

Brian D. Warner
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Astronomy Background

Director, Palmer Divide Observatory, Colorado Springs, CO

Owner/Director of the privately funded observatory established in 1999.

Assistant Editor and Contributing Author, Minor Planet Bulletin

Regular articles include a list of targets of interest for lightcurve work and an annual listing of asteroid-deepsky appulses. As Assistant Editor, I do first pass editing on the majority of articles submitted for publication.

Author, A Practical Guide to Lightcurve Photometry and Analysis

The book covers the basics of photometry and reductions as well as lightcurve period analysis. *Sky and Telescope*, *Astronomy*, the *Journal of the British Astronomical Association*, and the *Minor Planet Bulletin* reviewed it very favorably.

Software Development

Writer of MPO Canopus, an astrometry and photometry program widely used by asteroid and variable star observers for lightcurve measurement and period analysis.

Education

University of Colorado, Colorado Springs

Completed approximately two years towards B.S. in Physics, including core requirements, Physics, Chemistry, and Math.

James Cook University, Townsville, Queensland, Australia

Graduated October 2005. Courses completed with High Distinction. BS requirement waived in lieu of research and publication record.

Memberships / Organizations

Full Member - American Astronomical Society - Division of Planetary Sciences

Society for Astronomical Sciences

Member of the Program Committee. Editor of annual proceedings.

Awards

American Astronomical Society (2006)

Chambliss Award for Amateur Achievement (2006), First recipient

Riverside Telescope Makers Conference

Clyde Tombaugh Award for Creative Innovation in Astronomy (2007)

Research and Educational Publications by Brian D. Warner

Books and Reviews

Binzel, Richard P., Book Review: "A Practical Guide to Lightcurve Photometry and Analysis (second edition)". 2006. *Minor Planet Bulletin* **33**, 91.

Warner, B.D., "A Practical Guide to Lightcurve Photometry and Analysis (second edition)". Springer, 2006. pp. 298.

Binzel, Richard P., Book Review: "A Practical Guide to Lightcurve Photometry and Analysis (first edition)". 2004. *Minor Planet Bulletin* **31**, 45-46.

Book Review: "A Practical Guide to Lightcurve Photometry and Analysis". 2003. *Sky and Telescope* **107**, 76.

Miles, Richard, Book Review: "A Practical Guide to Lightcurve Photometry and Analysis (first edition)". 2004. *Journal of the British Astronomical Association* **114**, p. 38.

Warner, Brian (no relation), Book Review: "A Practical Guide to Lightcurve Photometry and Analysis (first edition)". 2003. *Astronomy* October 2004.

Warner, B.D., "A Practical Guide to Lightcurve Photometry and Analysis". Bdw Publishing, 2003. pp. 266.

Published/Pending Research Papers

2007

Warner, B.D., Higgins, D., Dyvig, R., Reddy, V., "A Shape and Spin Axis Model for the Hungaria Asteroid, 1600 Vyssotsky". 2007., *Minor Planet Bulletin*, in preparation.

Warner, B.D., Kaasalainen, M., Harris, A.W., Pravec, P., "Lightcurve Photometry Opportunities October-December 2007". 2007. *Minor Planet Bulletin*, in press.

Warner, B.D., "Initial Results from a Dedicated H-G Project". 2007. *Minor Planet Bulletin*, in press.

Warner, B.D., Stephens, R.D., Behrend, R., Poncy, R., Klotz, A., Dyvig, R., Reddy, V., Antonini, P., Crippa, R., Leroy, A., Goncalves, R., Kryszczynska, A., Barbotin, E., "Lightcurve Analysis of 235 Carolina". 2007. *Minor Planet Bulletin*, in press.

Warner, B.D., Behrend, R., Poncy, R., Coliac, J-F., "Lightcurve Analysis of 758 Mancunia". 2007. *Minor Planet Bulletin*, in press.

Warner, B.D., "Asteroid Photometry at the Palmer Divide Observatory". 2007. First Workshop on Binaries in the Solar System, Steamboat Springs, CO. Aug. 20-23.

Kramer, E., Margot, J.L., Warner, B.D., Hicks, M., Young, J., Bauer, J., Wiggins, P., "Observations of Mutual Events in Binary Asteroid (22) Kalliope/Linus". 2007. Abstract, submitted, DPS 39, Orlando, FL.

Sicardy, B., Colas, F., and 27 co-authors, "Pluto's Atmospheric Activity, Ephemeris Offset, and Satellite Detections from Observations in 2007". 2007. Abstract, submitted, DPS 39, Orlando, FL.

Warner, B.D., Harris, A.W., "Update on the Comparative Study of NEA versus Hungaria Populations via Lightcurve Analysis." 2007. Abstract, submitted, DPS 39, Orlando, FL.

Durech, J., Kaasalainen, M., Warner, B.D., "New Asteroid Models Derived from Combined Photometric Data". 2007. Abstract, submitted, DPS 39, Orlando, FL.

Warner, B.D., Margot, J.L., "(22) Kalliope and (22) Kallipe I (Linus)". 2007. CBET 861.

Durech, J., Kaasalainen, M., and 40 co-authors, "Physical Models of Ten Asteroids from an Observer's Collaboration Network". 2007. *Astronomy and Astrophysics* **465**, 331-337.

Warner, B.D., Harris, A.W., "Asteroid Lightcurve Photometry at the Palmer Divide Observatory". 2007. Poster presentation 89.05 at AAS 210th meeting. *BAAS* **39**, 202.

Warner, B.D., "Initial Efforts at Lightcurve Inversion". 2007. *Proceedings for the 26th Annual Symposium on Telescope Science*, Warner et al., ed., 79-88.

Warner, B.D., Kaasalainen, M., Harris, A.W., Pravec, P., "Lightcurve Photometry Opportunities July-September 2007". 2007. *Minor Planet Bulletin* **34**, 92-94.

Warner, B.D., Pravec, P., Kusnirak, P., Higgins, D., Kanuchova, Z., Husarik, M., Galad, A., Vilagi, J., "Lightcurve Analysis of (12735) 1991 VV1". *Minor Planet Bulletin* **34**, 83-84.

Warner, B.D., "Asteroid Lightcurve Analysis at the Palmer Divide Observatory: December 2006 – March 2007". 2007, *Minor Planet Bulletin* **34**, 72-77.

Warner, B.D., Kaasalainen, M., Harris, A.W., Pravec, P., "Lightcurve Photometry Opportunities January-March 2007". 2007. *Minor Planet Bulletin* **34**, 50-51.

Stephens, R.D., Warner, B.D., "Lightcurve Analysis of (34777) 2001 RH". 2007. *Minor Planet Bulletin* **34**, 46.

Sada, P.V., Warner, B.D., "Rotation Period of Asteroid 340 Eduarda and Refined Period for Asteroid 71 Niobe". 2007. *Minor Planet Bulletin* **34**, 37-38.

Warner, B.D., "Asteroid Lightcurve Analysis at the Palmer Divide Observatory: September-December 2006". 2007, *Minor Planet Bulletin* **34**, 32-37.

Higgins, D., Warner, B.D., Dymock, R., Crow, M., "Asteroid Lightcurve Analysis of 554 Peraga." *Minor Planet Bulletin* **34**, 30.

Warner, B.D., Kaasalainen, M., Harris, A.W., Pravec, P., "Lightcurve Photometry Opportunities January-March 2007". 2007. *Minor Planet Bulletin* **34**, 24-25.

Kaasalainen, M., Durech, J., Warner, B.D., Krugly, Y.N., Gaftonyuk, N.M., "Acceleration of the Rotation of Asteroid (1862) Apollo by Radiation Torques". 2007. *Nature* **446**, 420-422.

Warner, B.D., Stephens, R.D., Higgins, D., Pravec, P., "The Lightcurve of 2131 Mayall in 2006." 2007. *Minor Planet Bulletin* **34**, 23.

Warner, B., "The Minor Planet Observer: Making Life Easier. Some Changes in the MPB Submission Guidelines." 2007, *Minor Planet Bulletin* **34**, 11-12.

Warner, B.D., "Asteroid Lightcurve Analysis at the Palmer Divide Observatory: June-September 2006". 2007, *Minor Planet Bulletin* **34**, 8-10.

Warner, B.D., "Asteroid-Deepsky Appulses", 2007. *Minor Planet Bulletin* **34**, 4.

2006

P. Pravec, P. Scheirich, P. Kušnirák, L. Šarounová, S. Mottola, G. Hahn, P. Brown, G. Esquerdo, N. Kaiser, Z. Krzeminski, Warner, B.D., *et al.* Photometric Survey of Binary Near-Earth Asteroids. 2006, *Icarus* **181**, 63-93.

Warner, B.D., Pray, D., Pravec, P., Cooney, W., Gross, J., Terrell, D., 2006. (34706) 2001 OP83. CBET 341.

Higgins, D., Pravec, P., Kusnirak, P., Warner, B.D., Galad, A., Oey, J., Goncalves, R., Cooney, W., Gross, J., Terrell, D. (2478) Tokai. 2007. CBET 824.

Warner, B.D., Harris, A.W., "A Comparative Study of Hungaria versus NEA Binary Population and Spin Axis Characteristics" (poster 59.17). 2006. *Bulletin of the American Astronomical Society* **38-3**, 596.

Warner, B.D., "Asteroid-Deep Sky Appulses", 2006. *Minor Planet Bulletin* **33**, 3.

Warner, B.D., Buchheim, R.K., "Lightcurve Analysis for (6327) 1991 GP1". 2006, *Minor Planet Bulletin* **33**, 6.

Warner, B.D., Jacques, C., Pimentel, E., Crawford, G., Behrend, R., Klotz, A., Stoss, R., Nomen, J., Sanchez, S., "Analysis of the Lightcurve of 1992 UY4". 2006. *Minor Planet Bulletin* **33**, 20-21.

Warner, B.D., Pravec, P., Kusnirak, P., Galad, A., Kornos, L., Pray, D.P., Cooney, W., Gross, J., Terrell, D., Nudds, S., Durkee, R., "The Enigmatic Lightcurve for the Hungaria Asteroid 5641 McCleese". 2006. *Minor Planet Bulletin* **33**, 21-23.

Warner, B.D., Gross, J., Harris, A.W., "Analysis of the Lightcurve for 6249 Jennifer". 2006. *Minor Planet Bulletin* **33**, 23-24.

Warner, B.D., Pravec, P., Kusnirak, P., Kanuchova, Z., Husarik, M., Higgins, D., "The Lightcurve for the Hungaria Asteroid 4243 Apparicio". 2006. *Minor Planet Bulletin* **33**, 24-25.

Warner, B.D., Kaasalainen, M., Harris, A.W., Pravec, P., "Lightcurve Photometry Opportunities January-March 2006". 2006. *Minor Planet Bulletin* **33**, 27-28.

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Warner, B.D., "Asteroid Lightcurve Analysis at the Palmer Divide Observatory: July-September 2005". 2006, *Minor Planet Bulletin* **33**, 35-39.

Warner, B.D., "Analysis of 13 Asteroid Lightcurves at the Palmer Divide Observatory". 2006. *Minor Planet Bulletin* **33**, 39-41.

Warner, B.D., "The Minor Planet Observer: A Victim of Prosperity". 2006. *Minor Planet Bulletin* **33**, 42.

Warner, B.D., "Lightcurve for Hungaria Asteroid 1600 Vyssotsky over Several Apparitions". 2006. *Minor Planet Bulletin* **33**, 45-46.

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Stephens, R.D., Warner, B.D., Pravec, P., "1857 Parchomenko: A Possible Main-Belt Asteroid". 2006. *Minor Planet Bulletin* **33**, 52.

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Warner, B.D., "Lightcurve Analysis at the Palmer Divide Observatory – Late 2005 and Early 2006". 2006. *Minor Planet Bulletin* **33**, 58-62.

Warner, B.D., "The Minor Planet Observer: The New Vermin of the Sky". 2006. *Minor Planet Bulletin* **33**, 62.

Warner, B.D., Kaasalainen, M., Harris, A.W., Pravec, P., "Lightcurve Photometry Opportunities July-September 2006". 2006. *Minor Planet Bulletin* **33**, 73-75.

Warner, B.D., "Asteroid Lightcurve Analysis at the Palmer Divide Observatory: February-March 2006". 2006. *Minor Planet Bulletin* **33**, 82-84.

Warner, B.D., "Asteroid Lightcurve Analysis at the Palmer Divide Observatory: March-June 2006". 2006. *Minor Planet Bulletin* **33**, 85-88.

Warner, B.D., Higgins, D., Bennett, T., Fauerbach, M., "The Lightcurve of Main-Belt Asteroid 774 Armor". 2006. *Minor Planet Bulletin* **33**, 95.

Warner, B.D., Pray, D.P., Pravec, P., "The Lightcurve of Hungaria Asteroid 6384 Kervin". 2006. *Minor Planet Bulletin* **33**, 99.

Warner, B.D., Shepard, M.K., Harris, A.W., Pravec, P., Crawford, G., Husarik, M., "Analysis of the Lightcurve of 71 Niobe". 2006. *Minor Planet Bulletin* **33**, 102-103.

Warner, B.D., "The Lightcurve of 1043 Beate and 1186 Turnera". 2006. *Minor Planet Bulletin* **33**, 104-105.

Warner, B.D., Kaasalainen, M., Harris, A.W., Pravec, P., "Lightcurve Photometry Opportunities October-December 2006". 2006. *Minor Planet Bulletin* **33**, 107-108.

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Warner, B.D., "Recent Asteroid Lightcurve Studies at the Palmer Divide Observatory". 2006. Proceedings for the 25th Annual Symposium on Telescope Science (Society for Astronomical Sciences), 117-124.

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Warner, B.D., "Observing Visual Double Stars with a CCD Camera at the Palmer Divide Observatory" (poster). 2006. Proceedings for the 25th Annual Symposium on Telescope Science (Society for Astronomical Sciences), 187.

2005

Warner, B.D., Pravec, P., Harris, A.W., Galad, A., Kusnirak, P., Pray, D.P., Brown, P., Krzeminski, Z., Cooney Jr., W.R., "Binary Hungarias (5905) Johnson and (9069) Hovland: Their Relations to Small Binary Vestoids and NEAs". 2005. Abstracts Book ACM 2005 (IAU Symposium 229). Poster P10.14, pg. 109.

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Warner, B.D., "Revised lightcurve Analysis for 1022 Olympiada and 3285 Ruth Wolfe". 2005. *Minor Planet Bulletin* **32**, 26.

Warner, B.D., "Asteroid lightcurve Analysis at the Palmer Divide Observatory – Fall 2004". 2005. *Minor Planet Bulletin* **32**, 29-32.

Warner, B.D., Bembrick, C., "A Revised Period for 3447 Burckhalter". 2005. *Minor Planet Bulletin* **32**, 40-41.

Warner, B.D., "Asteroid Lightcurve Analysis at the Palmer Divide Observatory – Winter 2004-2005". 2005. *Minor Planet Bulletin* **32**, 54-58.

Warner, B.D., Kaasalainen, M., Pravec, P., Harris, A. W., "Asteroid Photometry Opportunities – July-September 2005". 2005. *Minor Planet Bulletin* **32**, 69-71.

Warner, B.D., "Asteroid Lightcurve Analysis at the Palmer Divide Observatory – Spring 2005". 2005. *Minor Planet Bulletin* **32**, 90-92.

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Harris, A.W., Warner, B.D., Pravec, P., "Asteroid Lightcurve Parameters Data File". 2004. Asteroid Dynamics Workshop, Arecibo Observatory, Puerto Rico.

Warner, B.D., "Amateur Contributions to the Study of Asteroid Lightcurves". 2004. Asteroid Dynamics Workshop, Arecibo Observatory, Puerto Rico.

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Warner, B.D., "Rotation Rates for Asteroids 875, 926, 1679, 1796, 3915, 4209, and 34817". 2004. *Minor Planet Bulletin* **31**, 19-22.

Stephens, R.D., Warner, B.D., "Lightcurve Analysis of Koronis Family Asteroid 1635 Bohrmann". 2004. *Minor Planet Bulletin* **31**, 3-4.

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