

New UV-type Variable Star USNO-B1.0 1101-0097009

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Star Name:	USNO-B1.0 1101-0097009
Coordinates (J2000):	06 05 26.83, +20 10 23.2
Variability type:	UV; Limits, System: 17.4 - 18.5 (V);
Period:	Epoch(max): JD

Remarks:

During observations of a field in Orion, we discovered a new UV-type variable star. A single flare was detected on HJD 2454781.59 (see the light curve). Our observations were carried out at the Astrotel-Caucasus observatory using its 300-mm Ritchey-Chretien telescope, equipped with an Apogee Alta U9000 CCD camera and a V filter. In total, 571 images with 5-minute exposures were obtained on JD 2454780 - 2454895. For basic reductions for dark current, flat fields and bias, and for photometry of the new variable, we used MaxIm DL software. The comparison star was GSC 01321-00472 (06:05:45.43, +20:09:20.4, J2000; V = 12.04), the check star was USNO-A2.0 1050-03072566 (06:05:35.13, +20:11:57.8, J2000). The V magnitude of the comparison star was taken from FON Astrographic Catalogue (Kislyuk et al. 1999). The coordinates of the variable star were drawn from the 2MASS catalogue (Cutri et al. 2003). The 2MASS colors of the variable (J - H = 0.763, H - K = 0.224) suggest a late spectral type.

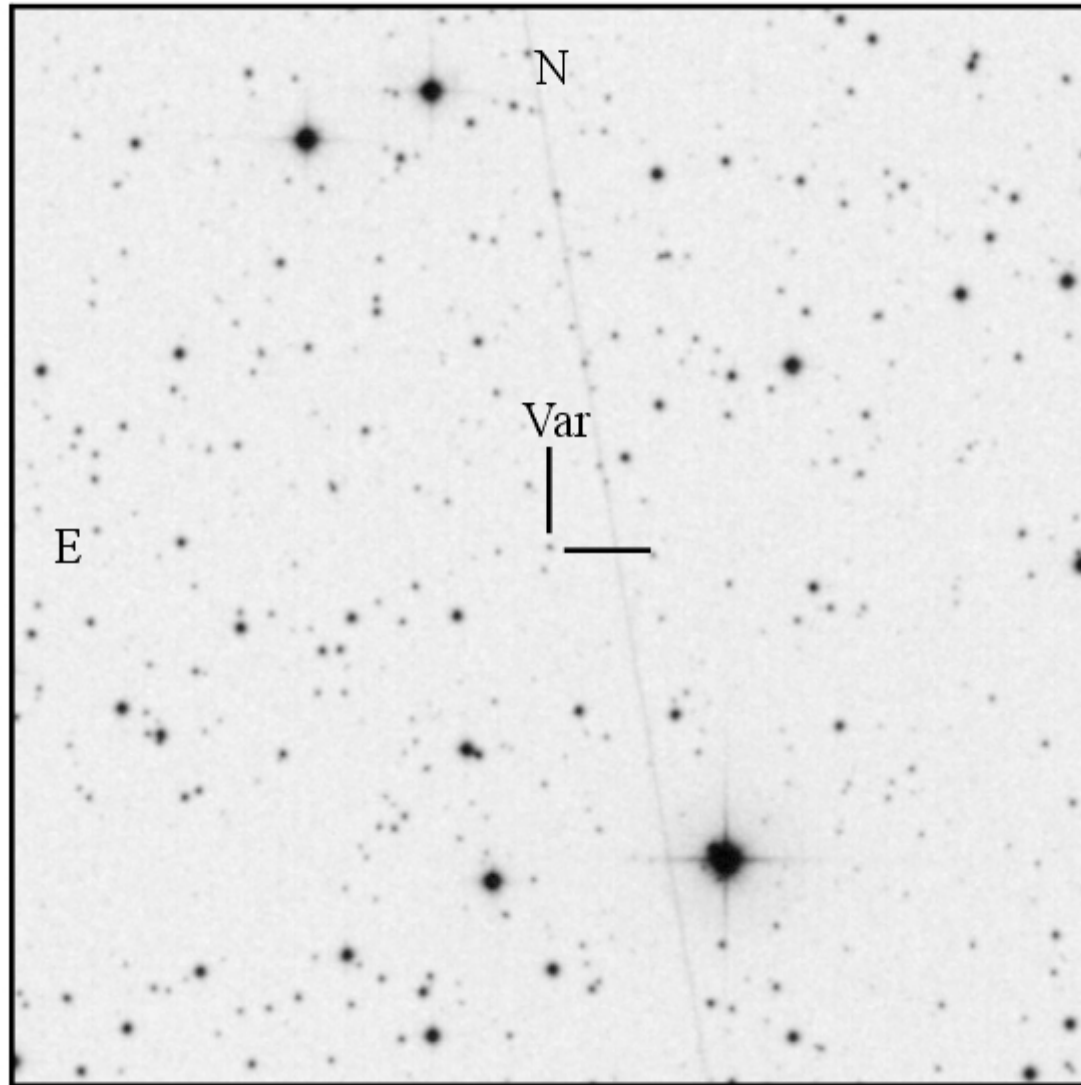
Acknowledgements: We would like to thank Dr. S.V. Antipin for helpful discussion.

References:

Cutri, R.M., Skrutskie, M.F., van Dyk, S., et al., 2003, 2MASS All Sky Catalog of Point Sources, Centre de Donnees Astronomiques de Strasbourg, II/246

Kislyuk, V., Yatsenko, A., Ivanov, G., Pakuliak, L., Sergeeva, T., 1999, The FON Astrographic Catalogue (FONAC), Centre de Donnees Astronomiques de Strasbourg, I/261

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STScI POSS2 Red

8.6'×8.6'

Data Source

1. [usno-b1.0-1101-0097009_data.txt](#)