



# WGSBN Bulletin



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

## Table of Contents

<u>New Names of Minor Planets</u> .....	5
(5562) Sumi = 1991 VS.....	5
(5563) Yuuri = 1991 VZ1.....	5
(5564) Hikari = 1991 VH2.....	5
(10052) Nason = 1987 SM12.....	5
(10053) Noeldetilly = 1987 SR12.....	5
(10058) Ikwilliamson = 1988 DD5.....	5
(15674) Elfving = 1978 RR7.....	6
(30838) Hitomiyamasaki = 1991 CM1.....	6
(44527) Tonnon = 1998 YC6.....	6
(48756) Yoshiharukuni = 1997 GO28.....	6
(78867) Isakowitz = 2003 QE81.....	6
(84119) Sanitariitaliani = 2002 RF26.....	6
(95760) Protezioneecivile = 2003 EF41.....	6
(95895) Sebastiano = 2003 HF12.....	6
(111571) Bebevio = 2002 AD13.....	7
(112483) Missjudy = 2002 PA.....	7
(117406) Blasgámez = 2005 AF10.....	7
(124845) Clinteastwood = 2001 TH15.....	7
(141128) Ghyoot = 2001 XR88.....	7
(187447) Johnmester = 2005 WD117.....	7
(213772) Blaheta = 2003 DF13.....	7
(214432) Belprahon = 2005 QA57.....	8
(215023) Huangjiqing = 2009 BR76.....	8
(247821) Coignet = 2003 SN170.....	8
(289116) Zurbuchen = 2004 TQ354.....	8
(435127) Virtelpro = 2007 EE88.....	8
(484734) Chienshu = 2008 YX9.....	8
(526460) Ceciliakoocen = 2006 QY89.....	8
(541842) Amygreaves = 2012 BF24.....	9
(544541) Srholec = 2014 WP73.....	9
(552746) Annanobili = 2010 RN154.....	9

<a href="#"><u>(555152) Oproiu = 2013 RV94</u></a> .....	<a href="#"><u>9</u></a>
<a href="#"><u>(555292) Bakels = 2013 UZ32</u></a> .....	<a href="#"><u>9</u></a>
<a href="#"><u>(557045) Nadolschi = 2014 SQ314</u></a> .....	<a href="#"><u>9</u></a>
<a href="#"><u>(572217) Dramba = 2008 EA84</u></a> .....	<a href="#"><u>9</u></a>
<a href="#"><u>(574546) Kondorgusztáv = 2010 RP180</u></a> .....	<a href="#"><u>10</u></a>
<a href="#"><u>(580123) Gedek = 2015 BG20</u></a> .....	<a href="#"><u>10</u></a>
<a href="#"><u>Recent Comet Names &amp; Numberings</u></a> .....	<a href="#"><u>11</u></a>
<a href="#"><u>Recently-Assigned Names</u></a> .....	<a href="#"><u>11</u></a>
<a href="#"><u>Recent Numberings</u></a> .....	<a href="#"><u>11</u></a>
<a href="#"><u>Standard Acronyms &amp; Abbreviations</u></a> .....	<a href="#"><u>12</u></a>
<a href="#"><u>Statistics &amp; Links</u></a> .....	<a href="#"><u>12</u></a>
<a href="#"><u>WGSBN Members</u></a> .....	<a href="#"><u>13</u></a>

## 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.

### **(5562) Sumi = 1991 VS**

*Discovery: 1991-11-04 / S. Ueda, H. Kaneda / Kushiro / 399*

Sumi Kaneda (b. 2006) is a granddaughter of the second discoverer.

### **(5563) Yuuri = 1991 VZ<sub>1</sub>**

*Discovery: 1991-11-09 / S. Ueda, H. Kaneda / Kushiro / 399*

Yuuri Ueda (b. 2005) is a granddaughter of the first discoverer.

### **(5564) Hikari = 1991 VH<sub>2</sub>**

*Discovery: 1991-11-09 / S. Ueda, H. Kaneda / Kushiro / 399*

Hikari Ueda (b. 2010) is a granddaughter of the first discoverer.

### **(10052) Nason = 1987 SM<sub>12</sub>**

*Discovery: 1987-09-16 / H. Debehogne / La Silla / 809*

Jymme Curtis (Curt) Nason (b. 1953) was one of the founders of the Royal Astronomical Society of Canada New Brunswick Centre in 2000, and has served as club president and editor. He has given presentations to various groups and several courses through the New Brunswick Community College and the University of New Brunswick extended learning program.

### **(10053) Noeldetilly = 1987 SR<sub>12</sub>**

*Discovery: 1987-09-16 / H. Debehogne / La Silla / 809*

Rolland Noël de Tilly (1906–1983) was a leader in the Royal Astronomical Society of Canada, Centre de Montréal, for many years. He wrote for *Les Cercles de Jeunes Naturalistes* under the pen-name "l'Ami des Etoiles." He received the Prix Georgette Le Moyne in 1972. The Astronomical Society of France presented him with the Medaille Camille Flammarion.

### **(10058) Ikwilliamson = 1988 DD<sub>5</sub>**

*Discovery: 1988-02-25 / R. H. McNaught / Siding Spring / 413*

Isabel K. Williamson (1908–2000) won the Royal Astronomical Society of Canada's Chant Medal in 1948. Her observations of aurora and meteors were highly regarded by professional scientists. The first Messier Club was the result of her efforts. RASC Montreal Centre's former observatory and current library were named in her honor.

**(15674) Elfving = 1978 RR<sub>7</sub>**

*Discovery: 1978-09-02 / C.-I. Lagerkvist / La Silla / 809*

Ulf Elfving (b. 1942) has been a journalist on radio and television for about 60 years. He received the Stora Journalistpriset (Swedish Grand Prize for Journalism) in 1989.

**(30838) Hitomiyamasaki = 1991 CM<sub>1</sub>**

*Discovery: 1991-02-07 / T. Seki / Geisei / 372*

Hitomi Yamasaki (b. 1945) contracted Hansen's disease when young and was forced to live in isolation for many decades at a leprosarium. Comet Ikeya-Seki interested her in astronomy and, through the exchange of letters with the second discoverer, she found happiness and purpose in life.

**(44527) Tonnon = 1998 YC<sub>6</sub>**

*Discovery: 1998-12-22 / I. P. Griffin / Cocoa / 758*

Anthonie Tonnon (b. 1989) is a New Zealand musician. In 2018 a chance meeting between him and the discoverer of this asteroid after a concert led to the "Synthesized Universe" project, which merged Tonnon's music with immersive visualizations of the universe in planetaria in Dunedin and Auckland.

**(48756) Yoshiharukuni = 1997 GO<sub>28</sub>**

*Discovery: 1997-04-11 / T. Okuni / Nanyo / 358*

Yoshiharu Okuni (b. 1970) is the eldest son of the discoverer.

**(78867) Isakowitz = 2003 QE<sub>81</sub>**

*Discovery: 2003-08-23 / M. W. Buie / Cerro Tololo / 807*

Matthew Scott Isakowitz (1987–2017), was a rising star in space commercialization. His path, from Princeton and George Washington Universities, to the Commercial Spaceflight Federation, XPRIZE, and multiple newspace companies was tragically cut too short.

**(84119) Sanitariitaliani = 2002 RF<sub>26</sub>**

*Discovery: 2002-09-03 / Fabrizio Bernardi \* / Campo Imperatore / 599*

The "Sanitari Italiani" represents the Italian Health System and includes doctors, nurses and all persons in Italy who, through their bravery, full commitment, professionalism and generosity, played a crucial role during the 2020 COVID19 emergency.

**(95760) Protezione civile = 2003 EF<sub>41</sub>**

*Discovery: 2003-03-09 / Fabrizio Bernardi \* / Campo Imperatore / 599*

The Protezione Civile is the Italian Civil Protection. It was established in 1992 and it deals with the prediction, prevention and management of emergency events, including natural disasters. Its full commitment and professionalism played a very important role during the 2020 COVID19 emergency.

**(95895) Sebastiano = 2003 HF<sub>12</sub>**

*Discovery: 2003-04-25 / S. Foglia, M. Tombelli \* / Campo Imperatore / 599*

Sebastiano Foglia (b. 2010) is the son of the first discoverer.

**(111571) Bebevio = 2002 AD<sub>13</sub>**

*Discovery: 2002-01-11 / F. Bernardi, M. Tombelli \* / Campo Imperatore / 599*

Beatrice Maria Adelaide Marzia Vio (b. 1997), known as Bebe Vio, is an Italian wheelchair fencer. She won at the 2014 and 2016 European championships, 2015 and 2017 World championships, and 2016 and 2020 Paralympic games in the foil B category. Her enthusiasm and joy for life is an extraordinary example of resilience and rebirth after a difficult illness.

**(112483) Missjudy = 2002 PA**

*Discovery: 2002-08-01 / L. Ball / Emerald Lane / 843*

Judy Ball (b. 1946) is the wife of the discoverer. She has supported the discoverer's numerous astronomy projects for more than 30 years.

**(117406) Blasgámez = 2005 AF<sub>10</sub>**

*Discovery: 2005-01-07 / R. Ferrando / Pla D'Arguines / 941*

Blas Gámez Ortiz (1966–2017) was a Deputy Inspector in the Spanish National Police who was killed in the line of duty. He was a decorated police officer with 28 years of service.

**(124845) Clinteastwood = 2001 TH<sub>15</sub>**

*Discovery: 2001-10-12 / R. A. Tucker / Goodricke-Pigott / 683*

Clinton Eastwood Jr. (b. 1930) is an American actor, director, producer, and composer. His film career began in 1954. He is a multiple nominee and winner of Academy, BAFTA, and Golden Globe Awards.

**(141128) Ghyoot = 2001 XR<sub>88</sub>**

*Discovery: 2001-12-10 / T. Pauwels / Uccle / 012*

Herman Ghyoot (b. 1941) is the founder and first president of the Public Observatory Beisbroek (Volkssterrenwacht Beisbroek vzw) in Bruges (Belgium).

**(187447) Johnmester = 2005 WD<sub>117</sub>**

*Discovery: 2005-11-29 / V. Reddy / Goodricke-Pigott / 683*

John Clark Mester (b. 1961) is the former Associate Vice President for Research at the University of Arizona, where he established space situational awareness and quantum information initiatives. A physicist by training, he was instrumental in the development and launch of NASA's Gravity Probe B mission.

**(213772) Blaheta = 2003 DF<sub>13</sub>**

*Discovery: 2003-02-27 / KLENOT \* / Klet' / 246*

Radim Blaheta (b. 1951) is a professor in applied mathematics at the University of Ostrava. His main research activities are focused on numerical methods for the solution of direct and inverse methods for partial differential equations and their application in mathematical modeling in geosciences and geoen지니어ing.

**(214432) Belprahon = 2005 QA<sub>57</sub>**

*Discovery: 2005-08-29 / M. Ory \* / Vicques / 185*

Belprahon is a village located in the French-speaking part of the canton of Bern in the north of Switzerland.

**(215023) Huangjiqing = 2009 BR<sub>76</sub>**

*Discovery: 2009-01-27 / PMO NEO Survey Program / XuYi / D29*

Huang Jiqing (1904–1995), an academician of the Chinese Academy of Sciences, was the first to research historical geotectonics and geological mapping as a founder of modern geology in China.

**(247821) Coignet = 2003 SN<sub>170</sub>**

*Discovery: 2003-09-22 / T. Pauwels / Uccle / 012*

Michiel Coignet (1549–1623) was mathematician and astronomer to the Archdukes Albert and Isabella. He wrote an influential book on navigation. He was the inventor of the nautical hemisphere and one of the developers of the sector. His workshop produced exquisite mathematical instruments and astrolabes.

**(289116) Zurbuchen = 2004 TQ<sub>354</sub>**

*Discovery: 2004-10-11 / M. W. Buie / Kitt Peak / 695*

Thomas Hansueli Zurbuchen (b. 1968) is a Swiss-American space scientist. He is a member of multiple space mission teams, and has been the NASA Associate Administrator for its Science Mission Directorate since 2016.

**(435127) Virtelpro = 2007 EE<sub>88</sub>**

*Discovery: 2007-03-14 / G. Masi / Ceccano / 470*

The Virtual Telescope Project, Italy, is a hi-tech facility doing research and public outreach in astronomy, sharing real-time images on the web with commentary on the most intriguing astronomical events. Since 2006, it has shown the universe to millions, from more than 200 countries, with NEAs being the most popular targets.

**(484734) Chienshu = 2008 YX<sub>9</sub>**

*Discovery: 2008-12-19 / X. Y. Hsiao, Q.-z. Ye \* / Lulin / D35*

Shu Chien (b. 1931) was one of the founders of the field of cellular and molecular bioengineering in the early 1980s. In the 1990s, he established the foundation for mechanobiology, which provides the basis for understanding blood flow in diseases like atherosclerosis. He received the U.S. Medal of Science in 2010.

**(526460) Ceciliakoocen = 2006 QY<sub>89</sub>**

*Discovery: 2006-08-28 / H.-C. Lin, Q.-z. Ye \* / Lulin / D35*

The Dr. Cecilia Koo Plant Conservation Center was established in 2007 and hosts the richest living plant collection in the world with more than 33 000 taxa. It has provided materials freely for global academic researchers.



**(541842) Amygreaves = 2012 BF<sub>24</sub>**

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

Amy Greaves (b. 2003) is the granddaughter of the discoverer.

**(544541) Srholec = 2014 WP<sub>73</sub>**

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

Anton Srholec (1929–2016) was a Slovak Catholic priest and Salesian. After 1989 he worked with homeless people. His life was a symbol of the fight for faith, freedom and humaneness and he received many national and foreign awards.

**(552746) Annanobili = 2010 RN<sub>154</sub>**

*Discovery: 2010-09-11 / Y. Ivashchenko / Andrushivka / A50*

Anna Maria Nobili (b. 1949) is a physicist who studies the dynamics of the solar system and space physics. She obtained her main scientific results at the Faculty of Physics of the University of Pisa, where she proposed several space experiments, including the Galileo Galilei project to test the equivalence principle.

**(555152) Oproiu = 2013 RV<sub>94</sub>**

*Discovery: 2009-11-14 / EURONEAR \* / La Palma / 950*

Tiberiu Oproiu (1939–2020) was a Romanian researcher of the Astronomical Institute in Cluj-Napoca who worked in celestial mechanics, artificial satellites, asteroids, data processing and software development. A professor at the universities of Cluj-Napoca and Sibiu, he directed many BSc/MSc theses and six PhD students.

**(555292) Bakels = 2013 UZ<sub>32</sub>**

*Discovery: 2013-10-31 / M. Langbroek, K. Sárneczky \* / Piszkestető / 461*

Corrie Bakels (b. 1942) is a Dutch archaeobotanist, specializing on the (pre-)history of farming and its influence on the landscape. She is the founder of the archaeobotanical laboratory at Leiden University and was the first female member of the Dutch National Academic Council.

**(557045) Nadolschi = 2014 SQ<sub>314</sub>**

*Discovery: 2008-03-13 / EURONEAR, - \* / La Silla / 809*

Victor Nadolschi (1911–1996) was a Romanian astronomer who graduated from A. I. Cuza University in Iasi. A professor at the universities of Iasi and Galați, he was interested in the application of statistics in astronomy, the improvement of orbits, eclipses, practical astronomy and public outreach.

**(572217) Dramba = 2008 EA<sub>84</sub>**

*Discovery: 2008-03-11 / EURONEAR, - \* / La Silla / 809*

Constantin Dramba (1907–1977) was a Romanian astronomer who graduated from the University of Bucharest and who acquired his PhD at the Sorbonne with a thesis on celestial mechanics. He was a director of Bucharest Observatory and a professor of Bucharest University and the Polytechnic Institute.

**(574546) Kondorgusztáv = 2010 RP<sub>180</sub>**

*Discovery: 2010-09-06 / K. Sárneczky, Z. Kuli \* / Piskésetető / 461*

Gusztáv Kondor (1825–1897) was a Hungarian astronomer, geodesist, mathematician, and corresponding member of the Hungarian Academy of Sciences. His main field of research was celestial mechanics, astrometry and astronomical geolocation. He was an active science communicator.

**(580123) Gedek = 2015 BG<sub>20</sub>**

*Discovery: 2012-09-08 / M. Kusiak, M. Żołnowski \* / Tincana / D03*

Marcin Gedek (b. 1978) is a Polish amateur astronomer. Thanks to his experience, knowledge and passion, he built several remotely controlled observatories, including the Polonia Observatory, where comet C/2015 F2 (Polonia) was discovered.

## 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).

### Recently-Assigned Names

C/2021 R5 (Rankin)	<i>MPEC 2021-R257</i>
C/2021 R4 (Wierzchos)	<i>MPEC 2021-R256</i>
C/2021 R3 (PANSTARRS)	<i>MPEC 2021-R255</i>
C/2021 R2 (PANSTARRS)	<i>MPEC 2021-R151</i>
C/2021 R1 (PANSTARRS)	<i>MPEC 2021-R150</i>
C/2021 Q6 (PANSTARRS)	<i>MPEC 2021-R167</i>
C/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 K3 (Catalina)	<i>MPEC 2021-M87</i>
P/2021 HS (PANSTARRS)	<i>MPEC 2021-S44</i>

### Recent Numberings

425P/2005 W3 = P/2021 O2 (Kowalski)	<i>MPC 132232</i>
424P/2012 S2 = P/2021 L5 (La Sagra)	<i>MPC 132232</i>
423P/2008 CL94 = P/2021 A12 (Lemmon)	<i>MPC 132232</i>
422P/2006 S4 = P/2021 L1 (Christensen)	<i>MPC 132232</i>
421P/2009 U4 = P/2020 H10 (McNaught)	<i>MPC 130596</i>
420P/2009 Q1 = P/2021 E1 (Hill)	<i>MPC 128966</i>
419P/2015 F1 = P/2021 A11 (PANSTARRS)	<i>MPC 128966</i>
418P/2010 A5 = P/2020 Y5 (LINEAR)	<i>MPC 127300</i>
417P/2015 J3 = P/2021 B1 (NEOWISE)	<i>MPC 127300</i>
416P/2013 A2 = P/2021 A8 (Scotti)	<i>MPC 127300</i>

## 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
USNO	U.S. Naval Observatory

## Statistics & Links

There are currently 22764 named minor planets.

Discoverers of minor planets may submit name proposals via the WGSBN voting website at: [https://minorplanetcenter.net/submit\\_name/login](https://minorplanetcenter.net/submit_name/login)

Registration is required to access this site. Requests for access should be made to [contact@wgsbn-iau.org](mailto: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](mailto: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.

