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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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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.</i> 2, #5, 13	7 to 11	Delete the name and citation for (511955).

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) names(s) is/are followed by an asterisk if this is a change from what was published when the object was numbered.

(10485) Sarahyeomans = 1984 SY₅

Discovery: 1984-09-21 / H. Debehogne / La Silla / 809

Sarah Katherine Yeomans (b. 1974) received her Ph.D. from the University of Southern California in 2021 with a thesis on Roman civic medicine. She has studied ancient Roman medical facilities, practitioners and instrumentation in Italy as well as present day Bulgaria and Turkey.

(17749) Dulbecco = 1998 DW₁

Discovery: 1998-02-19 / Farra d'Isonzo / Farra d'Isonzo / 595

Renato Dulbecco (1914–2012) was an Italian-American virologist who won the 1975 Nobel Prize in Physiology or Medicine for his discoveries concerning the interaction between tumor viruses and the genetic material of the cell.

(19715) Basodino = 1999 UA₄

Discovery: 1999-10-27 / S. Sposetti / Gnosca / 143

Named for the second-highest mountain (3273 m) in the Swiss canton Ticino; its glacier is the most significant one in the canton, but it has retreated by about 1400 m in the last 150 years.

(25337) Elisabetta = 1999 PK

Discovery: 1999-08-06 / G. Masi / Ceccano / 470

Elisabetta Masi (b. 2019) is the daughter of the discoverer.

(30087) Georgeputnam = 2000 EL₁₂₂

Discovery: 2000-03-11 / LONEOS / Anderson Mesa / 699

George Putnam, III (b. 1951) is a trustee of the Lowell Observatory Foundation. He is also a current director of the Gloucester Marine Genomics Institute and Harvard's Class ACT organization and a past trustee or director of several organizations including the Marine Biological Laboratory and the Massachusetts Audubon Society.

(30091) Stephenbrown = 2000 EY₁₃₀

Discovery: 2000-03-11 / LONEOS / Anderson Mesa / 699

Stephen W. Brown (b. 1943) is a trustee of the Lowell Observatory Foundation. He is the Emeritus Edward M. Carson Chair and Professor of Marketing at Arizona State University and Strategic Partner with The Insight Group. He has served in leadership roles with many non-profit boards, including being the President of the American Marketing Association.

(30092) Menke = 2000 EB₁₃₅

Discovery: 2000-03-11 / LONEOS / Anderson Mesa / 699

John Menke (b. 1940) is a trustee of the Lowell Observatory Foundation. His past professions have included physicist at the Bureau of Standards in Gaithersburg, politician, and staff scientist at the Mitre Corporation. In 1991, he and his wife Meg began an astronomical-dome manufacturing business, which they ran until they retired in 2002.

(162059) Mészáros = 1997 AM₁₇

Discovery: 1997-01-13 / Kleť / Kleť / 046

Atila Mészáros (1951–2022) was Czech astronomer of Hungarian origin. He was a member of the Astronomical Institute of Charles University in Prague from 1984. Mészáros dealt with cosmology, the large-scale structure of the universe and γ -ray bursts. He was an excellent lecturer with a fresh sense of humor.

(170910) Brandonsanderson = 2004 XE₆₉

Discovery: 2004-12-09 / CSS / Catalina / 703

Brandon Sanderson (b. 1975) is an American author of high fantasy and science fiction. He is best known for the Cosmere fictional universe in which most of his fantasy novels are set.

(211106) Francinewetzel = 2002 EN₁₅₁

Discovery: 2002-03-15 / Spacewatch / Kitt Peak / 691

Francine Wetzel (b. 1992) worked full time as an LPL administrator while earning her Masters at the University of Arizona. She served LPL's small-bodies projects with skill, knowledge and reliability, and resourcefulness.

(403491) Anthonygrayling = 2009 UX₇₃

Discovery: 2009-10-21 / CSS / Catalina / 703

Anthony Clifford Grayling (b. 1949) is a British philosopher, author, humanist, and professor. He has authored over 30 books on ethics, philosophy, human rights, and other topics related to secularism.

(433512) Hollyholman = 2013 WE₅₅

Discovery: 2009-11-26 / Mt. Lemmon Survey / Mount Lemmon / G96

Holly Holman (b. 1973) is a biologist, lecturer and educator at the University of Utah. She has done work in vaccine development, studied dormant RNA viruses in humans, and discovered a new type of cell called a clinocyte.

(509761) Umberto = 2008 UM

Discovery: 2008-10-19 / Farra d'Isonzo / Farra d'Isonzo / 595

Umberto Martissa (b. 1935) is an Italian mathematics high-school professor. For many years he has been President of the Circolo Culturale Astronomico di Farra d'Isonzo.

(534390) Huningsheng = 2014 TR₆₅

Discovery: 2010-08-19 / PMO NEO Survey Program / XuYi / D29

Hu Ningsheng (b. 1932) is an expert in astronomical instrumentation. He has made significant contributions to China's astrometric instruments and technologies, especially leading the development and manufacture of the photoelectric astrolabe, the ground-based equipment with the highest latitude-measurement accuracy.

(541508) Liucixin = 2011 QK₃₇

Discovery: 2011-08-27 / T. Kryachko, B. Satovski / Zelenchukskaya Stn / 114

Liu Cixin (b. 1963) is a prominent Chinese science-fiction writer who has won many literary awards. He received the 2015 Hugo Award for his novel *The Three-Body Problem*.

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 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 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 (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 (Wierchoś)	[Wierchos]	<i>MPEC 2022-C2</i>
C/2022 A3 (Lemmon-ATLAS)		<i>MPEC 2022-E107</i>
C/2022 A2 (PANSTARRS)		<i>MPEC 2022-C1</i>
C/2022 A1 (Sárneczky)	[Sarneczky]	<i>MPEC 2022-A59</i>
C/2021 Y1 (ATLAS)		<i>MPEC 2022-A50</i>
P/2021 V3 = P/2011 UE ₂₁₅ (Lemmon-PANSTARRS)		Announcement pending
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 (Wierchoś)	[Wierchos]	<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>

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C/2021 S3 (PANSTARRS)		MPEC 2021-T166
C/2021 S1 (ATLAS)		MPEC 2021-T21
P/2021 R8 (Sheppard)		MPEC 2021-X149
C/2021 R7 (PANSTARRS)		MPEC 2021-T162
C/2021 R6 (Gröller)	[Groeller]	MPEC 2021-S113
P/2021 R5 (Rankin)		MPEC 2021-R257
P/2021 R4 (Wierzchoś)	[Wierzchos]	MPEC 2021-R256
P/2021 R3 (PANSTARRS)		MPEC 2021-R255
C/2021 R2 (PANSTARRS)		MPEC 2021-R151
P/2021 R1 (PANSTARRS)		MPEC 2021-R150
C/2021 Q6 (PANSTARRS)		MPEC 2021-R167
P/2021 Q5 (ATLAS)		MPEC 2021-R98
C/2021 Q4 (Fuls)		MPEC 2021-Q102
C/2021 Q3 (ATLAS)		MPEC 2021-Q97
C/2021 P4 (ATLAS)		MPEC 2021-Q42
P/2021 HS (PANSTARRS)		MPEC 2021-S44
C/2021 G2 (ATLAS)		MPEC 2021-T206
C/2021 F1 (Lemmon-PANSTARRS)		MPEC 2022-C15
P/2020 B4 (Sheppard)		MPEC 2022-D06

Recent Numberings

441P/2017 R1 = P/2022 B2 (PANSTARRS)		MPC 138400
440P/1997 B1 = P/2021 W2 (Kobayashi)		MPC 136564
439P/2008 WZ ₉₆ = P/2021 W1 (LINEAR)		MPC 136564
438P/2005 T2 = P/2012 V5 = P/2020 OV ₆₂ (Christensen)		MPC 136564
437P/2021 V3 = P/2011 UE ₂₁₅ (PANSTARRS)		MPC 136564
436P/2007 R4 = P/2021 U2 (Garradd)		MPC 135244
435P/2021 T3 = P/2015 K6 (PANSTARRS)		MPC 135244
434P/2012 TK ₈ = P/2021 S2 (Tenagra)		MPC 135244
433P = (248370)	<i>Dual status</i>	MPC 133899
432P/2021 N4 = P/2016 U2 (PANSTARRS)		MPC 133899
431P/2015 Q1 = P/2021 P5 (Scotti)		MPC 133899
430P/2011 A2 = P/2021 Q2 (Scotti)		MPC 133899
429P/2008 QP ₂₀ = P/2021 M1 (LINEAR-Hill)		MPC 133899
428P/2014 W12 = P/2021 Q1 (Gibbs)		MPC 133899
427P/2017 S5 = P/2021 L6 (ATLAS)		MPC 133899
426P/2019 A7 = P/2021 K4 (PANSTARRS)		MPC 133899
425P/2005 W3 = P/2021 O2 (Kowalski)		MPC 132232
424P/2012 S2 = P/2021 L5 (La Sagra)		MPC 132232
423P/2008 CL ₉₄ = P/2021 A12 (Lemmon)		MPC 132232
422P/2006 S4 = P/2021 L1 (Christensen)		MPC 132232

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 23206 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.

