



# WGSSBN Bulletin



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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>MPC</i> 6208	5	<i>For</i> contemporary <i>read</i> contemporary [(2029) citation]
<i>MPC</i> 8799	23	<i>For</i> Roumanian <i>read</i> Romanian [(2331) citation]
<i>MPC</i> 12012	21	<i>For</i> Saint-Exupery <i>read</i> Saint-Exupéry [(2578) citation]
<i>MPC</i> 14030	– 9	<i>For</i> representative <i>read</i> representative [(3915) citation]
<i>MPC</i> 14481	8	<i>For</i> the <i>read</i> the [(3070) citation]
<i>MPC</i> 15573	9	<i>For</i> Ecoles <i>read</i> Écoles [(3002) citation]
<i>MPC</i> 16249	–23	<i>For</i> visiters <i>read</i> visitors [(4352) citation]
<i>MPC</i> 16249	–15	<i>For</i> situatet <i>read</i> situated [(4353) citation]
<i>MPC</i> 18448	6	<i>For</i> instrumentation <i>read</i> instrumentation [(2373) citation]
<i>MPC</i> 18647	24	<i>For</i> named "Centaur" <i>read</i> Centaur [(4829) citation]
<i>MPC</i> 20163	19	<i>For</i> Frederic <i>read</i> Frédéric [(5033) citation]
<i>MPC</i> 20163	21	<i>For</i> 'troubadours' <i>read</i> troubadours [(5033) citation]
<i>MPC</i> 20163	22	<i>For</i> 'Mir entire Provence' <i>read</i> "Mir entire Provence" [(5033) citation]
<i>MPC</i> 20163	23	<i>For</i> 'Lou tresor dou felibrige', a Provençal-French <i>read</i> Lou Tresor dóu Felibrige, a Provençal-French [(5033) citation]
<i>MPC</i> 22507	49	<i>For</i> travelled <i>read</i> traveled [(5197) citation]
<i>MPC</i> 22509	12	<i>For</i> 'Four Winds' and 'Nitsunekamui' <i>read</i> Four Winds and Nitsunekamui [(5372) citation]
<i>MPC</i> 22829	27	<i>For</i> practised <i>read</i> practiced [(3764) citation]
<i>MPC</i> 23351	–20	<i>For</i> Commission <i>read</i> Commission [(4315) citation]
<i>MPC</i> 23540	– 3	<i>For</i> Encyclopedia <i>read</i> Encyclopédie [(5351) citation]
<i>MPC</i> 25445	– 4	<i>For</i> cynism <i>read</i> cynicism [(6309) citation]

MPC 25445	-21	For organised read organized [(6304) citation]
MPC 25978	3	For ‘The Cry’, ‘Jealousy’, and ‘The Girls on the Bridge’ read <i>The Cry, Jealousy, and The Girls on the Bridge</i> [(5699) citation]
MPC 27127	45	For “Chelyuskin” read <i>Chelyuskin</i> [(4728) citation]
MPC 28090	18	For assaults read assaults [(6318) citation]
MPC 28090	19	For “CBS Evening News” read <i>CBS Evening News</i> [(6318) citation]
MPC 29670	-40	For meticulously read meticulously [(5579) citation]
MPC 29672	43	For “Quark” read <i>Quark</i> [(7197) citation]
MPC 29672	44	For “The Marvellous Machine” read <i>The Marvellous Machine</i> [(7197) citation]
MPC 29672	44 to 45	For “The Planet of the Dinosaurs” read <i>The Planet of the Dinosaurs</i> [(7197) citation]
MPC 30478	25	For Nemed read Named [(7300) citation]
MPC 30478	25	For orthopaedist read orthopedist [(7300) citation]
MPC 30478	26 to 27	For astrophotographies read astrophotographs [(7300) citation]
MPC 30478	-41	For Weltbühne read <i>Weltbühne</i> [(7584) citation]
MPC 30801	46	For Roumanian-born read Romanian-born [(7316) citation]
MPC 31025	-42 to -41	For (1905), or “Song of the blood-red flower” read <i>(Song of the blood-red flower, 1905)</i> [(7416) citation]
MPC 31026	- 4	For Prelude and Fugue in G minor read <i>Prelude and Fugue in G minor</i> [(7661) citation]
MPC 31296	6 to 7	For “Structures from Silence” (1984), “Dreamtime Return” (1988) and “The Magnificent Void” (1996) read <i>Structures from Silence</i> (1984), <i>Dreamtime Return</i> (1988) and <i>The Magnificent Void</i> (1996) [(5945) citation]
MPC 32346	50	For ‘Izu no Odoriko’ read <i>Izu no Odoriko</i> [(6832) citation]
MPC 32347	37 to 38	For “Sexual human” and “Football on the first year of Man-en era” read <i>Sexual human</i> and <i>Football on the first year of Man-en era</i> [(6931) citation]
MPC 34340	28	For <i>Pyrrhocorax graculus</i> read <i>Pyrrhocorax graculus</i> [(4471) citation]
MPC 34346	- 7	For nee read née [(8307) citation]

MPC 34619	-30	For Ichthyosaurus read <i>Ichthyosaurus</i> [(3919) citation]
MPC 34619	-28 to -27	For Plesiosaurus, Pterodactylus and Squaloraja read <i>Plesiosaurus, Pterodactylus and Squaloraja</i> [(3919) citation]
MPC 34624	- 8	For magnificent read magnificent [(6829) citation]
MPC 34633	8	For programable read programmable [(10204) citation]
MPC 35485	-23	For eighteenth read eighteenth [(7387) citation]
MPC 36129	4	For Nautilus read <i>Nautilus</i> [(9769) citation]
MPC 36129	6	For U.S.S. Nautilus read <i>U.S.S. Nautilus</i> [(9769) citation]
MPC 36129	16	For U.S.S. Enterprise read <i>U.S.S. Enterprise</i> [(9777) citation]
MPC 39650	-14	For popularising read popularizing [(7974) citation]
MPC 39657	-16	For “La Salpêtrière” read <i>La Salpêtrière</i> [(11314) citation]
MPC 39657	-11	For “Salpêtrière Hospital” read <i>Salpêtrière Hospital</i> [(11315) citation]
MPC 39659	40	For (The Realm of Stars) and the Czech Astronomical Yearbook read <i>(The Realm of Stars) and the Czech Astronomical Yearbook</i> [(13390) citation]
MPC 40706	25	For practise read practice [(11090) citation]
MPC 40709	-20	For ninteenth read nineteenth [(12675) citation]
MPC 41034	13 to 14	For <i>Kleiner Mann-was nun, Wer einmal aus dem Blechnapf frit</i> and <i>Der eieserne Gustav</i> read <i>Kleiner Mann, was nun?, Wer einmal aus dem Blechnapf frißt</i> and <i>Der eiserne Gustav</i> [(14025) citation]
MPC 41386	18	For (b. 1/1/1966) read (b. 1966) [(12494) citation]
MPC 42668	-21	For civilisation read civilization [(6362) citation]
MPC 42671	-46	For civilisation read civilization [(10797) citation]
MPC 42671	-22	For civilisation read civilization [(10866) citation]
MPC 42672	11	For civilisation read civilization [(11055) citation]
MPC 42675	-35	For incuding read including [(16046) citation]
MPC 43046	- 6	For Australia II read <i>Australia II</i> [(18747) citation]
MPC 44111	23	For Star Trek series Deep Space Nine read <i>Star Trek: Deep Space Nine</i> [(26733) citation]

MPC 44594	41	For chronologically read chronologically [(14040) citation]
MPC 45336	-47	For popularization read popularization [(7366) citation]
MPC 45339	-25	For af read of [(16672) citation]
MPC 45345	-28	For tranlated read translated [(32899) citation]
MPC 46112	25	For mountaineous read mountainous [(26757) citation]
MPC 46112	28	For landsape read landscape [(26757) citation]
MPC 47168	25	For Practised meditators read Practiced mediators [(12472) citation]
MPC 47299	22	For practise read practice [(11064) citation]
MPC 47299	37	For “Yatsusugi-Tentai-Kansokujo” read Yatsusugi-Tentai-Kansokujo [(11321) citation]
MPC 50248	-26 to -25	For Journal of the British Astronomical Association read Journal of the British Astronomical Association [(7966) citation]
MPC 50254	33 to 34	For Archaeological read Archaeological [(56000) citation]
MPC 51189	45	For “Lazur” read Lazur [(23402) citation]
MPC 52324	41	For Drinker nisti read Drinker nisti [(15448) citation]
MPC 53174	46	For Symphony in E Major read Symphony in E Major [(11019) citation]
MPC 53470	31	For “On War” read On War [(12873) citation]
MPC 53472	-29	For Homo erectus read Homo erectus [(85217) citation]
MPC 53953	-38	For Hydrangea hortensia read Hydrangea hortensia [(13116) citation]
MPC 53953	-35	For Nicole-Reine Etable de la Briere Hortense Lepaute read Nicole-Reine Lepaute, née Étable de la Brière [(13116) citation]
MPC 53955	28	For practised read practiced [(52601) citation]
MPC 56611	-39	For mosquitos read mosquitoes [(5178) citation]
MPC 56613	45	For “The Magic Flute” read The Magic Flute [(14877) citation]
MPC 56615	-40	For recognised read recognized [(94884) citation]
MPC 57424	-47	For tn read in [(26177) citation]
MPC 57426	23	For nuckei read nuclei [(120141) citation]
MPC 57952	-22	For archeology read archaeology [(117736) citation]

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<i>MPC 58595</i>	– 2	<i>For reserarch read research [(43881) citation]</i>
<i>MPC 58596</i>	–38	<i>For popularization read popularization [(72543) citation]</i>
<i>MPC 58598</i>	16	<i>For practise read practice [(133404) citation]</i>
<i>MPC 59925</i>	–40	<i>For Bauhinia blakeana read Bauhinia × blakeana [(151997) citation]</i>
<i>MPC 60301</i>	44	<i>For objcets read objects [(90818) citation]</i>
<i>MPC 63642</i>	–35	<i>For goddaughter read goddaughter [(171256) citation]</i>
<i>MPC 65121</i>	27	<i>For Libellula angelina read Libellula angelina [(8188) citation]</i>
<i>MPC 65125</i>	42 to 43	<i>For characterised read characterized [(189347) citation]</i>
<i>MPC 65711</i>	43	<i>For quichua read Quichua (Kichwa) [(13115) citation]</i>
<i>MPC 66245</i>	36	<i>For palaeoanthropology read paleoanthropology [(206241) citation]</i>
<i>MPC 67218</i>	–28	<i>For “Dream of space journey” read Dream of space journey [(34088) citation]</i>
<i>MPC 67218</i>	–21	<i>For “Imagination of space journey” read Imagination of space journey [(34123) citation]</i>
<i>MPC 67219</i>	–24 to –23	<i>For specialises read specializes [(156880) citation]</i>
<i>MPC 67220</i>	– 3 to – 4	<i>For “Pimprenelle” was read Pimprenelle was [(184501) citation]</i>
<i>MPC 67220</i>	28	<i>For characterised read characterized [(202787) citation]</i>
<i>MPC 67760</i>	7 to 8	<i>For “Brothers Fascinated by Cosmos” read Space Brothers [(13163) citation]</i>
<i>MPC 67762</i>	–47	<i>For recognised read recognized [(143048) citation]</i>
<i>MPC 69492</i>	15	<i>For “The Narrow Road to the Interior” read The Narrow Road to the Interior [(11288) citation]</i>
<i>MPC 70409</i>	–42	<i>For infomation read information [(22723) citation]</i>
<i>MPC 72200</i>	–11	<i>For Thinopyrum ponticum read Thinopyrum ponticum [(90825) citation]</i>
<i>MPC 72201</i>	41	<i>For demonstration read demonstration [(114659) citation]</i>
<i>MPC 72202</i>	–19	<i>For Star Academy read Star Academy [(213637) citation]</i>
<i>MPC 72991</i>	– 4	<i>For inhabitans read inhabitants [(175017) citation]</i>



MPC 73983	-11	For traveller read traveler [(22440) citation]
MPC 73985	4	For “Bug Jack Barron” read <i>Bug Jack Barron</i> [(186835) citation]
MPC 73985	13	For “Gather, Darkness!” read <i>Gather, Darkness!</i> [(196772) citation]
MPC 73985	30	For “The Legion of Space” and “Darker than you think” read <i>The Legion of Space</i> and <i>Darker Than You Think</i> [(235281) citation]
MPC 73985	43	For “Limbo” read <i>Limbo</i> [(238129) citation]
MPC 73985	-29	For “Safary through Germany” read <i>Die Deutschlandsafari</i> [(249010) citation]
MPC 75105	21	For <i>Lilium japonicum</i> read <i>Lilium japonicum</i> [(173936) citation]
MPC 75105	-37	For “Alinghi” read <i>Alinghi</i> [(214136) citation]
MPC 75351	33	For focusses read focuses [(33929) citation]
MPC 75352	-27	For disadvantaged read disadvantaged [(101902) citation]
MPC 75354	10	For honour read honor [(263251) citation]
MPC 75548	20	For “Tom Corbett, Space Cadet” read <i>Tom Corbett, Space Cadet</i> [(13439) citation]
MPC 75548	37	For “Tom Corbett, Space Cadet” read <i>Tom Corbett, Space Cadet</i> [(13448) citation]
MPC 75548	33	For “Tom Corbett, Space Cadet” read <i>Tom Corbett, Space Cadet</i> [(13441) citation]
MPC 75548	38 to 39	For “Tom Corbett, Space Cadet” read <i>Tom Corbett, Space Cadet</i> [(13446) citation]
MPC 75548	46	For “Tom Corbett, Space Cadet” read <i>Tom Corbett, Space Cadet</i> [(13449) citation]
MPC 75549	14	For Shirakawa=go read <i>Shirakawa-go</i> [(22470) citation]
MPC 75549	- 5	For humour read humor [(170906) citation]
MPC 75549	- 3	For organiser read organizer [(170906) citation]
MPC 75550	17	For Méliés read Méliès [(244932) name]
MPC 75550	19	For Méliés read Méliès [(244932) citation]
MPC 76675	-12	For skilful read skillful [(32931) citation]
MPC 78269	-43	For metres read meters [(8026) citation]
MPC 79104	- 8 to - 7	For ‘The Sleepwalkers: A History of Man’s Changing Vision of the Universe’ read <i>The Sleepwalkers: A History of Man’s Changing Vision of the Universe</i> [(75063) citation]

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<i>MPC 79107</i>	-41 to -40	<i>For the David Letterman Show read The David Letterman Show [(163641) citation]</i>
<i>MPC 79108</i>	-38	<i>For “Gomorrah” read Gomorrah [(278447) citation]</i>
<i>MPC 79912</i>	1	<i>For profesor read professor [(114725) citation]</i>
<i>MPC 79913</i>	-12	<i>For unrivalled read unrivaled [(314988) citation]</i>
<i>MPC 80329</i>	-14 to -13	<i>For “Planet of Storms” read Planet of Storms [(321046) citation]</i>
<i>MPC 81071</i>	1	<i>For discover's read discoverer's [(193158) citation]</i>
<i>MPC 84377</i>	47	<i>For populariser read popularizer [(7101) citation]</i>
<i>MPC 84377</i>	-16	<i>For “Swing Journal” read Swing Journal [(14401) citation]</i>
<i>MPC 84378</i>	36	<i>For artificial read artificial [(217366) citation]</i>
<i>MPC 84378</i>	40	<i>For theatres read theaters [(233893) citation]</i>
<i>MPC 84378</i>	-21	<i>For xkcd read xkcd [(4942) citation]</i>
<i>MPC 85018</i>	-18	<i>For “Ijon Tichy: Raumpilot” read Ijon Tichy: Raumpilot [(343000) citation]</i>
<i>MPC 85018</i>	-16	<i>For “The Star Diaries” read The Star Diaries [(343000) citation]</i>
<i>MPC 85018</i>	-13	<i>For “Analoge Halluzinelle” read Analoge Halluzinelle [(343444) citation]</i>
<i>MPC 85018</i>	-12	<i>For “Ijon Tichy: Raumpilot” read Ijon Tichy: Raumpilot [(343444) citation]</i>
<i>MPC 85018</i>	-11	<i>For “The Star Diaries” read The Star Diaries [(343444) citation]</i>
<i>MPC 85412</i>	-33	<i>For harbour read harbor [(30773) citation]</i>
<i>MPC 85913</i>	-32 to -31	<i>For Calvin and Hobbes read Calvin and Hobbes [(7784) citation]</i>
<i>MPC 85914</i>	-43	<i>For “You Only Live Twice” read You Only Live Twice [(163470) citation]</i>
<i>MPC 86714</i>	27	<i>For J.C. read J. C. [(15413) citation]</i>
<i>MPC 86714</i>	28	<i>For “Life of Captain Cook” read Life of Captain Cook [(15413) citation]</i>
<i>MPC 86714</i>	29	<i>For “Journals of Captain Cook” read Journals of Captain Cook [(15413) citation]</i>
<i>MPC 86714</i>	29	<i>For “Journals of Joseph Banks” read Journals of Joseph Banks [(15413) citation]</i>
<i>MPC 86714</i>	46	<i>For “How Apollo Flew to the Moon” read How Apollo Flew to the Moon [(15858) citation]</i>

MPC 87993	47	For “I promessi sposi” (“The Betrothed”) read <i>I promessi sposi (The Betrothed)</i> [(14103) citation]
MPC 88005	44 to –43	For “The Sky at Night” read <i>The Sky at Night</i> [(316741) citation]
MPC 88760	–30	For “Solaris” (2002) and “Gravity” read <i>Solaris</i> (2002) and <i>Gravity</i> [(22903) citation]
MPC 88761	– 6	For civilisation read civilization [(336177) citation]
MPC 89076	8	For popularising read popularizing [(5625) citation]
MPC 89076	28	For Enlightenment read Enlightenment [(5883) citation]
MPC 89080	44	For Márquez read Márquez [(12353) name]
MPC 89080	47	For Márquez read Márquez [(12353) citation]
MPC 89085	2	For centre read center [(209791) citation]
MPC 89387	–21	For populariser read popularizer [(5845) citation]
MPC 89834	– 3	For “Cosmos: A Spacetime Odyssey” read <i>Cosmos: A Spacetime Odyssey</i> [(70713) citation]
MPC 89836	8 to 9	For “The nine planets” read <i>The Nine Planets</i> [(289608) citation]
MPC 89836	9	For “The twenty-eight constellations” read <i>The Twenty-Eight Constellations</i> [(289608) citation]
MPC 90377	–25	For “To Have and Have Not” read <i>To Have and Have Not</i> [(5107) citation]
MPC 90379	9	For “Jurassic Park” read <i>Jurassic Park</i> [(27425) citation]
MPC 90379	–46	For “Cosmos: A Spacetime Odyssey,” read <i>Cosmos: A Spacetime Odyssey</i> , [(70712) citation]
MPC 90379	–25 to –24	For ‘Speed’, ‘While You Were Sleeping’ and ‘Crash’, and most recently ‘The Heat’ and ‘Gravity’ read <i>Speed, While You Were Sleeping</i> and <i>Crash</i> , and most recently <i>The Heat</i> and <i>Gravity</i> [(78453) citation]
MPC 90845	–11 to –10	For “American Graffiti” and “Star Wars” read <i>American Graffiti</i> and <i>Star Wars</i> [(28600) citation]
MPC 93067	48	For “Seven Samurai” read <i>Seven Samurai</i> [(14843) citation]
MPC 93067	–39	For centred read centered [(15988) citation]

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<i>MPC</i> 93067	–22	<i>For</i> travelled <i>read</i> traveled [(16676) citation]
<i>MPC</i> 93067	– 6	<i>For</i> orthopaedic <i>read</i> orthopedic [(26849) citation]
<i>MPC</i> 93067	– 5	<i>For</i> Universit'e <i>read</i> Université [(26849) citation]
<i>MPC</i> 93068	–40	<i>For</i> 2002-metre <i>read</i> 2002-meter [(221712) citation]
<i>MPC</i> 94384	41	<i>For</i> 'Star Trek' <i>read</i> <i>Star Trek</i> [(4864) citation]
<i>MPC</i> 94384	48	<i>For</i> Stargazing Live <i>read</i> <i>Stargazing Live</i> [(4901) citation]
<i>MPC</i> 94733	– 9	<i>For</i> "QI" <i>read</i> <i>QI</i> [(5190) citation]
<i>MPC</i> 95308	– 2 to – 1	<i>For</i> "The Big Bang Theory" <i>read</i> <i>The Big Bang Theory</i> [(8621) citation]
<i>MPC</i> 95309	4 to 5	<i>For</i> "The Big Bang Theory" <i>read</i> <i>The Big Bang Theory</i> [(8622) citation]
<i>MPC</i> 95309	9 to 10	<i>For</i> "The Big Bang Theory" <i>read</i> <i>The Big Bang Theory</i> [(8623) citation]
<i>MPC</i> 95309	14 to 15	<i>For</i> "The Big Bang Theory" <i>read</i> <i>The Big Bang Theory</i> [(8625) citation]
<i>MPC</i> 95309	19	<i>For</i> "The Big Bang Theory" <i>read</i> <i>The Big Bang Theory</i> [(8626) citation]
<i>MPC</i> 95309	23 to 24	<i>For</i> "The Big Bang Theory" <i>read</i> <i>The Big Bang Theory</i> [(8627) citation]
<i>MPC</i> 95309	28 to 29	<i>For</i> "The Big Bang Theory" <i>read</i> <i>The Big Bang Theory</i> [(8628) citation]
<i>MPC</i> 95309	34	<i>For</i> "The Big Bang Theory" <i>read</i> <i>The Big Bang Theory</i> [(8629) citation]
<i>MPC</i> 95309	38 to 39	<i>For</i> "The Big Bang Theory" <i>read</i> <i>The Big Bang Theory</i> [(8630) citation]
<i>MPC</i> 95309	–27 to –26	<i>For</i> millennium BC <i>read</i> millennium BCE [(13131) citation]
<i>MPC</i> 95311	–17	<i>For</i> belles-lettres <i>read</i> <i>belles-lettres</i> [(209054) citation]
<i>MPC</i> 95312	11	<i>For</i> femme fatale <i>read</i> <i>femme fatale</i> [(287787) citation]
<i>MPC</i> 95312	33	<i>For</i> traveller <i>read</i> traveler [(314163) citation]
<i>MPC</i> 95803	49	<i>For</i> "The Big Bang Theory" <i>read</i> <i>The Big Bang Theory</i> [(8624) citation]
<i>MPC</i> 95804	29	<i>For</i> "Le Monde" <i>read</i> <i>Le Monde</i> [(28248) citation]
<i>MPC</i> 95804	– 4 to – 3	<i>For</i> Atlas of Meteorites <i>read</i> <i>Atlas of Meteorites</i> [(299134) citation]
<i>MPC</i> 97569	20	<i>For</i> "Walking with Prehistoric Beasts" <i>read</i> <i>Walking with Prehistoric Beasts</i> [(90503) citation]

MPC 98711	-41	For Kasuga-city read Kasuga-city [(19160) citation]
MPC 98714	-45 to -44	For “The Moon: Considered as a Planet, a World, and a Satellite” read <i>The Moon: Considered as a Planet, a World, and a Satellite</i> [(95853) citation]
MPC 98715	-35	For Ms. Magazine read <i>Ms. magazine</i> [(249541) citation]
MPC 98715	-12	For Hara-Kiri and Charlie Hebdo read <i>Hara-Kiri and Charlie Hebdo</i> [(293499) citation]
MPC 99354	24	For Jeannoel read Jeannoël [(27724) name]
MPC 99354	26	For Noël read Noël [(27724) citation]
MPC 99354	-19 to -18	For Alpes-de Haute Provence read <i>Alpes-de-Haute-Provence</i> [(181702) citation]
MPC 99354	-18 to -17	For Haute Provence read <i>Haute-Provence</i> [(181702) citation]
MPC 99893	35 to 36	For “Sky-Patching: Chinese Goddess Nüwa” read <i>Sky-Patching: Chinese Goddess Nüwa</i> [(214883) citation]
MPC 99893	42	For “Million Dollar Baby” read <i>Million Dollar Baby</i> [(224693) citation]
MPC 100317	8	For “Kaamelott” read <i>Kaamelott</i> [(236984) citation]
MPC 100606	17	For light-coloured read <i>light-colored</i> [(16690) citation]
MPC 100606	18	For “The Goldfinch” read <i>The Goldfinch</i> [(16690) citation]
MPC 100610	-24	For Hara-Kiri, Charlie Hebdo and Le Canard enchaîné read <i>Hara-Kiri, Charlie Hebdo and Le Canard enchaîné</i> [(320880) citation]
MPC 103024	7	For neighbours read <i>neighbors</i> [(12663) citation]
MPC 103024	24	For Solanaceae read <i>Solanaceae</i> [(16598) citation]
MPC 103968	2	For Frames of Reference read <i>Frames of Reference</i> [(22415) citation]
MPC 103971	21	For 4350-kilometre read <i>4350-kilometer</i> [(100936) citation]
MPC 103971	- 1	For The Legend of Saint Ursula read <i>The Legend of Saint Ursula</i> [(318682) citation]
MPC 105279	-12 to -11	For Lithuanian American read <i>Lithuanian-American</i> [(288960) citation]

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<i>MPC 105279</i>	– 6	<i>For</i> Lithuanian American <i>read</i> Lithuanian-American [(288961) citation]
<i>MPC 106499</i>	–48 to –47	<i>For</i> antropologist <i>read</i> anthropologist [(7175) citation]
<i>MPC 106499</i>	–45	<i>For</i> honours <i>read</i> honors [(7175) citation]
<i>MPC 107122</i>	10 to 11	<i>For</i> “Beyond Beauty: Taiwan from Above” <i>read</i> <i>Beyond Beauty: Taiwan from Above</i> [(281068) citation]
<i>MPC 108697</i>	–25	<i>For</i> Lakmé <i>read</i> <i>Lakmé</i> [(33346) citation]
<i>MPC 109632</i>	–31	<i>For</i> “All Star Comics” <i>read</i> <i>All Star Comics</i> [(101713) citation]
<i>MPC 110615</i>	2	<i>For</i> on early <i>read</i> an early [(18562) citation]
<i>MPC 110615</i>	42	<i>For</i> <i>Clarka Pulchella</i> <i>read</i> <i>Clarkia pulchella</i> [(29210) citation]
<i>MPC 110618</i>	8	<i>For</i> were <i>read</i> where [(63605) citation]
<i>MPC 110635</i>	–24	<i>For</i> Seven Samurai <i>read</i> <i>Seven Samurai</i> [(110408) citation]
<i>MPC 110635</i>	–22	<i>For</i> <i>Gojira</i> (1954) to <i>Chikyu Kogeki Meirei: Gojira tai Gaigan</i> (1972) <i>read</i> <i>Gojira</i> (1954) to <i>Chikyu Kogeki Meirei: Gojira tai Gaigan</i> (1972) [(110408) citation]
<i>MPC 110635</i>	– 6 to – 5	<i>For</i> <i>Dream of the Rarebit Fiend and Little Nemo in Slumberland</i> <i>read</i> <i>Dream of the Rarebit Fiend and Little Nemo in Slumberland</i> [(113461) citation]
<i>MPC 110639</i>	31	<i>For</i> Roaming <i>read</i> “Roaming” [(291855) citation]
<i>MPC 111801</i>	40	<i>For</i> childrens <i>read</i> children's [(136825) citation]
<i>MPC 112432</i>	–36	<i>For</i> centres <i>read</i> centers [(52681) citation]
<i>MPC 114954</i>	– 7	<i>For</i> The French Connection <i>read</i> <i>The French Connection</i> [(55397) citation]
<i>MPC 114954</i>	– 6	<i>For</i> Unforgiven <i>read</i> <i>Unforgiven</i> [(55397) citation]
<i>MPC 128944</i>	23	<i>For</i> an solar panel <i>read</i> a solar panel [(103737) citation]
<i>Bull. 1, #10, 4</i>	– 2	<i>For</i> (meaning “Kagoshima Astronomical Society”) <i>read</i> (Kagoshima Astronomical Society) [(22480) citation]
<i>Bull. 2, #8, 9</i>	– 4	<i>For</i> analyser <i>read</i> analyzer [(33748) citation]

## 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.

### **(24830) Kawanotomoyoshi = 1995 ST<sub>3</sub>**

*Discovery: 1995-09-20 / K. Endate, K. Watanabe / Kitami / 400*

Tomoyoshi Kawano (b. 1956) is a Japanese electrical engineer and amateur astronomer. He likes to develop various kinds of equipment for astronomical observation. He enjoys photographing nebulae and star clusters and is one of the leaders of astrophotography in Fukuoka Prefecture.

### **(24844) Hwanginjoon = 1995 VM<sub>1</sub>**

*Discovery: 1995-11-15 / K. Endate, K. Watanabe / Kitami / 400*

Injoon Hwang (b. 1966) is a Korean amateur astronomer who owns a 0.6-m reflector telescope. He is a member of NADA (Network of Amateur Digital Astrophotography), established in Korea in 2002. He is also known for publishing the first book on astrophotography in Korea.

### **(32197) Judylynnpalmer = 2000 OV**

*Discovery: 2000-07-24 / J. Broughton / Reedy Creek / 428*

Judy Lynn Palmer (b. 1954) is an American biostatistician who has published over 200 peer-reviewed papers and observed 44 eclipses of the Sun. She has run marathons on all seven continents and visited 168 countries in conjunction with eclipse and asteroid occultation expeditions since 1994. She is also an accomplished violinist, pilot and master gardener.

### **(86048) Saint-Tropez = 1999 PP<sub>1</sub>**

*Discovery: 1999-08-09 / P. Pravec, P. Kušnirák / Ondřejov / 557*

Named for the picturesque village in the southeastern France on the coast of the Mediterranean Sea. Name suggested by Patrick Michel, the CNRS Director of Research at the Côte d'Azur Observatory.

### **(120131) MAVEN = 2003 FX<sub>119</sub>**

*Discovery: 2003-03-26 / LONEOS / Anderson Mesa / 699*

MAVEN (launched 2013) is a NASA Mars orbiter with a primary mission to study the Mars atmosphere and its evolution. Shortly after arrival at Mars, C/2013 A1 (Siding Spring) had a close encounter with the planet. MAVEN observed the aftermath of the comet's intense meteor shower, detecting abundant meteoric metals.

**(167855) Natalinistéphane = 2005 ET**

*Discovery: 2005-03-01 / M. Ory / Vicques / 185*

Stéphane Natalini (b. 1969) is an amateur astronomer from Corsica. He has established a popular observatory called Stelle di Corsica in the small village of Erbajolo, near Corte.

**(227147) Coggia Jérôme = 2005 PW<sub>5</sub>**

*Discovery: 2005-08-10 / M. Ory \* / Vicques / 185*

Jérôme Eugène Coggia (1849–1919) was a French astronomer, born in the small village of Coggia, Corsica. He discovered six comets and five asteroids at the Marseille Observatory.

**(227928) Ludoferrière = 2007 GT<sub>1</sub>**

*Discovery: 2007-04-06 / M. Ory \* / Vicques / 185*

Ludovic Ferrière (b. 1982) is a geologist known for his research on and discoveries of new meteorite impact craters on Earth. He is curator of the prestigious meteorite and impactite collections at the Natural History Museum Vienna (Austria) and a senior research fellow at the University of Vienna.

**(249823) Delmarbarker = 2001 FK<sub>219</sub>**

*Discovery: 2001-03-21 / SKADS / Kitt Peak / 695*

Delmar Barker (1941–2023) was an American physicist whose work spanned the spectrum from  $\gamma$  rays to radio frequencies. His 42 patents covered fields ranging from geology to antimatter. His final project was developing a nuclear-powered rocket engine, an endeavor cut short prematurely. His smile and engaging manner were an integral part of his legacy.

**(475696) Fisiocritico = 2006 VY<sub>113</sub>**

*Discovery: 2006-11-13 / L. Tesi, M. Mazzucato \* / San Marcello / 104*

Dedicated to the Academy of Sciences of Siena (also known as the Fisiocritici) founded on 1691 March 17 by Pirro Maria Gabrielli (1643–1705). Among the oldest Italian scientific institutions, it has as its emblem the Touchstone (since ancient times instrument of analysis) and the Lucretian motto ‘Veris quod possit vincere falsa’.

**(520585) Saci = 2014 OA<sub>2</sub>**

*Discovery: 2014-07-23 / SONEAR / SONEAR / Y00*

Saci is a Guarani-Brazilian folklore legend. He is a one-legged prankster, who smokes a pipe and disappears through a dust devil.

**(541575) Mikhailnazarov = 2011 SX<sub>247</sub>**

*Discovery: 2011-09-28 / T. Kryachko, B. Satovski / Zelenchukskaya Stn / 114*

Mikhail A. Nazarov (1949–2016) headed the Laboratory of Meteoritics at the Vernadsky Institute, Russian Academy of Sciences. He was recognized for his research on lunar rocks, meteorites, and cosmochemistry, and he trained many renowned scientists in meteoritics. He held an eminent position in the Committee on Meteorites in Russia.



**(579787) Formentera = 2014 WN<sub>384</sub>**

*Discovery: 2007-12-29 / CSS / Costitx / 703*

The island of Formentera is the fourth largest in the Balearic archipelago and, with the island of Eivissa (Ibiza) and several islets, part of the Pityusic Islands. Formentera is part of the Ses Salines de Eivissa y Formentera Natural Park.

**(588255) Hantang = 2007 TQ<sub>376</sub>**

*Discovery: 2007-09-21 / PMO NEO Survey Program / XuYi / D29*

The Han dynasty and the Tang dynasty (Hantang) are important periods in ancient China, playing an important role in the formation of the Chinese nation and the development of Chinese society. Therefore, the Chinese people are referred to as the Han or Tang people.

**(590464) Helenlawson = 2012 BB<sub>57</sub>**

*Discovery: 2012-01-23 / N. Falla / Mayhill / H06*

Helen Falla née Lawson (1909–2001) was the mother of the discoverer. In the 1930s she worked as the cashier at a fashionable London restaurant frequented by some of the leading politicians and diplomats of the time. From the 1940s onwards she worked as a farm secretary on several large estates including 15 years at Cowdray Park, Sussex, to where she retired.

## 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/2015 XG <sub>422</sub> (PANSTARRS)	<i>MPEC 2023-P35</i>
P/2023 O1 (Siding Spring)	<i>MPEC 2023-O89</i>
P/2023 H6 (LINEAR-Grauer)	<i>MPEC 2023-O88</i>
P/2023 M4 (ATLAS)	<i>MPEC 2023-O51</i>
C/2023 F3 (ATLAS)	<i>MPEC 2023-O43</i>
P/2023 M2 (PANSTARRS)	<i>MPEC 2023-N15</i>
P/2023 M1 (PANSTARRS)	<i>MPEC 2023-M65</i>
C/2023 H5 (Lemmon)	<i>MPEC 2023-M44</i>
C/2023 K1 (ATLAS)	<i>MPEC 2023-L18</i>
C/2023 H3 (PANSTARRS)	<i>MPEC 2023-K195</i>
C/2023 H2 (Lemmon)	<i>MPEC 2023-K122</i>
C/2022 V2 (Lemmon)	<i>MPEC 2023-K121</i>
464P/2014 OL <sub>465</sub> (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>
463P/2018 HT <sub>3</sub> (NEOWISE)	<i>MPEC 2023-J12</i>
P/2022 BV <sub>9</sub> (Lemmon)	<i>MPEC 2023-H240</i>
C/2020 H11 (PANSTARRS-Lemmon)	<i>MPEC 2023-H237</i>
461P/2010 OE <sub>101</sub> = P/2021 LJ <sub>31</sub> (WISE)	<i>MPEC 2023-H227</i>
C/2023 F1 (PANSTARRS)	<i>MPEC 2023-H184</i>
C/2022 JK <sub>5</sub> (PANSTARRS)	<i>MPEC 2023-H180</i>
459P/2010 VH <sub>95</sub> (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)	*	MPEC 2023-F121
C/1951 G1 (Groeneveld)		MPEC 2023-F18
C/2023 E1 (ATLAS)		MPEC 2023-E59
C/2023 A3 (Tsuchinshan-ATLAS)		MPEC 2023-D77
C/2018 S3 (TESS)		MPEC 2023-D54
C/2023 A2 (SWAN)		MPEC 2023-D49
P/2023 B3 (PANSTARRS)		MPEC 2023-D10
P/2021 PE <sub>20</sub> (ATLAS)		MPEC 2023-C66
C/2022 T1 (Lemmon)		MPEC 2023-C52
C/2023 B2 (ATLAS)		MPEC 2023-C44
C/2022 Y2 (Lemmon)		MPEC 2023-B225
P/2023 B1 (PANSTARRS)		MPEC 2023-B118
C/2023 A1 (Leonard)		MPEC 2023-B66
C/2022 Y1 (Hogan)		MPEC 2023-A37
C/2022 W3 (Leonard)		MPEC 2023-A29
C/2022 W2 (ATLAS)		MPEC 2023-A28
454P/2022 U5 = P/2013 W3 (PANSTARRS)		MPEC 2022-W234
P/2022 W1 (Rankin)		MPEC 2022-W159
C/2022 U4 (Bok)		MPEC 2022-W158
453P/2022 V1 = P/2010 BN <sub>109</sub> (WISE-Lemmon)		MPEC 2022-W148
P/2020 MK <sub>4</sub> (PANSTARRS)		MPEC 2022-W78

### Recent Numberings

466P/2015 T3 = P/2023 M3 (PANSTARRS)	MPC 163244
465P/2008 L2 = P/2023 L1 (Hill)	MPC 163244
464P/2014 OL <sub>465</sub> (PANSTARRS)	MPC 163244
463P/2018 HT <sub>3</sub> (NEOWISE)	MPC 163244
462P/2022 M1 = P/2000 OZ <sub>21</sub> (LONEOS-PANSTARRS)	MPC 163244
461P/2010 OE <sub>101</sub> = P/2021 LJ <sub>31</sub> (WISE)	MPC 163244
460P/2016 BA <sub>14</sub> = P/2020 U6 (PANSTARRS)	MPC 162027
459P/2010 VH <sub>95</sub> (Catalina)	MPC 162027
458P/2023 C1 = P/2016 C3 (Jahn)	MPC 162027
457P/2020 O1 = P/2016 N7 (Lemmon-PANSTARRS)	MPC 162027
456P/2021 L4 = P/2012 Q3 (PANSTARRS)	MPC 160359
455P/2017 S9 = P/2011 Q5 = P/2022 R7 (PANSTARRS)	MPC 160359
454P/2022 U5 = P/2013 W3 (PANSTARRS)	MPC 160359
453P/2022 V1 = P/2010 BN <sub>109</sub> (WISE-Lemmon)	MPC 160359
452P/2003 CC <sub>22</sub> = P/2022 B5 (Sheppard-Jewitt)	MPC 158523
451P/2007 A2 = P/2006 WY <sub>182</sub> = P/2022 S2 (Christensen)	MPC 158523
450P/2004 A1 = P/2022 Q3 (LONEOS)	MPC 158523
449P/2020 S6 = P/1987 A2 = P/2013 Y3 (Leonard)	MPC 158523

## 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 24413 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. 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.

