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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, #4, 13	19	For (Lemmon) read (Lemmon-ATLAS) [Name of comet C/2022 A3]

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.

(6073) Tähtiseuraursa = 1939 UB

Discovery: 1939-10-18 / Y. Vaisala / Turku / 062

Tähtiseuraursa is Finnish for Astro Society Ursa. Ursa is a non-profit society of amateur astronomers, founded by Yrjö Väisälä in 1921. Ursa has grown to be one of the largest astronomical societies in Europe, with over 19 000 members in 2021.

(8453) Flaviataldini = 1981 EQ

Discovery: 1981-03-01 / H. Debehogne, G. De Sanctis / La Silla / 809

Flavia Taldini (b. 2020) is the grand-daughter of Mario Di Martino, astronomer at the Turin Astrophysical Observatory and colleague and friend of the discoverers.

(9636) Emanuelaspessot = 1993 YO

Discovery: 1993-12-17 / Farra d'Isonzo / Farra d'Isonzo / 595

Emanuela Spessot (b. 1959) is the wife of Luciano Bittesini and one of the Farra d'Isonzo amateur astronomers who discovered this minor planet. For many years a staff member in the arbitration panel of Circolo Culturale Astronomico di Farra d'Isonzo, she also taught folk dancing and danced with the Danzerini di Lucinico, visiting many countries.

(10112) Skookumjim = 1992 OP₁

Discovery: 1992-07-31 / H. E. Holt / Palomar / 675

Keish (c. 1855–1916), known as Skookum Jim Mason, was a Tagish adventurer and prospector in Canada's Yukon Territory who shared the discovery claim that initiated the Klondike Gold Rush. A trust fund he established helped provide medical care for aboriginals in the Yukon, and his house in Carcross is an interpretative centre today for Yukon culture.

(24726) Nagatatetsuya = 1991 VY

Discovery: 1991-11-02 / A. Takahashi, K. Watanabe / Kitami / 400

Tetsuya Nagata (b. 1957) is a professor at Kyoto University. He has contributed to the understanding of the interstellar medium, particularly in the central region of the Milky Way Galaxy, through various infrared observations including polarimetry.

(24753) Fujikake = 1992 UU₅

Discovery: 1992-10-28 / K. Endate, K. Watanabe / Kitami / 400

Youhei Fujikake (b. 1967) is a technical advisor for the municipal planetariums in Nagoya, Osaka, Himeji, Hiroshima and Fukuoka. He is also an amateur astronomer.

(26499) Robertazabotti = 2000 CX₁

Discovery: 2000-02-04 / A. Boattini, M. Tombelli / San Marcello / 104

Roberta Zabotti (b. 1957) is the cofounder of *Il Cielo* and *Coelum*, two Italian astronomy magazines. Since the 1990s, she has worked in the scientific publishing sector.

(29550) Yaribartolini = 1998 BE₄₄

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

Yari Bartolini (b. 2018), is a grandson of the first discoverer.

(30089) Terikelley = 2000 EW₁₂₈

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

Teri Twarkins Kelley (b. 1975) is a trustee of the Lowell Observatory Foundation. She is past Board Chair and Treasurer for the Arizona Cactus Pine Girl Scout Council and Board Member for McDowell Sonoran Conservancy. She works as a Certified Financial Planner at an international investment firm.

(30093) McClanahan = 2000 ES₁₃₅

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

Marjorie McClanahan (b. 1941) is a trustee of the Lowell Observatory Foundation. She has served on many non-profit boards such as those of the Arizona Community Foundation, Northern Arizona Healthcare, and the Museum of Northern Arizona. Her awards include Flagstaff Citizen of the Year.

(30112) Weistrop = 2000 FZ₂₅

Discovery: 2000-03-27 / LONEOS / Anderson Mesa / 699

Donna Weistrop (b. 1944) is a trustee and chair of the Lowell Observatory Foundation. She is an Adjunct Faculty member at Northern Arizona University (NAU), a Research Associate at the Museum of Northern Arizona, and a member of the Advisory Council of NAU's Martin-Spinger Institute. She even helped build an instrument for the Hubble Space Telescope.

(34328) Jackalbright = 2000 QR₂₀₄

Discovery: 2000-08-31 / LINEAR / Socorro / 704

Jack Dualan Albright (b. 2004) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for his computer science and software engineering project. He attended the Nueva School, Hillsborough, California.

(34329) Sribhimaraju = 2000 QO₂₀₆

Discovery: 2000-08-31 / LINEAR / Socorro / 704

Sriram Venugopal Bhimaraju (b. 2006) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for his computer science and software engineering project. He attended the Harker School, San Jose, California.

(34330) Bissoondial = 2000 QB₂₀₉

Discovery: 2000-08-31 / LINEAR / Socorro / 704

Tyler Logan Bissoondial (b. 2005) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for his plant science project. He attended the Grand Avenue Middle School, Bellmore, New York.

(34331) Annadu = 2000 QH₂₀₉

Discovery: 2000-08-31 / LINEAR / Socorro / 704

Anna Du (b. 2005) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for her plant science project. She attended the Andover School of Montessori, Andover, Massachusetts.

(34332) Alicefeng = 2000 QU₂₀₉

Discovery: 2000-08-31 / LINEAR / Socorro / 704

Alice Feng (b. 2004) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for her materials & bioengineering project. She attended the Harker School, San Jose, California.

(34333) Roycorgross = 2000 QG₂₁₁

Discovery: 2000-08-31 / LINEAR / Socorro / 704

Roy Corrado Gross (b. 2004) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for his electrical and mechanical engineering project. He attended the Terman Middle School, Palo Alto, California.

(34334) Georgiagrace = 2000 QG₂₁₂

Discovery: 2000-08-31 / LINEAR / Socorro / 704

Georgia Grace Hutchinson (b. 2004) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for her energy and sustainability project. She attended the Woodside Elementary School, Woodside, California.

(34335) Ahmadismail = 2000 QR₂₁₄

Discovery: 2000-08-31 / LINEAR / Socorro / 704

Ahmad Ismail (b. 2004) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for his microbiology and biochemistry project. He attended the Granada Islamic School, Santa Clara, California.

(34336) Willjenkins = 2000 QT₂₁₄

Discovery: 2000-08-31 / LINEAR / Socorro / 704

William Vaughn Jenkins (b. 2004) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for his electrical and mechanical engineering project. He attended the Westminster Schools, Atlanta, Georgia.

(34337) Mihirjoshi = 2000 QR₂₁₅

Discovery: 2000-08-31 / LINEAR / Socorro / 704

Mihir Nitin Joshi (b. 2005) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for his physics project. He attended the Leslie Middle School, Salem, Oregon.

(34338) Shreyaskar = 2000 QM₂₁₆

Discovery: 2000-08-31 / LINEAR / Socorro / 704

Shreyas Kar (b. 2004) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for his computer science and software engineering project. He attended the Meyzeek Middle School, Louisville, Kentucky.

(34342) Asmikumar = 2000 QK₂₂₇

Discovery: 2000-08-31 / LINEAR / Socorro / 704

Asmi Kumar (b. 2003) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for her materials & bioengineering project. She attended the Northwestern Middle School, Milton, Georgia.

(34343) Kumaran = 2000 QU₂₂₇

Discovery: 2000-08-31 / LINEAR / Socorro / 704

Janani Sarjana Kumaran (b. 2003) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for his plant science project. He attended the Abraham Lincoln Middle School, Gainesville, Florida.

(34345) Gabriellalui = 2000 RY

Discovery: 2000-09-01 / LINEAR / Socorro / 704

Gabriella Lui (b. 2004) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for her electrical and mechanical engineering project. She attended the Quest Academy, Palatine, Illinois.

(34346) Varunmadan = 2000 RJ₁

Discovery: 2000-09-01 / LINEAR / Socorro / 704

Varun Raj Madan (b. 2004) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for his animal science project. He attended the Lake Highland Preparatory School, Orlando, Florida.

(34354) Johnmadland = 2000 RL₁₈

Discovery: 2000-09-01 / LINEAR / Socorro / 704

John William Madland (b. 2004) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for his physics project. He attended the Leslie Middle School, Salem, Oregon.

(34355) Mefford = 2000 RB₂₀

Discovery: 2000-09-01 / LINEAR / Socorro / 704

Lillian Elise Mefford (b. 2004) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for her environmental and earth sciences project. She attended the Surfside Middle School, Panama City Beach, Florida.

(34356) Gahamuriel = 2000 RR₂₀

Discovery: 2000-09-01 / LINEAR / Socorro / 704

Gabriela Hamaty Muriel (b. 2003) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for her physics project. She attended the Saint Rose of Lima Catholic School, Miami Shores, Florida.

(34357) Amaraorth = 2000 RO₂₁

Discovery: 2000-09-01 / LINEAR / Socorro / 704

Amara Jean Orth (b. 2004) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for her chemistry project. She attended the Lewis Central Middle School, Council Bluffs, Iowa.

(34363) Prawira = 2000 RT₃₀

Discovery: 2000-09-01 / LINEAR / Socorro / 704

Jacqueline Prawira (b. 2004) was a finalist in the 2018 Broadcom MASTERS, a math and science competition for middle school students, for her chemistry project. She attended the Altamont Elementary School, Mountain House, California.

(107561) Quinn = 2001 DW₈₆

Discovery: 2001-02-28 / R. Dyvig / Badlands / 918

Quinn, South Dakota, USA, was established in 1907 and named after Michael Quinn, a pioneering rancher and bullwacker. Badlands Observatory, where this asteroid was discovered, is located within the former Quinn Community Hospital. The city, and the West River Electric Association, installed full-cutoff light fixtures in support of the observatory.

(179411) Draganroša = 2001 YM₁₅₈

Discovery: 2001-12-18 / Sloan Digital Sky Survey / Apache Point / 645

Dragan Roša (b. 1958) is a solar astronomer and the director of the Zagreb Observatory. He has authored a number of textbooks for astronomy and astrophysics, and is a major contributor to the development of astronomy education and popularization in Croatia.

(179901) Romanbrajša = 2002 UA₆₇

Discovery: 2002-10-30 / Sloan Digital Sky Survey / Apache Point / 645

Roman Brajša (b. 1963) is a leading astrophysicist at, and director of, the Hvar Observatory. He is a major contributor to the development of astronomy education and astrophysics in Croatia.

(187669) Obastromca = 2008 CK₅

Discovery: 2008-02-05 / OAM / La Sagra / J75

The Observatorio Astronómico de Mallorca was founded in 1991. More than 100 numbered minor planets have been discovered there, including the Atira-class (367943) Duende.

(191911) Nilerodgers = 2005 GG₄₁

Discovery: 2005-04-05 / Mt. Lemmon Survey / Mount Lemmon / G96

Nile Gregory Rodgers (b. 1952) is an American musician, guitarist, producer, and multiple Grammy Award winner. Since the 1970s his musical artistry has pioneered new stylistic frontiers, including catalyzing the advent of hip-hop. He has produced music for legendary artists including David Bowie, Diana Ross and Madonna.

(235837) Iota = 2004 YP₁

*Discovery: 2004-12-19 / J. Dellinger * / Needville / 735*

The International Occultation Timing Association (IOTA), founded in 1983, promotes and encourages observations of occultations by amateurs and professionals by providing event predictions, data analysis, results publication and distribution, and support for the *Journal for Occultation Astronomy*.

(287374) Vreeland = 2002 VR

Discovery: 2002-11-02 / J. W. Young / Wrightwood / 673

Michael James Vreeland (1838–1876) was a Civil War Union Brevet Brigadier General, seriously wounded in the Battle of Gettysburg, who would later die from his injuries. He was a great-grandfather of the discoverer.

(329025) Annekathrin = 2011 AX₁₈

Discovery: 2001-02-16 / ADAS / Cima Ekar / 209

Named after Annekathrin Ullmann (1971–2002) of the DLR Institute of Planetary Research in Berlin, on the twentieth anniversary of her premature death.

(331341) Frankscholten = 2012 BL₁₀₂

Discovery: 2002-02-19 / ADAS / Cima Ekar / 209

Frank Scholten (b. 1961) was a specialist in planetary photogrammetry active at the DLR Planetary Geodesy Department from 1999 to 2021. Among other space missions, he was involved in Mars-Express, Venus-Express, Dawn, Rosetta and Hayabusa 2.

(335533) Tarasprystavski = 2006 AH₈₃

Discovery: 2006-01-04 / CSS / Catalina / 703

Taras Prystavski (b. 1977) is a Ukrainian amateur astronomer and prolific comet observer. His comet observations have led to the recovery of several periodic comets, and in 2020 he discovered the nucleus fragmentation of comet C/2018 F4 (PANSTARRS).

(350173) Yoshidanaoki = 2011 UL₉₆

Discovery: 2006-09-25 / Mt. Lemmon Survey / Mount Lemmon / G96

Yoshida Naoki (b. 1973) is a Japanese video-game producer, director, and designer. He is known primarily for his work as director and producer of Final Fantasy XIV: A Realm Reborn.

(375927) Ibara = 2009 WY₅₂

Discovery: 2009-11-22 / BATTeRS / Bisei SG Center / 300

The city of Ibara in western Honshu, Japan, has enacted ordinances to preserve the beautiful starry sky. In the mountainous regions there are facilities to enjoy or study the starry sky, including Bisei Observatory and the Bisei Spaceguard Center.

(391947) Tanithlee = 2008 VQ₇₂

Discovery: 2008-11-08 / Mt. Lemmon Survey / Mount Lemmon / G96

Tanith Lee (1947–2015) was a British science-fiction and fantasy writer. Despite not learning to read until age 8 due to a learning disability (dyslexia), she became a prolific author and wrote numerous award-winning novels and short stories.

(400162) SAIT = 2006 VM₈₅

*Discovery: 2006-11-14 / A. Boattini, M. Mazzucato * / San Marcello / 104*

SAIT is the acronym of the Societa Astronomica Italiana (Italian Society of Astronomy). Founded in Palermo in 1871 under the name Italian Society of Spectroscopists, it was the first professional association specializing in “physical astronomy” and its *Memorie* (1872) is considered the world's first astrophysics journal.

(411717) Cherylreed = 2012 BL₈

Discovery: 2004-02-12 / Spacewatch / Kitt Peak / 691

Cheryl Reed (b. 1960) is a Program Director at Northrop Grumman, after a long career spent at the Johns Hopkins University Applied Physics Laboratory. She has been involved in the program management of numerous space missions, and led the Double Asteroid Redirection Test from its conception to its confirmation as NASA's first planetary defense test mission.

(511955) Katalinkarikó = 2015 KC₂

Discovery: 2012-09-06 / Mt. Lemmon Survey / Mount Lemmon / G96

Katalin Karikó (b. 1955) is a Hungarian-American biochemist. Her work, related to messenger RNA technology in immunology, was instrumental in the development of mRNA vaccines during the COVID-19 pandemic.

(513557) NIGPAS = 2010 PE₇₄

Discovery: 2010-08-10 / PMO NEO Survey Program / XuYi / D29

The Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences (NIGPAS) was founded in 1951. NIGPAS has devoted itself to the exploration and development of geological and mineral resources in China and has become an international leader in stratigraphic and palaeontological research.

(528489) Ntuef = 2008 UW₅₄

*Discovery: 2008-10-20 / X. Y. Hsiao, Q.-z. Ye * / Lulin / D35*

The National Taiwan University Experimental Forest was originally established in 1901. It lies in central Taiwan and the terrain rises from 220 meters at the southern bank of Jhuoshuei River to 3952 meters at the peak of Yushan. The forest covers 32770 ha and occupies about 1 percent of Taiwan Island.

(529828) Jinhua yizhong = 2010 RJ₂₂

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

Jinhua yizhong (Jinhua No.1 High School), located in Zhejiang Province, was founded in 1902. It has educated about 46 000 students, including 19 academicians of China, and cultivated many astronomy enthusiasts, aerospace experts and space scientists, who have made great contributions to astronomy and space science.

(549229) Bánjános = 2011 FB₅

*Discovery: 2011-03-24 / S. Kürti, K. Sárneczky * / Piskéztető / 461*

János Bán (b. 1955) is a Hungarian actor. He was a founding member of the famous Katona József Theater, Budapest, and is one of the most popular foreign actors in Czech and Slovak films. His most memorable performance was in the 1985 Czechoslovak cult comedy, Vesničko Má středisková (My Sweet Little Village).

(549873) Portsevskii = 2011 UA₂₀₅

Discovery: 2011-10-26 / T. Kryachko, B. Satovski / Zelenchukskaya Stn / 114

Konstantin Alekseevich Portsevskii (1922–2010) was a Soviet astronomer, researcher and science communicator. As director of the Moscow Planetarium, he created popular science lectures and taught astronomy classes, including classes at Argo astronomy school. He also created and hosted the educational TV show Astronomy.

(555092) Annasusanne = 2013 QY₄₇

Discovery: 2013-08-30 / J. Jahn / SATINO Remote / C95

Anna Susanne Jahn (b. 1961) is the wife of the discoverer and a well-known German painter and printmaker in monotypes and watercolors.

(555128) Birštonas = 2013 RZ₅₁

*Discovery: 2013-09-12 / K. Černis, I. Eglitis * / Baldone / 069*

Birštonas is a scenic resort and a spa town, population about 4000, in Lithuania. It is located 30 km south of Kaunas, on the right bank of the Nemunas River. Birštonas was granted its city rights in 1529, and was designated as a city in 1966.

(560388) Normafa = 2015 FX₃₁₇

*Discovery: 2012-10-21 / K. Sárneczky, G. Hodosán * / Pizskéstető / 461*

Normafa is a popular tourist area in Budapest, not far from the Konkoly Observatory's headquarters. It is located in the Buda Hills, and is mainly known for its panoramic scenery.

(566631) Svábhegy = 2018 SH₆

*Discovery: 2010-11-01 / K. Sárneczky, Z. Kuli * / Pizskéstető / 461*

Svábhegy is a part of the 12th district of Budapest. The Konkoly Observatory was built here in the 1920s, which was mostly referred to as the Svábhegy Observatory before the Second World War.

(569484) Irisdement = 2005 UC₄

Discovery: 2005-10-26 / J.-C. Merlin / Nogales / 926

Iris Luella DeMent (b. 1961) is an American singer and songwriter. DeMent's musical style includes elements of folk, country and gospel. Her voice is made to embody intense emotions. Her most famous song “Let the Mystery Be” has been used in many films and series and has been covered by a number of artists.

(590739) Miloslavov = 2012 TF₂₉

Discovery: 2012-09-18 / T. Vorobjov, A. Kostin / Mount Lemmon SkyCenter / G84

Miloslavov (Hungarian: Annamajor) is a village and municipality in the Senec District, Bratislava Region, in western Slovakia, close to the Hungarian border. The village was first mentioned in historical records in 1332–1337.

(592710) Lenghu = 2015 BL₅₆₃

Discovery: 2011-03-29 / PMO NEO Survey Program / XuYi / D29

Lenghu is a region on the Tibetan Plateau in Qinghai Province of China. Due to its high altitude, extreme dryness and minimal light pollution, Lenghu is known as one of the best astronomical sites in the world. Several large astronomical facilities, including telescopes of Purple Mountain Observatory, have been sited there.

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

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 (Christensen)		<i>MPEC 2022-E167</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 (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 (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>

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

Numbering of Minor Planet Satellites

The following minor planet satellites are now receiving Roman numeral designations.

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 23191 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.

