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NSV 15563 IS A NEW CLASSICAL CEPHEID

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Name of the object:	
NSV 15563 = Yarikov V6 = SVS 2683 = TYC2 4055 1349 1 = GSC 4055.1349	
Equatorial coordinates:	Equinox:
R.A.= 2 ^h 44 ^m 19 ^s .4 DEC.= +64°45'57"	J2000.0
Observatory and telescope:	
40-cm astrograph in Crimea	
Detector:	Photoplate
Filter(s):	None
Comparison star(s):	GSC 4055.0127 $B_{pg} = 12^m43$, GSC 4055.1385 $B_{pg} = 12^m93$, GSC 4055.1597 $B_{pg} = 13^m68$
Transformed to a standard system:	B_{pg}
Standard stars (field) used:	B -band standard sequence in NGC 1027 (Hoag et al. 1961)
Availability of the data:	
Upon request	
Type of variability:	DCEP
Remarks:	
<p>The variability of NSV 15563 was discovered by Yarikov (1984), who reported the photographic range 12^m5–13^m9 but did not classify the star. We estimated by eye the brightness of the suspected variable on 158 plates from Moscow archive, JD 2433150–47836. Our data show that the star is a classical Cepheid with the following light elements:</p> $JD_{\max} = 2439766.42 + 4^d.23869 \times E.$ <p>The color index from Tycho-2 is $B - V = +1.309 \pm 0.207$ in agreement with the δ Cep type. The variability range from our estimates (12^m6–13^m45) is notably smaller than that given by Yarikov. Max – min = 0^p40. The phased light curve is given in Fig. 1.</p>	

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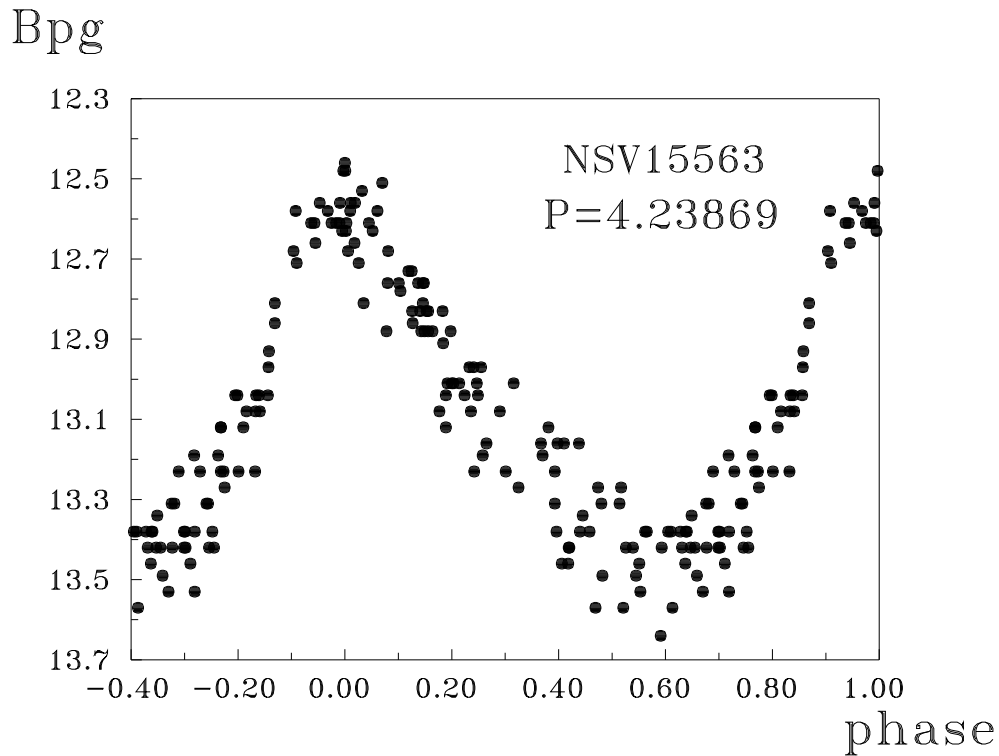


Figure 1. The phased light curve

References:

- Hoag, A.A., Johnson, H.L., Iriarte, B., Mitchell, R.I., Hallam, K.L., Sharpless, S., 1961,
Publ. of the US Naval Obs., vol. XVII, part VII, Washington
 Yarikov, S.F., 1984, private communication to the GCVS team