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NEW ECLIPSING VARIABLE IN THE FIELD OF QS GEMINORUM

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Name of the object:	
GSC 01342-01261	
Equatorial coordinates:	Equinox:
R.A. = 6 ^h 46 ^m 43 ^s DEC. = +20°53'21"	2000
Observatory and telescope:	
Observations made with the 0.4-m David Derrick Telescope of the Orson Pratt Observatory on the campus of Brigham Young University.	
Detector:	Pictor 416 XT CCD at the Newtonian focus which gives a plate scale of 0.93 arcsec/pixel
Filter(s):	Johnson V (Bessel, 1990)
Comparison star(s):	HD 263542 (GSC 01342-01109, $V = 9.72$) HD 48995 (GSC 01342-00517, $V = 8.61$)
Transformed to a standard system:	Johnson
Standard stars (field) used:	The two stars listed above
Availability of the data:	
Upon request from the authors	
Type of variability:	EA (Algol variable) — this is only a guess
Remarks:	
These observations were primarily to observe the delta Scuti star QS Gem. Since the magnitude of QS Gem is 8.847 compared to the new variables 11.29 the errors are fairly large. We also note that we only saw one complete secondary minimum and only part of one primary minimum. The true nature of the star is yet to be determined. However, we estimate a period of 1.32 d, with the secondary minimum having a drop of 0.18 mag and the primary having a drop of greater than 0.5 mag.	

Reference:

Bessell, M.S., 1990, *PASP*, **102**, 1181

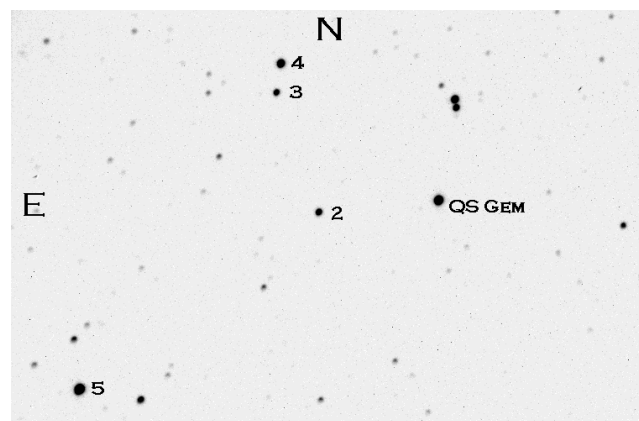


Figure 1. GSC 1342-1261 is labeled as No. 3

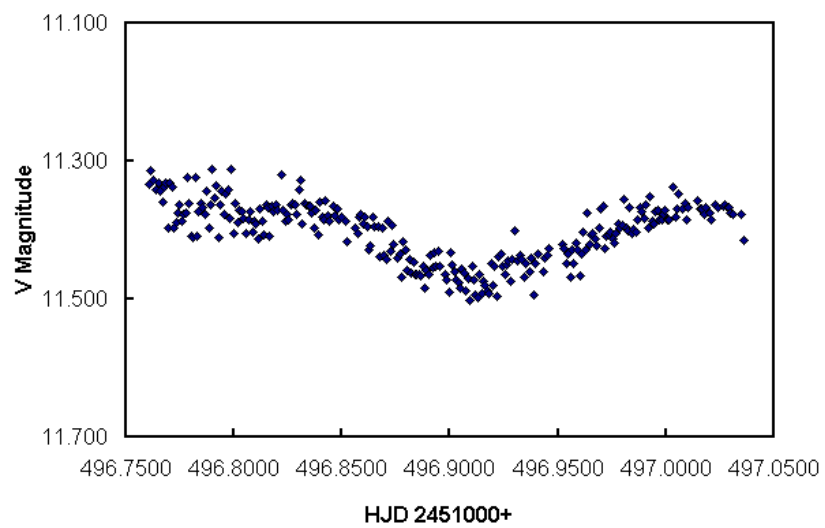


Figure 2.

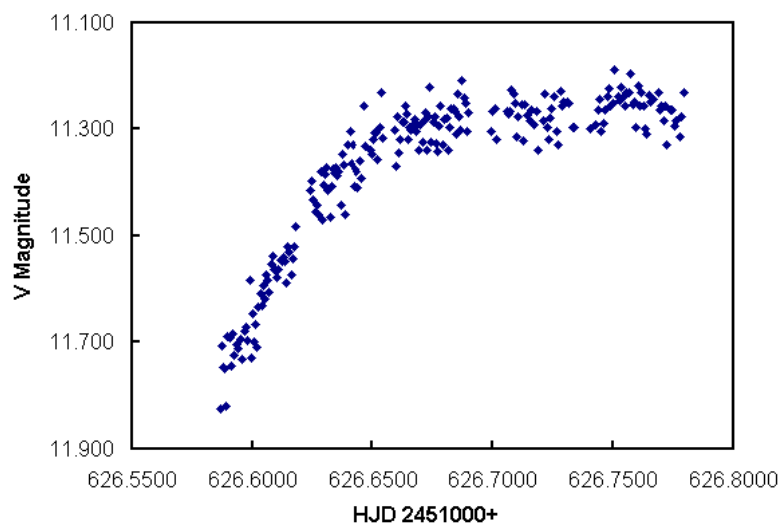


Figure 3.