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**COORDINATES AND IDENTIFICATIONS FOR  
KUROCHKIN'S VARIABLES NEAR M56**

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The tables below show identifications and accurate coordinates for about 90 variables studied by Kurochkin (1968, 1970, 1971, 1972) in a  $10^\circ \times 10^\circ$  region around the globular cluster Messier 56. Most of the variables were newly discovered. Additional follow-up work on the same stars was published much later (Kurochkin 1985). Although some of the variables have precise positions published in more recent literature, most do not.

The format is identical to recent previous lists, and broken into the four parts in which they were published. The first column shows SVS numbers, and the second the GCVS designation. An asterisk by the GCVS name indicates a note following the tables. Nearly all the positions come from USNO-A2.0, but a few are from either the GSC v1.2 or from large-scale Digitized Sky Survey images from the Goddard SkyView facility. The source is coded in column 's' as follows: A = USNO-A2.0, G = GSC v1.2, S = SkyView. Many objects were verified using DSS images and other sources. All but one or two were unambiguously identified from Kurochkin's charts.

The present list was integrated into SIMBAD before publication by Fabienne Woelfel (CDS-Strasbourg). She independently found the V1506/V923 Cyg mix-up, which I had missed. Nikolai Samus (Sternberg Institute, Moscow) provided the earlier Makarenko citation for this correction. I am grateful to them both for their interest in this work.

Table 1: Positions and identifications – I

SVS	GCVS	RA (2000)	Dec	s	GSC	Remarks
1510	V397 Lyr	19 07 11.0	+30 57 04	A		
1511	V364 Lyr	19 09 40.0	+30 05 51	A		
1512	V369 Lyr*	19 11 55.3	+32 12 03	S		
1513	V373 Lyr	19 17 12.2	+31 44 40	A		
1514	V376 Lyr	19 20 25.4	+31 39 30	A		
1515	NSV 11940	19 21 16.6	+31 41 46	A		
1516	NSV 11948	19 21 48.2	+32 07 02	A		
1517	V1111 Cyg	19 23 09.2	+30 10 53	A		
1518	V383 Lyr	19 25 03.0	+30 25 34	A		
1519	V1122 Cyg	19 28 25.1	+30 54 12	A		
1520	V1255 Cyg	19 28 36.6	+31 10 49	A		
1521	V869 Cyg	19 29 11.8	+31 11 17	A		
1522	V873 Cyg	19 29 20.8	+31 46 52	A		
1523	NSV 12103	19 30 37.7	+30 25 04	A		
1524	V1260 Cyg	19 31 20.2	+31 22 07	A		
1525	NSV 12125	19 32 17.3	+30 20 19	A		
1526	NSV 12175	19 34 23.9	+30 41 38	A		
1527	NSV 12184	19 35 07.1	+30 53 40	A		
1528	V1267 Cyg	19 38 54.8	+30 30 46	A		
1529	V1139 Cyg	19 39 21.7	+30 57 15	A		

Table 2: Positions and identifications – II

SVS	GCVS	RA (2000)	Dec	s	GSC	Remarks
1579	NSV 11621	18 58 41.2	+34 32 20	A	2647-1168	
1580	NSV 11651	19 00 35.9	+28 31 33	A		
1581	V409 Lyr	19 00 55.9	+26 20 19	A		
1582	V410 Lyr	19 01 35.3	+29 00 07	A		
1583	V412 Lyr	19 06 48.5	+29 16 40	A	2134-1116	
1584	V419 Lyr	19 10 14.0	+29 06 15	A		
1585	V420 Lyr	19 10 17.0	+28 30 08	A		
1586	V421 Lyr	19 10 39.1	+26 30 29	A		
1587	V423 Lyr	19 11 55.4	+33 13 07	A		
1588	V424 Lyr	19 12 52.0	+26 15 55	A		
1589	V426 Lyr	19 13 17.4	+26 59 49	A		
1590	V427 Lyr	19 13 41.7	+28 02 11	A		
1591	NSV 11950	19 21 57.2	+26 44 11	A		
1592	NSV 11954	19 22 21.0	+25 47 51	A	2128-0303	
1593	NSV 11962	19 22 38.2	+26 15 39	A	2132-0613	
1594	NSV 12002	19 24 51.7	+29 47 30	A		
1595	MN Vul	19 26 25.6	+26 57 32	A		
1596	V1345 Cyg	19 31 28.6	+29 46 23	A		
1597	V907 Cyg	19 35 30.4	+29 45 46	A		
1598	V1348 Cyg	19 38 03.9	+29 23 45	A		
1599	HW Cyg	19 40 18.1	+32 46 02	G	2660-2881	

Table 3: Positions and identifications – III

SVS	GCVS	RA (2000)	Dec	s	GSC	Remarks
1636	V408 Lyr					not found
1637	V411 Lyr	19 06 27.6	+34 40 21	A		
1638	V413 Lyr	19 07 16.4	+30 19 26	A		
1639	V414 Lyr	19 07 55.8	+26 20 17	A		IRAS 19059+2615
1640	V415 Lyr	19 08 03.9	+31 23 55	A		
1641	V416 Lyr	19 08 26.4	+29 21 55	A		
1642	V417 Lyr	19 08 39.1	+30 43 09	A		
1643	V418 Lyr	19 08 33.5	+33 18 35	A		
1644	LY Vul	19 09 36.2	+25 40 06	A		
1645	V422 Lyr	19 11 25.3	+27 15 19	A	2131-2071	IRAS 19093+2710
1646	V425 Lyr	19 12 54.2	+33 13 02	A		
1647	V428 Lyr	19 13 32.8	+33 36 51	A	2657-0767	
1648	V429 Lyr	19 13 37.6	+34 29 10	A		
1649	V430 Lyr	19 14 14.8	+26 19 01	A	2131-1140	
1650	V431 Lyr	19 14 00.4	+33 35 38	A		
1651	AI Lyr	19 14 35.6	+27 49 46	A		
1652	V432 Lyr	19 16 50.3	+29 10 52	A	2136-3343	
1653	V433 Lyr	19 16 53.6	+30 49 56	A		IRAS 19149+3044
1654	OY Lyr	19 17 01.9	+29 00 25	A	2136-1363	
1655	V434 Lyr*	19 16 53.6	+32 36 12	S		
1656	LZ Vul	19 18 24.4	+25 25 18	A		
1657	V436 Lyr	19 18 12.5	+32 11 26	A	2657-2048	
1658	V437 Lyr	19 19 52.2	+32 29 58	A		
1659	V438 Lyr	19 21 14.5	+31 57 52	A		IRAS 19193+3152
1660	V405 Lyr	19 21 24.4	+34 01 20	A		
1661	MM Vul	19 22 02.8	+27 23 01	A		
1662	V439 Lyr	19 21 59.7	+32 46 15	A	2658-0964	
1663	V440 Lyr	19 21 59.4	+34 31 30	A		IRAS 19201+3425
1664	V843 Cyg	19 22 57.1	+29 41 09	A		
1665	V441 Lyr	19 23 42.4	+32 07 56	A		

Table 4: Positions and identifications – IV

SVS	GCVS	RA (2000)	Dec	s	GSC	Remarks
1775	NSV 11910	19 19 29.1	+25 45 35	A	2128-1767	
1776	MP Vul	19 24 51.8	+27 32 42	A	2133-1149	
1777	MQ Vul	19 25 12.7	+26 42 16	A		
1778	V456 Lyr	19 26 02.4	+31 53 08	A		IRAS 19241+3147
1779	MR Vul	19 27 08.0	+26 03 05	A	2129-1437	
1780	V1436 Cyg	19 28 43.3	+27 59 01	A		
1781	MS Vul	19 28 49.5	+26 53 20	S		IRAS 19267+2647
1782	V1437 Cyg	19 28 45.2	+31 23 25	A		
	V1257 Cyg	19 29 45.6	+28 16 12	S		
1783	MT Vul*	19 30 03.0	+27 35 34	A		IRAS 19280+2729
1784	V1438 Cyg	19 30 48.8	+28 54 39	A	2137-0608	
	V903 Cyg	19 34 44.1	+31 15 19	A		
	V911 Cyg	19 35 54.8	+27 59 03	A		
	EK Cyg	19 37 49.0	+31 50 23	A	2655-0115	
	V1506 Cyg*	19 38 03.8	+31 49 20	A	2655-0544	
	V1349 Cyg	19 38 05.1	+32 44 49	A		IRAS 19361+3237
	V925 Cyg*	19 38 27.1	+28 32 51	A		
1785	NSV 12252	19 38 40.3	+26 25 29	A	2146-3856	IRAS 19366+2618

## Notes:

- V369 Lyr Downes *et al.* (1997) identification adopted.  
V434 Lyr verified on POSS-I, not visible on O (blue) print.  
MT Vul red variable with  $P \sim 172^d$ , not an eclipser as first suspected;  
*cf.* Kurochkin (1985).  
V1506 Cyg given erroneously as V923 Cyg by Kurochkin (1972); corrected  
by Makarenko (1974).  
V925 Cyg southern star of a pair.

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