

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

Acting Editor (2008/9)

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

Books and Reviews

Binzel, Richard P. (2006). Book Review: "A Practical Guide to Lightcurve Photometry and Analysis (second edition)". *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. (2004). Book Review: "A Practical Guide to Lightcurve Photometry and Analysis (first edition)". *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

2013

Warner, B.D.; Stephens, R.D.; Harris, A.W. (2013) "(1727) Mette." CBET, submitted. Binary asteroid discovery.

Warner, B.D. (2013) "(53432) 1999 UT_55." CBET, submitted. Binary asteroid discovery.

Warner, B.D.; Coley, D. (2013) "(16525) Shumarinaiko." CBET, submitted. Binary asteroid discovery.

Warner, Brian D. (2013) "Seeing Double Old and New: Observations and Lightcurve Analysis at the Palmer Divide Observatory of Six Binary Asteroids." *Minor Planet Bulletin* **40**, in press.

Warner, Brian D.; Pray, Donald P. (2013) "(51356) 2000 RY76: A New Hungaria Binary." *Minor Planet Bulletin* **40**, in press.

Warner, Brian D. (2012) "The Minor Planet Observer: 40 Years." *Minor Planet Bulletin* **40**, 50-52.

Warner, Brian D. (2013) "Rounding Up the Unusual Suspects." *Minor Planet Bulletin* **40**, 36-42.

Warner, Brian D.; Baker, Ronald E.; Bartczak, Przemyslaw; Marciniak, Anna; Sobkowisk, Krzysztof; Hirsch, Roman; Kaminski, Krzysztof; Bacci, Paolo; Franco, Lorenzo;

Vorobjov, Tomas; Holmes, Robert E., Jr. (2013) "2012 QG42: A Slow Rotator NEA." *Minor Planet Bulletin* **40**, 25-26.

Warner, Brian D. (2012) "Asteroid-Deeapsky Appulses in 2013." *Minor Planet Bulletin* **40**, 24.

Warner, B. D. (2013). "Asteroid Lightcurve Analysis at the Palmer Divide Observatory". *Minor Planet Bulletin* **40**,

"2012 June-September" 26-29

"2010 September-December" in press.

Warner, B. D.; Harris, A. W.; Pravec, P.; Benner, L.A.M.; Durech, J. "Lightcurve Photometry Opportunities" (2013). *Minor Planet Bulletin* **40**,

"2012 January-March" 54-58.

"2012 April-June" in press.

2012

Ďurech, J.; Vokrouhlický, D.; Baransky, A. R.; Breiter, S.; Burkhonov, O. A.; Cooney, W.; Fuller, V.; Gaftonyuk, N. M.; Gross, J.; Inasaridze, R. Ya.; Kaasalainen, M.; Krugly, Yu. N.; Kvaratshelia, O. I.; Litvinenko, E. A.; Macomber, B.; Marchis, F.; Molotov, I. E.; Oey, J.; Polishook, D.; Pollock, J.; Pravec, P.; Sárneczky, K.; Shevchenko, V. G.; Slyusarev, I.; Stephens, R.; Szabó, Gy.; Terrell, D.; Vachier, F.; Vanderplate, Z.; Viikinkoski, M.; Warner, B. D. (2012) "Analysis of the rotation period of asteroids (1865) Cerberus, (2100) Ra-Shalom, and (3103) Eger - search for the YORP effect." *Astron. Astrophys.* **547**, A109.

Warner, Brian D.; Harris, Alan W.; Sherrod, P. Clay; Bacci, Paolo; Franco, Lorenzo; Pollock, Joseph; Reichart, Daniel E.; Ivarsen, Kevin M.; Nysewander, Melissa C.; LaCluyze, Aaron P. (2012) "Lightcurve for NEA 2012 LZ1." *Minor Planet Bulletin* **39**, 252-253.

Warner, Brian D.; Coley, Daniel; Harris, Alan W. (2012) "Lightcurve for 7958 Leakey: A New Hungaria Binary." *Minor Planet Bulletin* **39**, 240-241.

Warner, Brian D.; Stephens, Robert D.; Coley, Daniel (2012) "Lightcurve for NEA 2012 KP24." *Minor Planet Bulletin* **39**, 238-239.

Stephens, Robert D.; Warner, Brian D. (2012) "Lightcurve for 205 Martha." *Minor Planet Bulletin* **39**, 233-234.

Warner, Brian D.; Harris, Alan W.; Pravec, Petr; Kusnirak, Peter; Hornoch, Kamil; Stephens, Robert D.; Pray, Donald P.; Husarik, Marek; Pollock, Joseph; Reichart, Daniel E.; Ivarsen, Kevin M.; Nysewander, Melissa C.; LaCluyze, Aaron P. (2012) "Lightcurve for 7758: A Possible Binary?." *Minor Planet Bulletin* **39**, 232-233.

Warner, Brian D.; Megna, Ralph (2012) "Lightcurve for 1090 Sumida." *Minor Planet Bulletin* **39**, 231.

Warner, Brian D.; Stephens, Robert D.; Coley Daniel (2012) "Lightcurve for the Hungaria Binary 5477 Holmes." *Minor Planet Bulletin* **39**, 230-231.

Warner, Brian D.; Stephens, Robert D. (2012) "Lightcurve for 2074 Shoemaker." *Minor Planet Bulletin* **39**, 225.

- Warner, Brian D.; KlingleSmith, Daniel A., III; Skiff, Brian A. (2012) "Lightcurve Inversion of 47035 (1998 WS)." *Minor Planet Bulletin* **39**, 216-220.
- Warner, Brian D.; Harris, A. (2012) "Eight Years in the Hungarias." American Astronomical Society, DPS meeting #44, #110.15.
- Harris, Alan W.; Pravec, Petr; Warner, Brian D. (2012) "Looking a gift horse in the mouth: Evaluation of wide-field asteroid photometric surveys." *Icarus* **221**, 226-235.
- Warner, Brian D.; Megna, Ralph (2012) "Lightcurve Analysis of NEA (192642) 1999 RD32." *Minor Planet Bulletin* **39**, 154.
- Warner, Brian D.; Brinsfield, James W.; Vilagi, Jozef, Kornos, Leos; Harris, Alan W. (2012) "(25884) 2000 SQ4: A New Hungaria Binary?" *Minor Planet Bulletin* **39**, 152-153.
- Warner, Brian D.; Pravec, Petr; Sherrod, P. Clay; Pollock, Joseph (2012) "Lightcurve Analysis of NEA 2011 YH40." *Minor Planet Bulletin* **39**, 140.
- Skiff, Brian A.; Bowell, Edward; Koehn, Bruce W.; Sanborn, Jason J.; McLelland, Kyle P.; Warner, Brian D. (2012) "Lowell Observatory Near-Earth Asteroid Photometric Survey (NEAPS) - 2008 May through 2008 December." *Minor Planet Bulletin* **39**, 111-130.
- Moskovitz, N. A.; Warner, B. D. (2012) "Rotational Properties of V-Type Asteroid 2579 Spartacus." ACM 2012, Niigata, Japan. No. 1667, id 6071.
- Harris, A. W.; Pravec, P.; Warner, B. D. (2012) "Looking a Gift Horse in the Mouth: Evaluation of Wide-Field Asteroid Photometric Surveys." ACM 2012, Niigata, Japan. No. 1667, id 6069.
- Warner, B. D.; Stephens, R. D.; Brinsfield, J. W.; Larsen, F. R.; Jacobsen, J.; Foster, J.; Richmond, M.; Franco, L. (2012) "CCD Photometric Observations of 2005 YU55 During the 2011 November Flyby." ACM 2012, Niigata, Japan. No. 1667, id 6013.
- Warner, Brian D.; Pravec, Petr; Kusnirak, Peter; Harris, Alan W. (2012) "A Trio of Tumbling Hungaria Asteroids." *Minor Planet Bulletin* **39**, 89-92.
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- Warner, Brian D.; Coley, Daniel (2012) "Lightcurve Analysis of 6901 Roybishop." *Minor Planet Bulletin* **39**, 83.
- Warner, Brian D.; Higgins, David; Pravec, Petr; Harris, Alan W. (2012) "The Enigmatic Hungaria Asteroid 4868 Knushevia." *Minor Planet Bulletin* **39**, 82-83.
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Stephens, Robert D.; Warner, Brian D.; Megna, Ralph; Coley, Daniel (2012) "A Shape Model of the Main-belt Asteroid 27 Euterpe." *Minor Planet Bulletin* **39**, 2-5.

Warner, B. D. (2012). "Asteroid Lightcurve Analysis at the Palmer Divide Observatory". *Minor Planet Bulletin* **39**,

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"2012 October-December" 254-259.

2011

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Moskovitz, Nicholas; Warner, Brian D. (2011) "Call for Lightcurves: Fast Flyby of Near-Earth Asteroid 2005 YU55." *Minor Planet Bulletin* **38**, 220.

Stephens, Robert D.; French, Linda, M.; Warner, Brian D.; Wasserman, Lawrence H. (2011) "The Curse of Sisyphus." *Minor Planet Bulletin* **38**, 212-213.

Warner, Brian D.; Coley, Daniel (2011) "Lightcurve Analysis of (8639) 1991 GR." *Minor Planet Bulletin* **38**, 209-210.

Baker, Ronald E.; Warner, Brian D. (2011) "Photometric Observations and Analysis of 604 Tekmessa." *Minor Planet Bulletin* **38**, 195-197.

Hanus, J.; Durech, J.; Broz, M.; Warner, B. D.; Higgins, D.; Oey, J.; Pilcher, F.; Stephens, R. D.; Buchheim, R. K.; Koff, R. A.; Polishook, D.; Benishek, V.; Brinsfield, J. W.; Durkee, R. I.; Gonçalves, R. (2011) "Spin-vector distribution of asteroids - the role of the YORP thermal effect." EPSC-DPS Joint Meeting, Nantes, France. p 429.

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- Warner, B. D.; Harris, A. W. (2011) "Spin Axis Pole Distribution of the Hungaria Asteroids: An Initial Look." EPSC-DPS Joint Meeting, Nantes, France. p 46.
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- Warner, Brian D.; Stephens, Robert D.; Harris, Alan W. (2011) "Save the Lightcurves!" *Minor Planet Bulletin* **38**, 172-174.
- Warner, Brian D.; Pravec, Petr; Kusnirak, Peter; Gajdos, Stefan; Veres, Peter; Kornos, Leonard; Harris, Alan W. (2011) "Lightcurve Analysis of Hungaria Asteroid 4464 Vulcano." *Minor Planet Bulletin* **38**, 168-169.
- Warner, Brian D.; Megna, Ralpha; Skiff, Brian A.; Wasserman, Larry; Harris, Alan W. (2011) "Lightcurve Analysis of 27810 Daveturner: A Long Period Hungaria." *Minor Planet Bulletin* **38**, 150-151.
- Hanus, J.; Durech, J.; Brož, M.; Warner, B. D.; Pilcher, F.; Stephens, R.; Oey, J.; Bernasconi, L.; Casulli, S.; Behrend, R.; Polishook, D.; Henych, T.; Lehký, M.; Yoshida, F.; Ito, T. (2011) "A study of asteroid pole-latitude distribution based on an extended set of shape models derived by the lightcurve inversion method." *Astron. Astrophys.* **530**, A134.
- Warner, Brian D. (2011) "Save the Lightcurves!" in Proceedings of the 30th Annual Symposium on Telescope Science. pp 19-23. Society for Astronomical Sciences. Rancho Cucamonga, CA.
- Warner, Brian D.; Stephens, Robert D. (2011) "Lightcurve Analysis for a Trio of Asteroids." *Minor Planet Bulletin* **38**, 110-111.
- Warner, Brian D.; Pravec, Petr; Kusnirak, Peter; Harris, Alan W.; Cooney, Walter R., Jr.; Gross, John; Terrell, Dirk; Nudds, Shannon; Vilagi, Josef; Gajdos, Stefan; Masi, Gianluca; Pray, Donald P.; Dyvig, Ron; Reddy, Vishnu (2011) "Lightcurves from the Initial Discovery of Four Hungaria Binary Asteroids." *Minor Planet Bulletin* **38**, 107-109.
- Warner, Brian D.; Galad, Adrian; Veres, Peter; Pravec, Petr; Kusnirak, Peter (2011) "Lightcurve Analysis of Hungaria Asteroid (49667) 1999 OM2." *Minor Planet Bulletin* **38**, 103.
- Warner, Brian D. (2011) "Upon Further Review: IV. An Examination of Previous Lightcurve Analysis from the Palmer Divide Observatory." *Minor Planet Bulletin* **38**, 96-101.

- Warner, Brian D. (2011) "Asteroid Lightcurve Analysis at the Palmer Divide Observatory: Unpublished Results from 1999 to 2008." *Minor Planet Bulletin* **38**, 89-92.
- Warner, Brian D. (2011) "Upon Further Review: IV. An Examination of Previous Lightcurve Analysis from the Palmer Divide Observatory." *Minor Planet Bulletin* **38**, 63-65.
- Warner, Brian D.; Pray, Donald P. (2011) "Lightcurve Analysis of (15822) 1994 TV15: A Possible Hungaria Binary." *Minor Planet Bulletin* **38**, 56-57.
- Warner, Brian D. (2011) "Upon Further Review: IV. An Examination of Previous Lightcurve Analysis from the Palmer Divide Observatory." *Minor Planet Bulletin* **38**, 52-54.
- Warner, Brian D. (2011) "A Quartet of Known and Suspected Hungaria Binary Asteroids." *Minor Planet Bulletin* **38**, 33-36.
- Warner, Brian D.; Skiff, Brian A.; McLelland, Kyle (2011) "Lightcurve Analysis of the Near-Earth Asteroid (154029) 2002 CY46." *Minor Planet Bulletin* **38**, 32-33.
- Stephens, Robert D.; Warner, Brian D. (2011) "Lightcurve Analysis of 1211 Bressole." *Minor Planet Bulletin* **38**, 24-25.
- Warner, Brian D. (2011) "Upon Further Review: III. An Examination of Previous Lightcurve Analysis from the Palmer Divide Observatory." *Minor Planet Bulletin* **38**, 21-23.
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- Warner, B. D. (2011). "Asteroid Lightcurve Analysis at the Palmer Divide Observatory". *Minor Planet Bulletin* **38**,
- "2010 June-September" 25-31.
 "2010 September-December" 82-86.
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2010

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Warner, Brian D.; Sada, Pedro V.; Pollock, J.; Reichart, Daniel; Ivarsen, Ivan; Haislip, Josh; Lacluyze, Aaron; Nysewander, Melissa (2010) "Lightcurve Analysis of 932 Hooveria." *Minor Planet Bulletin* **37**, 139.

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2009

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