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Cover image: Navigation image of (1) Ceres, obtained by the DAWN mission. Courtesy NASA/JPL-CALTECH.

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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*.

Reference	Line(s)	
<i>MPC</i> 41571	–19 to –20	<i>For</i> GNU project was created by Richard Stallman's Free Software Foundation in 1984 <i>read</i> GNU Project was created by Richard Stallman in 1983 [(9965) citation]
<i>Bull.</i> 1, #8, 8	– 3	<i>For</i> Plant Conservation Center <i>read</i> Botanic Conservation Center [(526460) 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) names(s) is/are followed by an asterisk if this is a change from what was published when the object was numbered.

(5770) Aricam = 1987 RY

Discovery: 1987-09-12 / H. Debehogne / La Silla / 809

Arianna and Camilla Laurenti (b. 2017) are the twin grand-daughters of Mario Di Martino, astronomer at the Turin Astrophysical Observatory and colleague and friend of the discoverer.

(10062) Kimhay = 1988 RV₄

Discovery: 1988-09-01 / H. Debehogne / La Silla / 809

Kimberley Dawn Hay (b. 1959) is an enthusiastic observer, sunspot and meteor recorder, and sketch artist, who has contributed to the American Meteor Society, AAVSO, American Lunar and Planetary Observers, and the RASC. She has won the RASC Service Award and the RASC Chilton Prize.

(10065) Greglisk = 1988 XK

Discovery: 1988-12-03 / Y. Oshima / Gekko / 888

Greg Lisk (b. 1963) has served as president of the Royal Astronomical Society of Canada, Belleville Centre, where he organized field trips, designed award programs, judged local science fair entries, prepared displays, arranged star parties and gave presentations at outreach events, both indoor and outdoor. He won the RASC Service Award in 2014.

(10066) Pihack = 1988 XV₂

Discovery: 1988-12-01 / P. Jensen / Brorfelde / 054

Brian Pihack (b.1956) is a chiropractor and amateur astronomer who has served as President of the Royal Astronomical Society of Canada, Niagara Centre. He has given hundreds of introductory astronomy lectures and classes to children, students and adults throughout the Niagara Falls and St. Catharines region of southern Ontario.

(10073) Peterhiscocks = 1989 GJ₂

Discovery: 1989-04-03 / E. W. Elst / La Silla / 809

Peter Hiscocks (1945–2018) was Professor of Electrical Engineering at Ryerson University in Toronto and an expert on illumination engineering. He was an amateur astronomer recognized for his advocacy of light pollution abatement, and was chair of the Light Pollution Abatement Committee of the Royal Astronomical Society of Canada, Toronto Centre.

(10076) Rogerhill = 1989 PK

Discovery: 1989-08-09 / E. F. Helin / Palomar / 675

Roger Hill (b. 1955) has been a member of the Royal Astronomical Society of Canada, Hamilton Centre, for decades and served on the Board for most of that time, including as President. He edited the monthly newsletter *Orbit* for decades and has been involved with a plethora of outreach activities, including a course for new observers in visual astronomy.

(23475) Nakazawa = 1990 VM₂

Discovery: 1990-11-13 / K. Endate, K. Watanabe / Kitami / 400

Satoru Nakazawa (b. 1969) is a Japanese aerospace system engineer at JAXA, who contributed to the SELENE and Mercury Magnetospheric Orbiter. He was also deputy manager of Hayabusa2, which succeeded in returning samples from (162173) Ryugu.

(23495) Nagaotoshiko = 1991 UQ₁

Discovery: 1991-10-29 / A. Takahashi, K. Watanabe / Kitami / 400

Toshiko Nagao (1939–2021), an amateur astronomer, strived to promote astronomy in Japan with her own observatory on the roof on her house. She supported the second discoverer in his asteroid observations.

(23543) Saiki = 1993 UK

Discovery: 1993-10-16 / K. Endate, K. Watanabe / Kitami / 400

Takanao Saiki (b. 1976) is an expert in aerospace engineering at the Institute of Space and Astronautical Science. He was the chief engineer of the Hayabusa2 mission. Hayabusa2 succeeded in creating an artificial crater on the surface of (162173) Ryugu in 2019 with a small impactor developed by Saiki.

(25937) Malysz = 2001 DY₉₂

Discovery: 2001-02-19 / LONEOS / Anderson Mesa / 699

Adam Malysz (b. 1977) is a Polish ski jumper who won multiple medals at the Olympic games in Salt Lake City (2002) and Vancouver (2010). He is also a four-time winner at the World Championships and the World Cup, and popularized ski jumping in Poland.

(25938) Stoch = 2001 DC₁₀₂

Discovery: 2001-02-16 / LINEAR / Socorro / 704

Kamil Stoch (b. 1987), is a Polish ski jumper, who has won three gold medals at two Olympics (2014 and 2018) and multiple medals at World Championships (2013, 2017 and 2019). He is also a three-time winner of the 4-Hills-Tournament.

(29634) Sabrinaaksil = 1998 VB₃

Discovery: 1998-11-10 / ODAS / Caussols / 910

Sabrina Aksil (b. 1985) is a human resources manager in a high tech company. She is the spouse of (8184) Luderic and therefore the daughter-in-law of (3780) Maury.

(33137) Strejček = 1998 DO₁

Discovery: 1998-02-20 / A. Galád, A. Pravda / Modra / 118

Alfred Strejček (b. 1941) is a Czech actor, moderator, musician, screenwriter, narrator, reciter and professor of artistic rhetoric. His voice is loved by television viewers (usually narrating nature documentaries) and radio listeners (classical music) in the Czech and Slovak Republics.

(33162) Sofiarandich = 1998 DT₃₅

Discovery: 1998-02-27 / G. Forti, M. Tombelli / Cima Ekar / 098

Sofia Randich (b. 1962), director of the INAF-Arcetri Astrophysical Observatory since 2018, is the first woman to hold that post. She is an expert on stellar spectroscopy, star clusters, star and Galactic formation and evolution. She is the Co-lead of the Gaia-ESO Spectroscopic Survey, on 8m-class telescope (the ESO VLT).

(37848) Michelmeunier = 1998 DB₁₄

Discovery: 1998-02-27 / ODAS / Caussols / 910

Michel Meunier (b. 1964) is a French airline pilot and amateur astronomer. He was codiscoverer of C/1997 J2 (Meunier-Dupouy) and currently observes with a remote telescope in Chile. He is also very active in the development of various electronic systems used in astronomy.

(48842) Alexmazzanti = 1998 BA₄₄

Discovery: 1998-01-25 / M. Tombelli, G. Forti / Cima Ekar / 098

Alessandro Mazzanti (b. 1964) is an amateur astronomer and has been president of the Gruppo Astrofili Montelupo since 2020. He observes minor planets, especially NEOs.

(69565) Giulioscarfi = 1998 AZ₄

Discovery: 1998-01-05 / L. Sannino, P. Pietrapiana / Monte Viseggi / 126

Giulio Scarfi (b. 1964) is an Italian amateur astronomer who has discovered three minor planets. He designed, founded and built both the Mount Viseggi and Iota Scorprii astronomical observatories. Scarfi studies NEAs and produces minor-planet light curves.

(79996) Vittoria = 1999 FS₁₉

Discovery: 1999-03-23 / Osservatorio San Vittore / Bologna / 552

Vittoria Colombini (b. 2021) is the second son of Alberto Colombini and Elena Cuoghi.

(100445) Pisa = 1996 RA₄

Discovery: 1996-09-12 / V. S. Casulli / Colleverde / 596

Pisa is an Italian city and the home of the Piazza del Duomo, or Piazza dei Miracoli, which was declared a World Heritage Site in 1987. Within the site are a cathedral, built between 1063 and 1118, and the Leaning Tower, from the 12th century.

(112527) Panarese = 2002 PJ₃₃

Discovery: 2002-08-05 / CINEOS / Campo Imperatore / 599

Rossella Panarese (1960–2021) was an Italian radio producer and science communicator. In 2003 she created Radio3 Scienza, the daily science radio show on Italian public radio. She was also a lecturer in science communication at both the International School of Advanced Studies in Trieste and the Sapienza University of Rome.

(113208) Lea = 2002 RR₁₁₄

*Discovery: 2002-09-05 / F. Bernardi * / Campo Imperatore / 599*

Lea Bernardi (b. 2007) is the daughter of the discoverer and is a very promising student, in particular in STEM subjects.

(144362) Swantner = 2004 DG₄₅

Discovery: 2004-02-26 / D. S. Dixon / Las Cruces / 715

William H. Swantner (b. 1943) obtained his doctorate from the James C. Wyant Collage of Optical Sciences University of Arizona in 1978. He was a valued adviser to the construction of the optical imaging system used for minor-planet imagery at Las Cruces Observatory

(229723) Marcoludwig = 2007 GG₂

Discovery: 2007-04-11 / W. Ries / Altschwendt / A44

Marco Ludwig (b. 1982) is a German amateur astronomer and head of the Volkshochschule Observatory in Neumünster. His tireless work in public relations enabled the observatory to be expanded and made it a well-known institution in the German astronomical community.

(237693) Anakovacicek = 2001 TB₂₅₃

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

Ana Kovacicsek (1938–2021) was a teacher of mathematics and physics from Zagreb and a major award-winning contributor to the development of astronomy education in Croatia.

(284919) Kaçar = 2010 BK₈₂

Discovery: 2010-01-25 / WISE / WISE / C51

Betül Kaçar (b. 1983) is a Turkish-American astrobiologist who studies ancient biosignatures and their implications for habitability. She is an expert in the means by which abiotic material gave rise to the first biological organisms on Earth. She works with the United Nations to improve the status of women and girls worldwide.

(310222) Vasipetropoulou = 2011 SR₂₁₄

Discovery: 2002-01-10 / ADAS / Cima Ekar / 209

Vasiliki Petropoulou (b. 1982) is a Greek astrophysicist. She studies cluster galaxies, to infer the impact of the environment on their evolution, and small solar-system bodies with a special focus on near-Earth objects to characterize their physical properties.

(310652) Hansjörgdittus = 2002 CX₃₁₆

Discovery: 2002-01-10 / ADAS / Cima Ekar / 209

Hansjörg Dittus (b. 1957) is a German physicist. From 2011 to 2021 he was Executive Board Member for Space Research and Technology at the DLR. He supported the realization of MASCOT, the German-French Surface Scout for the Japanese Hayabusa2 mission that landed on (162173) Ryugu in 2018.

(331316) Cavedon = 2011 GP₃₆

Discovery: 2006-04-20 / V. S. Casulli / Vallemare Borbona / A55

Mario Cavedon (1920–2009) was an Italian astronomer and science writer. After graduating in mathematics in 1949, he began to work at the Astronomical Observatory of Brera (Milan). He studied the orbits of small planets and the perturbations of celestial bodies.

(349499) Dechirico = 2008 OX₅

Discovery: 2008-07-29 / V. S. Casulli / Vallemare Borbona / A55

Giorgio de Chirico (1888–1978) was an Italian painter and writer. He founded the “Scuola metafisica” art movement, which profoundly influenced the surrealists.

(349862) Modigliani = 2009 DX₄₃

Discovery: 2009-02-21 / V. S. Casulli / Vallemare Borbona / A55

Amedeo Modigliani (1884–1920) was an Italian painter and sculptor. He was known for portraits and nudes in a modern style, characterized by elongation of faces and necks.

(350032) Josephhunt = 2010 JH₁₅₁

Discovery: 2010-02-17 / WISE / WISE / C51

Joseph Hunt (b. 1956) is an American engineer specializing in spacecraft operations. He has served as the mission manager and flight director for numerous NASA projects, including NEOWISE, the Spitzer Space Telescope, Cassini, Topex Poseidon and others, enabling an enormous breadth of scientific results.

(351976) Borromini = 2006 UP₆₄

Discovery: 2006-10-23 / V. S. Casulli / Vallemare Borbona / A55

Francesco Borromini, byname of Francesco Castelli (1599–1667), was an Italian architect and a leading figure in the emergence of Roman Baroque architecture.

(419435) Tiramisu = 2010 CW₄₃

Discovery: 2010-02-14 / J.-C. Merlin / Nogales / 926

Tiramisu is a dessert whose recipe was invented at an unknown but ancient date in the Friuli-Venezia Giulia region of northern Italy. Mascarpone, eggs, marsala, coffee, cocoa and biscuit are part of its composition. Annick Merlin, wife of the discoverer, suggested this name and is particularly skillful in the preparation of tiramisu.

(435186) Jovellanos = 2007 RJ₃₅

Discovery: 2007-09-07 / J. Lacruz / La Cañada / J87

Gaspar Melchor de Jovellanos (1744–1811) was a Spanish neoclassical statesman, author, philosopher and a major figure of the Age of Enlightenment.

(530721) Isscas = 2011 UH₈₈

Discovery: 2007-09-11 / PMO NEO Survey Program / XuYi / D29

The Institute of Soil Science, Chinese Academy of Sciences (ISSCAS), founded in 1953, is the cradle of soil sciences in China. It is the only national institute fully devoted to scientific research on soil and has made significant contributions to promoting the sustainable development of agriculture and ecological environment.

(541878) Jessicatallulah = 2012 BX₁₃₀

*Discovery: 2012-01-18 / N.Falla * / Mayhill / H06*

Jessica Tallulah Jane Forward (b. 2005) is the granddaughter of the discoverer.

(547666) Morgon = 2010 UK₃₀

Discovery: 2005-03-03 / J.-C. Merlin / Nogales / 926

The French village of Morgon is in the Rhône department (Rhône-Alpes region, France). Morgon is one of the most famous wine appellations of the Beaujolais vineyard.

(551233) Miguelanton = 2013 AN₂₇

Discovery: 2006-08-23 / R. Ferrando, M. Ferrando / Pla D'Arguines / 941

Miguel Anton (1950–2021) was a great friend of the first discoverer. He was a Spanish chemist, mathematician and programmer.

(579513) Saselemér = 2014 SE₃₅₇

*Discovery: 2010-11-01 / K. Sárneczky, Z. Kuli * / Pizskéstető / G96*

Elemér Sas (1930–1998) was a Hungarian physicist, teacher and science communicator. His university lectures with spectacular experiments are remembered to this day. He hosted many popular TV series, and his pleasant voice and interesting experiments attracted many spectators among science lovers.

(594913) 'Ayló'chaxnim = 2020 AV₂

*Discovery: 2020-01-04 / Zwicky Transient Facility * / Palomar / I41*

The name 'Ayló'chaxnim means “Venus Girl” in the language of the Pauma Band of Luiseño Indians whose ancestral lands included Palomar Mountain. It refers to this object being the first discovered with an orbit contained entirely within the orbit of Venus.

Recent Comet Names & 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.

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 (Wierzchos)		<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>
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 (Wierzchos)		<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>
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-O05</i>
C/2021 O1 (Nishimura)	*	<i>MPEC 2021-O47</i>
C/2021 N3 (PANSTARRS)		<i>MPEC 2021-O39</i>
C/2021 N2 (Fuls)		<i>MPEC 2021-N137</i>
C/2021 N1 (ZTF)		<i>MPEC 2021-N115</i>

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C/2021 L4 (PANSTARRS)		MPEC 2021-M77
C/2021 L3 (Borisov)	*	MPEC 2021-M75
C/2021 L2 (Leonard)		MPEC 2021-M74
C/2021 K3 (Catalina)		MPEC 2021-M87
C/2021 K2 (MASTER)		MPEC 2021-L89
C/2021 J3 (ATLAS)		MPEC 2021-L26
C/2021 J2 (PANSTARRS)		MPEC 2021-L24
C/2021 J1 (Maury-Attard)	*	MPEC 2021-L11
P/2021 HS (PANSTARRS)		MPEC 2021-S44
C/2021 G3 (PANSTARRS)		MPEC 2021-M86
C/2021 G2 (ATLAS)		MPEC 2021-T206
C/2014 UN ₂₇₁ (Bernardinelli-Bernstein)		MPEC 2021-M83

Recent Numberings

436P/2007 R4 = 2021 U2 (Garradd)		MPC 135244
435P/2021 T3 = 2015 K6 (PANSTARRS)		MPC 135244
434P/2012 TK8 = 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
414P/2016 J3 = P/2021 A3 (STEREO)		MPC 127300
413P/2014 E1 = P/2020 W4 (Larson)		MPC 127300
412P/2010 B2 = P/2020 Y1 (WISE)		MPC 127300
411P/2007 B1 = P/2020 W3 (Christensen)		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 22889 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.

