

### PHOTOMETRIC OBSERVATIONS AND ANALYSIS OF 604 TEKMESSA

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CCD observations of the main-belt asteroid 604 Tekmessa were recorded during the period 2010 September to December. Analysis of the lightcurve found a synodic period of  $P = 5.5596 \pm 0.0001$  h and amplitude  $A = 0.49 \pm 0.01$  mag. The phase curve referenced to mean magnitude suggests the absolute magnitude and phase slope parameter  $H = 9.435 \pm 0.014$  and  $G = 0.112 \pm 0.013$ . The phase curve referenced to maximum light suggests  $H = 9.279 \pm 0.018$  and  $G = 0.165 \pm 0.017$ .

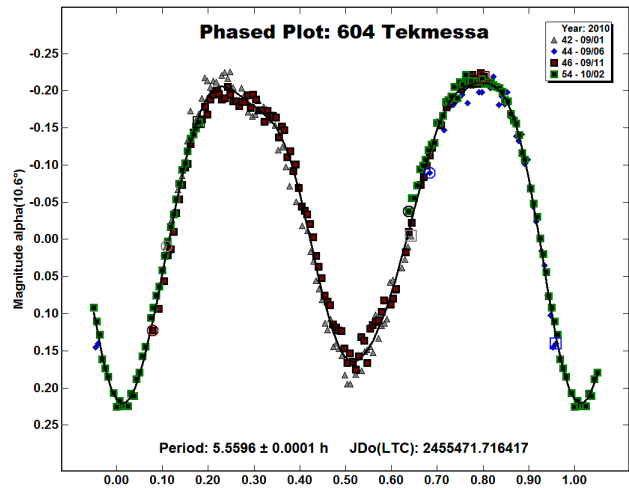


Figure 2. Composite lightcurve L2:  $0 < \alpha < 7$  degrees.

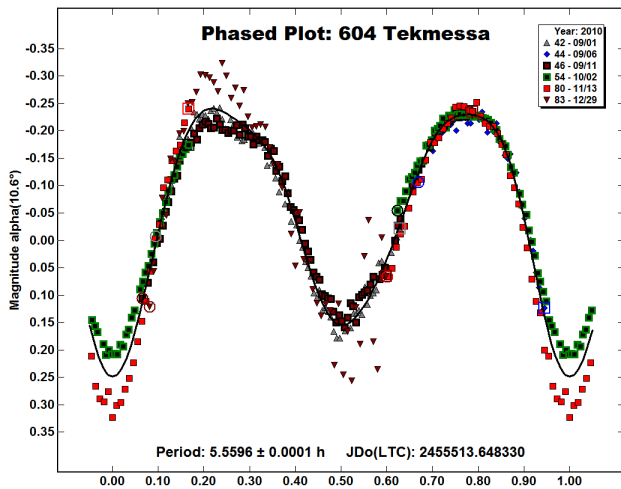


Figure 1. Composite lightcurve L1:  $0 < \alpha < 23$  degrees.

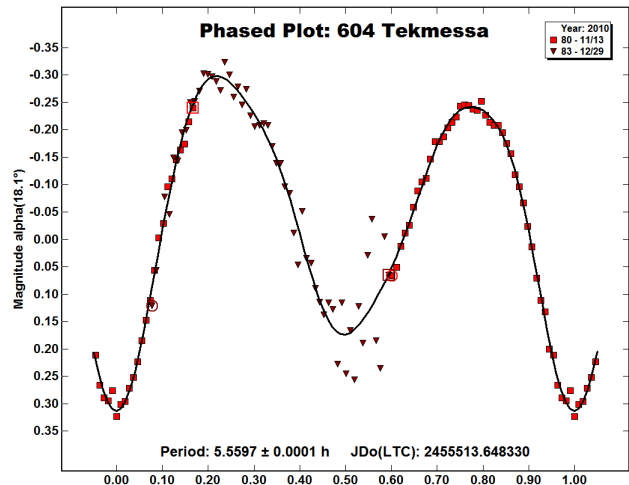


Figure 3. Composite lightcurve L3:  $15 < \alpha < 23$  degrees.

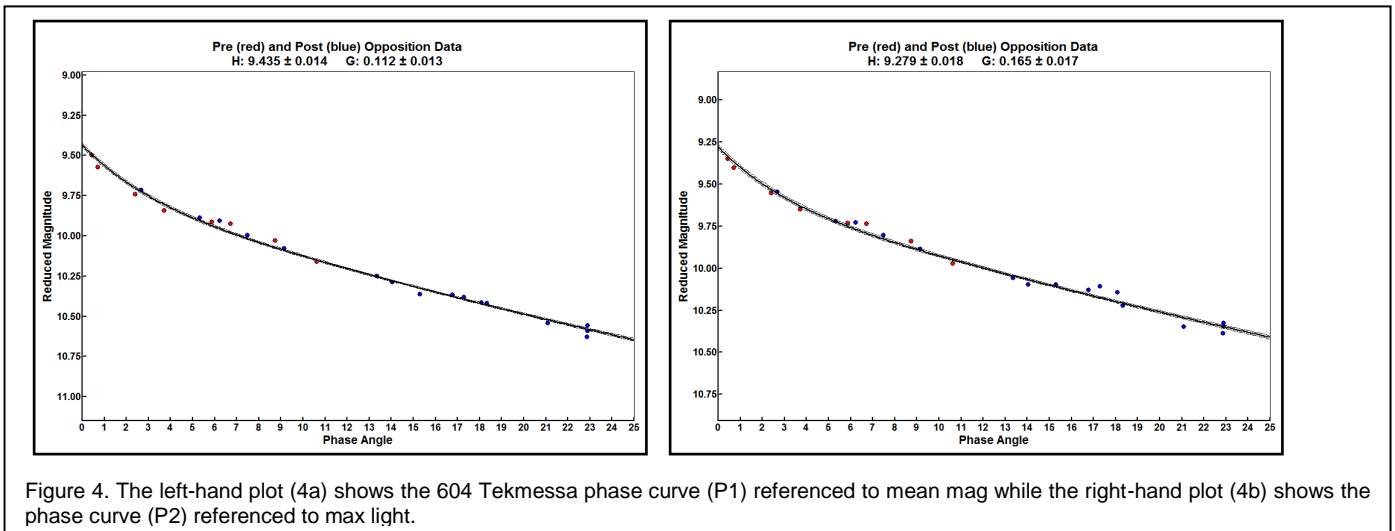


Figure 4. The left-hand plot (4a) shows the 604 Tekmessa phase curve (P1) referenced to mean mag while the right-hand plot (4b) shows the phase curve (P2) referenced to max light.