

INDEX TO VOLUME 47

- Abrams, N.S.; Bieryla, A.; Gomez, S.; Huang, J.; Lewis, J.A.; Garrison, L.H.; Carmichael, T. "Measured Lightcurves and Rotational Periods of 3122 Florence, 3830 Trelleborg, and (131077) 2000 YH105" 3-4.
- Abrams, N.S.; Gomez, S.; Bieryla, A. "Measured Lightcurves and Rotational Periods of (16579) 1992 GO, (25660) 2000 AO88, and (37652) 1994 JS1" 168-169.
- Aimar, F.; Ghio, G. "The Rotation Periods of the Asteroids 587 Hypsipyle, 1152 Pawona, and 2937 Gibbs" 152-153.
- Benishek, V. "Asteroid Photometry at Sopot Astronomical Observatory: 2019 June-October" 75-83.
- Benishek, V. "Photometry of 39 Asteroids at Sopot Astronomical Observatory: 2019 September – 2020 March" 231-241.
- Bonamico, R. "Rotational Period of Five Asteroids" 222-223.
- Bonamico, R. "Determining the Rotational Periods and Lightcurves of Three Main-Belt Asteroids" 347-348.
- Brincat, S.M.; Hills, K.; Galdies, C. "Photometric Observations of Main-Belt Asteroid (10422) 1999 AN22" 12-13.
- Brincat, S.M.; Hills, K.; Galdies, C. "Photometric Observations of Main-Belt Asteroids 1755 Lorbach, 4857 Altgamia and (48540) 1993 TW8" 215-217.
- Carbognani, A.; Holmes, R.; Buzzi, L. "Lightcurve and Period of the NEA PHA 2019 GT3" 103-104.
- Carreño, A.; Fornas, G.; Arce, E.; Mas, V. "Twelve Main Belt Asteroids, One Near Earth and One Potentially Hazardous Asteroid Lightcurves at Asteroids Observers (OBAS) – MPPD: 2017 May-2019 Jan" 7-10.
- Casalnuovo, G.B.; Chinaglia, B. "Rotation Period Determination for Asteroid 2602 Moore" 11.
- Casalnuovo, G.B.; Chinaglia, B. "Rotation Period Determination for Asteroid 8323 Krimigis" 141.
- Casalnuovo, G.B.; Chinaglia, B. "Lightcurve Analysis for Three Main-Belt Asteroids" 186-187.
- Clark, M., "Asteroid Photometry from the Preston Grott Observatory" 163-165.
- Colazo, M.; Fornari, C.; Santucho, M.; Mottino, A.; Colazo, C.; Melia, R.; Vasconi, N.; Arias, D.; Pittari, C.; Suarez, N.; Pulver, E.; Ferrero, G.; Chapman, A.; Girardini, C.; Rodríguez, E.; Amilibia, G.; Anzola, M.; Tornatore, M.; Nolte, R.; Morero, S.; Oey, J. "Asteroid Photometry and Lightcurve Analysis at GORA's Observatories" 188-191.
- Colazo, M.; Fornari, C.; Santucho, M.; Mottino, A.; Colazo, C.; Melia, R.; Suarez, N.; Vasconi, N.; Arias, D.; Stechina, A.; Scotta, D.; García, J.; Pittari, C.; Ferrero, G. "Asteroid Photometry and Lightcurve Analysis at GORA's Observatories – Part II" 337-339.
- Díaz-Vachier, I.; Cotto-Figueros, D. "The Rotation Rates of Three Near-Earth Asteroids and a Mars-crossing Asteroid" 149-150.
- Dose, E.V. "A New Photometric Workflow and Lightcurves of Fifteen Asteroids" 324-330.
- Fauerbach, M. "Measured Lightcurves and Rotational Periods of 1132 Hollandia and 1184 Gaea" 343-344.
- Fauerbach, M.; Fauerbach, M. "Photometric Observations of 2096 Vaino and 5104 Skripnichenko" 18-19.
- Ferrais, M.; Jehin, E.; Moulane, Y.; Pozuelos, F.J.; Barkaoui, K.; Benkhaldoun, Z. "Trappist-North and -South Combined Lightcurves of Near-Earth Asteroid 3122 Florence" 21-22.
- Ferrero, A. "Photometric Lightcurves of Eight Main-Belt Asteroids" 172-174.
- Ferrero, A. "Rotational Periods of Three Main-Belt Asteroids" 352-353.
- Ferrero, A.; Bonamico, R. "Rotational Period of Five Asteroids" 64-65.
- Ferrero, A.; Bonamico, R. "Lightcurves of Seven Main-belt Asteroids" 147-149.
- Franco, L.; Buchheim, R.K.; Pray, D.; Fauerbach, M.; Mortari, F.; Casalnuovo, G.B.; Chinaglia, B.; Scarfi, G.; Papini, R.; Salvaggio, F. "Preliminary Spin-Shape Model for 755 Quintilla" 267-269.
- Franco, L.; Marchini, A.; Arena, C.; Casalnuovo, G.B.; Chinaglia, B.; Valvasori, A.; Bacci, P.; Maestripietri, M.; Baj, G.; Galli, G.; Montigiani, N.; Mannucci, M. "Collaborative Asteroid Photometry for UAI: 2019 July–September" 61-63.
- Franco, L.; Marchini, A.; Scarfi, G.; Bacci, P.; Maestripietri, M.; Di Grazia, M.; Galli, G.; Casalnuovo, G.B.; Chinaglia, B.; Baj, G.; Papini, R.; Marino, G.; Banfi, M.; Salvaggio, F.; Bacci, R.; Tinelli, L.; Mortari, F.; Foylan, M. "Collaborative Asteroid Photometry from UAI: 2019 October-December" 144-147.
- Franco, L.; Marchini, A.; Saya, L.-F.; Galli, G.; Baj, G.; Ruocco, N.; Mannucci, M.; Montigiani, N.; Tinelli, L.; Scarfi, G.; Aceti, P.; Banfi, M.; Bacci, P.; Maestripietri, M.; Papini, R.; Salvaggio F.; Mortari, F.; Bachini, M.; Casalnuovo, G.B.; Chinaglia, B. "Collaborative Asteroid Photometry from UAI: 2020 January – March" 242-246.
- Franco, L.; Marchini, A.; Saya, L.-F.; Galli, G.; Baj, G.; Ruocco, N.; Mannucci, M.; Montigiani, N.; Tinelli, L.; Scarfi, G.; Aceti, P.; Banfi, M.; Bacci, P.; Maestripietri, M.; Papini, R.; Salvaggio F.; Mortari, F.; Bachini, M.; Casalnuovo, G.B.; Chinaglia, B. "Corrigendum: Collaborative Asteroid Photometry from UAI: 2020 January – March" 269.
- Franco, L.; Marchini, A.; Scarfi, G.; Papini, R.; Salvaggio, F.; Baj, G.; Galli, G.; Bacci, P.; Maestripietri, M.; Tinelli, L. "Collaborative Asteroid Photometry from UAI: 2020 April – June" 270-272.
- Franco, L.; Pilcher, F. "Spin-Shape Model for 50 Virginia" 272-274.
- Franco, L.; Pilcher, F.; Ferrero, A.; Maurice, A. "Spin-shape Model for 33 Polyhymnia" 120-122.
- Franco, L.; Pilcher, F.; Warner, B.D.; Marchini, A.; Saya, L.-F.; Maurice, A. "Spin-Shape Model for 118 Peitho" 169-171.

- Gao, X.; Tan, H. "Photometry of 2729 Urumqi at the Xingming Observatory in Urumqi City" 151.
- Groeinger, S.; Montgomery, K. "Determining the Rotational Periods and Lightcurves of Main Belt Asteroids" 174-176.
- Kluwak, T. "Rotation Period and Amplitude Determination of (18172) 2000 QL7: A Fast Rotator" 92-93.
- Lang, K. "Lightcurves of Six Asteroids from 2018 December through 2019 April" 71-73.
- Lang, K. "A Search for Mutual Eclipse Events of the Asynchronous Binary Asteroid 1016 Anitra" 322-323.
- Loera-González, P.; Olguín, L.; Saucedo-Morales, J.; Domínguez-González, R. "Lightcurve-based Period Determination for Apollo PHA (162082) 1998 HL1" 91.
- Loera-González, P.; Olguín, L.; Saucedo-Morales, J.; Núñez-López, R. "Lightcurve Based Rotational Period Determination for Asteroids 1579 Herrick and 2171 Kiev" 348-349.
- Mannucci, M.; Montigiani, N. "Rotational Period Determination for Asteroids 2460 Mitlincoln, 3070 Aitken and (11116) 1996 EK" 5-6.
- Marchini, A.; Bernardi, E.; Saya, L.F.; Papini, R.; Banfi, M.; Salvaggio, F. "Rotation Period Determination for Asteroids 3295 Murakami and 4961 Timherder" 69-70.
- Marchini, A.; Bernardi, E.; Saya, L.-F.; Papini, R.; Salvaggio, F. "Rotation Period Determination for Asteroids 4194 Sweitzer, 4421 Kayor, 4705 Secchi, (9219) 1995 WO8 and (11493) 1988 VN5" 249-252.
- Marchini, A.; Conti, M.; Vallerani, C. "Rotation Period Determination for Asteroids 992 Swasey and 3096 Bezruc" 265-267.
- Marchini, A.; Papini, R.; Banfi, M.; Salvaggio, F.; Hayes-Gehrke, M.N.; Yates, E. "Collaborative Asteroid Photometry for Asteroid 2051 Chang" 1-2.
- Noschese, A.; Mollica, M.; Catapano, A.; Vecchione, A. "Rotational Periods and Lightcurves of 2051 Chang, 3171 Wangshouguan, 8141 Nikolaev, and 10426 Charlierouse" 154-156.
- Noschese, A.; Mollica, M.; Vecchione, A. "Rotational Periods and Lightcurves of 4421 Kayor, 7118 Kuklov and (12853) 1998 FZ97" 254-255.
- Noschese, A.; Ruocco, N.; Vecchione, A. "Rotational Period and Lightcurve of 7910 Aleksola" 336-337.
- Núñez-López, R.; Loera-González, P.; Saucedo, J.C.; Olguín, L.; Contreras, M.E. "Lightcurve Based Rotational Period Determination for Asteroids 2070 Humason and 3122 Florence" 89-90.
- Odden, C.E.; Zhu, J.; Barakaiev, I.; Bilokur, M.; Colley, Z.A.; de Saint-Exupéry, M.P.; Lee, Y.; Mundra, I.R.; Nazzaro, H.A.; Nyiha, I.N.; Pedroza, A.; Prabhakar, P.S.; Taylor, A.C.; Xie, Y.; Yoon, C.S.; Yusuf, S.M.; Zhu, E.C.; Zhu, S.; Kemp, J.; Sliski, A. "Lightcurve Analysis of Asteroid 4700 Carusi" 252-253.
- Oey, J. "Lightcurve Analysis of Near-Earth Asteroids in 2017 from BMO and JBL" 136-140.
- Olguín, L.; Saucedo, J.C.; Loera-González, P.; Contreras, M.E.; Valdés, J.R.; Guichard, J.; López-González, R.; Michimani-García, J.; Cerdán-Hernández, G.; Schuster, W.J.; Valdés-Sada, P.; Núñez-López, R.; Ayala-Gómez, S.A. "The 2019 Mexican Asteroid Photometry Campaign" 340-342.
- Pilcher, F. "Lightcurves and Rotation Periods of 33 Polyhymnia, 206 Hersilia, 395 Delia, 400 Ducrosa, 900 Rosalinde, and 1066 Lobelia" 34-36.
- Pilcher, F. "Minor Planets at Unusually Favorable Elongations in 2020" 47-49.
- Pilcher, F. "Section News: Staffing Changes for The Minor Planet Bulletin" 1.
- Pilcher, F. "Call for Observations" 122.
- Pilcher, F. "Lightcurves and Rotation Periods of 10 Hygiea, 47 Aglaja, 455 Bruchsalia, 463 Lola, and 576 Emanuela" 133-135.
- Pilcher, F. "Lightcurves and Rotation Periods of 83 Beatrix, 86 Semele, 118 Peitho, 153 Hilda, 527 Euryanthe, and 549 Jessonda" 192-195.
- Pilcher, F. "General Report of Position Observations by the ALPO Minor Planets Section for the Year 2019" 217-221.
- Pilcher, F. "Section News: Retirement of MPB Producer Robert Werner" 265.
- Pilcher, F. "Lightcurves and Rotational Periods of 50 Virginia, 57 Mnemosyne, 58 Concordia, 59 Elpis, 78 Diana, and 529 Preziosa" 344-346.
- Pilcher, F.; Franco, L.; Gao, X.; Marchini, A.; Papini, R.; Tan, H. "2000 Herschel A Tumbling Asteroid" 142-143.
- Pilcher, F.; Polakis, T. "A Photometric Study of 470 Kilia" 247-248.
- Polakis, T. "Photometric Observations of Ten Minor Planets" 13-17.
- Polakis, T. "Photometric Observations of Twenty-Three Minor Planets" 94-101.
- Polakis, T. "Photometric Observations of Thirty Minor Planets" 177-186.
- Polakis, T. "Photometric Observations of Twenty-Seven Minor Planets" 314-321.
- Polakis, T.; Skiff, B. "Lightcurve Analysis of Long-period Minor Planet 2580 Smilevskia" 101-103.
- Singh, A.; Sackalosky, C.; Sefik, Y.; Yates, E.; Moore, C.; Pagan, A.; Malwitz, A. "Lightcurve for Asteroid 4717 Kaneko" 74.
- Stephens, R.D.; Warner, B.D. "Lightcurve Analysis of L4 Trojan Asteroids at the Center for Solar System Studies: 2019 July to September" 43-47.

Stephens, R.D.; Warner, B.D. "Lightcurve Analysis of L5 Trojan Asteroids at the Center for Solar System Studies: 2020 April to June" 285-289.

Stephens, R.D.; Warner, B.D. "Main-Belt Asteroids Observed from CS3"

2019 July to September 50-60.
2019 October to December 125-133.
2020 January to March 224-230.
2020 April to June 275-284.

Teer, A.; Montgomery, K. "Lightcurves and Rotational Periods of Four Main Belt Asteroids" 166-167.

Tomassini, A.; Scardella, M.; Franceschini, F.; Pierri, F. "Rotational Period Determination of Two Main Belt Asteroids: 4807 Noboru and 1435 Garlena" 20.

Warner, B.D. "Asteroid-Deepsky Appulses in 2020" 42.

Warner, B.D. "On Trying to Find Color Indices Using Only Unfiltered Observations" 214.

Warner, B.D.; Harris, A.W.; Āurech, J.; Benner, L.A.M. "Lightcurve Photometry Opportunities"

2020 January – March 83-87.
2020 April – June 156-161.
2020 July – September 256-261.
2020 October – December 330-335.

Warner, B.D.; Stephens, R.D. "Lightcurve Analysis of Hilda Asteroids at the Center for Solar System Studies"

2018 September – 2019 September 37-41.
2019 November 123-124.
2019 December – 2020 April 196-199.
1529 Oterma and 17428 Charleroi 309-313.

Warner, B.D.; Stephens, R.D. "Near-Earth Asteroid Lightcurve Analysis at the Center for Solar System Studies"

2019 July – September 23-34.
2019 September – 2020 January 105-120.
2019 December – 2020 April 200-213.
2020 April – June 290-304.

Warner, B.D.; Stephens, R.D.; Harris, A.W. "Binary Asteroids at the Center for Solar System Studies" 305-308.

Werner, R. "Swan Song" 265.

Williamson, B.; Sonnett, S.; Witry, J.; Chatelain, J.; Grav, T.; Reddy, V.; Lejoly C.; Kramer, E.; Mainzer, A.; Masiero, J.; Gritsevich, M.; Bauer, J. "Rotational Properties of Three Hilda Asteroids" 66-68.

Womack, M.; Sarid, G.; Harris, W.; Wierzechos, K.; Woodney, L. "Call for Observations of the Active Centaur 29P/Schwassmann-Wachmann" 350-352.

IN THIS ISSUE

This list gives those asteroids in this issue for which physical observations (excluding astrometric only) were made. This includes lightcurves, color index, and H-G determinations, etc. In some cases, no specific results are reported due to a lack of or poor-quality data. The page number is for the first page of the paper mentioning the asteroid. EP is the "go to page" value in the electronic version.

Number	Name	EP	Page	Number	Name	EP	Page
50	Virginia	8	272	1132	Hollandia	79	343
50	Virginia	80	344	1145	Robelmonte	73	337
57	Mnemosyne	80	344	1184	Gaea	79	343
58	Concordia	6	270	1215	Boyer	50	314
58	Concordia	80	344	1239	Queteleta	76	340
59	Elpis	80	344	1247	Memoria	50	314
78	Diana	80	344	1269	Rollandia	50	314
414	Liriope	73	337	1303	Luthera	11	275
435	Ella	60	324	1443	Ruppina	11	275
529	Preziosa	80	344	1451	Grano	50	314
549	Jessonda	50	314	1457	Ankara	50	314
652	Jubilatrix	11	275	1529	Oterma	45	309
722	Frieda	76	340	1579	Herrick	84	348
738	Alagasta	50	314	1592	Mathieu	60	324
755	Quintilla	3	267	1594	Danjon	50	314
768	Struveana	60	324	1618	Dawn	50	314
781	Kartvelia	6	270	1628	Strobel	50	314
904	Rockefelleria	50	314	1656	Suomi	41	305
913	Otila	6	270	1667	Pels	11	275
949	Hel	73	337	1685	Toro	26	290
952	Caia	73	337	1784	Benguella	83	347
992	Swasey	1	265	2050	Francis	11	275
992	Swasey	50	314	2050	Francis	50	314
1016	Anitra	58	322	2162	Anhui	76	340
1025	Riema	11	275	2171	Kiev	50	314
1074	Beljawska	60	324	2171	Kiev	84	348
1130	Skuld	60	324	2283	Bunke	50	314
				2363	Cebriones	21	285
				2415	Ganesa	60	324
				2847	Parvati	50	314
				2879	Shimizu	50	314
				2893	Peiroos	21	285
				2895	Memnon	21	285
				3096	Bezruc	1	265
				3151	Talbot	60	324
				3222	Liller	88	352
				3225	Hoag	11	275
				3317	Paris	6	270
				3317	Paris	21	285
				3356	Resnik	50	314
				3451	Mentor	21	285
				3459	Bodil	50	314
				3615	Safronov	50	314
				3637	O'Meara	50	314
				3656	Hemingway	50	314
				3683	Baumann	60	324
				3800	Karayusuf	6	270
				3800	Karayusuf	60	324
				4041	Miyamotoyohko	50	314
				4148	McCartney	76	340
				4353	Onizaki	50	314
				4408	Zlata Koruna	76	340
				4570	Runcorn	50	314
				4582	Hank	83	347
				5144	Achates	21	285
				5476	1989 TO11	21	285
				5534	1941 UN	60	324
				5875	Kuga	11	275
				5947	Bonnie	83	347
				6163	Reimers	11	275
				6517	Buzzi	11	275
				6569	Ondaatje	26	290
				6635	Zuber	11	275
				7910	Aleksola	50	314
				7910	Aleksola	60	324
				7910	Aleksola	72	336
				8014	1990 MF	26	290
				8278	1991 JJ	88	352
				10111	Fresnel	88	352
				10487	Danpeterson	11	275
				10737	Bruck	11	275
				11190	Jennibell	60	324
				12444	Prothoon	21	285
				12929	1999 TZ1	21	285
				14923	1994 TU3	60	324
				15710	Bocklin	50	314
				17428	Charleroi	45	309
				19125	1987 CH	11	275
				20037	Duke	11	275
				38635	2000 LB21	11	275
				39197	2000 XA	60	324
				42196	2001 DE21	60	324