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Astrometry of comets made at the Skalnaté Pleso Observatory in the year 2001

J. Svoreň

Astronomical Institute of the Slovak Academy of Sciences
059 60 Tatranská Lomnica, The Slovak Republic

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Abstract. The paper presents the results of CCD astrometry of comets carried out at the Skalnaté Pleso Observatory in 2001. A total of 201 observations of 14 comets are given.

Key words: comets – astrometry

1. Introduction

This paper is a continuation of the previous papers which gave the results of positional observations of comets made at the Skalnaté Pleso Observatory (the last paper of this series: Svoreň; 2012) and contains positional comet observations made in the year 2001.

The article contains the cometary positions obtained by a 0.61-m f/4.4 mirror telescope of the Skalnaté Pleso Observatory equipped with a CCD camera SBIG ST-8. The CCD camera is placed at the Newton focus and the size of the observed sky area is 13×19 seconds of arc.

The reduction constants of the Skalnaté Pleso 0.61-m telescope are as follows:
$\lambda = -\,1^h\ 20^m\ 58.70^s$,
$\varphi = +49^\circ\ 11'\ 20.0''$,
h = 1783 m m.s.l.,
$\rho = 0.99836$ of the equatorial radius of the Earth.

The reference stars were selected from the USNO-A V2.0 Star Catalogue (Monet et al., 1998). The method of plate constants and the computer programme Astrometrica (Raab, 1993) were used to reduction of obtained frames.

2. Positions of comets

The data have been arranged according to the new system designation. A list of collaborators is given, together with their share in photographing, measuring and reducing the positions.

The individual columns of the table contain the following:
N – ordinal number of observation
Date U.T. – date and time of the middle of the exposure

$R.A._{2000}$ – right ascension for equinox 2000.0 (in h, m, s)
$Decl._{2000}$ – declination for equinox 2000.0 (in °, ′, ″)
Magn. – R magnitude of the comet
Ref. st. – number of reference stars used to calculate the plate constants and photometric calibration of an image
dα – the mean residual in R.A. (in s)
dδ – the mean residual in Decl. (in ″)
dmag – the mean residual in mag.

N	Date U.T.			$R.A._{2000}$ dα	$Decl._{2000}$ dδ	Magn. dmag	Ref. st.
			Periodic Comet 16P/Brooks 2				
01	2001	Nov.	10.84883	05 18 37.91	+13 55 44.3	15.2	9
				0.02	0.3	0.2	
02	2001	Nov.	10.86550	05 18 37.42	+13 55 40.6	15.4	9
				0.02	0.2	0.2	
03	2001	Nov.	11.88353	05 18 04.35	+13 51 54.1	15.3	10
				0.01	0.2	0.2	
04	2001	Nov.	27.03843	05 07 02.94	+13 05 47.7	14.9	9
				0.01	0.2	0.3	
05	2001	Dec.	04.76718	05 00 21.48	+12 51 40.3	16.0	10
				0.01	0.1	0.4	
06	2001	Dec.	06.74594	04 58 38.35	+12 49 15.0	15.9	10
				0.01	0.1	0.1	
07	2001	Dec.	06.75942	04 58 37.65	+12 49 14.6	15.8	10
				0.01	0.2	0.2	
08	2001	Dec.	07.72278	04 57 47.86	+12 48 14.5	15.8	9
				0.01	0.2	0.1	
09	2001	Dec.	08.74162	04 56 55.55	+12 47 19.2	15.9	10
				0.01	0.2	0.2	
10	2001	Dec.	09.80339	04 56 01.53	+12 46 30.4	16.4	10
				0.01	0.2	0.2	
11	2001	Dec.	09.86836	04 55 58.13	+12 46 28.3	15.8	10
				0.01	0.2	0.2	
12	2001	Dec.	11.85155	04 54 19.19	+12 45 21.4	16.0	10
				0.01	0.2	0.2	
			Periodic Comet 19P/Borelly				
13	2001	Nov.	12.02950	10 40 51.05	+29 55 38.3	13.1	8
				0.01	0.1	0.3	
14	2001	Nov.	26.99123	11 23 50.97	+32 26 15.0	13.3	8
				0.02	0.3	0.3	
15	2001	Dec.	07.97852	11 51 41.52	+34 28 11.9	13.2	9
				0.02	0.3	0.2	

N	Date U.T.		R.A.$_{2000}$ dα	Decl.$_{2000}$ dδ	Magn. dmag	Ref. st.
16	2001 Dec.	07.98785	11 51 42.79	+34 28 18.5	13.2	9
			0.02	0.3	0.3	
17	2001 Dec.	09.06450	11 54 14.75	+34 41 03.8	13.3	9
			0.01	0.3	0.2	
18	2001 Dec.	09.07459	11 54 16.13	+34 41 10.2	13.3	9
			0.01	0.1	0.2	
19	2001 Dec.	09.08118	11 54 17.00	+34 41 14.9	13.3	11
			0.01	0.3	0.2	
20	2001 Dec.	10.01060	11 56 26.31	+34 52 19.2	13.5	7
			0.02	0.3	0.2	
21	2001 Dec.	10.01889	11 56 27.43	+34 52 26.0	13.2	7
			0.01	0.3	0.1	
			Periodic Comet 29P/Schwassmann-Wachmann 1			
22	2001 Oct.	18.70943	18 48 10.85	-26 30 42.2	15.3	9
			0.01	0.2	0.5	
23	2001 Oct.	18.71197	18 48 10.93	-26 30 42.9	15.4	9
			0.01	0.2	0.5	
24	2001 Oct.	19.71912	18 48 40.26	-26 29 00.5	15.0	8
			0.02	0.2	0.3	
25	2001 Oct.	19.73857	18 48 40.91	-26 28 58.2	14.9	7
			0.02	0.3	0.3	
26	2001 Oct.	20.70501	18 49 09.46	-26 27 20.1	15.3	8
			0.01	0.3	0.2	
27	2001 Oct.	20.71495	18 49 09.78	-26 27 20.6	15.7	8
			0.02	0.3	0.3	
			Periodic Comet 41P/Tuttle-Giacobini-Kresák			
28	2001 Jan.	04.18163	15 57 02.64	-14 49 53.9		10
			0.02	0.2		
29	2001 Jan.	04.18896	15 57 04.62	-14 49 58.1		10
			0.02	0.3		
30	2001 Jan.	20.18316	17 08 36.59	-16 42 30.4		9
			0.01	0.2		
31	2001 Aug.	17.93166	21 44 47.68	-14 21 10.1	15.1	10
			0.01	0.2	0.3	
32	2001 Aug.	17.95078	21 44 46.48	-14 21 20.7	15.1	10
			0.01	0.2	0.3	
33	2001 Aug.	25.89609	21 36 45.65	-15 26 19.1		8
			0.02	0.2		
34	2001 Aug.	26.94275	21 35 48.61	-15 35 28.6	16.6	8
			0.01	0.3	0.5	
			Periodic Comet 44P/Reinmuth 2			
35	2001 Dec.	09.92414	05 11 47.98	+29 22 12.9	17.2	8

N	Date U.T.		$R.A._{2000}$ dα	$Decl._{2000}$ dδ	Magn. dmag	Ref. st.
			0.01	0.3	0.2	
36	2001 Dec.	09.94067	05 11 46.96	+29 22 10.2	17.1	8
			0.01	0.3	0.2	
37	2001 Dec.	14.79302	05 06 50.66	+29 06 21.5	16.4	9
			0.01	0.2	0.2	
38	2001 Dec.	14.80540	05 06 49.96	+29 06 19.3	16.4	9
			0.01	0.2	0.2	

Periodic Comet 74P/Smirnova-Chernykh

N	Date U.T.		$R.A._{2000}$ dα	$Decl._{2000}$ dδ	Magn. dmag	Ref. st.
39	2001 Feb.	16.87353	12 01 40.39	+09 31 43.7		9
			0.01	0.3		
40	2001 Feb.	16.88620	12 01 40.13	+09 31 47.9		9
			0.01	0.1		
41	2001 Feb.	17.98641	12 01 12.65	+09 36 21.9		10
			0.01	0.2		
42	2001 Feb.	18.00174	12 01 12.23	+09 36 26.3		10
			0.01	0.2		
43	2001 Mar.	02.88708	11 54 40.97	+10 32 31.1		8
			0.01	0.2		
44	2001 Mar.	02.91290	11 54 39.99	+10 32 37.5		8
			0.02	0.2		
45	2001 Mar.	16.83731	11 46 07.15	+11 29 55.6		8
			0.01	0.1		
46	2001 Mar.	28.99118	11 38 36.94	+12 08 33.1		11
			0.02	0.3		
47	2001 Mar.	28.99823	11 38 36.77	+12 08 33.7		11
			0.02	0.3		
48	2001 Mar.	31.00228	11 37 27.43	+12 13 26.2		10
			0.02	0.2		
49	2001 Mar.	31.01543	11 37 26.92	+12 13 28.1		10
			0.02	0.2		
50	2001 Apr.	01.89266	11 36 24.10	+12 17 37.6		10
			0.01	0.1		
51	2001 Apr.	03.81922	11 35 21.59	+12 21 25.9		6
			0.01	0.2		
52	2001 Apr.	25.89799	11 26 55.88	+12 30 54.2		6
			0.02	0.3		
53	2001 Apr.	25.91519	11 26 55.58	+12 30 53.1		6
			0.01	0.1		
54	2001 May	13.87329	11 25 57.49	+11 53 20.4		9
			0.01	0.2		
55	2001 May	14.83117	11 26 03.64	+11 50 19.4		8
			0.01	0.2		
56	2001 May	14.85212	11 26 03.81	+11 50 15.4		7
			0.01	0.1		

N	Date U.T.		R.A.$_{2000}$ dα	Decl.$_{2000}$ dδ	Magn. dmag	Ref. st.
57	2001 May	20.90520	11 27 04.33 0.02	+11 29 01.8 0.3	14.8 0.3	10
58	2001 May	23.86086	11 27 46.79 0.01	+11 17 23.1 0.2		8
59	2001 May	23.87294	11 27 47.09 0.02	+11 17 19.4 0.1		6
60	2001 May	24.83285	11 28 02.80 0.02	+11 13 21.9 0.3		7
61	2001 May	24.84705	11 28 02.97 0.02	+11 13 17.3 0.2		7
			Comet 1999 J2 Skiff			
62	2001 Feb.	17.09289	16 05 30.87 0.02	+10 17 44.0 0.3		10
63	2001 Feb.	18.07184	16 05 29.58 0.01	+10 17 48.8 0.3		10
64	2001 Mar.	30.88175	15 56 09.32 0.02	+10 31 32.5 0.2		10
65	2001 Mar.	30.95345	15 56 07.47 0.02	+10 31 31.0 0.2		10
66	2001 Apr.	01.93208	15 55 15.66 0.01	+10 31 46.4 0.1		10
67	2001 Apr.	01.94992	15 55 15.19 0.02	+10 31 46.4 0.1		10
68	2001 Apr.	25.92579	15 42 29.91 0.01	+10 21 13.0 0.2		8
69	2001 Apr.	25.95310	15 42 28.84 0.01	+10 21 10.3 0.2		8
70	2001 Apr.	27.89098	15 41 18.40 0.01	+10 18 56.9 0.2		9
71	2001 Apr.	27.91524	15 41 17.52 0.01	+10 18 52.3 0.2		9
72	2001 May	03.90672	15 37 34.90 0.02	+10 10 17.9 0.2	15.0 0.3	10
73	2001 May	03.92164	15 37 34.39 0.01	+10 10 22.0 0.2	14.9 0.3	10
74	2001 May	13.90600	15 31 14.79 0.02	+09 50 25.8 0.2		8
75	2001 May	13.93479	15 31 13.79 0.01	+09 50 23.1 0.2		7
76	2001 May	14.89324	15 30 37.21 0.01	+09 48 06.5 0.2		9
77	2001 May	20.93063	15 26 48.10 0.01	+09 32 07.7 0.3	15.3 0.4	10
78	2001 May	23.92508	15 24 55.89	+09 23 15.5		7

N	Date U.T.		R.A.$_{2000}$ dα	Decl.$_{2000}$ dδ	Magn. dmag	Ref. st.
			0.02	0.2		
79	2001 May	23.94235	15 24 55.27	+09 23 08.7		7
			0.01	0.3		
80	2001 May	24.87270	15 24 20.79	+09 20 15.4		7
			0.01	0.3		
81	2001 June	15.95532	15 11 50.17	+07 54 02.4	15.0	10
			0.02	0.2	0.3	
82	2001 June	15.97144	15 11 49.63	+07 54 00.4	15.2	10
			0.02	0.2	0.1	
83	2001 June	26.89679	15 06 48.51	+07 00 34.3		9
			0.01	0.2		
84	2001 June	30.94843	15 05 11.89	+06 39 21.1	14.0	10
			0.02	0.3	0.2	
85	2001 June	30.96944	15 05 11.39	+06 39 17.2	14.1	10
			0.02	0.2	0.3	
86	2001 July	10.89721	15 01 50.41	+05 44 31.3		9
			0.02	0.3		
87	2001 July	10.91714	15 01 50.22	+05 44 23.5		8
			0.02	0.2		

Comet 1999 T1 McNaught-Hartley

88	2001 Feb.	17.04818	17 06 24.78	+30 27 00.2		10
			0.02	0.3		
89	2001 Feb.	17.06330	17 06 27.17	+30 27 52.1		10
			0.02	0.3		
90	2001 Feb.	18.01702	17 08 57.45	+31 22 05.3		10
			0.01	0.3		
91	2001 Feb.	18.02549	17 08 58.81	+31 22 33.8		10
			0.01	0.2		
92	2001 Mar.	16.94185	18 12 38.11	+52 49 02.0		9
			0.03	0.2		
93	2001 Mar.	16.95456	18 12 39.67	+52 49 31.9		8
			0.03	0.2		
94	2001 July	30.89067	16 26 55.51	+68 56 17.0	14. 9	10
			0.06	0.3	0.4	
95	2001 Aug.	09.85182	16 31 15.97	+66 39 28.5		9
			0.03	0.2		
96	2001 Aug.	09.85682	16 31 16.19	+66 39 24.9		9
			0.02	0.3		
97	2001 Aug.	14.91253	16 34 36.85	+65 28 25.1	15.2	10
			0.04	0.2	0.2	
98	2001 Aug.	14.92449	16 34 37.31	+65 28 15.1	15.6	10
			0.04	0.2	0.2	
99	2001 Aug.	26.90708	16 44 56.06	+62 38 31.4	15.8	6
			0.03	0.3	0.3	

N	Date U.T.		$R.A._{2000}$ dα	$Decl._{2000}$ dδ	Magn. dmag	Ref. st.
100	2001 Aug.	26.92466	16 44 57.30	+62 38 16.4	15.9	6
			0.03	0.2	0.2	
101	2001 Aug.	30.92331	16 49 00.55	+61 41 43.8	14.9	10
			0.04	0.2	0.4	
102	2001 Aug.	30.93735	16 49 01.40	+61 41 30.6	15.0	10
			0.02	0.3	0.3	
103	2001 Sep.	26.89843	17 21 35.00	+55 34 22.9	16.3	8
			0.03	0.2	0.2	
104	2001 Oct.	06.76091	17 35 01.66	+53 31 04.4	16.1	9
			0.02	0.1	0.1	
105	2001 Oct.	08.71858	17 37 45.52	+53 07 34.1	16.5	8
			0.02	0.3	0.1	
106	2001 Oct.	10.86484	17 40 46.32	+52 42 10.1	15.2	10
			0.02	0.2	0.3	
107	2001 Oct.	10.88285	17 40 48.13	+52 41 55.1	15.2	10
			0.03	0.3	0.3	
108	2001 Oct.	14.75892	17 46 17.52	+51 57 08.0	15.2	10
			0.01	0.2	0.2	
109	2001 Oct.	14.77726	17 46 19.14	+51 56 54.3	15.1	9
			0.02	0.3	0.2	
110	2001 Oct.	15.74190	17 47 41.39	+51 45 58.6	15.4	9
			0.02	0.3	0.3	
111	2001 Oct.	15.75686	17 47 42.75	+51 45 50.1	15.3	10
			0.03	0.3	0.3	
112	2001 Oct.	17.75780	17 50 34.57	+51 23 32.0	16.3	9
			0.03	0.3	0.2	
113	2001 Oct.	18.74697	17 51 59.76	+51 12 38.0	17.3	9
			0.02	0.3	0.2	
114	2001 Oct.	18.75605	17 52 00.78	+51 12 31.7	17.3	8
			0.02	0.3	0.2	
115	2001 Oct.	19.78059	17 53 29.06	+51 01 22.4	16.6	9
			0.02	0.2	0.2	
116	2001 Oct.	19.79522	17 53 30.40	+51 01 11.5	16.3	9
			0.02	0.2	0.2	
117	2001 Oct.	25.76038	18 02 08.96	+49 58 28.9	16.3	10
			0.01	0.2	0.1	
118	2001 Oct.	25.77542	18 02 10.20	+49 58 16.2	15.7	10
			0.02	0.1	0.2	
119	2001 Oct.	27.74638	18 05 02.47	+49 38 26.5	17.1	7
			0.02	0.1	0.3	
120	2001 Oct.	27.76333	18 05 03.93	+49 38 16.7	17.1	7
			0.01	0.1	0.3	

Comet 1999 T2 LINEAR

121	2001 Jan.	04.15002	17 03 39.21	+24 50 57.3		8

N	Date U.T.		R.A.$_{2000}$ dα	Decl.$_{2000}$ dδ	Magn. dmag	Ref. st.
			0.02	0.3		
122	2001 Jan.	04.16870	17 03 39.45	+24 50 56.7		9
			0.01	0.3		
123	2001 Jan.	16.12902	17 05 20.27	+24 55 58.1		10
			0.01	0.2		
124	2001 Jan.	16.15255	17 05 20.37	+24 56 01.9		10
			0.02	0.2		
125	2001 Jan.	20.08951	17 05 30.73	+25 03 40.5		9
			0.01	0.3		
126	2001 Jan.	20.11995	17 05 30.81	+25 03 44.6		9
			0.02	0.2		
127	2001 Feb.	17.07567	16 58 30.91	+27 18 17.7		9
			0.01	0.2		
128	2001 Feb.	17.08558	16 58 30.53	+27 18 22.5		9
			0.01	0.3		
129	2001 Feb.	18.03800	16 57 56.51	+27 25 11.1		10
			0.02	0.3		
130	2001 Feb.	18.04630	16 57 56.22	+27 25 14.2		10
			0.02	0.3		
131	2001 Mar.	20.88023	16 22 29.95	+31 44 21.1		6
			0.02	0.1		
132	2001 Apr.	01.84914	15 58 25.09	+33 11 24.9		10
			0.01	0.2		
133	2001 Apr.	01.85843	15 58 23.79	+33 11 29.8		10
			0.01	0.3		
134	2001 Apr.	03.83875	15 53 52.22	+33 22 35.6		11
			0.02	0.2		
135	2001 Apr.	03.85186	15 53 50.45	+33 22 40.3		8
			0.02	0.2		
136	2001 Apr.	18.83871	15 15 55.19	+33 59 51.7		9
			0.01	0.2		
137	2001 Apr.	18.86790	15 15 50.48	+33 59 51.5		9
			0.02	0.1		
138	2001 Apr.	25.96355	14 56 43.93	+33 42 40.4		8
			0.01	0.2		
139	2001 Apr.	25.97690	14 56 41.70	+33 42 36.6		8
			0.02	0.3		
140	2001 May	01.83602	14 41 06.22	+33 10 18.6	14.3	10
			0.02	0.3	0.2	
141	2001 May	01.84624	14 41 04.60	+33 10 14.5	14.2	10
			0.02	0.3	0.2	
142	2001 May	03.08501	14 37 50.39	+33 01 22.3	13.5	9
			0.01	0.3	0.2	
143	2001 May	03.86935	14 35 48.95	+32 55 25.1	13.7	10
			0.03	0.1	0.5	
144	2001 May	13.87895	14 11 19.68	+31 17 39.4		7

N	Date U.T.		$R.A._{2000}$ dα	$Decl._{2000}$ dδ	Magn. dmag	Ref. st.
			0.02	0.2		
145	2001 May	13.91571	14 11 14.58	+31 17 13.6		7
			0.02	0.3		
146	2001 May	14.86333	14 09 05.38	+31 06 04.1		7
			0.02	0.2		
147	2001 May	14.87609	14 09 03.62	+31 05 54.9		7
			0.01	0.3		
148	2001 May	20.85117	13 56 15.38	+29 49 44.1	14.5	9
			0.01	0.3	0.4	
149	2001 May	22.87433	13 52 14.35	+29 21 54.3	14.4	10
			0.02	0.1	0.4	
150	2001 May	23.90169	13 50 15.64	+29 07 28.2		6
			0.01	0.3		
151	2001 May	23.91803	13 50 13.78	+29 07 15.2		6
			0.02	0.3		
152	2001 May	24.85424	13 48 28.00	+28 53 53.6		8
			0.02	0.3		
153	2001 May	24.86803	13 48 26.40	+28 53 40.9		7
			0.02	0.3		
			Comet 2000 K1 LINEAR			
154	2001 May	20.94942	15 47 43.28	+37 39 49.3	15.2	11
			0.01	0.2	0.2	
155	2001 May	20.96513	15 47 42.46	+37 39 52.7	15.3	11
			0.01	0.2	0.2	
156	2001 May	24.94550	15 44 13.15	+37 57 38.6		8
			0.01	0.1		
157	2001 June	15.92521	15 26 01.53	+38 50 47.0	16.4	10
			0.02	0.1	0.1	
			Comet 2000 SV 74 LINEAR			
158	2001 Dec.	09.76927	23 09 03.46	+56 07 39.8	15.2	8
			0.04	0.3	0.4	
159	2001 Dec.	09.79566	23 09 02.11	+56 07 29.4	15.0	8
			0.02	0.1	0.4	
			Comet 2000 WM1 LINEAR			
160	2001 Nov.	10.87927	03 55 32.18	+45 02 15.4	11.2	9
			0.01	0.1	0.2	
161	2001 Nov.	10.88775	03 55 29.64	+45 01 54.6	11.2	9
			0.02	0.1	0.2	
162	2001 Nov.	11.90245	03 50 31.06	+44 18 06.8	11.4	9
			0.02	0.2	0.3	
163	2001 Nov.	11.91073	03 50 28.38	+44 17 45.2	11.4	9
			0.03	0.3	0.3	

N	Date U.T.		R.A.$_{2000}$ dα	Decl.$_{2000}$ dδ	Magn. dmag	Ref. st.
164	2001 Nov.	18.78672	03 09 42.54	+36 43 31.0	10.2	7
			0.02	0.2	0.3	
165	2001 Nov.	18.79786	03 09 37.92	+36 42 29.8	10.0	7
			0.02	0.1	0.2	
166	2001 Nov.	26.88509	02 07 50.75	+18 33 24.6	10.5	8
			0.01	0.2	0.3	
167	2001 Nov.	26.90083	02 07 42.82	+18 30 34.8	10.5	8
			0.01	0.1	0.3	
168	2001 Dec.	06.69965	00 46 55.67	-14 45 20.4	10.0	6
			0.01	0.1	0.4	
169	2001 Dec.	07.66513	00 39 24.43	-17 45 27.1	9.6	8
			0.01	0.3	0.2	
170	2001 Dec.	07.67047	00 39 21.86	-17 46 25.6	9.6	8
			0.01	0.3	0.2	
171	2001 Dec.	08.66046	00 31 47.74	-20 41 24.2	9.8	6
			0.01	0.3	0.4	
172	2001 Dec.	08.66727	00 31 44.62	-20 42 34.9	9.9	6
			0.01	0.3	0.3	
173	2001 Dec.	09.66738	00 24 15.17	-23 28 49.3	11.1	18
			0.01	0.1	0.3	
174	2001 Dec.	09.67469	00 24 11.86	-23 29 59.8	11.1	15
			0.01	0.2	0.2	
175	2001 Dec.	11.67269	00 09 44.29	-28 29 50.6	9.1	7
			0.01	0.3	0.2	
176	2001 Dec.	11.67800	00 09 41.94	-28 30 36.5	9.2	8
			0.01	0.3	0.2	

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177	2001 Aug.	01.94293	20 47 19.74	+21 19 30.1	12.1	10
			0.02	0.3	0.4	
178	2001 Aug.	01.95456	20 47 17.51	+21 19 33.9	12.1	10
			0.02	0.3	0.3	
179	2001 Aug.	09.89093	20 26 52.33	+21 15 00.8		9
			0.02	0.2		
180	2001 Aug.	09.90657	20 26 50.26	+21 14 58.0		9
			0.01	0.2		
181	2001 Aug.	12.86778	20 21 15.92	+21 02 16.6		9
			0.01	0.2		
182	2001 Aug.	12.88632	20 21 14.09	+21 02 10.1		9
			0.02	0.3		
183	2001 Aug.	14.93453	20 17 54.62	+20 51 03.4	12.3	9
			0.02	0.2	0.2	
184	2001 Aug.	15.94656	20 16 24.95	+20 45 00.3	12.7	9
			0.02	0.3	0.3	
185	2001 Aug.	15.96072	20 16 23.76	+20 44 53.6	12.6	9

N	Date U.T.		R.A.$_{2000}$ dα	Decl.$_{2000}$ dδ	Magn. dmag	Ref. st.
			0.02	0.3	0.4	
186	2001 Aug.	17.91219	20 13 46.89	+20 32 14.8	12.7	10
			0.02	0.3	0.2	
187	2001 Aug.	17.91903	20 13 46.39	+20 32 11.3	12.7	10
			0.02	0.2	0.2	
188	2001 Aug.	18.97164	20 12 29.57	+20 24 57.6	13.0	10
			0.02	0.2	0.3	
189	2001 Aug.	24.85999	20 06 54.12	+19 40 26.0		9
			0.01	0.2		
190	2001 Aug.	24.88585	20 06 52.81	+19 40 14.8		9
			0.01	0.3		
191	2001 Aug.	25.95354	20 06 06.95	+19 31 38.9		9
			0.01	0.2		
192	2001 Aug.	25.96642	20 06 06.40	+19 31 34.6		9
			0.01	0.2		
193	2001 Aug.	27.01186	20 05 25.86	+19 23 05.8	13.0	9
			0.01	0.2	0.2	
194	2001 Aug.	27.04110	20 05 24.81	+19 22 49.7	13.5	9
			0.02	0.3	0.2	
195	2001 Aug.	30.95139	20 03 26.75	+18 50 35.8	13.5	10
			0.02	0.1	0.2	
196	2001 Aug.	30.96252	20 03 26.40	+18 50 29.2	13.5	10
			0.02	0.1	0.2	
197	2001 Sep.	09.84706	20 01 41.34	+17 29 06.3		9
			0.02	0.2		
198	2001 Sep.	27.91336	20 06 59.36	+15 17 42.1	15.1	6
			0.02	0.2	0.2	
199	2001 Oct.	13.82909	20 17 27.42	+13 52 47.2	16.9	536
			0.02	0.2	0.3	

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200	2001 Dec.	09.87704	01 11 10.78	+22 04 03.0	16.5	10
			0.01	0.1	0.2	
201	2001 Dec.	09.91214	01 11 10.09	+22 03 60.0	16.9	10
			0.01	0.1	0.2	

3. List of collaborators

Name	Exposures	Measurements	Reductions
G. Červák	92	84	–
M. Husárik	32	40	4
M. Jakubík	3	–	–
M. Kamenický	10	–	–
P. Rychtarčík	64	64	–
J. Svoreň	–	13	197

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