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GSC 4431_1446, A NEW RED VARIABLE IN DRACO

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Name of the object:	
GSC 4431_1446	
Equatorial coordinates:	Equinox:
R.A.= 19 ^h 06 ^m 52 ^s .7 DEC.= +68°26'26".2	2000.0
Observatory and telescope:	
L'Estelot Observatory 0.31-m Newtonian telescope; Mollerussa 0.26-m Schmidt–Cassegrain telescope	
Detector:	CCD
Filter(s):	V

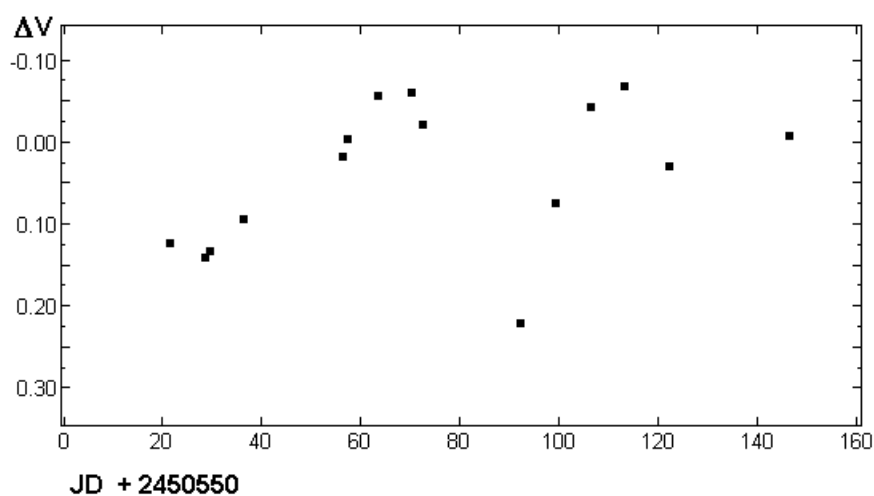


Figure 1. Observations from l'Estelot Observatory in 1996

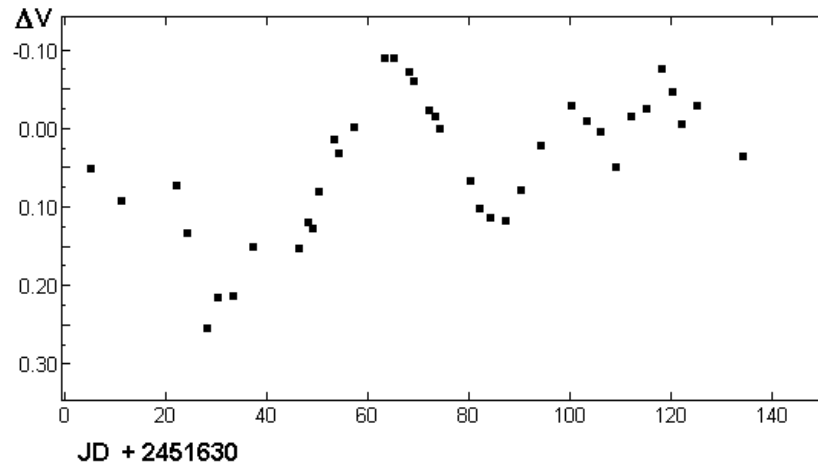


Figure 2. Observations from Mollerussa in 1999

Availability of the data:	
Upon request	
Type of variability:	SR
Comparison star(s):	GSC 4431_386 = TYC 4431 00386 1
Transformed to a standard system:	No
Remarks:	
<p>The variability of GSC 4431_1446 was discovered from l'Estelot Observatory (Figure 1) while photometrically monitoring NSV011766 (Garcia-Melendo and Nomen-Torres, 2000). CCD frames taken in the BVR_cI_c bands showed that this star is a red object. To obtain more information about its behaviour, GSC 4431_1446 was observed from Mollerussa in 1999 (Figure 2). This additional set of data showed that it is a low amplitude red variable. If the V magnitude of the comparison star computed from Tycho photometric data is taken into account (ESA 1997), our photometric measurements indicate a 0.34 V magnitude variation between 11^m02 and 11^m36. Nevertheless, due to its redness, colour transformations should be applied after performing multiband standard photometry to obtain more reliable standard magnitudes. After performing a preliminary period analysis strong peaks around 57 and 60 days were found in the periodograms. This result is somewhat uncertain because the observing time intervals are too short to obtain the true pulsation period for this star.</p>	

References:

- ESA, 1997, The Hipparcos and Tycho Catalogues, ESA SP-1200
 Garcia-Melendo, E., Nomen-Torres, J., 2000, *IBVS*, No. 4974