

## PERIOD DETERMINATION FOR 1704 WACHMANN

William M. Julian II  
 Sandia View Observatory  
 4597 Rockaway Loop  
 Rio Rancho, NM 87124  
 mack-julian@cableone.net  
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Asteroid 1704 Wachmann was observed on 2 nights in April 2007. The lightcurve was found to be 3.314h  $\pm$ 0.001h and amplitude of 0.20m  $\pm$ 0.05.

Observations of 1704 Wachmann were carried out at Sandia View Observatory (MPC code H03). SVO contains a permanently mounted 0.30m f/10 Meade SCT OTA and SBIG ST-10XME CCD camera mounted on a Bisque Paramount ME. Telescope control was handled thru *Astronomers Control Panel* (ACP) software which handled automatic meridian flips and multiple target asteroids throughout the all night imaging sessions. The CCD was controlled via *MaxIm/DL* thru ACP. Imaging was done unfiltered to maximize signal to noise, with exposures of 120 seconds at bin 2 for an image scale of 0.95 arc seconds per pixel. Automatic bias, dark and flat reductions were handled thru ACP and *MaxIm/DL* using master reduction files. Photometric measurements and lightcurves were prepared using *MPO Canopus*.

Asteroid 1704 Wachmann was selected from the CALL website "List of Potential Targets" (Warner 2006). This asteroid was then checked with the list of known asteroid lightcurves parameters maintained by Alan Harris (Harris 2006) to observe an asteroid that had no known period.

The asteroid showed a well fitting bimodal curve after only two nights of observations. A total of 294 observations were gathered over two nights in April to derive a period of 3.314 h  $\pm$ 0.001h and amplitude of 0.20m  $\pm$ 0.05. Further observations were unsuccessful due to early monsoonal weather.

### References

Harris, A.W., Warner, B.D. Minor Planet Lightcurve Parameters. 2006 March 14. <http://www.cfa.harvard.edu/iau/lists/LightcurveDat.html>

CALL website supported by Brian D. Warner. <http://www.minorplanetobserver.com/astlc/default.htm>

