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

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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.

(9173) Viola Castello = 1989 TZ₁₅

Discovery: 1989-10-04 / H. Debehogne / La Silla / 809

Viola Castello, Piemonte (Italy), is a small village (50 inhabitants) surrounded by a large forest of chestnuts, some of which are many centuries old. The people of the village maintain and preserve the forest in perfect harmony with Nature. Name suggested by V. Zappalá.

(10045) Dorarussell = 1985 RJ₃

Discovery: 1985-09-06 / H. Debehogne / La Silla / 809

Dora Russell (1913–1986) spearheaded the founding of the Royal Astronomical Society of Canada's St. John's Centre in Newfoundland in 1965, then served a total of four years as Centre President. In 1977, Russell received the RASC Service Award and also a Queen's Silver Jubilee Medal. She wrote a weekly astronomy column in the St. John's *Evening Telegram*.

(10047) Davidchapman = 1986 QK₂

Discovery: 1986-08-28 / H. Debehogne / La Silla / 809

David Chapman (b. 1953) is a retired physicist who studied ocean acoustics at Canada's Defence Research Establishment Atlantic. He won the Royal Astronomical Society of Canada's Simon Newcomb Award in 1986 and an RASC Service award in 2015. He was editor of the *Observer's Handbook* (2012–2017) and led the establishment of Kejimikujik Dark Sky Preserve.

(10059) McCullough = 1988 FS₂

Discovery: 1988-03-21 / Bulgarian National Observatory / Smolyan / 071

Brian McCullough (b. 1953) has served the Royal Astronomical Society of Canada, Ottawa Centre, as Vice President, President, and National Council Representative. He has been active in astronomy education and public outreach with the Canada Science and Technology Museum in Ottawa. Brian is also an accomplished astronomy sketch artist.

(22480) Maedatoshihisa = 1997 GU₃

Discovery: 1997-04-03 / K. Endate, K. Watanabe / Kitami / 400

Toshihisa Maeda (b. 1963) is a high school teacher and the president of the Kagoshimaken Tenmon Kyoukai (meaning “Kagoshima Astronomical Society”). He is interested in radio observations of variable stars.

(23465) Yamashitakouhei = 1989 UA₁

Discovery: 1989-10-24 / M. Yanai, K. Watanabe / Kitami / 400

Kouhei Yamashita (b. 1953) was the project manager of the small satellite STARS-II at Kagawa University and contributed to its successful launch. He also photographs nebulae and star clusters with his astrograph.

(28364) Bruceelmegreen = 1999 GN₇

Discovery: 1999-04-07 / LONEOS / Anderson Mesa / 699

Bruce G. Elmegreen (b. 1950) is an astronomer who has had a long career at IBM Research. He has made major contributions to the theory of galactic structure and evolution, the interstellar medium, turbulence, and star formation. He has simultaneously conducted research on materials and devices for IBM.

(37836) Simoneterreni = 1998 BD₄₄

Discovery: 1998-01-25 / U. Munari, M. Tombelli / Cima Ekar / 098

Simone Terreni (b. 1972) earned a degree in computer engineering and is an entrepreneur in the digital telecommunications field. He is an active member of Gruppo Astrofili Montelupo.

(37941) Dawidowicz = 1998 HS₆

Discovery: 1998-04-22 / ODAS / Caussols / 910

Gilles Dawidowicz (b. 1971) is a French geographer who helped in the development of the French Astronomical Society (SAF). He has been president of Triel observatory and vice-president of SAF. He is also the co-author of many books on planetology and he animates space events.

(49291) Thechills = 1998 VJ

Discovery: 1998-11-08 / I. P. Griffin / Cocoa / 758

The Chills are a New Zealand rock band formed in Dunedin in 1980. Fronted by singer/songwriter Martin Phillips, their music is a key element of “the Dunedin Sound”. Their EP release *Rocket Science* featured photographs taken by the discoverer of this asteroid.

(210345) Barbon = 2007 UQ

Discovery: 2007-10-16 / V. S. Casulli / Vallemare Borbona / A55

Roberto Barbon (b. 1938) is an Italian astronomer who studies supernovae and open clusters. He is a member of IAU Division VIII, Commission 28 (Galaxies).

(213775) Zdeněkdstál = 2003 DK₁₇

*Discovery: 2003-02-28 / KLENOT * / Klet / 246*

Zdeněk Dostál (b. 1946) is professor of applied mathematics at VSB-Technical University of Ostrava. He took part in the management of the National Supercomputing Centre. His main results are development of optimal algorithms for quadratic programming problems and scalable domain decomposition.

(227152) Zupi = 2005 PJ₂₀

Discovery: 2005-08-05 / V. S. Casulli / Vallemare Borbona / A55

Giovanni Battista Zupi or Zupus (c.1590–1650) was an Italian astronomer, mathematician, and Jesuit priest. In 1639, he was the first person to discover that the planet Mercury showed orbital phases, like those of the Moon and Venus.

(248321) Cester = 2005 PL₂₀

Discovery: 2005-08-14 / V. S. Casulli / Vallemare Borbona / A55

Bruno Cester (1920–2017) was an Italian physicist and astronomer, who studied double and variable stars at the Trieste Astronomical Observatory. He published numerous university texts.

(274264) Piccolomini = 2008 PZ₆

Discovery: 2008-08-05 / V. S. Casulli / Vallemare Borbona / A55

Alessandro Piccolomini (1508–1578) was an Italian scholar and astronomer. He was the first, many years before Johann Bayer, to label stars with letters (Latin alphabet). Piccolomini's *De le stelle fisse* (1540) is considered by many to be the first modern celestial atlas.

(288615) Tempesti = 2004 ND₉

Discovery: 2004-07-11 / V. S. Casulli / Vallemare Borbona / A55

Piero Tempesti (1917–2011) was an Italian astronomer. He was particularly interested in variable stars, novae, asteroids and comets. He was a member of the International Astronomical Union and participated in the work of Division V and Commission 27 (Variable Stars).

(301153) Jinan = 2008 YO₉

Discovery: 2008-12-25 / Shandong University / Weihai / D39

Jinan, also known as Spring City, is the capital of Shandong province, China, where the main campus of Shandong University is located. Qilu University, which later merged into Shandong University, was founded in Jinan, and was the first modern university to carry out astronomical higher education and research in China.

(321197) Qingdao = 2008 YK₈

Discovery: 2008-12-23 / Shandong University / Weihai / D39

Qingdao is an important tourist and international harbor city in Shandong Peninsula, China. Shandong University of Science and Technology's main campus is in Qingdao. The dome room of Qingdao Observatory was the first to be built in China.

(330712) Rhodocolossus = 2008 PR₁

Discovery: 2008-08-03 / V. S. Casulli / Vallemare Borbona / A55

The Colossus of Rhodes in Greece was built in the 3rd century BCE. It was a huge statue of the god Helios. It was one of the so-called seven wonders of the world. Located near the port of Rhodes, it served as a lighthouse.

(352214) Szczecin = 2007 TY₄

Discovery: 2007-10-02 / Astronomical Research Observatory / Charleston / H55

Szczecin is a town in north-west Poland by the river Odra. The town has a rich and interesting history, and was the birth place of astrophysicist Aleksander Wolszczan. Name suggested by T. Skowron and students from the XIII High School in Szczecin.

(382900) Rendelmann = 2004 RH₈

Discovery: 2004-09-06 / W. Ries / Altschwendt / A44

Holger Rendelmann (b. 1955) is an experienced German amateur astronomer. He promoted CCD observations in Germany by writing an article about the *Cookbook CCD Camera* by Richard Berry for a popular German astronomy magazine. In addition to astrophotography, he undertakes spectroscopy and variable star observation.

(445308) Volov = 2010 ET₂₀

Discovery: 2010-03-07 / F. Fratev / Plana / A79

Panayot Volov (c. 1850–1876) was a Bulgarian revolutionary who organized uprisings against the Ottoman Empire. Following a failed uprising in 1875, he was an organizer of the Gyurgevo Revolutionary Committee that initiated the Bulgarian April Uprising in 1876. Also unsuccessful, it did lead to re-establishment of Bulgaria as a separate country in 1878.

(542461) Slovinský = 2013 CA₁₉₆

*Discovery: 2010-10-03 / S. Kúrti, K. Sárnecky * / Piskésető / 461*

Tomáš Slovinský (b. 1994) is a Slovakian astrophotographer and an avid popularizer of astronomy. He transmits his passion to others on several fronts: travelling around Slovakia with a portable planetarium, writing articles for magazines and through beautiful photos of the starry sky.

(563318) ten Kate = 2016 CD₁₄₄

*Discovery: 2014-10-27 / M. Langbroek, K. Sárnecky * / Piskésető / 461*

Inge Loes ten Kate (b. 1976) is a Dutch astrobiologist at Utrecht University. She is a specialist on Martian environments and was involved in developing instruments for the Curiosity Mars rover.

(576853) Rafalreszelewski = 2012 VS₆₁

*Discovery: 2012-10-16 / M. Kusiak, M. Żołnowski * / Tincana / D03*

Rafal Reszelewski (b. 1996) is a Polish asteroid and comet hunter, a co-discoverer of C/2015 F2 (Polonia). He is a discoverer of many sun-grazing comets, as well as a number of minor planets on images taken by the OGS-TOTAS project.

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.

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 (Wierchos)		<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-P05</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>
C/2021 L4 (PANSTARRS)		<i>MPEC 2021-M77</i>
C/2021 L3 (Borisov)	*	<i>MPEC 2021-M75</i>
C/2021 L2 (Leonard)		<i>MPEC 2021-M74</i>
C/2021 K3 (Catalina)		<i>MPEC 2021-M87</i>

C/2021 K2 (MASTER)		MPEC 2021-L89
C/2021 K1 (ATLAS)		MPEC 2021-K89
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 G1 (Leonard)		MPEC 2021-J72
C/2020 PV ₆ (PANSTARRS)		MPEC 2021-K93
C/2014 UN ₂₇₁ (Bernardinelli-Bernstein)		MPEC 2021-M83

Recent Numberings

423P = (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
410P/2005 CR ₁₆ = P/2003 WR ¹⁶⁸ = P/2020 W2 (NEAT-LINEAR)		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 22849 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.

