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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.

Previous reports can be found in IBVS No. 5699.

The Editors

Date: 7 November 2006

Reported by:

Blättler, E. - BBSAG, Switzerland, blaettler-wald@bluewin.ch
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Diethelm, R. - BBSAG, Switzerland, rdiethelm@gmx.ch

Blättler has performed CCD observations in the V and R bands on the following stars with a SBIG ST-7 camera attached to his 0.15-m Starfire refractor in Wald, Switzerland, during 8 nights between JD 2453858 and JD 2453910.

Name of the object:

GSC 1518-913 = NSVS 10695152 = ASAS 162446+2139.1

Remarks:

A total of 166 measurements in both colours were obtained, using GSC 1518-635 (10.50 mag) as comparison and GSC 1518-649 (10.75 mag) as check star. A linear regression of the 8 times of minimum with the ROTSE1 data yields the following results: Type: EW; JD (min I, hel) = 2453900.5264 + 0.321156 × E; $\Delta R(\text{prim.}) = 0.18 \text{ mag}$; $\Delta R(\text{sec}) = 0.15 \text{ mag}$. The $V - R$ colour curve shows no variation exceeding the accuracy of the photometry.
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Name of the object:

GSC 2587-1888 = NSVS 7913634

Remarks:

A total of 169 measurements in both colours were obtained, using GSC 2587-918 (11.02 mag) as comparison and GSC 2587-610 (11.03 mag) as check star. A linear regression of the 8 times of minimum with the ROTSE1 data yields the following results: Type: EW; JD(min I, hel) = 2453877.4694 + 0.310726 × E; $\Delta R(\text{prim.}) = 0.17 \text{ mag}$; $\Delta R(\text{sec}) = 0.17 \text{ mag}$. The $V - R$ colour curve shows no variation exceeding the accuracy of the photometry.

Name of the object:
GSC 2587-289 = NSVS 7912995
Remarks:
A total of 214 measurements in both colours were obtained, using SAO 65316 (10.39 mag) as comparison and SAO 65330 (10.06 mag) as check star. A linear regression of the 10 times of minimum with the ROTSE1 data yields the following results: Type: EW; $JD(\text{min I, hel}) = 2453898.3997 + 0.337043 \times E$; $\Delta R(\text{prim.}) = 0.41$ mag; $\Delta R(\text{sec}) = 0.36$ mag. The $V - R$ colour curve shows no variation exceeding the accuracy of the photometry.

Name of the object:
GSC 963-246 = NSVS 10670664 = NSVS 10732160 = ASAS 162745+1103.6
Remarks:
A total of 195 measurements in both colours were obtained, using GSC 963-370 (10.41 mag) as comparison and GSC 963-108 (11.32 mag) as check star. A linear regression of the 9 times of minimum with the ROTSE1 data yields the following results: Type: EW; $JD(\text{min I, hel}) = 2453906.4880 + 0.385493 \times E$; $\Delta R(\text{prim.}) = 0.33$ mag; $\Delta R(\text{sec}) = 0.30$ mag. The $V - R$ colour curve shows no variation exceeding the accuracy of the photometry.

Date: 8 November 2006
Reported by: Zboril, M. - Astronomical Institute, Tatranská Lomnica, 059 60, Slovakia, zboril@astro.sk

Name of the object:
FY Boo
Remarks:
FY Boo was observed in V and R colors with the 0.5m telescope / SBIG ST10 CCD camera of the Stará Lesná observatory, on May 3rd 2006. The comparison and check stars were GSC 1999-854 and GSC 1999-388, respectively.

Name of the object:
V523 Cas
Remarks:
V523 Cas was observed in V and R colors with the 0.5m telescope / SBIG ST10 CCD camera of the Stará Lesná observatory, on September 5th 2006. The comparison and check stars were GSC 3257-1068 and USNO-A2.0 1350-00691230, respectively.

Date: 31 January 2007
Reported by: Bedient, J. - Honolulu, Hawaii, jbedient@gmail.com
Name of the object: V2362 Cyg
Remarks: The field of V2362 Cyg was checked on 237 RH series plates in the Harvard College Observatory Plate Archive. The star was not detected on these plates, dating from 20 April 1928 to 5 August 1962. The mean limiting magnitude of these blue plates was 13.22. The comparison sequence used was that published by Frigo et al. (2006).

Date: 9 March 2007
Reported by: Blättler, E. - BBSAG, Switzerland, blaettler-wald@bluewin.ch Diethelm, R. - BBSAG, Switzerland, rdiethelm@gmx.ch

Blättler has performed CCD observations in the V and R bands on four EW stars with a SBIG ST-7 camera attached to his 0.15-m Starfire refractor in Wald, Switzerland. The observations were made during 6 nights between JD 2454066 and JD 2454114.

Name of the object: GSC 107-596 Ori = NSVS 12310076 = ASAS 050837+051218
Remarks: A total of 221 measurements in both colours were obtained, using GSC 107-1120 (10.85 mag) as comparison and GSC107-165 (10.69 mag) as check star. A linear regression of the 16 times of minima with the ROTSE1 data yields the following results: Type: EW; $JD(\text{min I, hel}) = 2454066.4302 + 0.2663496 \times E$; $\Delta R(\text{prim.}) = 0.60 \text{ mag}$; $\Delta R(\text{sec.}) = 0.54 \text{ mag}$. The $V - R$ colour curve shows no variation exceeding the accuracy of the photometry.

Name of the object: GSC 1283-53 Ori = NSVS 9553026 = ASAS 051305+155812
Remarks: A total of 236 measurements in both colours were obtained, using SAO 94388 (9.18 mag) as comparison and GSC 1283-239 (11.01 mag) as check star. A linear regression of the 12 times of minima with the ROTSE1 data yields the following results: Type: EW; $JD(\text{min I, hel}) = 2454066.5778 + 0.383004 \times E$; $\Delta R(\text{prim.}) = 0.42 \text{ mag}$; $\Delta R(\text{sec.}) = 0.39 \text{ mag}$. The $V - R$ colour curve shows no variation exceeding the accuracy of the photometry.

Name of the object:
GSC 702-1892 Ori = Brh V43 = NSVS 9512770 = ASAS 051245+101512
Remarks:
A total of 221 measurements in both colours were obtained, using GSC 702-2174 (11.03 mag) as comparison and GSC 702-2730 (12.42 mag) as check star. A linear regression of the 16 times of minima with the ROTSE1 data and the minimum reported by Nelson (2004) yields the following results: Type: EW; JD(min I, hel) = 2454083.5159 + 0.276945 × E; $\Delta R(\text{prim.}) = 0.67$ mag; $\Delta R(\text{sec.}) = 0.64$ mag. The $V - R$ colour curve shows no variation exceeding the accuracy of the photometry.

Name of the object:
GSC 706-845 Ori = NSVS 9508259 = ASAS 050830+113148
Remarks:
A total of 227 measurements in both colours were obtained, using GSC 706-30 (10.77 mag) as comparison and GSC 706-238 (11.13 mag) as check star. A linear regression of the 12 times of minimum with the ROTSE1 data yields the following results: Type: EW; JD(min I, hel) = 2454090.4610 + 0.342271 × E; $\Delta R(\text{prim.}) = 0.27$ mag; $\Delta R(\text{sec.}) = 0.24$ mag. The $V - R$ colour curve shows no variation exceeding the accuracy of the photometry.

Date: 13 July 2007
Reported by:
Arranz Heras, T., Observatorio "Las Pegueras", Navas de Oro, Segovia, Spain Sánchez-Bajo, F., Departamento de Física Aplicada, Escuela de Ingenierías Industriales, Universidad de Extremadura, Avda de Elvas s/n, 06071 Badajoz, Spain, fsanbajo@unex.es

Name of the object:
TX Cnc
Remarks:
785 measurements in the Johnson V filter have been obtained by Arranz Heras using a 0.35 m Schmidt-Cassegrain telescope and a Starlight MX916 CCD camera, during 8 nights between JD 2454144 and JD 2454163. Comparison star was GSC 1395-1090 ($V = 9.78$). A parabolic fit using 5 new minima timings along with other 70 obtained from the bibliography provide the following ephemeris: $\text{HJD}(\text{Min I}) = 2434426.4859(28) + 0.38288048(24) E + 3.20(39) \times 10^{-11} E^2$

References:

- Frigo, A. et al., 2006, IBVS, No. 5711
Nelson, R.H., 2004, IBVS, No. 5493