63331 .27909	63333 .57253	63424 .14838	0.6	1.4				

N	Catalogue	Numbers of stars and dependences				A	B	C
19	SAO 1	63320	.34254	63346	.31071	63361	.34675	
		63331	.39849	63333	.39753	63390	.20398	
		63320	.59539	63361	.18670	63388	.21791	
		63320	.31806	63333	.34791	63376	.33403	0.2 0.5
20	SAO 1	63320	.34272	63346	.31048	63361	.34680	
		63331	.39832	63333	.39772	63390	.20396	
		63320	.59615	63361	.18557	63388	.21828	
		63320	.31968	63333	.34637	63376	.33395	0.1 0.5
Periodic Comet Churyumov-Gerasimenko (1982 VIII)								
1	SAO 2	94243	.18122	94332	.57347	94345	.24531	
		94264	.22927	94332	.60319	94345	.16754	0.0 0.2
2	SAO 2	94243	.16921	94332	.56344	94345	.26735	
		94264	.21411	94332	.59119	94345	.19470	0.2 0.2
3	SAO 2	76923	.29768	94385	.34126	77111	.36106	
		94273	.32890	94422	.39951	77111	.27159	0.2 0.7
4	SAO 2	76923	.28935	94358	.33715	77111	.37350	
		94273	.19187	77043	.34324	94422	.46489	0.4 0.5
5	SAO 2	76923	.19196	94422	.42809	77111	.37995	
		76982	.44066	94452	.25127	77118	.30807	0.4 0.1
6	SAO 2	76923	.18789	94422	.42482	77111	.38729	
		76982	.43407	94452	.24855	77118	.31738	0.0 0.3
7	SAO 2	78150	.25966	78237	.41470	78385	.32564	
		78177	.33976	78285	.32285	78332	.33739	0.1 0.0
8	SAO 1,2	59045	.32727	78444	.42897	59345	.24376	
		78244	.24594	59167	.38692	78552	.36714	1.0 0.3
9	SAO 1	59392	.38639	59445	.32378	59538	.28983	
		59350	.19434	59456	.35925	59491	.44641	0.0 0.3
10	SAO 1	59392	.38401	59445	.31076	59538	.30523	
		59350	.17695	59456	.37588	59491	.44717	0.1 0.0
11	SAO 1,2	59295	.24417	78701	.45233	59654	.30350	
		59375	.48825	59466	.23193	59641	.27982	1.5 1.0
12	SAO 1,2	59295	.24308	78701	.45026	59654	.30666	
		59375	.48368	59466	.23418	59641	.28214	1.1 0.8
13	SAO 1,2	59295	.20218	78701	.38314	59654	.41468	
		59375	.32245	59466	.30555	59641	.37200	0.7 0.9
14	SAO 1,2	59295	.20116	78701	.38115	59654	.41769	
		59375	.31794	59466	.30774	59641	.37432	1.4 1.4

N	Catalogue	Numbers of stars and dependences			A	B	C		
15	SAO 1	59783	.36222	59890	.43747	59934	.20031	1.0	0.6
		59801	.19085	59839	.43612	59913	.37303		
16	SAO 1	59783	.36203	59890	.43103	59934	.20694	0.1	0.4
		59801	.18499	59839	.43964	59913	.37537		

Note: a - poor sky.

4. LIST OF COLABORATORS

Name	Abbreviation	Exposures	Measurements	Reductions
G. Červák	E	-	11	-
J. Fabricius	F	11	13	-
J. Klobušník	J	10	5	-
E.M. Pittich	P	-	-	7
P. Rychtarčík	R	27	36	-
P. Schalling	G	17	2	-
J. Svoreň	S	2	-	60

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