

## New EW Variable Star GSC 0584-01373

[T. Kryachko](#)<sup>#1</sup>, [A. Samokhvalov](#)<sup>#2</sup>, [B. Satovskiy](#)<sup>#1</sup>

#1. Astrotel Observatory, Karachay-Cherkessia, Russia;

#2. Surgut, Russia

Received: 4.07.2008; accepted: 15.09.2008

(E-mail for contact: [bredfile@mail.ru](mailto:bredfile@mail.ru), [sav@surgut.ru](mailto:sav@surgut.ru), [bs25@mail.ru](mailto:bs25@mail.ru))

<b>Star Name:</b>	GSC 0584-01373, USNO-A2.0 0900-20378238, 2MASS 23200944+0632222		
<b>Coordinates (J2000):</b>	23 20 09.44, +06 32 22.3		
<b>Variability type:</b>	EW;	<b>Limits, System:</b>	14.65 - 14.81 (R);
<b>Period:</b>	0.36611 d;	<b>Epoch(min):</b>	JD 2454430.1837

### Remarks:

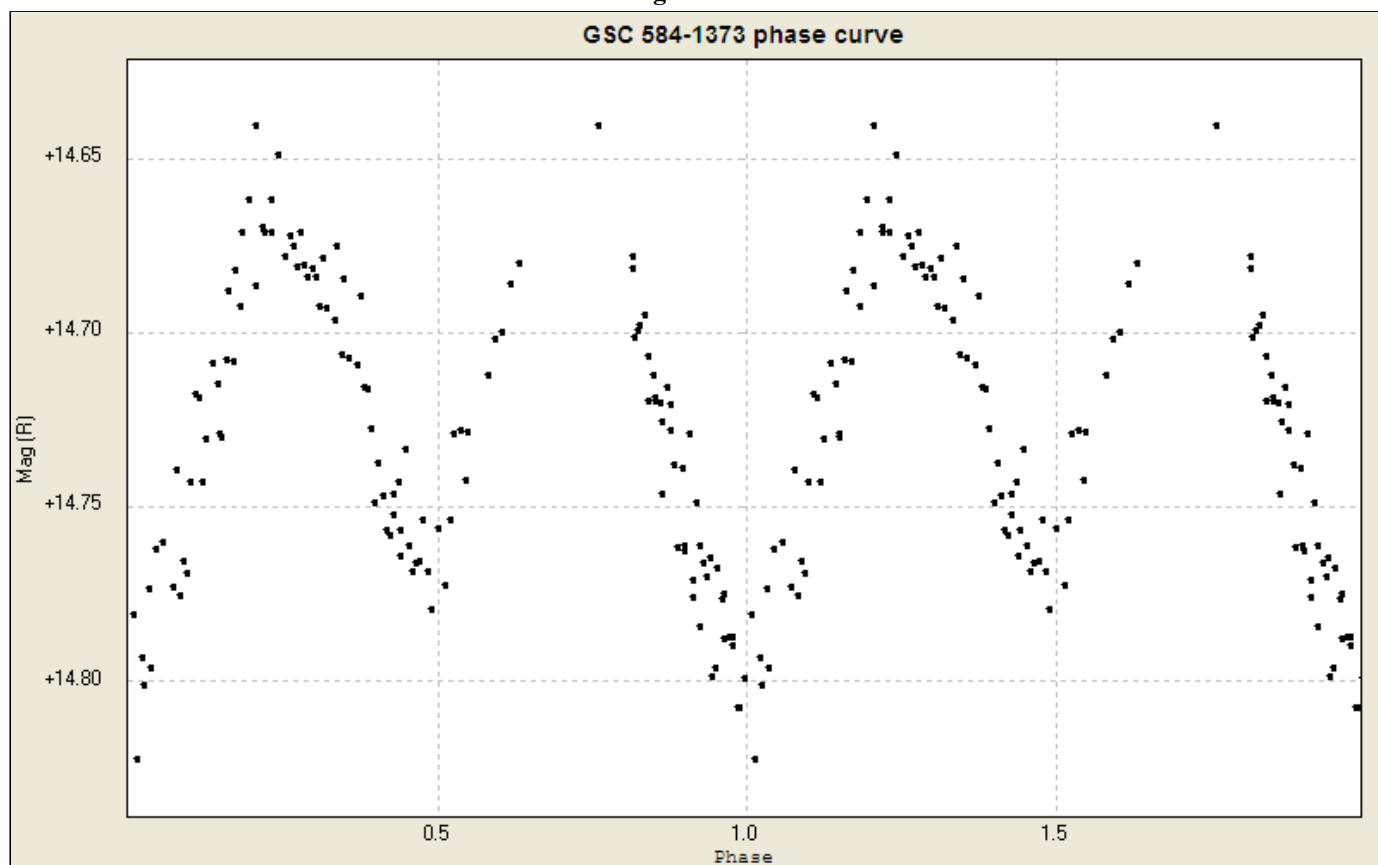
During observations of the field of AC Psc (Kryachko et al., 2008), we discovered a new eclipsing variable star. Our observations were carried out in Astrotel-Caucasus observatory using a 300-mm Ritchey-Chretien telescope, equipped with an unfiltered SBIG STL-11000 CCD camera. In total, 132 images with 5-minute exposures were obtained on JD 2454430 - 2454479. For basic reduction for dark current, flat fields and bias, we used the MaxIm DL software. For variable-star search and photometry of the new variable, we applied VaST software by Sokolovsky and Lebedev (2005). The comparison star was USNO-B1.0 0963-0596875 (23:20:10.60, +06:20:55.1 (J2000); R1 = 14.46, R2 = 14.63), assuming  $R_{comp} = 14.545$ . Based on our data and using Peranso 2.31 software (see <http://www.peranso.com>), we found a period of GSC 0584-01373,  $P=0.36611 \pm 0.00031$  days.  $MinII = 14.77$  R.

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

### References:

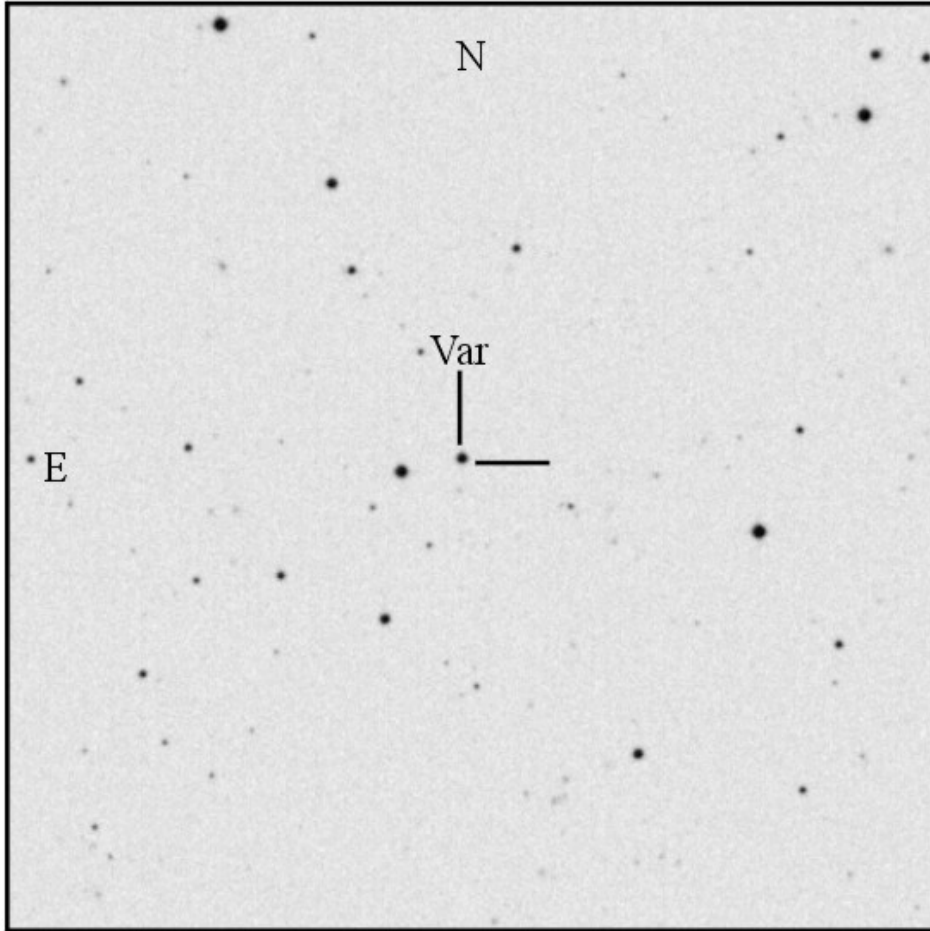
Kryachko, T., Samokhvalov, A., Satovskiy, B., Denisenko, D., Khruslov, A., 2008, PZP, 8, No. 17  
Sokolovsky, K., Lebedev, A., 2005, in 12th Young Scientists' Conference on Astronomy and Space Physics, Kyiv, Ukraine, April 19-23, 2005, eds.: Simon, A.; Golovin, A., p.79

### Light Curve



Finding Chart

GSC 584-1373



STScI POSS2 Red

8.6'×8.6'

Data Source

1. [gsc\\_584-1373.txt](#)