

Three new variable star in Cygnus

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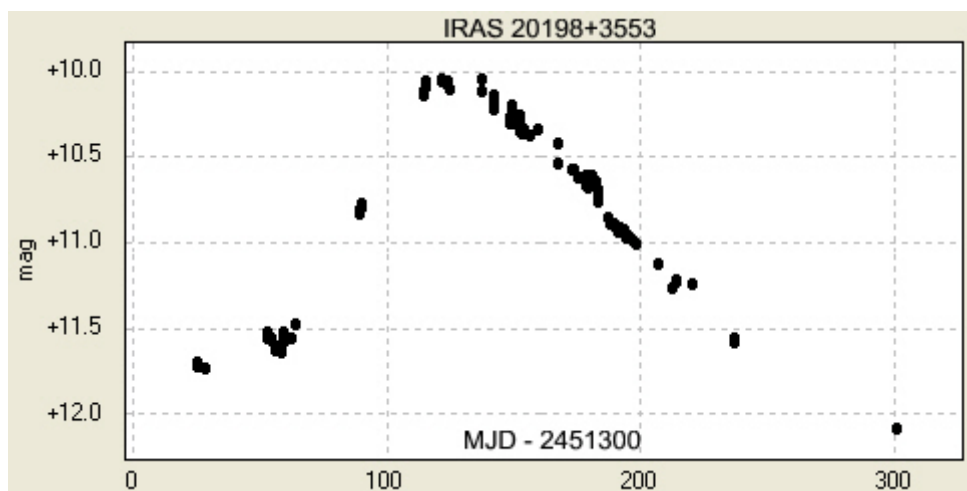
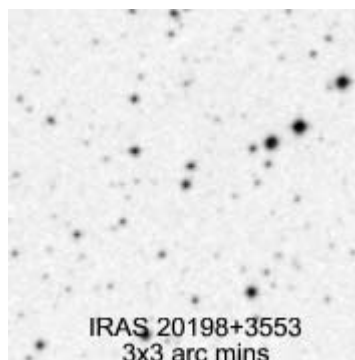
Abstract:

A search for variable stars has been conducted in the publicly available data of the Northern Sky Variability Survey (NSVS). The statistical properties of the star; the magnitude, magnitude scatter and median error were entered into a multi-factor algorithm to evaluate the most promising stars for further examination and analysis. The default settings for the NSVS user interface were used except, following the suggestion of Wils, Lloyd and Bernhard (2006), the APINCOMPL flag was set and the RADECFLIP flags unset.

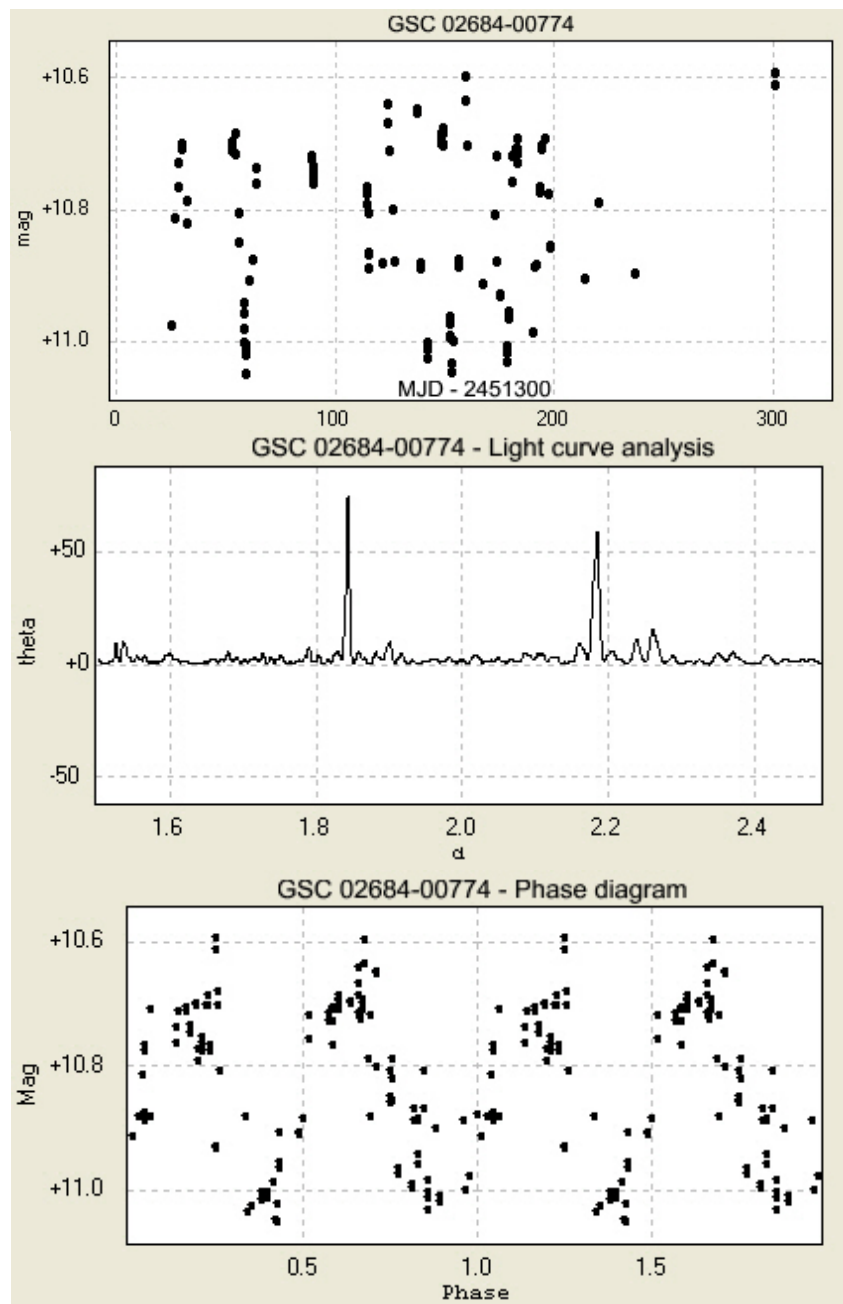
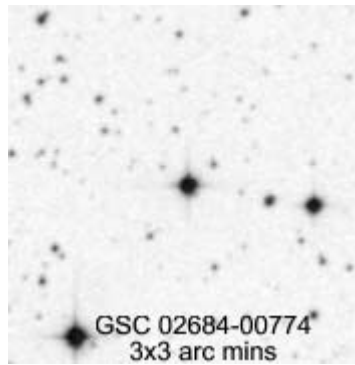
Notes:

The quoted magnitudes can be regarded as CR mags – that is resulting from an unfiltered, red sensitive CCD, using R band magnitudes.

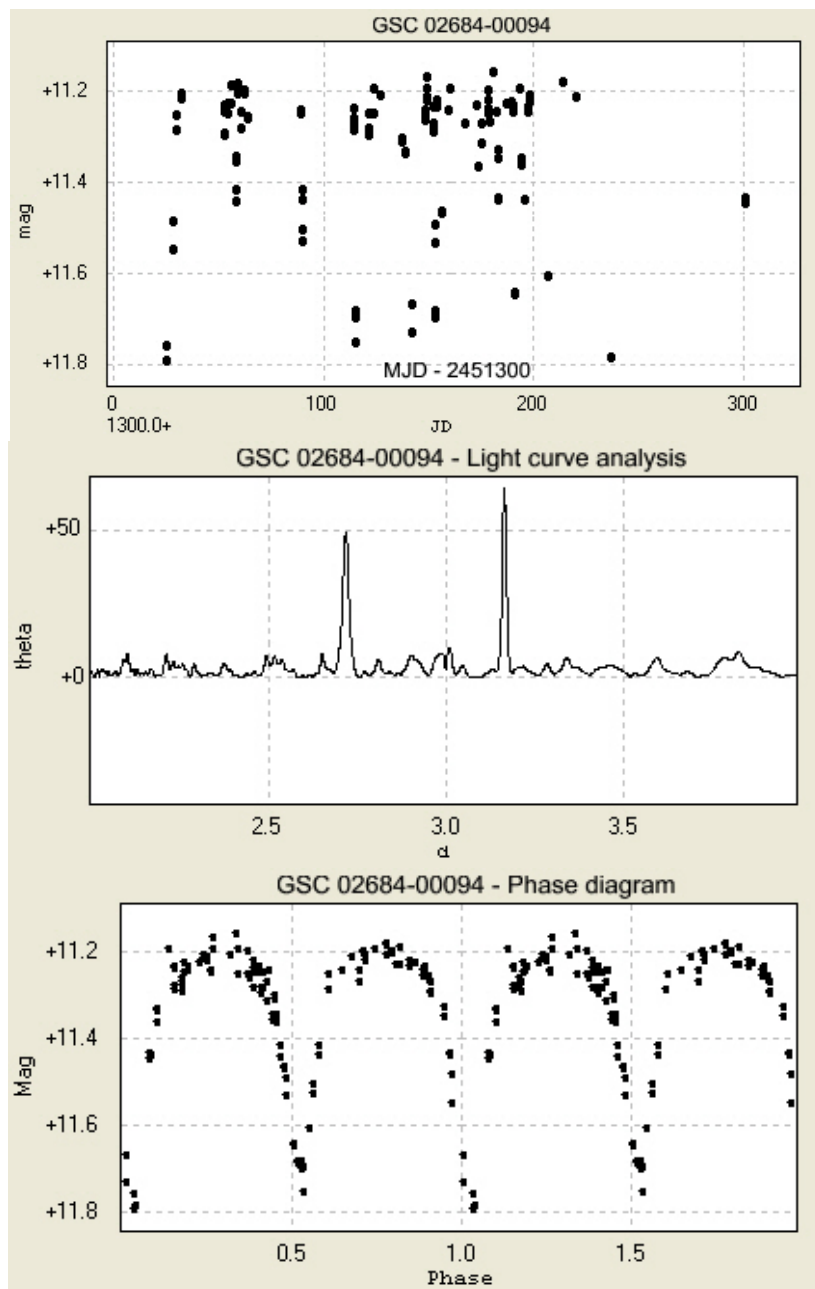
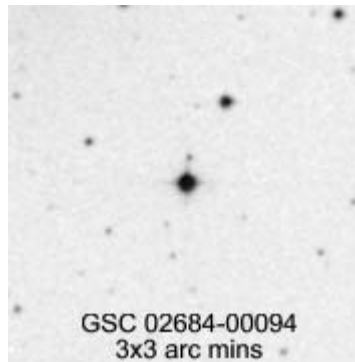
Star #1 : IRAS 20198+3553, type M?
20 21 48.1 +36 03 23 Link to original [NSVS](#) data and light curve



Star #2 : GSC 02684-00774, period 1.8437 days, type EB
20 16 03.07 +35 42 07.9 Link to original [NSVS](#) data and light curve



Star #3 : GSC 02684-00094, period 3.1616 days, type EB
20 23 33.54 +37 25 45.0 Link to original [NSVS](#) data and light curve



References

A Catalogue of RR Lyrae Stars from the Northern Sky Variability Survey
Patrick Wils, Christopher Lloyd, Klaus Bernhard

Mon. Not. R. Astron. Soc. 000, 1–25 (2006)

Websites

The Northern Sky Variability Study

<http://skydot.lanl.gov/nsvs/nsvs.php>

The Simbad Astronomical Database

<http://simbad.harvard.edu/Simbad>

The Combined General Catalogue of Variable Stars

<http://vizier.hia.nrc.ca/viz-bin/VizieR?-source=II/250>