

COMMISSIONS 27 AND 42 OF THE IAU
INFORMATION BULLETIN ON VARIABLE STARS

Number 4771

Konkoly Observatory
Budapest
21 September 1999

HU ISSN 0374 – 0676

NEW VARIABLE STARS DISCOVERED IN THE MISAO PROJECT
III: MisV0151–MisV0200

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This report describes 50 new variable stars (MisV0151–MisV0200) discovered in the course of the MISAO Project.

These objects are detected automatically by the PIXY system as candidates of variable stars from unfiltered CCD images taken by Kadota between 1999 April and August, then confirmed by Yoshida and Kadota. Further details are same as described in Yoshida and Kadota (1999).

Here is the list of 50 new variable stars (Table 1). The position and magnitude are measured with USNO-A1.0 catalog. The magnitude is based on a preliminary V magnitude calculated from R and B magnitude in the catalog based on Kato's (1998) equation:

$$V = R + 0.375(B - R)$$

The finding charts are available electronically as 4771-f[*nnn*].eps where [*nnn*] refers to the serial number assigned to the star in the first column of Table 1.

MisV0163 is identified with a carbon star CS 4613.

V2000 Cyg is 4.3 arcmin from MisV0173. V2000 Cyg was detected on our unfiltered CCD images at around 14 mag. No variability was found on our images. However, considering the large distance, MisV0173 is probably another new variable star.

References:

Yoshida, S., Kadota, K., 1999, *IBVS*, No. 4746

Yoshida, S., Kadota, K., Kato, T., 1999, *IBVS*, No. 4770

Yoshida, S., 1999, in preparation

Kato, T., 1998,

<http://www.kusastro.kyoto-u.ac.jp/vsnet/Mail/vsnet-chat/msg00700.html>

Table 1: List of New Variable Stars

Code	R.A. (J2000.0)	Decl.	Unfiltered CCD Mag.		Type	Identified with
			Max	Min		
MisV0151	19 ^h 01 ^m 16 ^s .53	-08°41'17"2	12.3	13.3	SR?	USNO-A1.0 0750.16212024 IRAS 18585-0845
MisV0152	19 00 32.57	-07 47 42.1	10.2	11.8	?	GSC 5706.2015 USNO-A1.0 0750.16144451 IRAS 18578-0751
MisV0153	19 01 01.49	-06 53 46.0	11.6	13.1	?	IRAS 18583-0658
MisV0154	19 02 26.85	-06 45 11.6	11.8	12.6	?	USNO-A1.0 0825.14193678 IRAS 18597-0649
MisV0155	19 01 39.61	-06 46 23.1	12.2	14.3	SR?	USNO-A1.0 0825.14132591 IRAS 18589-0650
MisV0156	18 58 10.29	-05 44 58.4	12.3	13.3	SR?	USNO-A1.0 0825.13844799 IRAS 18554-0549
MisV0157	19 00 17.69	-06 06 57.5	11.7	14.5	M?	USNO-A1.0 0825.14031079 IRAS 18576-0611
MisV0158	18 59 55.40	-05 37 29.8	12.7	14.6	?	USNO-A1.0 0825.13998175 IRAS 18572-0541
MisV0159	18 58 17.70	-03 38 56.1	13.2	14.1	?	IRAS 18556-0343
MisV0160	18 57 45.40	-03 30 04.2	12.6	13.4	?	IRAS 18551-0334
MisV0161	18 59 11.08	-01 38 50.1	13.2	[14.6	SR?	IRAS 18565-0143
MisV0162	19 02 42.87	-01 42 50.8	12.7	14.5	SR?	IRAS 19001-0147
MisV0163	20 01 55.78	+23 29 18.6	12.7	14.3	?	IRAS 19597+2320 CS 4613
MisV0164	19 02 15.88	-00 33 17.8	11.8	14.0	?	IRAS 18597-0037
MisV0165	19 02 36.50	-00 47 39.6	12.8	13.8	?	IRAS 19000-0052
MisV0166	20 01 37.41	+23 09 39.8	12.6	14.6	?	IRAS 19594+2301
MisV0167	19 00 46.76	-10 26 42.8	12.0	13.3	?	IRAS 18580-1031
MisV0168	19 02 53.69	-10 26 42.9	11.6	12.6	?	USNO-A1.0 0750.16353170 IRAS 19001-1031
MisV0169	19 02 39.37	-10 22 49.4	12.0	13.1	?	USNO-A1.0 0750.16332903
MisV0170	20 03 26.27	+46 01 03.6	12.5	13.6	?	IRAS 20018+4552
MisV0171	20 02 12.13	+45 53 17.2	11.3	13.1	?	USNO-A1.0 1350.11725980 IRAS 20006+4544
MisV0172	19 57 43.16	+30 36 41.1	13.7	[15.5	?	IRAS 19557+3028
MisV0173	19 57 43.76	+30 46 20.5	12.4	13.7	SR?	USNO-A1.0 1200.14177493 IRAS 19557+3038
MisV0174	20 02 12.95	+30 57 55.6	12.2	13.4	?	USNO-A1.0 1200.14458946 IRAS 20002+3049
MisV0175	19 56 57.62	+34 09 53.2	12.5	14.4	SR?	USNO-A1.0 1200.14124349 IRAS 19550+3401

Table 1 (cont.)

Code	R.A. (J2000.0) Decl.		Unfiltered		Type	Identified with
			CCD Mag.			
			Max	Min		
MisV0176	18 ^h 57 ^m 30 ^s .09	+08°33'16".6	13.4	14.3	?	IRAS 18550+0829
MisV0177	18 59 51.45	+08 16 47.2	12.1	13.3	?	IRAS 18574+0812
MisV0178	19 02 34.74	+08 23 29.2	12.7	14.4	?	IRAS 19001+0819
MisV0179	18 57 20.68	+09 09 41.6	13.6	14.9	?	USNO-A1.0 0975.13903831 IRAS 18549+0905
MisV0180	18 57 41.83	+10 26 25.1	12.8	14.2	?	USNO-A1.0 0975.13922551 IRAS 18553+1022
MisV0181	18 57 10.97	+10 06 18.3	13.0	14.0	?	USNO-A1.0 0975.13895406 IRAS 18548+1002
MisV0182	17 57 28.86	-04 30 22.4	13.8	15.0	?	IRAS 17548-0430
MisV0183	19 01 16.36	+10 31 23.2	13.8	14.6	?	IRAS 18588+1026
MisV0184	18 59 08.15	+10 51 00.1	13.4	14.2	?	USNO-A1.0 0975.13990989 IRAS 18567+1046
MisV0185	19 00 03.79	+11 22 45.0	13.6	14.3	?	USNO-A1.0 0975.14031748 IRAS 18576+1118
MisV0186	18 58 20.91	+11 20 33.9	13.4	15.0	?	USNO-A1.0 0975.13955476 IRAS 18560+1116
MisV0187	18 58 28.04	+11 11 48.8	13.4	14.2	?	IRAS 18560+1107
MisV0188	18 59 52.20	+07 05 10.6	13.4	14.4	?	IRAS 18574+0700
MisV0189	19 01 27.71	-08 23 14.0	11.6	13.7	?	USNO-A1.0 0750.16229344 IRAS 18587-0827
MisV0190	18 58 56.52	-05 09 30.0	12.5	13.7	?	USNO-A1.0 0825.13911930 IRAS 18563-0513
MisV0191	19 02 31.57	-05 18 17.3	12.0	13.7	?	USNO-A1.0 0825.14199618 IRAS 18598-0522
MisV0192	19 01 03.95	-07 24 14.2	11.4	12.3	?	IRAS 18583-0728
MisV0193	18 58 58.13	-07 23 36.5	12.1	13.8	?	IRAS 18562-0727
MisV0194	17 58 58.55	-15 12 35.9	11.9	12.7	?	USNO-A1.0 0675.14946535 IRAS 17561-1512
MisV0195	18 00 22.45	-10 31 21.9	12.7	13.6	?	USNO-A1.0 0750.12537644 IRAS 17576-1031
MisV0196	21 57 20.44	+55 35 41.0	13.8	15.0	?	USNO-A1.0 1425.12702542 IRAS 21556+5521
MisV0197	21 56 00.94	+56 19 28.2	13.1	14.2	?	USNO-A1.0 1425.12666448 IRAS 21543+5605
MisV0198	22 00 50.98	+52 51 55.7	12.7	14.7	?	USNO-A1.0 1425.12790776 IRAS 21590+5237
MisV0199	19 01 01.45	+14 01 25.0	12.9	14.4	?	USNO-A1.0 0975.14078431 IRAS 18587+1356
MisV0200	18 59 10.96	+17 27 04.3	11.5	12.5	?	IRAS 18569+1722