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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.

(7915) Halbrook = 1979 MA₆

Discovery: 1979-06-25 / E. F. Helin, S. J. Bus / Siding Spring / 413

Timothy Halbrook (b. 1959) contributed to NASA's Lucy Trojan asteroid mission as the Proposal and Phase B Program Manager.

(7981) Katieoakman = 1978 VL₁₀

Discovery: 1978-11-07 / E. F. Helin, S. J. Bus / Palomar / 675

Katie Oakman (b. 1964) contributed to NASA's Lucy Trojan asteroid mission as the Spacecraft Structures and Mechanisms Lead. She led a team of mechanical engineers to design, analyze, fabricate, and test the Lucy spacecraft structures and mechanisms, and oversee the development of the 7.3m solar array wings.

(7982) Timmartin = 1979 MX₅

Discovery: 1979-06-25 / E. F. Helin, S. J. Bus / Siding Spring / 413

Timothy A. Martin (b. 1963) contributed to NASA's Lucy mission as the Propulsion Lead. This was the 13th interplanetary mission Tim participated on.

(8135) Davidmitchell = 1978 VP₁₀

Discovery: 1978-11-07 / E. F. Helin, S. J. Bus / Palomar / 675

David Francis Mitchell (b. 1962) contributed to NASA's Lucy Trojan asteroid mission as the Director of Flight Projects and Acting Director of Planetary Science Projects. He has helped shepherd multiple other missions and in 2021 became the Director of Engineering and Technology at NASA's Goddard Space Flight Center.

(8613) Cindyschulz = 1978 VE₁₀

Discovery: 1978-11-07 / E. F. Helin, S. J. Bus / Palomar / 675

Cindy Kaye Schulz (b. 1969) contributed to NASA's Lucy Trojan asteroid mission as the Technical Lead and editor for the proposal and as Mission Architect and Instrument Accommodations Lead and Risk Manager.

(8615) Philipgrahamgood = 1979 MB₂

Discovery: 1979-06-25 / E. F. Helin, S. J. Bus / Siding Spring / 413

Philip Graham Good (b. 1961) contributed to NASA's Lucy mission as the Guidance, Navigation, and Control Lead. He has also helped design and operate numerous other space probes including Stardust, Mars Reconnaissance Orbiter, MAVEN and JUNO.

(8620) Lowkevrudolph = 1981 EK₅

Discovery: 1981-03-02 / S. J. Bus / Siding Spring / 413

Lowell Kevin Rudolph (b. 1950) contributed to NASA's Lucy Trojan asteroid mission as the Spacecraft Design Lead and Lockheed Martin Proposal Coordinator. He was the Spacecraft Design Lead for the Juno mission to Jupiter, and contributed to the OSIRIS-REX asteroid sample return and the Cassini mission to Saturn.

(8631) Sherikboonstra = 1981 EK₄₁

Discovery: 1981-03-02 / S. J. Bus / Siding Spring / 413

Sheri Klug Boonstra (b. 1955) contributed to NASA's Lucy mission as the lead for the Lucy Student Collaboration, L'SPACE. Sheri has provided workforce training to thousands of students through L'SPACE, as Director of the Mars Education Program and as the lead of NASA's Undergraduate Student Research Program.

(8789) Effertz = 1978 VZ₇

Discovery: 1978-11-07 / E. F. Helin, S. J. Bus / Palomar / 675

Mark Joseph Effertz (b. 1977) contributed to NASA's Lucy Trojan asteroid mission as the Mission Operations Spacecraft Engineer.

(8790) Michaelamato = 1978 VN₉

Discovery: 1978-11-07 / E. F. Helin, S. J. Bus / Palomar / 675

Michael J. Amato (b. 1967) contributed to NASA's Lucy Trojan asteroid mission as the Early Mission Proposal and Phase A Goddard Space Flight Center Lead. He has successfully led early work on multiple other planetary missions including OSIRIS-REX, MAVEN, Dragonfly, and DAVINCI+.

(8791) Donyabradshaw = 1978 VG₁₁

Discovery: 1978-11-07 / E. F. Helin, S. J. Bus / Palomar / 675

Donya Douglas-Bradshaw (b. 1970) contributed to NASA's Lucy Trojan asteroid and the ICESat-2 Atlas missions as Project Manager. In 2021 she became the Deputy Director for Planning and Business Management of NASA Goddard Space Flight Center's Engineering and Technology Directorate.

(8792) Christyljohnson = 1978 VH₁₁

Discovery: 1978-11-07 / E. F. Helin, S. J. Bus / Palomar / 675

Christyl Chamblee Johnson (b. 1967) contributed to NASA's Lucy Trojan asteroid mission with oversight and support of the formulation of the mission. She is the Deputy Director for Technology and Research Investments at NASA's Goddard Space Flight Center.

(8987) Cavancuddy = 1978 VD₄

Discovery: 1978-11-07 / E. F. Helin, S. J. Bus / Palomar / 675

Cavan Michael Cuddy (b. 1981) contributed to NASA's Lucy mission as the System Design Lead and Spacecraft Responsible Systems Engineer.

(9151) Kettnergriswold = 1979 MQ₈

Discovery: 1979-06-25 / E. F. Helin, S. J. Bus / Siding Spring / 413

Kettner John Frederick Griswold (b. 1960) contributed to NASA's Lucy Trojan asteroid mission as the Launch Vehicle Integration Manager.

(9268) Jeremihschneider = 1978 VZ₂

Discovery: 1978-11-07 / E. F. Helin, S. J. Bus / Palomar / 675

Jeremih “Jeremiah” Paul Schneider (b. 1981) contributed to NASA's Lucy Trojan asteroid mission as the Spacecraft Electrical Power Subsystem Lead enabling Lucy to travel further from the Sun than any previous mission utilizing solar power.

(9269) Peterolufemi = 1978 VW₆

Discovery: 1978-11-07 / E. F. Helin, S. J. Bus / Palomar / 675

Peter Ajiboye Olufemi (b. 1960) contributed to NASA's Lucy Trojan asteroid mission as the Chief Safety and Mission Assurance Officer.

(9270) Sherryjennings = 1978 VO₈

Discovery: 1978-11-07 / E. F. Helin, S. J. Bus / Palomar / 675

Sherry Ann Jennings (b. 1962) contributed to NASA's Lucy mission as the Mission Manager in the Planetary Missions Program office. As of 2021, she has been a proud member of the NASA team for over 35 years.

(9519) Jeffkeck = 1978 VK₃

Discovery: 1978-11-06 / E. F. Helin, S. J. Bus / Palomar / 675

Jeffrey David Keck (b. 1977) contributed to NASA's Lucy Trojan asteroid mission as the Lead of Avionics development and production.

(9520) Montydibiasi = 1978 VV₆

Discovery: 1978-11-07 / E. F. Helin, S. J. Bus / Palomar / 675

Lamont “Monty” Di Biasi (b. 1941) contributed to NASA's Lucy Trojan asteroid mission as the Lead for Strategic Development. He led the generation of the programmatic win themes and strategies along with the formulation, coordination and implementation of review teams.

(9527) Sherrypervan = 1981 EH₂₃

Discovery: 1981-03-03 / S. J. Bus / Siding Spring / 413

Sherry Pervan (b. 1964) contributed to NASA's Lucy mission as the Chair of the internal team mission concept review panels who helped improve the proposal to be selected by NASA.

(9830) Franciswasiak = 1978 VE₁₁

Discovery: 1978-11-07 / E. F. Helin, S. J. Bus / Palomar / 675

Francis C. Wasiak (b. 1966) contributed to NASA's Lucy Trojan asteroid mission as the Ground Systems Manager and Concept of Operations Lead.

(9918) Timtrenkle = 1979 MK₃

Discovery: 1979-06-25 / E. F. Helin, S. J. Bus / Siding Spring / 413

Timothy G. Trenkle (b. 1958) contributed to NASA's Lucy Trojan asteroid mission as the Chief Engineer in the Goddard Space Flight Center Engineering Technology Directorate. He has also contributed to many other missions including ICESat, NPOESS, and MAVEN.

(11858) Devinpoland = 1988 RC₁₁

Discovery: 1988-09-14 / S. J. Bus / Cerro Tololo / 807

Devin Patrick Poland (b. 1986) contributed to NASA's Lucy Trojan asteroid mission as Mission Operations Manager.

(11859) Danngarcia = 1988 SN₁

Discovery: 1988-09-16 / S. J. Bus / Cerro Tololo / 807

Dann Garcia (b. 1977) contributed to NASA's Lucy Mission as the deputy lead for the Lucy Student Collaboration, L'SPACE. Dann has provided workforce development training and mentoring for college students, transforming the lives of thousands of students, parents, and educators throughout his career in rural South Texas.

(12183) Caltonen = 1975 SU₁

Discovery: 1975-09-30 / S. J. Bus / Palomar / 675

Craig Steven Altonen (b. 1965) contributed to NASA's Lucy mission as the Chief Engineer for the Lucy Spacecraft.

(12184) Trevormerkley = 1975 SB₂

Discovery: 1975-09-30 / S. J. Bus / Palomar / 675

Trevor Franklin Merkley (b. 1983) contributed to NASA's Lucy Trojan asteroid mission as the Spacecraft Fault Protection Lead and designed the solar array deployment software algorithm.

(12192) Gregbollendonk = 1978 VD₅

Discovery: 1978-11-07 / E. F. Helin, S. J. Bus / Palomar / 675

Gregory R. Bollendonk (b. 1960) contributed to NASA's Lucy Trojan asteroid mission as the Spacecraft Systems Engineer and was part of the Lucy spacecraft development lifecycle from concept study through development and launch.

(12195) Johndavidniemann = 1979 MM₄

Discovery: 1979-06-25 / E. F. Helin, S. J. Bus / Siding Spring / 413

John David Niemann (b. 1984) contributed to NASA's Lucy Trojan asteroid mission as the Lucy Mission Assurance Manager. He is a time traveler, moving through life at the speed of 1x.

(12196) Weems = 1979 MM₈

Discovery: 1979-06-25 / E. F. Helin, S. J. Bus / Siding Spring / 413

Weyman Weems (b. 1965) contributed to NASA's Lucy Trojan asteroid mission as the current Solar Array Principal Engineer.

(12200) Richlipe = 1981 EM₇

Discovery: 1981-03-01 / S. J. Bus / Siding Spring / 413

Richard Loyde Lipe Jr. (b. 1964) contributed to NASA's Lucy Trojan asteroid mission as the Program Manager and Engineering Manager at Lockheed Martin Space.

(12201) Spink = 1981 ED₁₂

Discovery: 1981-03-01 / S. J. Bus / Siding Spring / 413

James W. Spink (b. 1963) contributed to NASA's Lucy Trojan asteroid mission as the Program Manager for the Northrop Grumman UltraFlex solar array system. James and brothers Bill and Brad Jr. followed in the footsteps of their father Brad, who was an aerospace engineer on the Apollo program.

(12202) Toddgregory = 1981 EM₁₃

Discovery: 1981-03-01 / S. J. Bus / Siding Spring / 413

Todd Gregory (b. 1968) contributed to NASA's Lucy Trojan asteroid mission as the Technical Director for Solar Arrays.

(12203) Gehling = 1981 EO₁₉

Discovery: 1981-03-02 / S. J. Bus / Siding Spring / 413

Russell Neel Gehling (b. 1959) contributed to NASA's Lucy Trojan asteroid mission as the Solar Array Principal Engineer, until his retirement.

(12204) Jonpineau = 1981 EK₂₆

Discovery: 1981-03-02 / S. J. Bus / Siding Spring / 413

Jon Paul Pineau (b. 1978) supported NASA's Lucy Trojan asteroid mission as Aerospace Engineer and Lead Science Operations Center (SOC) Systems Engineer. He contributed to the design, development, and test of the SOC systems, the SOC interfaces, and mission concept of operations.

(12205) Basharp = 1981 EZ₂₆

Discovery: 1981-03-02 / S. J. Bus / Siding Spring / 413

Bret Alan Sharp (b. 1964) contributed to NASA's Lucy Trojan asteroid mission as the Lucy Spacecraft Engineering Manager, the Thermal Manager, and the Propulsion Manager.

(12206) Prats = 1981 EG₂₇

Discovery: 1981-03-02 / S. J. Bus / Siding Spring / 413

Rebecca Maria Prats (b. 1989) contributed to NASA's Lucy Trojan asteroid mission as the Configuration Manager. When not working on space vehicles, she turns her attention to high performance automobiles.

(12207) Matthewbeasley = 1981 EU₂₈

Discovery: 1981-03-01 / S. J. Bus / Siding Spring / 413

Matthew Beasley (b. 1973) contributed to NASA's Lucy Trojan asteroid mission as deputy payload systems engineer. His primary roles were ensuring that instruments and the terminal tracking cameras would be capable of making the measurements that Lucy needs to perform at the target asteroids.

(12208) Jacobenglander = 1981 EF₃₅

Discovery: 1981-03-02 / S. J. Bus / Siding Spring / 413

Jacob Aldo Englander (b. 1984) contributed to NASA's Lucy Trojan asteroid mission as the Trajectory Optimization Lead. He is a co-developer of the Evolutionary Mission Trajectory Generator which was used to optimize the Lucy trajectory and the OSIRIS-REx return to Earth.

(12210) Prykull = 1981 EA₄₂

Discovery: 1981-03-02 / S. J. Bus / Siding Spring / 413

Cory J. Prykull (b. 1992) contributed to NASA's Lucy mission as the Assembly, Test, and Launch Operations Mechanical Operations Lead.

(12215) Jessicalounsbury = 1981 US₂₂

Discovery: 1981-10-24 / S. J. Bus / Palomar / 675

Jessica Lounsbury (nee Thompson, b. 1979) contributed to NASA's Lucy Trojan asteroid mission as the NASA Project Systems Engineer. She can often be found on her boat fishing and crabbing on the Chesapeake Bay with her husband Brian.

(12247) Michaelsekerak = 1988 RO₁₁

Discovery: 1988-09-14 / S. J. Bus / Cerro Tololo / 807

Michael James Sekerak (b. 1977) contributed to NASA's Lucy Trojan asteroid mission as the NASA Deputy Project Systems Engineer. He was part of the team for the entire development through to launch.

(12248) Russellcarpenter = 1988 RX₁₂

Discovery: 1988-09-14 / S. J. Bus / Cerro Tololo / 807

James Russell Carpenter (b. 1966) contributed to NASA's OSIRIS-REx and Lucy asteroid missions as the Goddard Space Flight Center Technical Deputy Manager for Space Science Mission Operations. In addition to helping fly spacecraft, he also navigates sailboats and small aircraft.

(12665) Chriscarson = 1978 VE₇

Discovery: 1978-11-06 / E. F. Helin, S. J. Bus / Palomar / 675

Christopher A. Carson (b. 1968) contributed to NASA's Lucy Trojan asteroid mission as the Observatory (Spacecraft) Manager.

(12668) Scottstarin = 1979 MX₁

Discovery: 1979-06-25 / E. F. Helin, S. J. Bus / Siding Spring / 413

Scott Robin Starin (b. 1975) contributed to NASA's Lucy Trojan asteroid mission as Guidance, Navigation, and Control Systems Engineer.

(12669) Emilybrisnehan = 1979 MY₅

Discovery: 1979-06-25 / E. F. Helin, S. J. Bus / Siding Spring / 413

Emily Walters Brisnehan (b. 1987) contributed to NASA's Lucy Trojan asteroid mission as the Instrument Accommodations Systems Engineer. She is the proud mother of Margot and Norah.

(12676) Dianemerline = 1981 DU₁

Discovery: 1981-02-28 / S. J. Bus / Siding Spring / 413

Diane Elizabeth Miller Merline (b. 1959) contributed to the Lucy asteroid mission as an administrative coordinator. She served a similar role for the Cassini imaging-team lead. She joined SwRI in 2001 performing various administrative functions for the New Horizons mission. Prior to this she was at LPL and NRAO.

(12677) Gritsavage = 1981 EO₄

Discovery: 1981-03-02 / S. J. Bus / Siding Spring / 413

Anthony Thomas Gritsavage (b. 1974) contributed to NASA's Lucy Trojan asteroid mission as the Lead Quality Engineer.

(12678) Gerhardus = 1981 EQ₂₀

Discovery: 1981-03-02 / S. J. Bus / Siding Spring / 413

Joerg Gerhardus (b. 1968) contributed to NASA's Lucy Mission as the Payload Safety and Mission Assurance Manager.

(12679) Jamessimpson = 1981 EK₂₂

Discovery: 1981-03-02 / S. J. Bus / Siding Spring / 413

James Edward Simpson (b. 1970) contributed to NASA's Lucy Trojan asteroid mission as the L/Ralph Instrument Project Manager.

(12681) Pevear = 1981 UL₂₉

Discovery: 1981-10-24 / S. J. Bus / Palomar / 675

Kristina Pevear (b. 1982) contributed to NASA's Lucy Trojan asteroid mission as the Systems Engineering Verification Engineer.

(12980) Pruetz = 1978 VO₃

Discovery: 1978-11-06 / E. F. Helin, S. J. Bus / Palomar / 675

Todd Orville Pruetz (b. 1968) contributed to NASA's Lucy mission as the Science Communications Publisher.

(12981) Tracicase = 1978 VP₃

Discovery: 1978-11-07 / E. F. Helin, S. J. Bus / Palomar / 675

Traci Case (b. 1976) contributed to NASA's Lucy mission in different roles. She was part of the original Step-1 proposal team. She was also the Cost, Schedule and Earned Value Lead, and Deputy Payload Manager at SwRI.

(12982) Kaseybond = 1979 MS₅

Discovery: 1979-06-25 / E. F. Helin, S. J. Bus / Siding Spring / 413

Kasey J. Bond (b. 1991) contributed to NASA's Lucy Trojan asteroid mission as a Resource Analyst.

(12983) Mattcox = 1979 OH₁

Discovery: 1979-07-24 / S. J. Bus / Palomar / 675

Matthew Anthony Cox (b. 1966) contributed to NASA's Lucy Trojan asteroid mission as the Spacecraft Program Manager responsible for leading the Lockheed Martin development team in designing, building, and testing the Lucy spacecraft.

(12985) Mattgarrison = 1980 UW₁

Discovery: 1980-10-31 / S. J. Bus / Palomar / 675

Matthew Brian Garrison (b. 1983) contributed to NASA's Lucy Trojan asteroid mission as the L'Ralph Instrument Systems Engineer.

(12986) Kretke = 1981 DM₂

Discovery: 1981-02-28 / S. J. Bus / Siding Spring / 413

Katherine A. Kretke (b. 1982) contributed to NASA's Lucy Trojan asteroid mission as communications and public engagement lead. She is also an astrophysicist whose research focuses on protoplanetary disk evolution, planet formation, and solar system evolution.

(12988) Tiffanykapler = 1981 EC₅

Discovery: 1981-03-02 / S. J. Bus / Siding Spring / 413

Tiffany L. Kapler (b. 1977) contributed to NASA's Lucy Trojan asteroid mission as the Public Outreach Specialist.

(12989) Chriseanderson = 1981 EV₉

Discovery: 1981-03-01 / S. J. Bus / Siding Spring / 413

Chris Elaine Anderson (b. 1957) contributed to NASA's Lucy Trojan asteroid mission as typesetter and administrative assistant. She helped produce the Step-1 proposal and the Phase-A Concept Study Report and supported the entire team for the Site Visit.

(12990) Josetillard = 1981 EB₁₇

Discovery: 1981-03-06 / S. J. Bus / Siding Spring / 413

Jose P. Tillard (b. 1976) contributed to NASA's Lucy Trojan asteroid mission as the Risk Manager and Systems Engineer.

(12991) Davidgriffiths = 1981 EN₂₁

Discovery: 1981-03-02 / S. J. Bus / Siding Spring / 413

David J. Griffiths (b. 1961) contributed to NASA's Lucy Trojan asteroid mission as the Flight Project Mechanical Systems and Solar Arrays Systems Engineer.

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.

Recently-Assigned Names

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 (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>
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)		MPEC 2021-M74
C/2021 K3 (Catalina)		MPEC 2021-M87
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 G2 (ATLAS)		MPEC 2021-T206
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

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
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
SwRI	Southwest Research Institute
USNO	U.S. Naval Observatory

Statistics & Links

There are currently 22824 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.

