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Four New Southern Miras

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#	Name	Other	Coord (J2000)	Type	Max	Min	System	Period	Epoch (JD)	type	Sp	Comment	L.Curve	Find.Chart	Data
1		UCAC2 10171018	11 35 40.36, -50 28 33.0	M	11.7	<14.2	V	310	2452762	max		Comm. 1	1.gif		ASAS 113540-5028.6
2		GSC 8224-02516	11 51 00.85, -49 06 08.9	M	11.9	<14.5	V	500	2453451	max		Comm. 2	2.gif		ASAS 115101-4906.1
3		GSC 8249-02721	12 48 51.24, -48 17 07.7	M	11.4	<14.3	V	319	2453755	max		Comm. 3	3.gif		ASAS 124851-4817.1
4		UCAC2 15073610	15 18 45.32, -39 13 52.9	M	12.3	<14.5	V	367	2453847	max		Comm. 4	4.gif		ASAS 151845-3913.9

Comments:

1. IRAS 11332-5011.

2. IRAS 11485-4849. An IRAS low-resolution spectrum of moderate quality exists (Olnon et al., 1986), characterized as a star with a "not too thick" O-rich envelope.

3. IRAS 12460-4800.

4. IRAS 15154-3902. An IRAS low-resolution spectrum of moderate quality exists, characterized as a star with spectral type <=M5.

Remarks:

These new Mira-type variables were found by searching UCAC2 catalogue data (Zacharias et al., 2004) in portions of the southern sky for red (UCmag-Ks>=6) stars. The resulting list was used to create a local web page that queried the ASAS-3 database (Pojmanski, 2002) for lightcurves of stars at those positions. This page was scanned by eye for Mira-type variables. Variables detected were checked in AAVSO VSX and VizieR, and known variables eliminated. Stated positions are from UCAC2.

This research made use of the VizieR catalogue access tool, NASA's Astrophysics Data System, and AAVSO's Variable Star Index (VSX).

References:

Olnon, F. M., Raimond, E., Neugebauer, G., et al., 1986, A&AS, 65, 607
Pojmanski, G., 2002, Acta Astronomica, 52, 397
Zacharias, N., Urban, S. E., Zacharias, M. I., et al., 2004, AJ, 127, 3043