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GSC 3151_2126: A NEW VARIABLE

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Name of the object:
GSC 3151_2126

Equatorial coordinates:	**Equinox:**
R.A.= $20^{\rm h}15^{\rm m}17\overset{\rm s}{.}577$ **DEC.**= $+37°31'43\overset{''}{.}40$	2000.0

Observatory and telescope:
N. Copernicus Observatory and Planetarium, 0.4-m Newton telescope

Detector:	CCD, SBIG ST7

Filter(s):	Without filter

Comparison star(s):	GSC 3151_2212

Check star(s):	GSC 2684_0631, GSC 3151_2170

Transformed to a standard system:	No

Type of variability:	EA

Remarks:

The variability of GSC 3151_2126 was found while being used as comparison star for new variable GSC 2684_1255. CCD observations show that this star has light variations with an amplitude of 0.78 magnitude in the instrumental band. The range of light variations GSC 3151_2126 is between 11.73 to 12.51 magnitude.
A period was computed by neural network software LANCELOT (Gaspani 1999). The ephemeris is as follows:

$$\begin{array}{c} \text{Min JD}_{\rm hel} = 2451427.4063 + 0\overset{\rm d}{.}610510 \times E. \\ \pm 0.0013 \quad \pm 0.000035 \end{array}$$

The shape of the observed light curve corresponds to those of Algol type eclipsing binaries. During observation (from 15 Aug. to 31 Oct. 1999) four times of minima were recorded. Secondary minimum was not detected. Resulting times of light minima of the variable star GSC 3151_2126 are presented in Table 1. Figure 1 shows the light curve of GSC 3151_2126.

Table 1

Min JD hel 2400000 +	Uncertainty	E	$O-C$	Observer
51427.4094	±0.0013	0.0	0.0000	J. Šafář
51435.3488	±0.0013	26.0	−0.0020	M. Zejda
51449.3887	±0.0023	72.0	0.0012	J. Šafář

Acknowledgements:
Special thanks are due to Miloslav Zejda, who observed this object on my request.

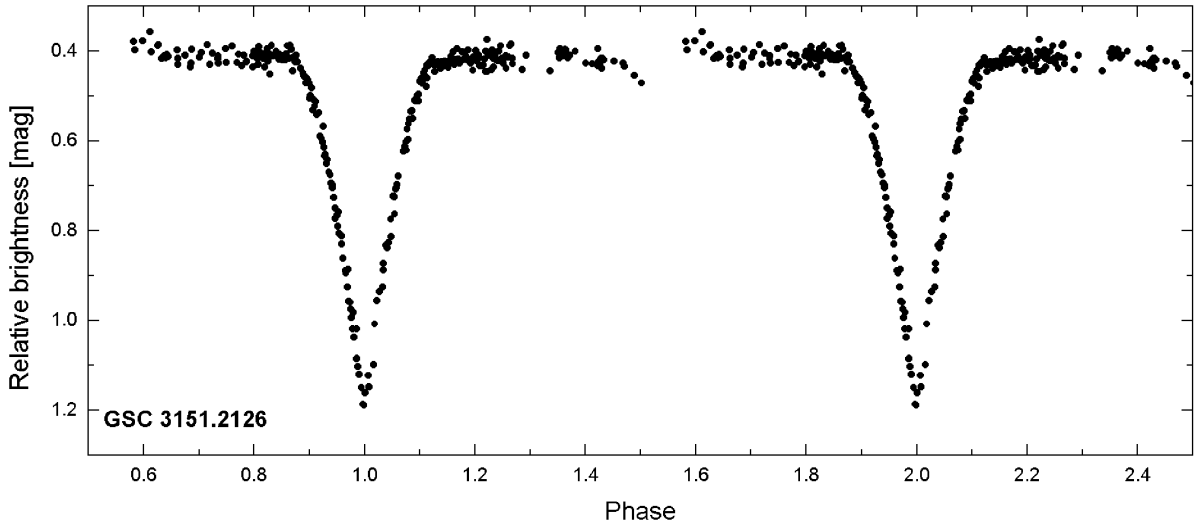

Figure 1.

Reference:

Gaspani, A., 1999, LANCELOT software, private communications