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NEW VARIABLE STARS DISCOVERED IN THE MISAO PROJECT
VI: MisV0301–MisV0350

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This report describes 50 new variable stars (MisV0301–MisV0350) 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 the same as described in Yoshida and Kadota (1999).

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

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

The finding charts are available electronically as 4812-f[*nnn*].eps where [*nnn*] refers to the serial number assigned to the star in the first column of Table 1.

V1191 Oph is 1.2 arcmin from MisV0314, that was detected on Kadota's unfiltered CCD images as a 13 mag star. MisV0314 is thus a new variable star.

V1002 Sgr is 1.7 arcmin from MisV0348, that was detected as a 12.5 mag star. MisV0348 is thus another new variable star.

References:

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

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		Type	Identified with
			CCD Mag. Max	Min		
MisV0301	19 ^h 01 ^m 27 ^s .60	+20°57′28″.4	13.7	15.0	?	USNO-A2.0 1050.12612555 IRAS 18592+2053
MisV0302	19 01 32.46	+21 06 20.9	11.8	12.8	?	USNO-A2.0 1050.12617932 IRAS 18593+2101
MisV0303	18 57 17.29	+21 40 16.1	10.9	12.4	?	USNO-A2.0 1050.12343864 IRAS 18551+2136
MisV0304	18 59 05.64	+23 29 20.3	13.6	14.7	?	USNO-A2.0 1125.10964269 IRAS 18570+2325
MisV0305	18 58 34.35	+28 11 08.7	12.8	13.6	?	IRAS 18565+2806
MisV0306	19 57 05.03	+40 18 54.5	11.3	13.2	?	USNO-A2.0 1275.12857573 IRAS 19553+4010
MisV0307	17 01 04.11	-28 11 34.0	12.3	13.2	?	USNO-A2.0 0600.23044921
MisV0308	17 01 34.05	-15 21 49.1	12.9	13.7	?	USNO-A2.0 0675.17476463
MisV0309	17 01 01.00	-25 42 05.8	10.2	12.3	?	
MisV0310	16 59 13.10	-11 20 22.0	11.8	13.9	SR?	GSC 5651.1814 USNO-A2.0 0750.10233850
MisV0311	17 02 19.47	-15 23 55.9	12.8	14.2	?	USNO-A2.0 0675.17537697
MisV0312	17 01 01.03	-25 09 09.1	11.1	13.1	?	USNO-A2.0 0600.23037784
MisV0313	16 59 17.30	-29 59 45.6	12.5	13.5	?	USNO-A2.0 0600.22793433
MisV0314	17 00 14.94	-21 01 28.2	12.2	13.4	?	USNO-A2.0 0675.17367497
MisV0315	17 02 39.49	-29 09 32.5	11.3	13.0	?	GSC 6823.2445 USNO-A2.0 0600.23282055
MisV0316	16 57 54.50	-28 03 09.8	10.8	11.6	?	USNO-A2.0 0600.22607149
MisV0317	17 02 02.34	-28 38 26.1	10.9	13.7	?	USNO-A2.0 0600.23185862 IRAS 16588-2833
MisV0318	16 59 25.50	-28 23 18.1	10.3	11.0	?	GSC 6822.1664 USNO-A2.0 0600.22813502
MisV0319	17 01 18.52	-27 04 28.5	12.1	12.9	?	USNO-A2.0 0600.23079555
MisV0320	16 58 35.95	-24 18 41.7	11.9	12.9	?	USNO-A2.0 0600.22700018 IRAS 16555-2415
MisV0321	16 57 44.31	-28 35 41.5	11.0	12.0	?	USNO-A2.0 0600.22586403
MisV0322	17 00 43.36	-26 32 29.0	11.4	13.4	?	IRAS 16575-2628
MisV0323	16 57 36.27	-29 55 05.2	11.2	11.9	?	GSC 6822.0431 USNO-A2.0 0600.22570311
MisV0324	17 00 37.25	-26 17 56.5	11.6	13.9	?	USNO-A2.0 0600.22980117
MisV0325	16 57 26.70	-28 53 21.9	12.4	13.8	?	
MisV0326	17 03 00.70	-24 45 15.8	11.2	13.8	?	USNO-A2.0 0600.23337456
MisV0327	19 00 11.58	+20 03 54.1	12.4	13.1	SR?	USNO-A2.0 1050.12531348
MisV0328	19 00 17.93	+19 35 40.3	12.1	13.6	SR?	USNO-A2.0 1050.12537869
MisV0329	17 00 16.99	-29 15 56.2	11.6	14.9	?	USNO-A2.0 0600.22933360
MisV0330	17 02 48.05	-23 43 19.2	11.8	14.2	?	USNO-A2.0 0600.23304065

Table 1: cont.

Code	R.A. (J2000.0) Decl.		Unfiltered		Type	Identified with
			CCD Mag.	Max Min		
MisV0331	18 ^h 00 ^m 36 ^s .72	-03°08'10".3	12.8	14.8	?	USNO-A2.0 0825.11714880
MisV0332	19 01 43.02	+28 57 55.4	13.1	14.2	?	USNO-A2.0 1125.11105329
MisV0333	17 02 36.42	-29 07 00.9	12.5	13.6	?	USNO-A2.0 0600.23274298 IRAS 16594-2902
MisV0334	16 58 39.32	-25 35 17.1	12.9	15.5	?	USNO-A2.0 0600.22707828
MisV0335	17 01 45.72	-30 26 03.4	12.2	15.5	?	USNO-A2.0 0525.25748271
MisV0336	17 02 57.01	-29 50 36.1	12.4	13.5	?	USNO-A2.0 0600.23328027
MisV0337	18 57 22.09	+11 48 33.9	14.0	15.1	?	USNO-A2.0 0975.13701008 IRAS 18550+1144
MisV0338	18 57 57.66	-04 03 16.7	12.1	15.0	?	IRAS 18553-0407
MisV0339	18 58 39.54	-00 54 17.7	13.4	14.7	?	USNO-A2.0 0825.13847347 IRAS 18560-0058
MisV0340	18 59 01.27	-03 23 07.3	12.5	13.8	SR?	IRAS 18563-0327
MisV0341	19 01 00.05	-08 25 18.1	12.8	14.0	?	IRAS 18582-0829
MisV0342	19 59 05.34	+17 11 04.9	10.3	11.1	?	USNO-A2.0 1050.15913562 IRAS 19568+1702
MisV0343	19 59 43.20	+36 52 22.4	13.0	14.0	SR?	USNO-A2.0 1200.14093454 IRAS 19578+3644
MisV0344	20 01 16.55	+31 09 52.6	13.3	14.5	SR?	USNO-A2.0 1200.14185091 IRAS 19592+3101
MisV0345	21 00 14.22	+39 40 22.9	13.0	15.3	SR?	IRAS 20583+3928
MisV0346	21 02 00.12	+32 48 26.5	9.2	10.1	?	IRAS 20599+3236
MisV0347	17 59 29.52	-09 44 15.6	13.2	14.3	SR?	USNO-A2.0 0750.12459691 IRAS 17566-0944
MisV0348	18 00 52.25	-28 10 51.4	13.1	14.1	?	USNO-A2.0 0600.29966820
MisV0349	18 59 56.80	-03 44 33.6	13.1	14.7	?	USNO-A2.0 0825.13959527
MisV0350	19 00 31.29	+10 20 29.2	12.5	13.5	?	USNO-A2.0 0975.13849907 IRAS 18581+1016