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OBSERVATIONS OF VARIABLES

The last but one issue of the volume publishes new observations, and results on known variable stars. Figures and data files are available electronically.

The Editors

Date: 2 February 2004
Reported by: Bedient, J. - University of Hawaii, bedient@hawaii.edu Richwine, P. - University of Arizona, pebbler@email.arizona.edu
Name of the object: NSV 12374
Remarks: NSV 12374 is found to be a Mira-type variable star using archived CCD images and ASAS-3 data. The period is 265 days and range 13.0 – <15 (V). Cross-identifications made: NSV 12374 = SV* R 321 = IRAS 19429-0526 = USNO-B1.0 0846-0566062 = 2MASS J19453923-0519183

Date: 12 February 2004
Reported by: Ignatieva, T.I. - Sternberg Astronomical Institute, Moscow, Russia Antipin, S.V. - Sternberg Inst. and Instr. of Astr., RAS, Moscow, Russia, antipin@sai.msu.ru
Name of the object: V1543 Cyg
Remarks: V1543 Cyg, an SR: star in the GCVS, is actually a classical Cepheid. $JD_{max} = 2443343.07 + 2.03029d \times E$.

Date: 2 April 2004
Reported by: Dumitrescu, A. - Astronomical Institute of the Romanian Academy, alex@aira.astro.ro Iliev, L. - Astronomical Institute of the Bulgarian Academy, liliev@astro.bas.bg Tudose, V. - Astronomical Institute of the Romanian Academy, vtudose@aira.astro.ro
Name of the object: V376 And = HIP 12039 = HD 15922
Remarks: We report BV observations of the eclipsing binary system V376 And. Six times of minima are presented.

Date: 16 April 2004
Reported by: Otero, S. - Grupo Wezen 1 88 & CEA, Argentina, varsao@fullzero.com.ar Pojmanski, G. - ASAS, http://www.astrouw.edu.pl/~gp/asas
Name of the object: NSV 12236 = ASAS 193907-2049.2 = GSC 6311 1034 = SV* BV 1713 = 2MASS J19390656-2049140
Remarks: NSV 12236 is a CWA star with the following elements: HJDmax 2452001.10 + 14.279 × E. Range in V= 11.35 – 12.55 according to ASAS-3 data.

Name of the object: NSV 05356 = ASAS 114920-6600.6 = HD 310803 = SV* BV 726 = CPD –65 01725 = CoD –65 01151 = GSC 8985 2113 = 2MASS J11491992-6600387
Remarks: SIMBAD cross-identifications are correct but the position given is wrong due to a typographic error in the DEC that was written as –06 degrees instead of –66. Tycho-2 position is 11 ^h 49 ^m 19 ^s .944 –66°00'38"65 (2000.0) SIMBAD wrongly puts the star at 11 ^h 49 ^m 42 ^s –06°00'6 (2000.0) NSV 05356 is a short period DCEP star (HD spectrum G0) with the following elements: HJDmax 2452056.529 + 1.39143 × E. Range in V= 9.89 – 10.33 according to ASAS-3 data.

Name of the object: NSV 10164 = ASAS 180601-4731.5 = GSC GSC 8361 1107 = CPD –47 8688 = CD –47 12046 = SV* BV 1217 = 2MASS J18060173-4731272
Remarks: RVA variable star with elements: HJDmax 2452057.0 + 108.71 × E. V range is 9.84 – 12.76 (ASAS-3 data).

Date: 27 April 2004
Reported by: Bernhard, K. - Linz, Austria, kl.bernhard@aon.at Kiyota, S. - Tsukuba, Japan, skiyota@nias.affrc.go.jp Moschner, W. - Lennestadt, Germany, wolfgang.moschner@t-online.de
Name of the object:
GSC 0752.0542 = Brh V39
Remarks:
GSC 0752.0542 (RA: 07 ^h 01 ^m 00 ^s .4 +10°03'46", J2000) can be called as an anomalous RRab star, because of a period, which is typical for an RRab star and a folded light curve with a rather low amplitude, which looks more like an RRc star. This star shows a clear light curve variation, but a period analysis of the available data does not point to any consistent solution. Max = HJD 2452306.468 + 0.71240 × E .

Date: 24 June 2004
Reported by: Krajci, Tom - 3933 Stockton Loop, SE Albuquerque, NM 87118-1104, loukrajci@comcast.net
Name of the object:
V718 Her
Remarks:
V718 Her is currently listed in the GCVS as type EW/KW. Recent unfiltered observations from Tashkent show that it is in fact type RRc. Initial data indicate the following ephemeris for time of maximum: HJDmax = 2453163.6535(8) + 0.297626(5) × E . Note that the period is significantly different from the GCVS value of 0.4588788, which is assessed as an aliasing effect.

Name of the object:
BH UMa
Remarks:
BH UMa is currently listed in the GCVS as type EW/KE. Recent unfiltered observations from Tashkent show that the star is in fact type RRc. Initial data indicate the following ephemeris for time of maximum: HJDmax = 2453053.6545(5) + 0.349350(3) × E .

Date: 4 August 2004
Reported by: Sahin, T. - Akdeniz University, Turkey Yesilyaprak, C. - Akdeniz University, Turkey
Name of the object:
V2129 Cyg
Remarks:
V2129 Cyg was discovered by the Hipparcos Satellite as a low amplitude delta Scuti type star. Modulation of the light curve is suspected.

Date: 1 September 2004

Reported by:

Frank, P.- BAV, Germany, frank.velden@t-online.de

Bernhard, K.- BAV, Austria, kl.bernhard@aon.at
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Quester, W.- BAV, Germany, wquester@aol.com

Lloyd, C. - Rutherford Appleton Laboratory, UK, cl@astro1.bnsc.rl.ac.uk

Name of the object:

GSC 1927-0862 = Brh V130

Remarks:

GSC 1927-0862 (RA: 08 ^h 08 ^m 15 ^s .9 DEC: +23°04'10", J2000) is a W UMa star with the ephemeris: $HJD_{minI} = 2452707.522 + 0.536435 \times E$, range (unfiltered, near V): 12.7 – 13.1
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Name of the object:

GSC 4992-0663 = Brh V134

Remarks:

GSC 4992.0663 (RA: 14 ^h 36 ^m 28 ^s .4 DEC: −05°36'22", J2000) is a W UMa star with the ephemeris: $HJD_{minI} = 2452811.400 + 0.242075 \times E$, range (unfiltered, near V): 12.6 – 13.1
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Name of the object:

GSC 5749-1622 = Brh V137

Remarks:

Though W UMa stars often can be identified with an X-ray source, an entry in the ROSAT All-Sky Bright Source Catalogue (1RXS) is quite rare. GSC 5749-1622 (RA: 20 ^h 19 ^m 49 ^s .6 DEC: −12°30'38", J2000) can be identified with 1RXS J201950.0-123037, the Tycho-2 Spectral Type Catalog gives the spectral type F8/G0 V, corresponding to an effective temperature of 6200 K. Ephemeris: $HJD_{minI} = 2452909.387 + 0.418895 \times E$, range (unfiltered, near V): 9.7 – 10.3 .

Date: 2 September 2004

Reported by:

Złoczewski, K. - Warsaw University Astronomical Observatory, kzlocz@astrouw.edu.pl
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Name of the object:

TU Tri

Remarks:

An outburst (14.6 mag) was reported by M. Simonsen on January 1 2003. The last reported possible outburst was in 1998, further two outbursts were recorded in 1995. K. Torii confirmed that it was still in outburst on January 4 2003, and the resultant light curve showed no superhumps (vsnet-campaign-dn 3237, 3262). Our light curve on January 1/2 2003 shows clear superhumps with period 0.0745d estimated from the two observed minima. VAR–COMP denotes the difference of the magnitude of the variable and the magnitude corresponding to the sum of intensities of the comparisons. A small variation is found between C1 and C2 (up to 0.05 mag., see fig. 5599-f19), however, this does not affect the result we found on TU Tri.
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Date: 3 November 2004
Reported by: Baranov, A. - Moscow Astronomy Club (c/o Sternberg Astron. Inst.)
Name of the object: KP Dra
Remarks: Min(I)=JD2448122.49+2.012415 × E. Bpg=12.8 – 16.0.

Date: 9 November 2004
Reported by: Bernhard, K.- BAV, Austria, klaus.bernhard@liwest.at Frank, P.- BAV, Germany, frank.velden@t-online.de Moschner, W. - BAV, Germany, wolfgang.moschner@t-online.de Proksch, W. - BAV, Germany, willi.proksch@t-online.de
Name of the object: GSC 2144.1499 = Brh V152
Remarks: GSC 2144.1499 (RA: 19 ^h 55 ^m 11 ^s .6 DEC: +24°57'10'', J2000) is a WUMa star with the ephemeris: HJDminI = 2453284.307 + 0.36424 × E, range (unfiltered, near V): 13.1 – 13.6

Name of the object: GSC 1830.1432 = Brh V129
Remarks: GSC 1830.1432 (RA: 04 ^h 43 ^m 41 ^s .3 DEC: +22°53'38'', J2000) is a WUMa star with the ephemeris: HJDminI = 2452928.5399 + 0.271825 × E, range (unfiltered, near V): 11.5 – 11.8

Name of the object: GSC 1419.0091 = Brh V132
Remarks: GSC 1419.0091 (RA: 10 ^h 11 ^m 59 ^s .2 DEC: +16°52'30'', J2000) is a WUMa star with the ephemeris: HJDminI = 2452754.4602 + 0.266727 × E, range (unfiltered, near V): 11.4 – 11.7

Date: 9 November 2004
Reported by: Pejcha, Ondrej - Nicholas Copernicus Observatory and Planetarium, Brno, Czech Republic, pejcha@astro.sci.muni.cz Mikulasek, Zdenek - Institute of Theoretical Physics and Astrophysics, Masaryk University in Brno, Kotlarska 2, 611 37 Brno, Czech Republic Hroch, Filip - Institute of Theoretical Physics and Astrophysics, Masaryk University in Brno, Kotlarska 2, 611 37 Brno, Czech Republic

Name of the object:
TrES-1 = GSC 02652-01324
Remarks:
Using a simple model of exoplanet transit and a new robust method for O–C determination (both will be elaborated thoroughly elsewhere - Mikulasek et al., 2005) we have derived mid-transit timings for TrES-1 exoplanet transits on two dates. Namely, $JD_{\text{hel}} = 2\,453\,253.4685(6)$ (open circles) $JD_{\text{hel}} = 2\,453\,256.4985(18)$ (V - dots, Rc - open squares) The O–C with respect to Alonso et al. (2004) ephemeris are (0.0012 ± 0.0007) and (0.0010 ± 0.0018) , respectively.

Date: 10 November 2004
Reported by: Khruslov, A.V., Tula, Russia, khruslov@bk.ru SkyDOT team - http://skydot.lanl.gov Pojmanski, G., - ASAS, http://www.astrouw.edu.pl/~gp/asas

Name of the object:
V523 Aur = GSC 2965-00210 = NSVS 4705573 = Mis V0002
Remarks:
V523 Aur , an E: star in the GCVS, is a W UMa star with the elements: $JD_{\text{min1}} = 2451518.32 + 0.33043 \text{ d} \times E$, range 13.4 – 14.2(R) according to ROTSE1 data.

Name of the object:
FT Boo = GSC 3465-00188 = NSVS 5115340 = Tmz V042
Remarks:
FT Boo is currently listed in the GCVS as type L:. According to ROTSE1 data, it is an RRAB star with the following elements: $JD_{\text{max}} = 2451422.190 + 0.458775 \text{ d} \times E$, range 13.4 – 14.6 (R), M–m 0.15 P

Name of the object:
FU Boo = GSC 1472.01141 = NSVS 10517999 = ASAS 142254+1932.2 = Tmz V734
Remarks:
FU Boo , an LB: star in the GCVS, is an RRAB star with the elements: $JD_{\text{max}} = 2451432.74 + 0.65357 \text{ d} \times E$, range 13.6 – 14.6 (R), 13.2 – 14.6 (V), M–m 0.18 P according to ROTSE1 and ASAS-3 data.

Name of the object:
CF Cam = GSC 3728.01092 = NSVS 1965946 = IRAS 03314+5804
Remarks:
CF Cam , a DCEP: star in the GCVS, is a classical Cepheid with the elements: JDmax = 2451366.0 + 9.44 d <i>times</i> E, range 11.2 – 11.7 (R) according to ROTSE1 data.
Name of the object:
GW Cnc = GSC 1399.01081 = NSVS 10127789 =ASAS 084813+2107.2 = Tmz V003
Remarks:
GW Cnc , an L: star in the GCVS , is actually an EW star with the elements: JDminI =2451554.023 + 0.281415 d \times E, range in 12.6 – 13.2 – 13.1 (R), 12.3 – 13.2 – 13.2 (V) according to ROTSE1 and ASAS-3 data.
Name of the object:
V602 Cyg = TYC 3190.00950 = NSVS 5904647
Remarks:
V602 Cyg is an L: star (spectral type G7) in the GCVS. According to NSVS data, it is an SRD star with the elements: JDmax = 2451260. + 34.5 d \times E, range 10.3 – 10.6 (R).
Name of the object:
DR Lyn = GSC 3421.02216 = NSVS 4785816 = Tmz V023
Remarks:
DR Lyn is an EA star in the GCVS without light elements. Light elements are: JDminI = 2451483.98 + 1.78080 d \times E , range 12.4 – 14.5 – 12.6 (R), D = 0.17 P according to ROTSE1 data.
Name of the object:
V344 Ser = GSC 0347.00695 = NSVS 13419554 = ASAS 151159+0602.3 = Tmz V044
Remarks:
V344 Ser , an L star in the GCVS , is actually an RRAB star with the elements: JDmax = 24 51416.837 + 0.46506 d \times E , range 13.1 – 14.3 (R), 12.7 – 14.5 (V), M–m 0.1 P according to ROTSE1 and ASAS-3 data.
Name of the object:
KQ UMa = GSC 4376.01629 = NSVS 782942 = Tmz V083
Remarks:
KQ UMa is an L: star in the GCVS. The star actually belongs to the RRAB type with the following elements: JDmax = 2451493.21 + 0.48635 d \times E, range 14.0 – 15.2 (R), M–m 0.1 P according to ROTSE1 data.
Name of the object:
OQ Vir = GSC 0306.00750 = NSVS 13266152 = ASAS 132543+0603.4 = Tmz V747
Remarks:
OQ Vir , an SR: star in the GCVS, is actually an RRAB star with the elements: JDmax = 2451475.75 + 0.603915 d \times E, range 13.6 – 14.7 (R), 13.1 – 14.5 (V), M–m 0.2 P according to ROTSE1 and ASAS-3 data.

Date: 22 November 2004
Reported by: Hoogeveen, G.J. - Bottelaarpassage 43, Almere 1315 EP, Netherlands, gertho@xs4all.nl
Name of the object: VX Dra
Remarks: We argue that VX Dra is identical to FU Dra, despite considerable difference in coordinates.

Date: 27 January 2005
Reported by: Németh, P. - University of Szeged, Hungary, pnemeth@titan.physx.u-szeged.hu Kiss, L.L. - University of Sydney 2006, NSW Australia Sárneczky, K. - University of Szeged, Hungary
Name of the object: HS 0705+6700 = GSC 4123-265
Remarks: New observations in Johnson V and Cousins I bands are presented for the precataclysmic binary HS 0705+6700. The new ephemeris, improved by seven new epochs of minimum, is $HJD(\min)=2453071.42845 + 0.095646783(8)E$.

References:

- Alonso, R., Brown, T.M., Torres, G., Latham, D.W., Sozzetti, A., Mandushev, G., Belmonte, J.A., Charbonneau, D., Deeg, H.J., Dunham, E.W., O'Donovan, F.T., Stefanik, R.P., 2004, *ApJL*, **613**, L153
Mikulasek, Z., et al., 2005, in preparation