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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> 1, #8, 9	–11	For EURONEAR, - read EURONEAR [(557045) discoverer]
<i>Bull.</i> 1, #8, 9	– 5	For EURONEAR, - read EURONEAR [(572217) discoverer]

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.

(9855) Thomasdick = 1991 CU

Discovery: 1991-02-07 / R. H. McNaught / Siding Spring / 413

Thomas Dick (1774–1857) was an influential Scottish astronomy writer and public speaker. His mixture of science, religion and philosophy was widely read. He had a significant impact on education in the United States and promoted the notion of the “plurality of inhabited worlds”.

(10087) Dechesne = 1990 SG₃

Discovery: 1990-09-18 / H. E. Holt / Palomar / 675

Roland George Dechesne (b. 1960) has been President of the Royal Astronomical Society of Canada, Calgary Centre, has run Calgary's annual Star-B-Q for many years, and has regularly given the talks at the University of Calgary's Rothney Astrophysical Observatory open houses. He has been a leader in RASC's Light Pollution Abatement Committee.

(10096) Colleenohare = 1991 RK₅

Discovery: 1991-09-13 / H. E. Holt / Palomar / 675

Colleen O'Hare (b. 1955) is an active member of the Royal Astronomical Society of Canada, Okanagan Centre, who won the 2012 Qilak Award for her outreach efforts and the RASC Service Award in 2018 for her leadership, which included a term as club President as well as committee service. She led the development of the club observatory's SkyTheatre.

(10097) Humbracos = 1991 RV₁₆

Discovery: 1991-09-15 / H. E. Holt / Palomar / 675

This citation honors the memory of sixteen persons, including ten members of the Humboldt Broncos, a junior hockey team, who died in a bus crash in Saskatchewan, Canada, on 2018 April 6. The tragedy had a unifying effect on the community and there was an emotional response all across Canada.

(10098) Jaymiemathews = 1991 SC₁

Discovery: 1991-09-30 / R. H. McNaught / Siding Spring / 413

Jaymie Mark Matthews (b. 1958) did undergraduate studies at the University of Toronto and his MSc and PhD at Western University. He has been a member of the faculty of the University of British Columbia since 1992 and was made an Officer of the Order of Canada. He is principal investigator for the Microvariability and Oscillations of Stars Telescope.

(10109) Sidhu = 1992 KQ

Discovery: 1992-05-29 / E. F. Helin / Palomar / 675

Jaskarn Singh “Sid” Sidhu (b. 1938) joined the Royal Astronomical Society of Canada, Victoria Centre, in 1985, and has been a mentor for new members. He coordinates the loan of Centre-owned telescopes and the club's schools program. Sid was awarded the RASC President's Award in 2010 for his leadership during the International Year of Astronomy.

(12933) Muzzonigro = 1999 TC₁₆

Discovery: 1999-10-14 / Farra d'Isonzo / Farra d'Isonzo / 595

Livio Muzzonigro (b. 1932) taught mathematics and physics in the scientific high-school Duca degli Abruzzi in Gorizia. According to one of the discoverers, once his pupil, Muzzonigro was the best teacher he ever had.

(15803) Parisi = 1994 CW

Discovery: 1994-02-07 / Farra d'Isonzo / Farra d'Isonzo / 595

Giorgio Parisi (b. 1948) is the co-winner of the 2021 Nobel Prize in Physics for the discovery of the interplay of disorder and fluctuations in physical systems from atomic to planetary scales. He is an Italian theoretical physicist whose research has focused on quantum field theory, statistical mechanics and complex systems.

(15825) Capecchi = 1994 WX₁

Discovery: 1994-11-30 / Farra d'Isonzo / Farra d'Isonzo / 595

Mario Capecchi (b. 1937) is the co-winner for 2007 of the Nobel Prize in Medicine for his discoveries of principles for introducing specific gene modifications in mice by the use of embryonic stem cells. He has also pursued a systematic analysis of the mouse Hox gene family.

(18400) Muramatsushigeru = 1992 WY₃

Discovery: 1992-11-25 / T. Seki / Geisei / 372

Shigeru Muramatsu (b. 1951) is a Japanese amateur astronomer living in Imabari City, Ehime Prefecture. He dedicates his time to outreach programs, holding public talks and observing sessions.

(37734) Bonacina = 1996 UR₃

Discovery: 1996-10-30 / A. Testa, V. Giuliani / Sormano / 587

Celestino Bonacina (b. 1947) made his private observatory available to schoolchildren for many years. In the 1980s his experience was essential for the building of the Osservatorio Astronomico Sormano, where this minor planet was discovered.

(39792) Patrickchevalley = 1997 RJ₄

Discovery: 1997-09-05 / ODAS / Caussols / 910

Patrick Chevalley (b. 1958) is a computer engineer and Swiss amateur astronomer. He is the author of the Cartes du Ciel planetarium and CCDciel image acquisition freeware, and co-author of the Virtual Moon Atlas freeware used by many amateurs around the world.

(39814) Christianlegrand = 1997 XF₈

Discovery: 1997-12-07 / ODAS / Caussols / 910

Christian Legrand (b. 1953) is a public service engineer and French amateur astronomer. He is a co-author of the Virtual Moon Atlas freeware used by many amateurs around the world, and the author of numerous books and articles about the Moon.

(39877) Deverchère = 1998 EQ₆

Discovery: 1998-03-01 / ODAS / Caussols / 910

Philippe Deverchère (b. 1959) is a French engineer and amateur astronomer. He has developed free software for astronomers (such as C2A) since 1990, and more recently light-pollution analysis software and instrumentation. He has played a major role in understanding light-pollution modeling and measurement.

(46691) Ghezzi = 1997 BK₃

Discovery: 1997-01-30 / P. Sicoli, V. Giuliani / Sormano / 587

Pierangelo Ghezzi (b. 1956) is an Italian amateur astronomer. He has made observations of variable stars and co-discovered some minor planets.

(47708) Jimhamilton = 2000 DR₁₅

Discovery: 2000-02-26 / CSS / Catalina / 703

Jim Hamilton (1947–2021) was an amateur astronomer living in Caballo, New Mexico. His interests were digital imaging of galaxies and more recently planets. He brought together amateur astronomers from around the country in an email list where members enjoyed sharing their astronomical images and his sharp wit.

(79847) Colzani = 1998 XY₂

Discovery: 1998-12-07 / F. Manca, A. Testa / Sormano / 587

Enrico Colzani (b. 1956) has dedicated many years to popularizing and teaching astronomy. Recently his efforts have been directed towards the realization of a planetarium near the Osservatorio Astronomico Sormano.

(92586) Jaxonpowell = 2000 PS₈

Discovery: 2000-08-09 / L. Ball / Emerald Lane / 843

Jaxon Powell (b. 2018) is the nephew of the discoverer.

(176981) Anteradonic = 2002 XJ₁₁₆

Discovery: 2002-12-11 / Sloan Digital Sky Survey / Apache Point / 645

Ante Radonić (b. 1951) is an astronomer and a major contributor to the popularization of astronomy and astronautics in Croatia. For over two decades he has written for Andromeda, a weekly radio show.

(178534) Mosheelitzur = 1999 TO₃₃₃

Discovery: 1999-10-13 / Sloan Digital Sky Survey / Apache Point / 645

Moshe Elitzur (b. 1944) is an emeritus professor of physics at the University of Kentucky. He is a major contributor to theories of maser and dust radiation transfer in astrophysical environments.

(179221) Hrvojebožić = 2001 TP₂₄₄

Discovery: 2001-10-14 / Sloan Digital Sky Survey / Apache Point / 645

Hrvoje Božić (b. 1954) is a leading astrophysicist at the Hvar Observatory and a major contributor to the development of astronomy education in Croatia.

(179223) Tonytyson = 2001 TA₂₅₇

Discovery: 2001-10-15 / Sloan Digital Sky Survey / Apache Point / 645

J. Anthony Tyson (b. 1940) is an American physicist and astronomer. In the late 1970s he applied CCDs to astronomy, discovering the faint blue galaxies. He started a project to build a next-generation sky survey, later named Vera C. Rubin Observatory's Legacy Survey of Space and Time, and directed it for 15 years.

(179413) Stevekahn = 2001 YM₁₆₁

Discovery: 2001-12-19 / Sloan Digital Sky Survey / Apache Point / 645

Steve M. Kahn (b. 1954) is an American physicist and astronomer who has made significant contributions to X-ray astronomy. He was the U.S. Principal Investigator for the Reflection Grating Spectrometer on ESA's XMM-Newton Observatory. He led the construction of the LSST Camera and served as Director during construction of the Vera C. Rubin Observatory.

(188894) Gerberlouis = 2006 XS₅₆

Discovery: 2006-12-15 / P. Kocher / Marly / A13

Louis Gerber (1928–2021), a Swiss citizen from Fribourg, was a banker by profession and a fervent amateur astronomer. Until 2005 he was the first treasurer of the Robert A. Naef Foundation, created in 1977, which operates the Observatory Robert A. Naef at Ependes (opened in 1984), where this asteroid was discovered.

(189945) Teddykareta = 2003 TP₃

Discovery: 2003-10-04 / V. Reddy / Goodricke-Pigott / 683

Theodore “Teddy” Richard Kareta (b. 1995) is a former graduate student at the Lunar and Planetary Lab of the University of Arizona, where his dissertation focused on characterization of active small bodies in the Solar System using ground-based optical and infrared telescopes.

(383622) Luigivolta = 2007 PJ₉

Discovery: 2007-08-11 / V. S. Casulli / Vallemare Borbona / A55

Luigi Volta (1876–1952), was an Italian astronomer. Between 1928 and 1934 he discovered five minor planets at Pino Torinese Observatory.

(385980) Emiliosegrè = 2007 AA₈

Discovery: 2007-01-09 / V. S. Casulli / Vallemare Borbona / A55

Emilio Gino Segrè (1905–1989) was an Italian-American physicist who discovered the elements technetium and astatine, and the antiproton. He was a co-winner of the 1959 Nobel Prize for Physics for discovering the antiproton.

(390813) Debwatson = 2004 JY₆

Discovery: 2004-05-13 / D. Higgins / Hunters Hill / E14

Deborah (Watson) Higgins (b. 1960) is the wife of the Australian amateur astronomer who discovered this minor planet.

(471301) Robertajmolson = 2011 HS₂₀

Discovery: 2006-01-30 / Spacewatch / Kitt Peak / 691

Art historian Roberta J. M. Olson (b. 1947) identified Halley's Comet as the model for Giotto's Star of Bethlehem in his Arena Chapel fresco in Padua. This inspired ESA to name the mission to Halley's Comet “Giotto”. Her books include *Fire in the Sky: A History of Comets in Art* and, as a co-author, *Cosmos: The Art and Science of the Universe*.

(546275) Kozák = 2010 UW₈₃

*Discovery: 2010-10-30 / K. Sárneczky, Z. Kuli * / Piszkestető / 461*

Danuta Kozák (b. 1987) is a Hungarian sprint canoeist, who won six gold, one silver and one bronze medals at four Olympic Games between 2008 and 2021. He also won fifteen gold medals at World Championships, and seventeen gold medals at European Championships.

(576373) Wolfgangbusch = 2012 QX₂

Discovery: 2012-08-16 / ESA OGS / ESA OGS / J04

Wolfgang Busch (b. 1927), formerly a high school teacher, is a German optics expert and telescope maker, specializing in the restoration of historical telescopes. In the 1970s, he developed the Halb-Apochromaten-Bausatz, an oil-spaced triplet-lens kit for amateurs. Name suggested by C. Liefke.

(578053) Jordillorca = 2013 WD₁

Discovery: 2013-11-26 / J. M. Bosch, R. Olivera / SM Montmagastrell / B74

Jordi Llorca Piqué (b. 1966) is a professor of chemistry, and vice chancellor, at UPC-BarcelonaTech, and a member at Institut d'Estudis Catalans. A former research assistant at the Institute of Meteoritics, University of New Mexico, he is the founder of a citizen scientist meteorite recovery group with hundreds of meteorite recoveries.

(590888) Chengda = 2012 VB₅₃

*Discovery: 2007-07-22 / C.-S. Lin, Q.-z. Ye * / Lulin / D35*

Established in 1931, ChengDa, is an abbreviation for National Cheng Kung University (NCKU), one of the top public universities in Taiwan. "Pursuit of truth through exhaustive reasoning" is NCKU's motto.

(597148) Chungmingshen = 2006 TV₅₆

*Discovery: 2006-10-14 / H.-C. Lin, Q.-z. Ye * / Lulin / D35*

Ming-Shen Chung (b. 1956) is the director of Yushan National Park in Taiwan. He has been dedicated to the development of the Taiwan national park system for more than 30 years.

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/2021 C1 (PANSTARRS)		<i>MPEC 2022-C74</i>
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>
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>

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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
C/2021 P3 (PANSTARRS)	MPEC 2021-Q29
C/2021 P2 (PANSTARRS)	MPEC 2021-Q28
C/2021 P1 (PANSTARRS)	MPEC 2021-Q02
C/2021 O3 (PANSTARRS)	MPEC 2021-P05
C/2021 O1 (Nishimura)	* MPEC 2021-O47
C/2021 N3 (PANSTARRS)	MPEC 2021-O39
P/2021 HS (PANSTARRS)	MPEC 2021-S44
C/2021 G2 (ATLAS)	MPEC 2021-T206
C/2021 F1 (Lemmon-PANSTARRS)	MPEC 2022-C15

Recent Numberings

440P/1997 B1 = 2021 W2 (Kobayashi)	MPC 136564
439P/2008 WZ ₉₆ = 2021 W1 (LINEAR)	MPC 136564
438P/2005 T2 = 2012 V5 = 2020 OV ₆₂ (Christensen)	MPC 136564
437P.2021 V3 = 2011 UE ₂₁₅ (PANSTARRS)	MPC 136563
436P/2007 R4 = 2021 U2 (Garradd)	MPC 135244
435P/2021 T3 = 2015 K6 (PANSTARRS)	MPC 135244
434P/2012 TK ₈ = 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
421P/2009 U4 = P/2020 H10 (McNaught)	MPC 130596
420P/2009 Q1 = P/2021 E1 (Hill)	MPC 128966
419P/2015 F1 = P/2021 A11 (PANSTARRS)	MPC 128966
418P/2010 A5 = P/2020 Y5 (LINEAR)	MPC 127300
417P/2015 J3 = P/2021 B1 (NEOWISE)	MPC 127300
416P/2013 A2 = P/2021 A8 (Scotti)	MPC 127300
415P/2013 EW ₉₀ = P/2020 Y4 (Tenagra)	MPC 127300

Standard Acronyms & Abbreviations

Listed below, in alphabetical order, are the standard acronyms that may be used in citations without needing to be expanded.

AAVSO	American Association of Variable Star Observers
CFHT	Canada-France-Hawaii Telescope
ESO	European Southern Observatory
IAU	International Astronomical Union
JPL	Jet Propulsion Laboratory
MPC	Minor Planet Center
NASA	National Aeronautics and Space Administration
NTT	New Technology Telescope
RASC	Royal Astronomical Society of Canada
SwRI	Southwest Research Institute
USNO	U.S. Naval Observatory

Statistics & Links

There are currently 23056 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.

