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Cover image: Color image of (486958) Arrokoth, obtained by the New Horizons spacecraft. Courtesy NASA/Johns Hopkins University Applied Physics Laboratory/Southwest Research Institute/Roman Tkachenko.

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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 page or the bottom of the (second) column (in the *MPCs*).

Reference	Line(s)	
<i>Bull. 3, #5, 9</i>	19 to 20	<i>For Erik (b. 2006) and Laura (b. 2008) read Erik (b. 1996) and Laura (b. 1998) [(14291) citation]</i>
<i>Bull. 3, #6, 11</i>	– 2	<i>For cradel read cradle [(232233) citation]</i>
<i>Bull. 3, #6, 13</i>	– 4	<i>For (b. 1964) read (1964–2016) [(618348) citation]</i>

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.

(15494) Lucylake = 1999 CX₁₂₃

Discovery: 1999-02-11 / LINEAR / Socorro / 704

Lucy Annabelle Lake (b. 2000) was awarded second place in the 2019 Intel International Science and Engineering Fair for her engineering mechanics project. She attended the Barker College, Sydney, New South Wales, Australia.

(15503) Estradioto = 1999 RD₂₅

Discovery: 1999-09-07 / LINEAR / Socorro / 704

Juliana Davoglio Estradioto (b. 2000) was awarded first place in the 2019 Intel International Science and Engineering Fair for her materials science project. She attended the IFRS Ciencia e Tecnologia, Osorio, Rio Grande do Sul, Brazil.

(15509) Annejing = 1999 TX₁₁₃

Discovery: 1999-10-04 / LINEAR / Socorro / 704

Anne Jing (b. 2001) was awarded first place in the 2019 Intel International Science and Engineering Fair for her biomedical engineering project. She attended the Assumption College School, Brantford, Canada.

(15516) Langleben = 1999 VN₈₆

Discovery: 1999-11-05 / LINEAR / Socorro / 704

Ian Langleben (b. 2000) was awarded second place in the 2019 Intel International Science and Engineering Fair for his systems software team project. He attended the Dawson College, Westmount, Quebec, Canada.

(15528) Martinsmedina = 2000 AJ₁₀

Discovery: 2000-01-03 / LINEAR / Socorro / 704

Liana Martins-Medina (b. 2000) was awarded second place in the 2019 Intel International Science and Engineering Fair for her systems software team project. She attended the Marianopolis College, Westmount, Quebec, Canada.

(15531) Matusch = 2000 AV₉₉

Discovery: 2000-01-05 / LINEAR / Socorro / 704

Brendon Franz Matusch (b. 2003) was awarded second place in the 2019 Intel International Science and Engineering Fair for his physics and astronomy project. He attended the Lo-Ellen Park Secondary School, Sudbury, Ontario, Canada.

(15533) Saturnino = 2000 AP₁₃₈

Discovery: 2000-01-05 / LINEAR / Socorro / 704

Joseph Carmelo Saturnino (b. 2003) was awarded second place in the 2019 Intel International Science and Engineering Fair for his robotics and intelligent machines project. He attended the Bishop Ryan Catholic Secondary School, Hannon, Ontario, Canada.

(15546) Sunyufeng = 2000 EZ₇₅

Discovery: 2000-03-05 / LINEAR / Socorro / 704

Sun Yufeng (b. 2002) was awarded second place in the 2019 Intel International Science and Engineering Fair for his systems software project. He attended the Experimental High School Attached to Beijing Normal University, Beijing, China.

(15547) Xu Jiping = 2000 ET₉₁

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

Xu Jiping Bradley (b. 2002) was awarded second place in the 2019 Intel International Science and Engineering Fair for his robotics and intelligent machines project. He attended the Shanghai American School - Pudong Campus, Shanghai, China.

(15554) Chenhuaipu = 2000 FH₄₆

Discovery: 2000-03-29 / LINEAR / Socorro / 704

Chen Huai-Pu (b. 2002) was awarded second place in the 2019 Intel International Science and Engineering Fair for his engineering mechanics project. He attended the Keelung Municipal Anle Senior High School, Keelung City, Chinese Taipei.

(15555) Luochihi = 2000 FD₄₉

Discovery: 2000-03-30 / LINEAR / Socorro / 704

Luo Chih-I (b. 2001) was awarded second place in the 2019 Intel International Science and Engineering Fair for his energy project. He attended the Taipei Fuhsing Private School, Taipei, Chinese Taipei.

(15556) Hanafy = 2000 FW₄₉

Discovery: 2000-03-30 / LINEAR / Socorro / 704

Abdel Rahman Mohamed Hanafy (b. 2001) was awarded second place in the 2019 Intel International Science and Engineering Fair for his environmental engineering team project. He attended the STEM School of Alexandria, Alexandria, Egypt.

(15564) Lateef = 2000 GU₄₈

Discovery: 2000-04-05 / LINEAR / Socorro / 704

Salma Fawzy Lateef (b. 2000) was awarded second place in the 2019 Intel International Science and Engineering Fair for her environmental engineering team project. She attended the STEM School of Alexandria, Alexandria, Egypt.

(15584) Yumaokamoto = 2000 GO₇₄

Discovery: 2000-04-05 / LINEAR / Socorro / 704

Yuma Okamoto (b. 2001) was awarded second place in the 2019 Intel International Science and Engineering Fair for his animal sciences team project. He attended the Shizuoka Prefectural Kakegawa-Nishi High School, Kakegawa City, Shizuoka Prefecture, Japan.

(15587) Sotsukamoto = 2000 GK₇₆

Discovery: 2000-04-05 / LINEAR / Socorro / 704

So Tsukamoto (b. 2002) was awarded second place in the 2019 Intel International Science and Engineering Fair for his animal sciences team project. He attended the Shizuoka Prefectural Kakegawa-Nishi High School, Kakegawa city, Shizuoka Prefecture, Japan.

(15595) Melwincheng = 2000 GX₉₅

Discovery: 2000-04-06 / LINEAR / Socorro / 704

Melwin Choon Lei Cheng (b. 2003) was awarded first place in the 2019 Intel International Science and Engineering Fair for his chemistry team project. He attended the Chung Ling High School Penang, Georgetown, Malaysia.

(15596) Yongshiangtham = 2000 GZ₉₅

Discovery: 2000-04-06 / LINEAR / Socorro / 704

Yong Shiang Tham (b. 2003) was awarded first place in the 2019 Intel International Science and Engineering Fair for his chemistry team project. He attended the Chung Ling High School Penang, Georgetown, Malaysia.

(15597) Piotrlazarek = 2000 GM₉₆

Discovery: 2000-04-06 / LINEAR / Socorro / 704

Piotr Lazarek (b. 2001) was awarded first place in the 2019 Intel International Science and Engineering Fair for his environmental engineering project. He attended the Zespol Szkol Filomata, Gliwice, Slask, Poland.

(15603) Kimyoonji = 2000 GG₁₀₈

Discovery: 2000-04-07 / LINEAR / Socorro / 704

Kim Yoonji (b. 2001) was awarded second place in the 2019 Intel International Science and Engineering Fair for her plant sciences team project. She attended the Kangwon Science High School, Wonju, South Korea.

(15611) Leejoonyoung = 2000 GD₁₂₇

Discovery: 2000-04-07 / LINEAR / Socorro / 704

Lee Joonyoung (b. 2001) was awarded best of category and first place in the 2019 Intel International Science and Engineering Fair for his energy team project. He attended the Korea Science Academy of KAIST, Busan, South Korea.

(15612) Parkmincheol = 2000 GV₁₃₃

Discovery: 2000-04-07 / LINEAR / Socorro / 704

Park Mincheol (b. 2001) was awarded best of category and first place in the 2019 Intel International Science and Engineering Fair for his energy team project. He attended the Korea Science Academy of KAIST, Busan, South Korea.

(16275) Charlesma = 2000 JP₅₈

Discovery: 2000-05-06 / LINEAR / Socorro / 704

Charles Ma (b. 2002) was awarded second place in the 2019 Intel International Science and Engineering Fair for his biomedical engineering team project. He attended the Montgomery High School, Skillman, New Jersey, U.S.A.

(16939) Rishabhmisra = 1998 FP₁₂₁

Discovery: 1998-03-20 / LINEAR / Socorro / 704

Rishabh Misra (b. 2001) was awarded second place in the 2019 Intel International Science and Engineering Fair for his embedded systems team project. He attended the Thomas Jefferson High School for Science and Technology, Alexandria, Virginia, U.S.A.

(16961) Mullahy = 1998 QV₇₃

Discovery: 1998-08-24 / LINEAR / Socorro / 704

Matthew Mullahy (b. 2001) was awarded second place in the 2019 Intel International Science and Engineering Fair for his behavioral and social sciences project. He attended the Smithtown High School East, St. James, New York, U.S.A.

(17001) Braydennoh = 1999 CT₅₄

Discovery: 1999-02-10 / LINEAR / Socorro / 704

Brayden Noh (b. 2001) was awarded second place in the 2019 Intel International Science and Engineering Fair for his energy project. He attended the Auburn High School, Auburn, Alabama, U.S.A.

(17014) Melaniequan = 1999 CY₉₆

Discovery: 1999-02-10 / LINEAR / Socorro / 704

Melanie Elise Quan (b. 2002) was awarded second place in the 2019 Intel International Science and Engineering Fair for her earth and environmental sciences project. She attended the Las Lomas High School, Walnut Creek, California, U.S.A.

(17047) Tateschrock = 1999 FP₃₃

Discovery: 1999-03-19 / LINEAR / Socorro / 704

Tate Schrock (b. 2004) was awarded second place in the 2019 Intel International Science and Engineering Fair for his engineering mechanics project. He attended the Arickaree School, Anton, Colorado, U.S.A.

(17048) Nicolesegaran = 1999 FD₃₄

Discovery: 1999-03-19 / LINEAR / Socorro / 704

Nicole Lakshmi Segaran (b. 2001) was awarded second place in the 2019 Intel International Science and Engineering Fair for her biomedical and health sciences team project. She attended the Carmel High School, Carmel, Indiana, U.S.A.

(17053) Ashayshah = 1999 FX₅₆

Discovery: 1999-03-20 / LINEAR / Socorro / 704

Ashay Shah (b. 2001) was awarded second place in the 2019 Intel International Science and Engineering Fair for his energy team project. He attended the Plano East Senior High School, Plano, Texas, U.S.A.

(17064) Ashnashah = 1999 GX₁₆

Discovery: 1999-04-15 / LINEAR / Socorro / 704

Ashna Shah (b. 2001) was awarded second place in the 2019 Intel International Science and Engineering Fair for her energy team project. She attended the Plano East Senior High School, Plano, Texas, U.S.A.

(17065) Shrilashah = 1999 GK₁₇

Discovery: 1999-04-15 / LINEAR / Socorro / 704

Shrila Tushar Shah (b. 2001) was awarded second place in the 2019 Intel International Science and Engineering Fair for her biomedical and health sciences project. She attended the Yorktown High School, Yorktown Heights, New York, U.S.A.

(17070) Yannik Singh = 1999 GG₂₀

Discovery: 1999-04-15 / LINEAR / Socorro / 704

Yannik Singh (b. 2001) was awarded second place in the 2019 Intel International Science and Engineering Fair for his biomedical and health sciences team project. He attended the Carmel High School, Carmel, Indiana, U.S.A.

(17071) Spiride = 1999 GK₂₁

Discovery: 1999-04-15 / LINEAR / Socorro / 704

Andrei Spiride (b. 2001) was awarded second place in the 2019 Intel International Science and Engineering Fair for his biomedical engineering project. He attended the Plano East Senior High School, Plano, Texas, U.S.A.

(17084) Sundararajan = 1999 JV₁₄

Discovery: 1999-05-10 / LINEAR / Socorro / 704

Suvin Sundararajan (b. 2003) was awarded second place in the 2019 Intel International Science and Engineering Fair for his chemistry project. He attended the Westfield High School, Westfield, Massachusetts, U.S.A.

(17099) Emilytianshi = 1999 JE₃₇

Discovery: 1999-05-10 / LINEAR / Socorro / 704

Emily Lindsay Tianshi (b. 2003) was awarded second place in the 2019 Intel International Science and Engineering Fair for her earth and environmental sciences project. She attended the Cambridge School, San Diego, California, U.S.A.

(17106) Tidball = 1999 JT₄₈

Discovery: 1999-05-10 / LINEAR / Socorro / 704

Nathan Tidball (b. 2001) was awarded second place in the 2019 Intel International Science and Engineering Fair for his materials science project. He attended the Wilsonville High School, Wilsonville, Oregon, U.S.A.

(17124) Rishavalera = 1999 JC₆₅

Discovery: 1999-05-12 / LINEAR / Socorro / 704

Risha Dianne Valera (b. 2001) was awarded second place in the 2019 Intel International Science and Engineering Fair for her environmental engineering project. She attended the Plano West Senior High School, Plano, Texas, U.S.A.

(17125) Vijayakumar = 1999 JB₆₈

Discovery: 1999-05-12 / LINEAR / Socorro / 704

Vivek Vijayakumar (b. 2003) was awarded second place in the 2019 Intel International Science and Engineering Fair for his physics and astronomy project. He attended the San Marcos High School, San Marcos, California, U.S.A.

(17126) Sophiawang = 1999 JH₆₈

Discovery: 1999-05-12 / LINEAR / Socorro / 704

Sophia Joy Wang (b. 2002) was awarded first place in the 2019 Intel International Science and Engineering Fair for her earth and environmental sciences project. She attended the Amity Regional High School, Woodbridge, Connecticut, U.S.A.

(17127) Ryanwestcott = 1999 JE₆₉

Discovery: 1999-05-12 / LINEAR / Socorro / 704

Ryan Steven Westcott (b. 2001) was awarded first place in the 2019 Intel International Science and Engineering Fair for his engineering mechanics project. He attended the Oregon Episcopal School, Portland, Oregon, U.S.A.

(17128) Stephyoshida = 1999 JS₇₅

Discovery: 1999-05-10 / LINEAR / Socorro / 704

Stephanie Naphat Yoshida (b. 2003) was awarded second place in the 2019 Intel International Science and Engineering Fair for her physics and astronomy project. She attended the Punahou School, Honolulu, Hawaii, U.S.A.

(17130) Alexzhang = 1999 JV₇₉

Discovery: 1999-05-13 / LINEAR / Socorro / 704

Alex Luotian Zhang (b. 2001) was awarded second place in the 2019 Intel International Science and Engineering Fair for his biomedical engineering team project. He attended the Montgomery High School, Skillman, New Jersey, U.S.A.

(21120) Naritaatsushi = 1992 WP

Discovery: 1992-11-16 / K. Endate, K. Watanabe / Kitami / 400

Atsushi Narita (b. 1951) is a Japanese amateur astronomer who observes meteors. He founded the astronomical club Seiyukai. In 1972 he began two-point meteor photography observations. Since 1974, he has taken many simultaneous photographs of meteors to determine their orbits and the radiant points of meteor showers.

(22963) Fuls = 1999 UN₂₄

Discovery: 1999-10-28 / CSS / Catalina / 703

David Carson Fuls (b. 1986) is an American astronomer and engineer with the Catalina Sky Survey. His expertise and development of telescope hardware and software systems, and his contributions to asteroid observing, science and public outreach have been extraordinary. Fuls has discovered numerous near-Earth asteroids and many comets.

(23662) Jozankei = 1997 ES₁₇

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

Jozankei is a hot spring located in a valley south of Sapporo (Hokkaido, Japan). An annual star party is held there.

(39892) Evaseidlová = 1998 FQ₅

Discovery: 1998-03-23 / A. Galád, A. Pravda / Modra / 118

Eva Seidlová (b. 1948) is a Slovak marathon runner. She has already completed more than 500 marathons, even though she only started running at 35 and ran her first marathon two years later.

(43803) Wakakinosakura = 1991 RH₂

Discovery: 1991-09-07 / T. Seki / Geisei / 372

Wakakinosakura is a kind of wild cherry tree discovered in 1889 by Japanese botanist Tomitaro Makino at Ogawa Castle in his hometown of Sakawa, Kochi prefecture. In 2008 seeds of the tree were carried to the Japanese module Kibo on the ISS and the cherry trees grown from the returned seeds are affectionately called Uchu-Zakura (“space cherry blossoms”).

(48773) Davidrowe = 1997 PS

Discovery: 1997-08-03 / ODAS / Caussols / 910

David Rowe (b. 1954) is an American electronics, optical and mechanical engineer. He is the inventor of the CDK telescope, the wide-field RASA astrograph and the DeltaRho wide-field Cassegrain optical systems

(48838) Markackermann = 1998 AF₁₀

Discovery: 1998-01-15 / ODAS / Caussols / 910

Mark Ackermann (b. 1959) is an American optical designer and co-inventor of the Celestron wide field Rowe Ackermann Schmidt Astrograph (RASA) which has allowed many amateur and professional astronomers to discover asteroids, comets and track satellites.

(53137) Gabytutty = 1999 BL₄

Discovery: 1999-01-19 / ODAS / Caussols / 910

Gabriela Paz Protz Miqueles (b. 1988) is a Chilean landscape architect and muralist who has been inspired by many astronomical scenes and signs her paintings as Gabytutty.

(58714) Boya = 1998 DS₂

Discovery: 1998-02-16 / Beijing Schmidt CCD Asteroid Program / Xinglong / 327

Bo Ya, in Chinese, signifies brilliance and magnanimity, and exemplifies the intellectual traditions and spirit of Peking University throughout its 125 years of history. Peking University and its Beijing Forum promote understanding and dialogue among different civilizations, advocating mutual appreciation of differences while seeking harmony in diversity.

(91869) Ellenjozoff = 1999 UU₃₈

Discovery: 1999-10-29 / LONEOS / Anderson Mesa / 699

Ellen “Jane” Jozoff (b. 1939) is a community leader who is a board member on a number of nonprofit organizations in Arizona, USA. She is a dark sky advocate who appreciates star gazing in Northern Arizona. Jane often welcomes friends to Lowell Observatory for telescope viewing.

(91870) Malcolmjozoff = 1999 UA₃₉

Discovery: 1999-10-29 / LONEOS / Anderson Mesa / 699

Malcolm Jozoff (b. 1942) is a retired American corporate marketing executive. Mal volunteers for nonprofit organizations, including Lowell Observatory. He is a dark-sky advocate who shares his appreciation for the dark skies of Northern Arizona by inviting friends for telescope viewing at Lowell.

(192391) Yunda = 1996 TQ₂

Discovery: 1996-10-03 / Beijing Schmidt CCD Asteroid Program / Xinglong / 327

Founded in 1922, Yunnan University, known by the abbreviation Yunda, is a key university listed on China's "211 Project" and "Double First-class Initiative", which have been launched by the Chinese government to support selected universities. Yunnan University established its Department of Astronomy and its Institute For Astronomy Research.

(333003) Espiritu = 2011 HP₅₈

Discovery: 2008-10-27 / Mt. Lemmon Survey / Mount Lemmon / G96

Raymond Espiritu (b. 1971) is an American software developer of the Altimetry Working Group data product pipeline for the OSIRIS-REx asteroid sample return mission. Prior to this he supported the MESSENGER program and the Lunar Reconnaissance Orbiter Mini-RF and DIVINER instruments.

(333054) Bloomquist = 2011 SK₂₀₀

Discovery: 2006-05-06 / Mt. Lemmon Survey / Mount Lemmon / G96

Leif Bloomquist (b. 1973) is a Canadian engineer who worked on the OSIRIS-REx mission as part of the OSIRIS-REx Laser Altimeter (OLA) Instrument Engineer team. He also worked on the Meteorological Station (MET) instrument for the Phoenix Mars Lander and the Special Purpose Dexterous Manipulator (SPDM) on the International Space Station.

(333055) Liang = 2011 SC₂₂₃

Discovery: 2007-09-15 / Mt. Lemmon Survey / Mount Lemmon / G96

Jason Liang (b. 1988) is a Canadian engineer who worked on the OSIRIS-REx mission as an Instrument Engineer for the science instrument OSIRIS-REx Laser Altimeter (OLA). He is a space systems thermal and mechanical engineer, and OSIRIS-REx was his first interplanetary exploration mission.

(333057) Bowles = 2011 SO₂₃₄

Discovery: 2007-09-12 / Mt. Lemmon Survey / Mount Lemmon / G96

Neil Bowles (b. 1970) is a British meteoriticist and a Planetary Scientist at the University of Oxford. He is a member of the OSIRIS-REx Asteroid Sample Return Mission science team. He has also worked on space missions to explore the Moon, Mars and Saturn.

(333059) Audi = 2011 SG₂₆₁

Discovery: 2006-02-25 / Mt. Lemmon Survey / Mount Lemmon / G96

Edward Audi (b. 1973) is an American engineer. He is Science Operations Engineer for the OSIRIS-REx Asteroid Sample Return Mission. He was also an Operations Engineer for the Visible and Infrared Mapping Spectrometer (VIMS) instrument which was onboard the Cassini spacecraft to Saturn.

(333097) Andrewgardner = 2011 UT₂₄₈

Discovery: 2005-03-08 / Mt. Lemmon Survey / Mount Lemmon / G96

Andrew Gardner (b. 1979), is an American computer programmer. He was a Principal Systems Programmer for the OSIRIS-REx Asteroid Sample Return Mission.

(333101) Lovelace = 2011 UE₂₉₈

Discovery: 2007-09-14 / Mt. Lemmon Survey / Mount Lemmon / G96

Brian Lovelace (b. 1993), is an American software engineer. He helped build the data processing system for the OSIRIS-REx Asteroid Sample Return Mission.

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 (in reverse chronological order)

P/2014 OL ₄₆₅ (PANSTARRS)		<i>MPEC 2023-K66</i>
C/2023 F2 (SOHO)		<i>MPEC 2023-K45</i>
C/1808 R1 (Pons)		2023-05-16
C/2023 H1 (PANSTARRS)		<i>MPEC 2023-J101</i>
C/1951 G2 = C/1952 C1 (Groeneveld-Palomar)		<i>MPEC 2023-J76</i>
P/2018 HT ₃ (NEOWISE)		<i>MPEC 2023-J12</i>
P/2022 BV ₉ (Lemmon)		<i>MPEC 2023-H240</i>
C/2020 H11 (PANSTARRS-Lemmon)		<i>MPEC 2023-H237</i>
P/2010 OE ₁₀₁ = P/2021 LJ ₃₁ (WISE)		<i>MPEC 2023-H227</i>
C/2023 F1 (PANSTARRS)		<i>MPEC 2023-H184</i>
C/2022 JK ₅ (PANSTARRS)		<i>MPEC 2023-H180</i>
459P/2010 VH ₉₅ (Catalina)		<i>MPEC 2023-F167</i>
C/1971 M1 (Edwards)		<i>MPEC 2023-F148</i>
C/2023 C2 (ATLAS)		<i>MPEC 2013-F141</i>
458P/2023 C1 = P/2016 C3 (Jahn)	*	<i>MPEC 2023-F121</i>
C/1951 G1 (Groeneveld)		<i>MPEC 2023-F18</i>
C/2023 E1 (ATLAS)		<i>MPEC 2023-E59</i>
C/2023 A3 (Tsuchinshan-ATLAS)		<i>MPEC 2023-D77</i>
C/2018 S3 (TESS)		<i>MPEC 2023-D54</i>
C/2023 A2 (SWAN)		<i>MPEC 2023-D49</i>
P/2023 B3 (PANSTARRS)		<i>MPEC 2023-D10</i>
P/2021 PE ₂₀ (ATLAS)		<i>MPEC 2023-C66</i>
C/2022 T1 (Lemmon)		<i>MPEC 2023-C52</i>
C/2023 B2 (ATLAS)		<i>MPEC 2023-C44</i>
C/2022 Y2 (Lemmon)		<i>MPEC 2023-B225</i>
P/2023 B1 (PANSTARRS)		<i>MPEC 2023-B118</i>

C/2023 A1 (Leonard)	<i>MPEC 2023-B66</i>
C/2022 Y1 (Hogan)	<i>MPEC 2023-A37</i>
C/2022 W3 (Leonard)	<i>MPEC 2023-A29</i>
C/2022 W2 (ATLAS)	<i>MPEC 2023-A28</i>
454P/2022 U5 = P/2013 W3 (PANSTARRS)	<i>MPEC 2022-W234</i>
P/2022 W1 (Rankin)	<i>MPEC 2022-W159</i>
C/2022 U4 (Bok)	<i>MPEC 2022-W158</i>
453P/2022 V1 = P/2010 BN ₁₀₉ (WISE-Lemmon)	<i>MPEC 2022-W148</i>
P/2020 MK ₄ (PANSTARRS)	<i>MPEC 2022-W78</i>
C/2022 U3 (Bok)	<i>MPEC 2022-V83</i>
C/2022 U2 (ATLAS)	<i>MPEC 2023-V66</i>
452P/2003 CC ₂₂ = P/2022 B5 (Sheppard-Jewitt)	<i>MPEC 2022-V36</i>
C/2022 S5 (PANSTARRS)	<i>MPEC 2022-V2</i>
C/2022 R6 (PANSTARRS)	<i>MPEC 2022-V1</i>
C/2022 U1 (Leonard)	<i>MPEC 2023-U343</i>
C/2022 QE ₇₈ (ATLAS)	<i>MPEC 2022-U218</i>
C/2022 S4 (Lemmon)	<i>MPEC 2022-U170</i>
C/2022 S3 (PANSTARRS)	<i>MPEC 2022-T122</i>
P/2022 S1 (PANSTARRS)	<i>MPEC 2022-T89</i>
P/2022 R5 (PANSTARRS)	<i>MPEC 2022-T88</i>
P/2022 R4 (PANSTARRS)	<i>MPEC 2022-T87</i>
C/2022 R3 (Leonard)	<i>MPEC 2022-S250</i>
C/2022 R2 (ATLAS)	<i>MPEC 2022-S87</i>
C/2022 P3 (ZTF)	<i>MPEC 2022-R132</i>
P/2022 R1 (PANSTARRS)	<i>MPEC 2022-R124</i>
C/2022 Q2 (ATLAS)	<i>MPEC 2022-R123</i>
P/2022 M1 (LONEOS-PANSTARRS)	2022-09-03

Recent Numberings

460P/2016 BA ₁₄ = P/2020 U6 (PANSTARRS)	<i>MPC 162027</i>
459P/2010 VH ₉₅ (Catalina)	<i>MPC 162027</i>
458P/2023 C1 = P/2016 C3 (Jahn)	<i>MPC 162027</i>
457P/2020 O1 = P/2016 N7 (Lemmon-PANSTARRS)	<i>MPC 162027</i>
456P/2021 L4 = P/2012 Q3 (PANSTARRS)	<i>MPC 160359</i>
455P/2017 S9 = P/2011 Q5 = P/2022 R7 (PANSTARRS)	<i>MPC 160359</i>
454P/2022 U5 = P/2013 W3 (PANSTARRS)	<i>MPC 160359</i>
453P/2022 V1 = P/2010 BN ₁₀₉ (WISE-Lemmon)	<i>MPC 160359</i>
452P/2003 CC ₂₂ = P/2022 B5 (Sheppard-Jewitt)	<i>MPC 158523</i>
451P/2007 A2 = P/2006 WY ₁₈₂ = P/2022 S2 (Christensen)	<i>MPC 158523</i>
450P/2004 A1 = P/2022 Q3 (LONEOS)	<i>MPC 158523</i>
449P/2020 S6 = P/1987 A2 = P/2013 Y3 (Leonard)	<i>MPC 158523</i>

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 24061 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
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- Debra M. Elmegreen, *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.

