



# WGSBN Bulletin



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

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## Editorial Notice

Gernot Burkhardt announces the availability of the 7th Edition of the *Dictionary of Minor Planet Names*. It is available as a free PDF download or as a Print-on-Demand book. Containing 2004 pages, the new edition is complete for new names assigned before the end of 2021. Further details can be obtained from <https://books.ub.uni-heidelberg.de/heibooks/catalog/book/1052?lang=en>.

The WGSBN announces the publication of the *WGSBN Bulletin Yearbook 2021*, a printed collection of the 13 *WGSBN Bulletins* issued in 2021. The book contains 252 pages and also contains name- and number-order indexes of the new namings in 2021. It is planned that the *Yearbook* will be an annual publication. Further details, including an order form and information on the ordering process, can be obtained from <https://www.wgsbn-iau.org/WGSBNPublishing.html>.

## 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>MPC</i> 8065	29 to 30	<i>For</i> Heinrich Karl Marx (1818-1883), author of 'Das Kapital' <i>read</i> Karl Heinrich Marx (1818–1883), author of <i>Das Kapital</i> [(2807) citation]
<i>MPC</i> 31299	23	<i>For</i> Emilezola <i>read</i> Émilezola [(8096) name]
<i>MPC</i> 31299	26	<i>For</i> Emile Zola <i>read</i> Émile Zola [(8096) citation]
<i>MPC</i> 34629	–49	<i>For</i> Etienne <i>read</i> Étienne [(9389) citation]
<i>MPC</i> 34631	–37	<i>For</i> translator <i>read</i> translator [(9764) citation]
<i>MPC</i> 36128	42	<i>For</i> Anomalocaris <i>read</i> <i>Anomalocaris canadensis</i> [(8564) citation]
<i>MPC</i> 40708	43	<i>For</i> Jean-Etienne <i>read</i> Jean-Étienne [(11942) citation]
<i>MPC</i> 47243	38	<i>For</i> (1885–1956) <i>read</i> (1875–1956) [(8291) citation]
<i>MPC</i> 50249	21	<i>For</i> programer <i>read</i> programmer [(8302) citation]

<i>MPC</i> 61269	4	<i>For</i> Lemonnier <i>read</i> Le Monnier [(29187) name]
<i>MPC</i> 61269	7	<i>For</i> Charles-Pierre Lemonnier (1675–1757) was a French astronomer who, in 1738 <i>read</i> Pierre Charles Le Monnier (1715–1799) was a French astronomer who, in 1736–1737 [(29187) citation]
<i>MPC</i> 87142	40	<i>For</i> Irazu <i>read</i> Irazú [(117997) name]
<i>MPC</i> 101208	–40	<i>For</i> (b 1975) <i>read</i> (b. 1975) [(128614) citation]
<i>MPC</i> 103028	12	<i>For</i> Esplugafrancoli <i>read</i> Esplugafrancolí [(284029) name]
<i>MPC</i> 103028	14	<i>For</i> Italian city of Espluga de Francoli <i>read</i> Spanish village of l'Espluga de Francolí [(284029) citation]
<i>MPC</i> 118218	–11	<i>For</i> (c. 18321914) <i>read</i> (c. 1832–1914) [(7091) citation]
<i>MPC</i> 118220	–13	<i>For</i> Discovered 2000 Sept. 8 at Socorro. Brian L. Enke <i>read</i> Brian L. Enke [(76818) citation]
<i>MPC</i> 128944	–22	<i>For</i> Astronaut <i>read</i> astronaut [(117703) citation]
<i>Bull.</i> 2, #10, 5	17	<i>For</i> march <i>read</i> marché [(99915) citation]
<i>Bull.</i> 2, #10, 5	–14	<i>For</i> M. Knight <i>read</i> M. Night [(124450) citation]
<i>Bull.</i> 2, #10, 5	– 5	<i>For</i> Agustinelcasta <i>read</i> Agustinelcasta [(185578) name]
<i>Bull.</i> 2, #10, 5	– 3	<i>For</i> Agustin Martinez (b. 1963), known as “Agustin El Casta” <i>read</i> Agustín Martínez (b. 1963), known as “Agustín El Casta” [(185578) citation]

## 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.

### **(5339) Desmars = 1992 CD**

*Discovery: 1992-02-04 / T. Hioki, S. Hayakawa / Okutama / 877*

Josselin Desmars (b. 1980) is a French astronomer at the Observatoire de Paris-IMCCE who predicts occultation by small solar-system bodies. He has led or participated in occultation campaigns to derive Pluto's atmospheric activity, to refine the size and position of Apophis, and to detect the rings of Chariklo.

### **(5353) Baillié = 1989 YT**

*Discovery: 1989-12-20 / Y. Oshima / Gekko / 888*

Kevin Baillié (b. 1980) is a French astronomer at the Observatoire de Paris-IMCCE whose research focuses on the understanding of planet and satellite formation. He has developed numerical models for protoplanetary disk evolution and planetary formation, and studied the rings-satellite interactions in Saturn's rings using Cassini-UVIS data.

### **(19506) Angellopez = 1998 MN<sub>4</sub>**

*Discovery: 1998-06-18 / À. López, R. Pacheco / Costitx / 620*

Angel Lopez Jimenez (b. 1955) is an observer at Mallorca Observatory and has built an automated observatory in Consell.

### **(27086) Italicobrass = 1998 UX<sub>6</sub>**

*Discovery: 1998-10-20 / Farra d'Isonzo / Farra d'Isonzo / 595*

Italico Brass (1870–1943) was an Italian painter and art collector. He was known for his portraits and landscapes, and served as a war painter from 1917.

### **(28057) Hollars = 1998 MM<sub>37</sub>**

*Discovery: 1998-06-24 / LONEOS / Anderson Mesa / 699*

Dennis R. Hollars (b. 1942) is a long-time supporter of Lowell Observatory and its mission. He is an astronomer who received his PhD from New Mexico University where he studied with Clyde Tombaugh. Dennis continues to be generous with his time and talent serving on Lowell Observatory's Advisory Board and Technology committee.

### **(28193) Italosvevo = 1998 WY<sub>30</sub>**

*Discovery: 1998-11-29 / Farra d'Isonzo / Farra d'Isonzo / 595*

Italo Svevo was the pseudonym of Aron Hector Schmitz (1861–1928), an Italian writer and playwright. He is best known for the psychological novel *La coscienza di Zeno*.

**(28408) van Baalen = 1999 TS<sub>222</sub>**

*Discovery: 1999-10-02 / LONEOS / Anderson Mesa / 699*

Mark van Baalen (b. 1945) has served on the Lowell Observatory Advisory Board since its founding in 1987. His career in geological sciences and astronomy at Harvard University spanned over five decades. He is a founding member of the New Hampshire Geological Society and a Life Trustee of the Mount Washington Observatory.

**(34392) Afroz = 2000 RT<sub>68</sub>**

*Discovery: 2000-09-02 / LINEAR / Socorro / 704*

Farhana Afroz mentored a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle-school students. She teaches at the Granada Islamic School, Santa Clara, California.

**(34393) Cindyallen = 2000 RL<sub>69</sub>**

*Discovery: 2000-09-02 / LINEAR / Socorro / 704*

Cindy Allen mentored a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle-school students. She teaches at the Chapel Hill Middle School, Douglasville, Georgia.

**(34397) Rosaliebarber = 2000 RJ<sub>76</sub>**

*Discovery: 2000-09-04 / LINEAR / Socorro / 704*

Rosalie Barber mentored a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle-school students. She teaches at the Saint Matthew Catholic School, San Antonio, Texas.

**(34400) Kimbaxter = 2000 RC<sub>81</sub>**

*Discovery: 2000-09-01 / LINEAR / Socorro / 704*

Kim Baxter mentored a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle-school students. She teaches at the Abraham Lincoln Middle School, Gainesville, Florida.

**(34401) Kaibeecher = 2000 RS<sub>83</sub>**

*Discovery: 2000-09-01 / LINEAR / Socorro / 704*

Kaitlin Beecher mentored a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle-school students. She teaches at the Bear River Charter School, Logan, Utah.

**(34404) Jaybuddi = 2000 RZ<sub>85</sub>**

*Discovery: 2000-09-02 / LINEAR / Socorro / 704*

Jay Buddi mentored a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle-school students. He teaches at the Surfside Middle School, Panama City Beach, Florida.



**(34406) Kristenconn = 2000 RD<sub>92</sub>**

*Discovery: 2000-09-03 / LINEAR / Socorro / 704*

Kristen Connelly mentored a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle-school students. She teaches at the Tredyffrin-Easttown Middle School, Berwyn, Pennsylvania.

**(34412) Tamicruz = 2000 RG<sub>100</sub>**

*Discovery: 2000-09-05 / LINEAR / Socorro / 704*

Tami Cruz mentored a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle-school students. She teaches at the Grand Avenue Middle School, Bellmore, New York.

**(34415) Racheldragos = 2000 RV<sub>103</sub>**

*Discovery: 2000-09-06 / LINEAR / Socorro / 704*

Rachel Dragos mentored a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle-school students. She teaches at the Nueva School, Hillsborough, California.

**(34418) Juliegodfrey = 2000 SO<sub>3</sub>**

*Discovery: 2000-09-20 / LINEAR / Socorro / 704*

Julie Godfrey mentored a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle-school students. She teaches at the Northwestern Middle School, Milton, Georgia.

**(34432) Groebe = 2000 SF<sub>36</sub>**

*Discovery: 2000-09-24 / LINEAR / Socorro / 704*

Rebecca Groebe mentored a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle-school students. She teaches at the Delta Woods Middle School, Lee's Summit, Missouri.

**(42795) Derekmuller = 1999 CO<sub>12</sub>**

*Discovery: 1999-02-14 / ODAS / Caussols / 910*

Derek Muller (b. 1982) is a Canadian-Australian science communicator. He is the creator of the science YouTube channel, Veritasium, for which he received two Streamy Awards. He has hosted television documentaries, including *Uranium – Twisting the Dragon's Tail* and *Vitamina: The Sense and Nonsense of Vitamins*.

**(58145) Gus = 1986 PT<sub>1</sub>**

*Discovery: 1986-08-01 / M. Rudnyk / Palomar / 675*

The discoverer's father Augustin J. "Gus" Rudnyk (1927–2011) always encouraged his son in science and art. A WW2 veteran (US Army/Counter Intelligence Corps), he also worked on: communications systems for the Lunar Excursion Module for NASA's Apollo lunar program; Space Shuttle data systems; and numerous US Defense intelligence satellite programs.

**(66885) Wangxiaomo = 1999 VH<sub>72</sub>**

*Discovery: 1999-11-12 / Beijing Schmidt CCD Asteroid Program / Xinglong / 327*

Wang Xiaomo (b. 1938) is a Chinese radar and electronic technology expert, and an Academician of the Chinese Academy of Engineering. He designed many important radar systems and was the chief editor of the first series of books on modern China radar engineering. He was honored with China's State Preeminent Science and Technology Award in 2012.

**(96591) Emiliemartin = 1998 XY**

*Discovery: 1998-12-07 / ODAS / Caussols / 910*

Emilie Martin (b. 1977) is a French science journalist. She has been section editor for the French astronomy magazine *Ciel et Espace*, where she specialized in reporting science activities in the field all over the world. She also works as a science journalist for several channels on French television.

**(192353) Wangdazhong = 1995 TS<sub>1</sub>**

*Discovery: 1995-10-14 / Beijing Schmidt CCD Asteroid Program / Xinglong / 327*

Wang Dazhong (b. 1935) is a Chinese nuclear reactor engineer, an educator, and an Academician of the Chinese Academy of Sciences. He has served as president of Tsinghua University, and he won the 2020 State Preeminent Science and Technology Award of China.

**(199696) Kemenesi = 2006 HD<sub>31</sub>**

*Discovery: 2006-04-25 / K. Sárneczky \* / Piszkestető / 461*

Gábor Kemenesi (b. 1987) is a Hungarian biologist and virus researcher, who played a prominent role in providing accurate information to the general public via the media during the COVID pandemic. He is the winner of the 2022 annual science communication award of the Club of Hungarian Science Journalists.

**(248866) Margherita = 2006 UN<sub>55</sub>**

*Discovery: 2006-10-17 / L. Tesi, M. T. Mazzucato \* / San Marcello / 104*

Flavia Margherita Natalina Mazzucato (b. 1953) is the older sister of the second discoverer. She is now retired, after a long career as a nurse at the Livorno Civil Hospital.

**(266710) Pedrettiadriana = 2009 QH<sub>37</sub>**

*Discovery: 2009-08-31 / M. Micheli / Haleakala / F65*

Adriana Pedretti (b. 1950) is the mother of the discoverer. She always encouraged her son's passion for astronomy.

**(299785) Alexeymolchanov = 2006 SC<sub>77</sub>**

*Discovery: 2006-09-22 / V. S. Casulli / Vallemare Borbona / A55*

Alexey Molchanov (b. 1987) is a Russian freediver, who holds a men's world record in constant weight apnea (CWT) at 130 m.

**(420612) Nuptel = 2012 HK<sub>60</sub>**

*Discovery: 2008-02-06 / PMO NEO Survey Program / XuYi / D29*

NUPT, founded in 1942, is the abbreviation of “Nanjing University of Posts and Telecommunications”. Over the past 80 years, it has developed into a renowned university in China, and has been hailed as the “Cradle of China's IT Talents”, having cultivated a large number of high-tech talents in the field of information.

**(545651) Lilyjames = 2011 SH<sub>119</sub>**

*Discovery: 2011-09-25 / N. Falla / Mayhill / H06*

Lily Catherine James (b. 2002) is the granddaughter of the discoverer. She is currently studying psychology at the Open University.

**(549706) Spbuni = 2011 SH<sub>24</sub>**

*Discovery: 2011-09-21 / T. Kryachko, B. Satovski / Zelenchukskaya Stn / 114*

Saint Petersburg University, founded by Peter the Great in 1724, was the first university in Russia. It is one of the largest research and educational centers in the world, and the alma mater of numerous scientists, philosophers and lecturers, including nine Nobel Prize laureates.

**(554879) Kissgyula = 2013 EA<sub>49</sub>**

*Discovery: 2011-10-02 / K. Sárnecky, T. Szalai \* / Pizskéstető / 461*

Gyula Kiss (1948–2022) was a Hungarian amateur astronomer, who brought the universe closer to thousands of people via public lectures and sky-watching events. He also inspired young people, including the second discoverer, to choose astronomy or space science as their profession.

**(575511) Bükk = 2011 US<sub>31</sub>**

*Discovery: 2011-10-18 / K. Sárnecky, A. Szing \* / Pizskéstető / 461*

The Bükk Mountains are a part of the North Hungarian Mountains of the Inner Western Carpathians. The Bükk's maximum elevation is 959 meters, the main mass of the mountains is a limestone plateau, and there are 1115 known caves.

**(612787) Haumannpéter = 2004 PP<sub>26</sub>**

*Discovery: 2004-08-08 / K. Sárnecky, T. Szalai \* / Pizskéstető / 461*

Péter Haumann (1941–2022) was a popular, multi-talented Hungarian actor, who was awarded the title of The Nation's Actor. He appeared in nearly 100 movies and thousands of stage performances. He played leading roles in tragedies, comedies and musicals, and was also a popular voice actor.

## 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, or the first appearance of a name if the name was modified subsequently). If a date appears as the reference, it refers to the date that a News note of a name change appeared on the WGSBN website. If a name contains 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

C/2022 N2 (PANSTARRS)		<i>MPEC 2022-N48</i>
C/2022 N1 (Attard-Maury)	*	<i>MPEC 2022-N47</i>
P/2022 M1 (PANSTARRS)		<i>MPEC 2022-N46</i>
C/2022 L4 (PANSTARRS)		<i>MPEC 2022-M104</i>
P/2022 L3 (ATLAS)		<i>MPEC 2022-M97</i>
C/2022 L2 (ATLAS)		<i>MPEC 2022-M18</i>
C/2022 L1 (Catalina)		<i>MPEC 2022-L97</i>
C/2022 K1 (Leonard)		<i>MPEC 2022-L53</i>
C/2022 J2 (Bok)		<i>MPEC 2022-M98</i>
C/2022 J1 (Maury-Attard)	*	<i>MPEC 2022-J88</i>
C/2022 H1 (PANSTARRS)		<i>MPEC 2022-J76</i>
C/2022 F2 (NEOWISE)		<i>MPEC 2022-G83</i>
C/2022 F1 (ATLAS)		<i>MPEC 2022-G82</i>
C/2022 E3 (ZTF)		<i>MPEC 2022-F13</i>
C/2022 E2 (ATLAS)		<i>MPEC 2022-E227</i>
P/2022 E1 = P/2005 N11 = P/2015 PO <sub>210</sub> (PANSTARRS-Christensen)		<i>MPEC 2022-H49</i>
C/2022 D2 (Kowalski)		<i>MPEC 2022-E46</i>
P/2022 D1 (PANSTARRS)		<i>MPEC 2022-E07</i>
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)		<i>MPEC 2022-E133</i>
P/2022 B1 (Wierzchoś)	[Wierzchos]	<i>MPEC 2022-C2</i>
C/2022 A3 (Lemmon-ATLAS)		<i>MPEC 2022-E107</i>
C/2022 A2 (PANSTARRS)		<i>MPEC 2022-C1</i>

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C/2022 A1 (Sárneczky)	[Sarneczky]	MPEC 2022-A59
C/2021 Y1 (ATLAS)		MPEC 2022-A50
C/2021 X1 (Maury-Attard)	*	MPEC 2022-J33
P/2021 V3 = P/2011 UE <sub>215</sub> (Lemmon-PANSTARRS)		2022-05-25
P/2021 V2 (Fuls)		MPEC 2021-V169
C/2021 V1 (Rankin)		MPEC 2021-V167
C/2021 U5 (Catalina)		MPEC 2021-V199
C/2021 U4 (Leonard)		MPEC 2021-V22
P/2021 U3 (Attard-Maury)	*	MPEC 2021-V21
P/2021 U1 (Wierchoś)	[Wierchos]	MPEC 2021-U43
C/2021 T4 (Lemmon)		MPEC 2021-U187
P/2021 R9 (Sheppard-Tholen)		MPEC 2022-O19
P/2021 R8 (Sheppard)		MPEC 2021-X149
C/2021 QM <sub>45</sub> (PANSTARRS)		MPEC 2022-N12
C/2021 F1 (Lemmon-PANSTARRS)		MPEC 2022-C15
P/2020 WJ5 (Lemmon)		MPEC 2022-H121
P/2020 B4 (Sheppard)		MPEC 2022-D06
P/2020 A4 (PANSTARRS-Lemmon)		MPEC 2022-P91
C/2019 G4 (PANSTARRS)		MPEC 2022-P69
P/2016 PM <sub>1</sub> = P/2010 LK <sub>36</sub> = P/2016 MD = P/2022 C4 (WISE-PANSTARRS)		MPEC 2022-M81

### Recent Numberings

446P/2012 O3 = P/2022 G2 (McNaught)		MPC 141173
445P/2014 R5 = P/1998 W9 = P/2006 S14 = P/2022 L5 (Lemmon-PANSTARRS)		MPC 141173
444P/2016 PM1 = P/2010 LK36 = P/2016 MD = P/2022 C4 (WISE-PANSTARRS)		MPC 141173
443P/2022 E1 = P/2005 N11 = P/2015 PO <sub>210</sub> (PANSTARRS-Christensen)		MPC 139977
442P/2011 Q3 = P/2022 G1 (McNaught)		MPC 139977
441P/2017 R1 = P/2022 B2 (PANSTARRS)		MPC 138400
440P/1997 B1 = P/2021 W2 (Kobayashi)		MPC 136564
439P/2008 WZ <sub>96</sub> = P/2021 W1 (LINEAR)		MPC 136564
438P/2005 T2 = P/2012 V5 = P/2020 OV <sub>62</sub> (Christensen)		MPC 136564
437P/2021 V3 = P/2011 UE <sub>215</sub> (Lemmon-PANSTARRS)		MPC 136564
436P/2007 R4 = P/2021 U2 (Garradd)		MPC 135244
435P/2021 T3 = P/2015 K6 (PANSTARRS)		MPC 135244
434P/2012 TK <sub>8</sub> = P/2021 S2 (Tenagra)		MPC 135244
433P = (248370)	Dual status	MPC 133899
432P/2021 N4 = P/2016 U2 (PANSTARRS)		MPC 133899

## 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 23369 named minor planets.

Discoverers of minor planets may submit name proposals via the WGSBN voting website at: [https://minorplanetcenter.net//submit\\_name/login](https://minorplanetcenter.net//submit_name/login)

Registration is required to access this site. Requests for access should be made to [contact@wgsbn-iau.org](mailto: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](mailto: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.

