



WGSBN Bulletin



Volume 2, #3

2022 February 28

Published on behalf of the International Astronomical Union (98-bis Blvd Arago, F-75014 Paris, France) by the WG Small Bodies Nomenclature.

ISSN 2789-2603

Cover image: Color image of (243) Ida and (243) Ida I = Dactyl, obtained by the Galileo spacecraft. Courtesy NASA/JPL.

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Errata

The following section corrects errors that have appeared in this publication (indicated as *Bull.*, with volume, issue and page number) or in names or citations published in the *Minor Planet Circulars*. Negative line numbers count from the bottom of the page (in the *Bulletin*) or from the bottom of the second column (in the *MPCs*).

| Reference | Line(s) | |
|------------------------|---------|---|
| <i>Bull. 1, #4, 10</i> | 2 | <i>For Lacruz J. read J. Lacruz [(418689) discoverer]</i> |
| <i>Bull. 1, #8, 9</i> | - 5 | <i>For EURONEAR, - * read O. Vaduvescu, J. Iglesias-Paramo [(555152) discoverers]</i> |
| <i>Bull. 2, #2, 10</i> | - 4 | <i>For Chungmingshen read Chungmingshan [(597148) name]</i> |
| <i>Bull. 2, #2, 10</i> | - 2 | <i>For Ming-Shen Chung read Ming-Shan Chung [(597148) citation]</i> |
| <i>Bull. 2, #2, 11</i> | 11 | <i>For C/2021 C2 read C/2022 C2</i> |
| <i>Bull. 2, #2, 12</i> | -23 | <i>For P.2021 V3 read P/2021 V3</i> |
| <i>Bull. 2, #2, 12</i> | -23 | <i>For MPC 136563 read MPC 136564</i> |

New Names of Minor Planets

The following new names of minor planets have been approved by the WGSBN. Discovery details, for information only, are given in the following order: date of discovery; discoverer(s) name(s); discovery site; discovery site observatory code. The discoverer(s) name(s) is/are followed by an asterisk if this is a change from what was published when the object was numbered.

(7732) Ralphpass = 1978 VE₉

Discovery: 1978-11-07 / E. F. Helin, S. J. Bus / Palomar / 675

After receiving a Ph.D. in Mathematics from the University of Maryland in 1968, Ralph Pass (b. 1947) worked at NASA for 11 years supporting the Apollo and Space Shuttle programs. He is an avid amateur astronomer who has taught astronomy and served as Director of the Observatory at Merrimack College in Massachusetts.

(9893) Sagano = 1996 AA₁

Discovery: 1996-01-12 / T. Kobayashi / Oizumi / 411

Sagano, a neighborhood in northwest Kyoto City, contains many famous temples, shrines and historical sites. Since the 9th century, villas have been built in Sagano by the imperial family, aristocrats, and the literati. Today it is a well-known place for viewing cherry blossoms and maples.

(10503) Johnmarks = 1987 SG₁₃

Discovery: 1987-09-27 / H. Debehogne / La Silla / 809

John Marks (b. 1943) founded the international non-profit organization Search for Common Ground (SFCG) in 1982 and served as its President until 2014; he is now a Senior Advisor. SFCG is dedicated to seeking peaceful resolutions for conflicts via exchange visits and other person-to-person interactions.

(12378) Johnston = 1994 PK₁

Discovery: 1994-08-15 / R. H. McNaught / Siding Spring / 413

David Macarthur Johnston (1928–2022) was a farmer from Baradine, NSW, Australia. His awareness for the environment led to an expert knowledge of the bird life in and around the Pilliga Forest. He encouraged and accompanied local and international birdwatchers and organized bird surveys.

(22379) Montale = 1994 CO₁

Discovery: 1994-02-10 / Farra d'Isonzo / Farra d'Isonzo / 595

Eugenio Montale (1896–1981) was one of the greatest Italian poets of the twentieth century. He was the Literature Nobel Prize laureate in 1975 for his distinctive poetry which, with great artistic sensitivity, has interpreted human values under the sign of an outlook on life with no illusions.

(24863) Cheli = 1996 EB

Discovery: 1996-03-02 / Farra d'Isonzo / Farra d'Isonzo / 595

Maurizio Cheli (b. 1959) is an Italian astronaut, test pilot and aerospace engineer. He flew as a Mission Specialist in the STS 75 Tethered Satellite on the Columbia Space Shuttle.

(29438) Zhengjia = 1997 MV

Discovery: 1997-06-26 / Beijing Schmidt CCD Asteroid Program / Xinglong / 327

The Zhengjia museums in Guangzhou, China, are dedicated to science education in areas of nature and science. Zhengjia museums also develop astronomy education programs with National Astronomical Observatories, Chinese Academy of Sciences, for the general public to experience the beauty of astronomy.

(41988) Emilyjoseph = 2000 YX₃₀

Discovery: 2000-12-27 / Spacewatch / Kitt Peak / 691

Emily C. S. Joseph (b. 1988) is a planetary scientist, public health researcher, and advocate for research integrity. At the University of Arizona she was part of the Cassini VIMS instrument team and the university's COVID-19 response. She has been a board member of Congregation Or Chadash and helped form Congregation Kol Ami in Tucson.

(45519) Triebold = 2000 BS₃₃

Discovery: 2000-01-30 / CSS / Catalina / 703

Mike Triebold (b. 1953) is a leading preparator of museum quality fossils. In 2019 he was awarded the Charles H. Sternberg Medal by the Association of Applied Paleontological Sciences for contributions to paleontology, for fostering cooperation and understanding between professional, amateur and academic paleontologists.

(47775) Johnanderson = 2000 DX₁₁₅

Discovery: 2000-02-27 / CSS / Catalina / 703

John William Anderson (b. 1953) worked on image digitizing and analysis of the Surveyor Moon lander data at the Lunar and Planetary Laboratory of University of Arizona. Prior to that he worked as an engineer for a TV station also at that university.

(65852) Alle = 1997 EX₇

Discovery: 1997-03-07 / Osservatorio San Vittore / Bologna / 552

Alessandro ("Alle") Colombini (b. 2018) is the first son of Alberto Colombini and Elena Cuoghi. He is the second nephew of Ermes Colombini, one of the Osservatorio San Vittore observers.

(114735) Irenemagni = 2003 HP₉

*Discovery: 2003-04-24 / F. Bernardi * / Campo Imperatore / 599*

Irene Magni (b. 1976) is the fiancée of the discoverer. She works for a business consultant.

(199991) Adriencoffinet = 2007 JX₂₄

Discovery: 2007-05-09 / Mt. Lemmon Survey / Mount Lemmon / G96

Adrien Coffinet (b. 1990) is a French astronomer and science journalist. He earned his PhD in astronomy at the Université de Genève specializing in exoplanets. He has written for several science publications, and he is currently a journalist for Futura-Sciences.

(384582) Juliasmith = 2010 JS₁₄

Discovery: 2010-05-02 / WISE / WISE / C51

Julia Smith (b. 1984) is an American expert in federal relations who served as Assistant Vice President at the University of Arizona. She formerly served as the Assistant Vice President at the Association of American Universities. In these roles, she has been a tireless advocate for support of basic and applied research.

(438523) Figalli = 2007 SC₁₂

Discovery: 2007-09-30 / Farra d'Isonzo / Farra d'Isonzo / 595

Alessio Figalli (b. 1984) is an Italian mathematician. He won the Fields medal in 2018 for his contributions to the theory of optimal transport, and its application to partial differential equations, metric geometry and probability.

(440411) Piovani = 2005 QS₂₈

Discovery: 2005-08-26 / V. S. Casulli / Vallemare Borbona / A55

Nicola Piovani (b. 1946) is an Italian musician and film score composer. In 1999 he won the Academy Award for the score of the Roberto Benigni film *La vita è bella (Life is Beautiful)*.

(447682) Rambaldi = 2007 AA₂₀

Discovery: 2007-01-15 / V. S. Casulli / Vallemare Borbona / A55

Carlo Rambaldi (1925–2012) was an Italian special effects artist. He won Academy awards for best visual effects for *King Kong* (1976), *Alien* (1979) and *E.T. the Extra-Terrestrial* (1982).

(552385) Rochechouart = 2013 YU₁₈

Discovery: 2013-12-25 / J.-C. Merlin / Nogales / 926

Rochechouart is a commune in the Haute-Vienne department in the Nouvelle-Aquitaine region of France, about 40 km west of Limoges. It is well known for the presence of the Rochechouart-Chassenon astrobleme, an ancient 20-km diameter crater caused by an impact about 207 million years ago.

(562964) Hudin = 2016 BM₂₂

*Discovery: 2014-06-03 / EURONEAR * / La Palma / 950*

Lucian Hudin (b. 1975) is a Romanian amateur astronomer and computer programmer who owns a small roll-off observatory in Cluj-Napoca. A very active member of the EURONEAR project using the Issac Newton Telescope, he was involved in data reduction of near Earth asteroids, discovering seven such bodies and other minor planets.

(564280) Tudorica = 2016 GU₆₅

*Discovery: 2013-09-08 / O. Vaduvescu, P. van Oers * / La Palma / 950*

Alexandru Tudorica (b. 1987) is a Romanian pro-am astronomer who obtained his PhD from the University of Bonn with a thesis on Weak Gravitational Lensing Magnification. His other interests have been near-Earth asteroids within the EURONEAR project, globular clusters, and the popularization of science.

(574300) Curelaru = 2010 GX₂₀₂

*Discovery: 2014-07-10 / O. Vaduvescu, O. Zamora * / La Palma / 950*

Lucian Curelaru (b. 1976) is a Romanian amateur astronomer and software developer, and a member and sysadmin of the EURONEAR project. Interested in astrometry of asteroids and double stars from data mining and observations, he has also contributed to software development for astronomical research projects.

(579890) Mocnik = 2014 XT₁₄

*Discovery: 2014-08-01 / EURONEAR * / La Palma / 950*

Teo Mocnik (b. 1989) is a Slovenian astronomer currently working at Gemini North. Although his main research interest is exoplanets, during his ING studentship he performed observations of hundreds of asteroids, discovering a few near-Earth asteroid candidates and other minor planets as part of the EURONEAR project.

(580301) Aznarmacías = 2015 BD₂₃₈

*Discovery: 2014-09-23 / O. Vaduvescu, M. Hollands * / La Palma / F51*

Amadeo Aznar Macías (b. 1974) is a Spanish pro-am astronomer expert in asteroid photometry and binary asteroids, namely near Earth, Mars-crossings and main belt asteroids. He is a member of the EURONEAR project, an Asteroid Day regional coordinator, and a prolific disseminator of astronomy through mass media and public conferences.

(593195) Lavinaahmed = 2015 HR₇₅

*Discovery: 2012-12-06 / M. Kusiak, M. Żołnowski * / Tincana / D03*

Lavina Ahmed (1983–2020) was a Bangladeshi-Swedish scientist, who researched the growth and malignancy of tumors. Her research focused on complex receptors, including one named Axl, which is present in a wide range of cancers. Research into such receptors is important in our battle against cancer.

(598719) Alegalli = 2009 BO₆₄

Discovery: 2002-07-09 / R. Gil-Hutton, J. Licandro / Complejo Astronomi / 829

Alejandro Galli (b. 1964) is an Uruguayan amateur astronomer who studies of small bodies of the solar system, meteor showers and variables stars. He is well known for his work to popularize astronomy in Uruguay, Brazil and Argentina.

Recent Comet Namings & Numberings

Recently-assigned comet names and numbering of periodic comets are listed below. The recently-assigned names list indicates, using an asterisk, any comet whose discovery is eligible for the Edgar Wilson Award, as well as the reference where the name first appears (this may not be the circular announcing the discovery, particularly for those objects announced initially as A/ objects). If a name contain accented characters, the approved ASCII-only version of the name is included between [...]: note that any print, PDF or web usage must use the proper accented form. Newly-numbered objects that are being accorded dual status are flagged as such.

Recent Namings

| | | |
|--|-------------|------------------------|
| P/2022 C3 (PANSTARRS) | | <i>MPEC 2022-D02</i> |
| P/2022 C2 (PANSTARRS) | | <i>MPEC 2022-D01</i> |
| P/2022 C1 (PANSTARRS) | | <i>MPEC 2022-C74</i> |
| C/2022 B4 (Bok) | | Name not yet announced |
| P/2022 B1 (Wierzos) | | <i>MPEC 2022-C2</i> |
| C/2022 A2 (PANSTARRS) | | <i>MPEC 2022-C1</i> |
| C/2022 A1 (Sárneczky) | [Sárneczky] | <i>MPEC 2022-A59</i> |
| C/2021 Y1 (ATLAS) | | <i>MPEC 2022-A50</i> |
| P/2021 V3 = P/2011 UE ₂₁₅ (PANSTARRS) | | <i>MPEC 2021-V173</i> |
| P/2021 V2 (Fuls) | | <i>MPEC 2021-V169</i> |
| C/2021 V1 (Rankin) | | <i>MPEC 2021-V167</i> |
| C/2021 U5 (Catalina) | | <i>MPEC 2021-V199</i> |
| C/2021 U4 (Leonard) | | <i>MPEC 2021-V22</i> |
| P/2021 U3 (Attard-Maury) | * | <i>MPEC 2021-V21</i> |
| C/2021 T4 (Lemmon) | | <i>MPEC 2021-U187</i> |
| P/2021 U1 (Wierzos) | | <i>MPEC 2021-U43</i> |
| P/2021 T3 = P/2015 K6 (PANSTARRS) | | <i>MPEC 2021-T184</i> |
| C/2021 T2 (Fuls) | | <i>MPEC 2021-T169</i> |
| C/2021 T1 (Lemmon) | | <i>MPEC 2021-T168</i> |
| C/2021 S4 (Tsuchinshan) | | <i>MPEC 2021-T167</i> |
| C/2021 S3 (PANSTARRS) | | <i>MPEC 2021-T166</i> |
| C/2021 S1 (ATLAS) | | <i>MPEC 2021-T21</i> |
| P/2021 R8 (Sheppard) | | <i>MPEC 2021-X149</i> |
| C/2021 R7 (PANSTARRS) | | <i>MPEC 2021-T162</i> |
| C/2021 R6 (Gröller) | [Groeller] | <i>MPEC 2021-S113</i> |
| P/2021 R5 (Rankin) | | <i>MPEC 2021-R257</i> |
| P/2021 R4 (Wierzos) | | <i>MPEC 2021-R256</i> |
| P/2021 R3 (PANSTARRS) | | <i>MPEC 2021-R255</i> |

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| | | |
|------------------------------|---|-----------------------|
| C/2021 R2 (PANSTARRS) | | <i>MPEC 2021-R151</i> |
| P/2021 R1 (PANSTARRS) | | <i>MPEC 2021-R150</i> |
| C/2021 Q6 (PANSTARRS) | | <i>MPEC 2021-R167</i> |
| P/2021 Q5 (ATLAS) | | <i>MPEC 2021-R98</i> |
| C/2021 Q4 (Fuls) | | <i>MPEC 2021-Q102</i> |
| C/2021 Q3 (ATLAS) | | <i>MPEC 2021-Q97</i> |
| C/2021 P4 (ATLAS) | | <i>MPEC 2021-Q42</i> |
| C/2021 P3 (PANSTARRS) | | <i>MPEC 2021-Q29</i> |
| C/2021 P2 (PANSTARRS) | | <i>MPEC 2021-Q28</i> |
| C/2021 P1 (PANSTARRS) | | <i>MPEC 2021-Q02</i> |
| C/2021 O3 (PANSTARRS) | | <i>MPEC 2021-P05</i> |
| C/2021 O1 (Nishimura) | * | <i>MPEC 2021-O47</i> |
| C/2021 N3 (PANSTARRS) | | <i>MPEC 2021-O39</i> |
| P/2021 HS (PANSTARRS) | | <i>MPEC 2021-S44</i> |
| C/2021 G2 (ATLAS) | | <i>MPEC 2021-T206</i> |
| C/2021 F1 (Lemmon-PANSTARRS) | | <i>MPEC 2022-C15</i> |
| P/2020 B4 (Sheppard) | | <i>MPEC 2022-D06</i> |

Recent Numberings

| | | |
|--|--------------------|-------------------|
| 440P/1997 B1 = 2021 W2 (Kobayashi) | | <i>MPC 136564</i> |
| 439P/2008 WZ ₉₆ = 2021 W1 (LINEAR) | | <i>MPC 136564</i> |
| 438P/2005 T2 = 2012 V5 = 2020 OV ₆₂ (Christensen) | | <i>MPC 136564</i> |
| 437P/2021 V3 = 2011 UE ₂₁₅ (PANSTARRS) | | <i>MPC 136564</i> |
| 436P/2007 R4 = 2021 U2 (Garradd) | | <i>MPC 135244</i> |
| 435P/2021 T3 = 2015 K6 (PANSTARRS) | | <i>MPC 135244</i> |
| 434P/2012 TK ₈ = 2021 S2 (Tenagra) | | <i>MPC 135244</i> |
| 433P = (248370) | <i>Dual status</i> | <i>MPC 133899</i> |
| 432P/2021 N4 = P/2016 U2 (PANSTARRS) | | <i>MPC 133899</i> |
| 431P/2015 Q1 = P/2021 P5 (Scotti) | | <i>MPC 133899</i> |
| 430P/2011 A2 = P/2021 Q2 (Scotti) | | <i>MPC 133899</i> |
| 429P/2008 QP ₂₀ = P/2021 M1 (LINEAR-Hill) | | <i>MPC 133899</i> |
| 428P/2014 W12 = P/2021 Q1 (Gibbs) | | <i>MPC 133899</i> |
| 427P/2017 S5 = P/2021 L6 (ATLAS) | | <i>MPC 133899</i> |
| 426P/2019 A7 = P/2021 K4 (PANSTARRS) | | <i>MPC 133899</i> |
| 425P/2005 W3 = P/2021 O2 (Kowalski) | | <i>MPC 132232</i> |
| 424P/2012 S2 = P/2021 L5 (La Sagra) | | <i>MPC 132232</i> |
| 423P/2008 CL ₉₄ = P/2021 A12 (Lemmon) | | <i>MPC 132232</i> |
| 422P/2006 S4 = P/2021 L1 (Christensen) | | <i>MPC 132232</i> |
| 421P/2009 U4 = P/2020 H10 (McNaught) | | <i>MPC 130596</i> |
| 420P/2009 Q1 = P/2021 E1 (Hill) | | <i>MPC 128966</i> |
| 419P/2015 F1 = P/2021 A11 (PANSTARRS) | | <i>MPC 128966</i> |

Standard Acronyms & Abbreviations

The standard acronyms that may be used in citations without needing to be expanded are listed at:

<https://www.wgsbn-iau.org/documentation/AcronymsAndAbbreviations.html>.

Statistics & Links

There are currently 23081 named minor planets.

Discoverers of minor planets may submit name proposals via the WGSBN voting website at: https://minorplanetcenter.net//submit_name/login

Registration is required to access this site. Requests for access should be made to contact@wgsbn-iau.org.

Work on a new voting website is underway.

Archival copies of the *Bulletin*, as well as machine-readable datafiles of new names, citations and corrigenda from each issue, are available on the WGSBN website:

<https://www.wgsbn-iau.org/>

The *Bulletin* is also available from the Publications section of the IAU website:

<https://www.iau.org/publications/iau/wgsbn-bulletins/>

The email address for the WGSBN is contact@wgsbn-iau.org.

WGSBN Members

There are 15 members of the WGSBN, 11 of whom are voting members. The other four members, who are *ex-officio*, are the President and General Secretary of the IAU, and representatives for the IAU WG Planetary System Nomenclature and the IAU Minor Planet Center.

The current members of the WGSBN are listed below:

- Jana Tichá, Chair
- Keith Noll, Vice-Chair
- Gareth Williams, Secretary
- Yuliya Chernetenko
- Julio Fernández
- Daniel Green
- Pam Kilmartin
- Syuichi Nakano
- Carrie Nugent
- Don Yeomans
- Jin Zhu
- Debra M. Elmgreen, *ex-officio* (IAU President)
- José Miguel Rodríguez Espinosa, *ex-officio* (IAU General Secretary)
- Rita Schulz, *ex-officio* (WGPSN)
- Peter Vereš, *ex-officio* (MPC)

The WGSBN is a functional Working Group of the IAU, under the Executive Committee.

