

## **DIVISION III / WG PLANETARY SYSTEM NOMENCLATURE**

### *LA NOMENCLATURE DU SYSTÈME PLANÉTAIRE*

#### **CHAIR MEMBERS**

**Kaare Aksnes**  
**J. Ellen Blue, Juergen Blunck, George A. Burba,**  
**Guy J. Consolmagno, Mikhail Ya. Marov,**  
**Brian G. Marsden, Tobias C. Owen,**  
**Mark S. Robinson, Rita M. Schulz,**  
**Bradford A. Smith, Iwan P. Williams**

### **PROCEEDINGS BUSINESS MEETING on 23 August 2006**

#### **1. Introduction**

The meeting was attended by six from the WG (K. Aksnes, J. Blunck, G. Consolmagno, B. Marsden, R. Schulz, V. Shevchenko) and two from the Task Groups (D. Morrison, J. Watanabe). Also the incoming WG members E. Bowell and R. Courtin, as well as some guests, attended.

The first session was devoted to a review of the nomenclature for which approval was sought from the IAU through Division III. A total of 252 names have in the triennium been approved by the WG: 228 surface features have been named on Venus (33), Moon (8), Mars (83), Itokawa (3), Io (16), Europa (11), Ganymede (3), Callisto (2), Titan (45) and Phoebe (24), and 24 satellites of Jupiter (10), Saturn (5), Uranus (6), Neptune (1) and Pluto (2) have received names. These 252 names and their attributes are listed at the end of this report. The names and some new name categories and descriptor terms are also listed on the website <<http://planetarynames.wr.usgs.gov/>>.

In the second session, new terms of reference (see below) for the WG were discussed and agreed upon, in consultation with the president of Division III. The most important change is that names approved by the WG-PSN no longer need to be labeled 'provisional'. New names will immediately upon approval by the WG be displayed on the mentioned website. Any objections to the names must be forwarded in writing or by e-mail to the Division III which will rule on the objections.

Finally, changes in the membership of the WG were agreed on. Rita Schulz becomes the new WG-PSN chairperson, switching place with Kaare Aksnes on the WG. The new Division III president, Edward Bowell, the new Commission 16 president, Regis Courtin, and the new chairperson of the Outer Solar System Task Group, Rosaly Lopes, replace, respectively, Iwan Williams, Guy Consolmagno and Tobias Owen on the WG. The new membership is listed below.

#### **2. Terms of Reference**

In consultation with Division III, the following new terms of reference have been agreed on for the WG:

1. The IAU Working Group for Planetary System Nomenclature (WG-PSN) is appointed by IAU Division III under similar procedures as Divisional Working Groups (IAU Working Rules 38). It reports to the General Assembly through the president of Division III. For necessary meetings, the Working Group is eligible for travel support from the IAU.

2. The membership of the Working Group includes:
  - a. A chairperson of the WG-PSN and a minimum of eight other members of IAU Division III, including all the chairpersons of the Task Groups (see *g*), representing a diversity of geographical

and cultural backgrounds.

b. The president of Division III. The president may delegate the divisional representation to another Division member.

c. The president of IAU Commission 16 on *Physical Study of Planets and Satellites* or his/her representative.

d. The chairperson of the IAU Committee on *Small Body Nomenclature*, or his/her representative.

e. Additional members up to a maximum of 15, including a maximum of three consultants who possess special expertise but are not IAU members.

f. A member may be in more than one of the above categories.

g. The Working Group may appoint Task Groups of up to eight members, including a chairperson, to assist in the nomenclature work for the various celestial bodies, as the need arises.

### 3. Appointment and terms of service:

The members, including the chairperson, will be appointed for three years at each General Assembly by Division III, upon the advice of the outgoing Working Group. The Working Group may appoint or dismiss Task Group members at any time. Continuity in the work is important, so Working Group and Task Group members are encouraged to serve through several triennia.

### 4. Names and guidelines:

a. The Working Group will develop, maintain, and publish guidelines for naming natural satellites of planets and surface features on all the solar system bodies, based on the established guidelines. Significant changes in the guidelines should be submitted by the Working Group to Division III for discussion and approval before being put into effect. Minor changes may be approved by the Division III president.

b. The Working Group will periodically approve lists of new nomenclature, with accompanying explanatory notes. The names will be made available immediately on approval in an official website for public review. Any objections to these names based on significant, substantive problems must be forwarded in writing or e-mail to the Division III president within three months of the placing of these names on the website. Valid objections do not include personal references of the discoverers or the individuals. Division III will rule on objections.

c. Three months before each General Assembly, the Working Group will submit to the IAU General Secretary, through Division III, a list of all names approved in the immediately preceding three calendar years. The names will be published or referenced in the Proceedings of the General Assembly.

## 3. WG members 2006-2009

R. M. Schulz (chair, the Netherlands). Members: K. Aksnes (Norway), J. Blue (USA), J. Blunck (Germany), E. Bowell (USA), G. A. Burba (Russia), R. Courtin (France), R. M. Lopes (USA), M. Ya. Marov (Russia), B. G. Marsden (USA), M. Robinson (USA), V. V. Shevchenko (Russia), and B. A. Smith (USA).

## 4. New nomenclature

FEATURE NAME	LAT	LOE	DIAM	DESCRIPTION
VENUS				
CHASMA				
Hanwi Chasma	10.5N	247.0E	1800.0	Oglala (Sioux) moon and sky goddess.
CORONAE				
Achall Corona	31.2S	259.6E	265.0	Celtic earth and nature goddess.
Asintmah Corona	25.9N	208.0E	150.0	Athabaskan (W. Canada Subarctic) Earth and nature goddess; the first woman on Earth.
Benzozia Corona	27.5N	204.5E	185.0	Basque mother goddess.
Chanum Coronae	29.2S	245.5E	330.0	Kachin (Tibetan people of Burma/Myanmar) creator goddess.
Embla Coronae	28.9N	205.4E	132.0	Scandinavian Earth goddess, creator of life.
Kulimina Corona	27.8S	261.9E	170.0	Arawakan (Brazil, Venezuela) creator goddess who created women.
Madalait Corona	37.6N	206.4E	150.0	Australian creator goddess; "Creator of life."
Nimba Corona	32.8N	204.5E	88.0	Guinea (West Africa) Earth and mother goddess.

Qakma Corona	35.5N	207.1E	130.0	Bella Coola/Nuxalk (SW Canada) creator of life, the first woman.
Sitapi Coronae	36.5S	246.8E	270.0	Indonesian earth, nature, and creator goddess.
CRATERS				
Clementina	35.9N	208.6E	4.0	Portuguese form of Clementine, French first name.
Denise	14.4S	94.7E	2.0	Greek first name.
Gail	16.1S	97.5E	10.0	Hebrew first name.
Lisa	29.0N	182.0E	4.5	Short form of Elizabeth, Hebrew first name.
LINEA				
Agrona Linea	40.0N	280.0E	2300.0	Welsh goddess of slaughter, destroyer of life.
MONTES				
Ninisinna Mons	25.7N	197.5E	110.0	Mesopotamian goddess of health and healing.
Shala Mons	39.4N	208.0E	90.0	Canaanite (Phoenicia) storm goddess.
Toma Mons	12.9S	232.0E	80.0	Tibetan goddess of intelligence and creativity.
Waka Mons	26.3N	207.7E	60.0	Polynesian lizard goddess.
Xtoh Mons	39.7N	194.2E	110.0	Quiche (Guatemala) goddess of weather and rain.
PATERAE				
Darcle Patera	37.4S	263.8E	15.0	Hariclea; Romanian soprano singer (1860-1939).
Destinnov Patera	31.5S	250.2E	15.0	Ema (pseudonym of Emilia Kittlova); Bohemian/Czech singer, also known as Emmy Destinn (1878-1930).
Dutrieu Patera	33.8N	198.5E	80.0	Helene; Belgian/French pioneer aviatrix (1877-1961).
Garland Patera	32.7N	206.8E	45.0	Judy; American singer and actress (1922-1969).
Lindgren Patera	28.1N	241.4E	110.0	Astrid; Swedish author (1907-2002).
Nikolaeva Patera	33.9N	267.5E	100.0	Olga V.; Russian planetologist/geochemist (1941-2000).
Witte Patera	25.8S	247.6E	35.0	Wilhelmine; German astronomer (1777-1854).
THOLI				
Apakura Tholus	40.3N	205.8E	10.0	Maori (New Zealand) goddess of justice.
Azimua Tholi	34.0S	249.3E	40.0	Sumerian underworld goddess.
Monoshi Tholus	37.7S	252.0E	15.0	Bengal goddess of snakes.
Otohime Tholus	32.0S	268.2E	20.0	Japanese goddess of the arts and beauty.
Wohpe Tholus	41.4N	288.1E	40.0	Lakota goddess of order, beauty, and happiness.
VALLIS				
Ganga Valles	4.8N	53.0E	200.0	Hindu goddess of the sacred river Ganges.
MOON				
CRATERS				
Chawla	42.8S	147.5W	15.0	Kalpana; American astronaut, Space Shuttle Columbia Mission Specialist (1961-2003).
D. Brown	42.0S	147.2W	15.0	David McDowell; American astronaut, Space Shuttle Columbia Mission Specialist (1956-2003).
Husband	40.8S	147.9W	29.0	Rick Douglas; American astronaut, Space Shuttle Columbia Commander (1957-2003).
L. Clark	43.7S	147.7W	16.0	Laurel Blair Salton; American astronaut, Space Shuttle Columbia Mission Specialist (1961-2003).
M. Anderson	41.6S	149.0W	17.0	Michael Phillip; American astronaut, Space Shuttle Columbia Payload Commander (1959-2003).
McCool	41.7S	146.3W	21.0	William Cameron; American astronaut, Space Shuttle Columbia Pilot (1961-2003).
Ramon	41.6S	148.1W	17.0	Ilan; Israeli astronaut, Space Shuttle Columbia Payload Specialist (1954-2003).
Ryder	44.5S	143.2E	17.0	Graham; United Kingdom-born, American geologist (1949-2002).
MARS				
CATENA				
Ophir Catenae	9.6S	59.1W	577.0	Classical albedo feature name.
CAVI				
Amenthes Cavi	16.0N	245.0W	1340.0	Classical albedo feature name.
Boreum Cavus	84.5N	20.5W	50.0	Classical albedo feature name.
Ganges Cavus	10.2S	51.5W	42.3	Classical albedo feature name.
Olympia Cavi	85.0N	178.0W	860.0	Classical albedo feature name.
Ophir Cavus	10.0S	55.1W	36.8	Classical albedo feature name.
Tenuis Cavus	84.7N	0.0W	35.0	Classical albedo feature name.

## CHAOS

Baetis Chaos	0.2S	60.5W	55.0	Classical albedo feature name.
Ganges Chaos	9.7S	46.2W	120.0	Classical albedo feature name.
Iamuna Chaos	0.2S	40.6W	18.0	Classical albedo feature name.
Oxia Chaos	0.2N	39.9W	26.5	Classical albedo feature name.
Xanthe Chaos	11.8N	42.2W	34.0	Classical albedo feature name.

## CHASMATA

Promethei Chasma	82.5S	217.5W	300.0	Classical albedo feature name.
Ultimum Chasma	81.1S	209.9W	350.0	Classical albedo feature name.

## COLLES

Chryse Colles	7.9N	42.1W	60.0	Classical albedo feature name.
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## CRATERS

Bacolor	33.0N	241.4W	20.8	Town in the Philippines.
Beloha	39.5S	303.4W	33.5	Town in Madagascar.
Boola	81.2N	105.8W	17.0	Town in Guinea.
Bronkhorst	10.7S	55.2W	17.9	Town in the Netherlands.
Castril	14.7S	184.8W	2.2	Town in Spain.
Crotone	82.3N	70.0W	6.4	Town in Italy.
Culter	8.8S	54.0W	4.6	Village near Aberdeen, Scotland, also called Peterculter.
Davies	46.0N	0.0W	49.2	Merton Edward; American engineer, planetary geodesist (1917–2001).
Deseado	80.6S	289.7W	27.0	Town in Argentina.
Dilly	13.2N	202.9W	1.3	Town in Mali.
Dokka	77.1N	146.0W	52.5	Town in Norway.
Eberswalde	24.0S	33.3W	65.3	Town in Germany.
Elim	80.1S	263.4W	43.0	Town in South Africa.
Gamboa	40.7N	44.4W	33.0	Town in Panama.
Gratteri	17.7S	160.2W	7.3	Town on the island of Sicily, Italy.
Johnstown	9.8S	51.1W	3.2	Town in Pennsylvania, USA.
Jojutla	81.5N	169.6W	19.0	Town in Mexico.
Jumla	21.3S	273.6W	45.0	Town in Nepal.
Karzok	18.3N	131.9W	15.6	Village in Kashmir.
Katoomba	79.0S	232.5W	53.0	Town in Australia.
Mojave	7.5N	33.1W	58.5	Town in California, USA.
Morella	9.7S	51.4W	78.9	Town in Spain.
Okotoks	21.2S	275.7W	22.6	Town in Alberta, Canada.
Pangboche	17.2N	133.6W	10.4	Village in Nepal.
Persbo	8.5N	203.2W	19.5	Town in Sweden.
Puyo	83.9N	222.4W	10.4	Town in Ecuador.
Saheki	21.7S	286.9W	85.0	Tsuneo; Japanese amateur astronomer (1916–1996).
Somerset	9.7S	51.3W	3.3	Town in Pennsylvania, USA.
Toconao	20.9S	74.8W	17.7	Town in Chile.
Tombaugh	3.5N	198.2W	60.3	Clyde William; American astronomer (1906–1997).
Tomini	16.3N	234.2W	7.4	Town in Indonesia.
Tooting	23.1N	152.4W	27.5	Town in England.
Udzha	81.9N	282.8W	45.0	Village in northern Russia.
Wallula	9.9S	54.4W	12.5	Town in Washington, USA.
Winslow	3.8S	300.8W	1.0	Town in Arizona.
Zumba	28.6S	133.2W	3.3	Town in Ecuador.

## FOSSA

Idaeus Fossae	37.0N	51.9W	235.0	Classical albedo feature name.
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## LABYRINTHUS

Tyrrhenus Labyrinthus	16.0S	258.9W	93.0	Classical albedo feature name.
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## LINGULAE

Australe Lingula	83.8S	289.4W	430.0	Classical albedo feature name.
Hyperborea Lingula	80.0N	53.5W	80.0	Classical albedo feature name.
Promethei Lingula	83.0S	240.0W	560.0	Classical albedo feature name.
Ultima Lingula	76.3S	215.0W	560.0	Classical albedo feature name.

## MENSAE

Abalos Mensa	81.1N	75.6W	130.0	Classical albedo feature name.
Australe Mensa	86.8S	5.0W	200.0	Classical albedo feature name.
Ganges Mensa	7.2S	48.8W	140.0	Classical albedo feature name.
Olympia Mensae	78.4N	236.0W	380.0	Classical albedo feature name.
Tenuis Mensa	81.1N	93.8W	130.0	Classical albedo feature name.

## MONS

Xanthe Montes	18.4N	54.5W	500.0	Classical albedo feature name.
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## PALUS

Cerberus Palus 5.7N 212.1W 480.0 Classical albedo feature name.

## PLANA

Aeolis Planum 0.8S 215.0W 820.0 Classical albedo feature name.  
 Amenthes Planum 3.2N 254.3W 960.0 Classical albedo feature name.  
 Zephyria Planum 1.0S 206.9W 550.0 Classical albedo feature name.

## SCOPULI

Abalos Scopuli 80.7N 75.7W 110.0 Classical albedo feature name.  
 Australe Scopuli 83.5S 115.0W 530.0 Classical albedo feature name.  
 Boreales Scopuli 88.2N 105.0W 850.0 Classical albedo feature name.  
 Gemini Scopuli 81.0N 335.0W 1100.0 Classical albedo feature name.  
 Ultimi Scopuli 77.5S 180.0W 1100.0 Classical albedo feature name.

## SULCUS

Australe Sulci 85.0S 225.0W 400.0 Classical albedo feature name.

## THOLUS

Cerberus Tholi 4.8N 196.1W 600.0 Classical albedo feature name.

## VALLES

Columbia Valles 9.5S 42.9W 94.0 River in Washington, USA.  
 Coogoon Valles 17.3N 21.8W 300.0 River in Australia.  
 Daga Vallis 12.1S 42.3W 70.0 River in Burma.  
 Grjot Valles 15.6N 194.6W 370.0 River in Iceland.  
 Lethe Vallis 4.0N 206.5W 225.0 River in Katmai National Monument, Alaska, USA.  
 Rahway Valles 9.4N 186.2W 500.0 River in New Jersey, USA.  
 Silinka Vallis 9.0N 28.2W 140.0 River in Russia.  
 Vichada Valles 19.6S 271.9W 430.0 River in Colombia.  
 Walla Walla Vallis 9.9S 54.5W 24.0 River in Washington, USA.

## ITOKAWA

## REGIONES

MUSES-C Regio 70.0S 60.0 0.3 MUSES-C, the name of the Hayabusa spacecraft prior to launch.  
 Sagami-hara Regio 80.0N 15.0 0.23 Town in Japan where the Institute of Space and Astronautical Science is located.  
 Uchinoura Regio 40.0N 90.0 0.07 Town in Japan, launch site of the Hayabusa spacecraft.

## IO

## ERUPTIVE CENTER

Thor 39.2N 133.1W 239.4 Norse god of thunder.

## MENSAE

Prometheus Mensa 1.9S 151.9W 184.0 Greek fire god.  
 Tvashtar Mensae 61.6N 119.9W 326.4 Indian sun god and smith who forged the thunderbolt of the thunder god Indra.

## MONTES

Gish Bar Mons 18.6N 87.7W 110.0 Babylonian sun god.  
 Monan Mons 15.2N 104.5W 297.0 Brazilian god who destroyed the world with fire and flood.  
 Pillan Mons 8.8S 246.7W 163.0 Araucanian thunder, fire, and volcano god.

## PATERAE

Ah Peku Patera 10.3N 107.0W 84.0 Mayan thunder god.  
 Chors Patera 68.5N 249.9W 65.0 Slavic sun god.  
 Estan Patera 21.6N 87.7W 95.0 Hittite sun god.  
 Llew Patera 12.2N 242.3W 78.0 Celtic sun god.  
 Rarog Patera 41.7S 304.4W 104.3 Czech fire deity.  
 Reshef Patera 27.7N 158.1W 62.0 Phoenician god of lightning, sun, and thunder.  
 Thomagata Patera 25.7N 165.9W 59.0 Chibcha storm god, a terrifying fire spirit who flew through the air changing men into animals.  
 Vivasvant Patera 75.1N 294.0W 83.2 Hindu god of the morning sun.

## REGIO

Bulicame Regio 34.8N 190.8W 498.0 Hot sulphur spring, the water of which sinful women were permitted to use in "The Inferno."

## VALLIS

Tawhaki Vallis 0.5N 72.8W 190.0 Maori lightning god.

EUROPA

CRATERS

Amaethon 13.8N 177.4W 1.7 Celtic god of agriculture.  
 Bress 37.6N 98.6W 10.0 Beautiful son of Elatha in Celtic mythology.  
 Dagda 37.3N 168.7W 9.8 One of the chief deities of the Tuatha de Danann in Irish mythology.  
 Eochaid 50.4S 233.3W 10.6 King of the Fir Bolgs in Celtic mythology.  
 Gwern 9.1N 344.5W 22.2 Son of Branwen in Celtic mythology.  
 Luchtair 40.2S 257.5W 19.9 Celtic god of carpentry.  
 Lug 27.9N 44.3W 11.0 Irish omniscient god.  
 Midir 3.6N 338.7W 37.4 Gaelic fate and underworld deity.  
 Ogma 87.4N 287.8W 5.0 Celtic god of eloquence and literature, a son of Dagda.  
 Tuag 59.9N 172.3W 15.2 Irish dawn goddess.

LINEA

Yelland Linea 16.7S 196.0W 186.0 Stone row in England.

GANYMEDE

CRATERS

Damkina 30.0S 5.0W 180.0 Babylonian sky and health deity, queen of the gods, and mother of Marduk.  
 Menhit 36.5S 140.5W 140.0 Egyptian lion and war goddess.  
 Saltu 14.2S 352.7W 40.0 Babylonian goddess of discord and hostility.

CALLISTO

CRATER

Debegey 10.2N 166.2W 125.0 Yukagir (NE Siberia) mythological hero, the first man.

FACULA

Kol Facula 4.5N 282.7W 390.0 Icelandic frost or storm giant.

TITAN

ALBEDO FEATURE

Aaru 10.0N 340.0W 0.0 Egyptian abode of the blessed dead.  
 Adiri 10.0S 210.0W 0.0 Melanesian afterworld where life is easier than on Earth.  
 Aztlan 10.0S 20.0W 0.0 Mythical land from which the Aztecs believed they migrated.  
 Belet 5.0S 255.0W 0.0 Malay afterworld reached by a flower-lined bridge.  
 Ching-tu 30.0S 205.0W 0.0 Chinese Buddhist paradise where those who attain salvation will live in unalloyed happiness.  
 Dilmun 15.0N 175.0W 0.0 Sumerian garden of paradise, primeval land of bliss.  
 Fensal 5.0N 30.0W 0.0 In Norse mythology, magnificent mansion of Frigga, to which she invited all married couples who had led virtuous lives on Earth to enjoy each other's company forever.  
 Mezzoramia 70.0S 0.0W 0.0 Oasis of happiness in the African desert, from an Italian legend.  
 Quivira 0.0N 15.0W 0.0 Legendary city in the American Southwest; site of a fabulous treasure sought by Coronado and other explorers.  
 Senkyo 5.0S 320.0W 0.0 Japanese ideal realm of aloofness and serenity, freedom from worldly cares and death.  
 Shangri-la 10.0S 165.0W 0.0 Tibetan mythical land of eternal youth.  
 Tsegihi 40.0S 10.0W 0.0 Navajo sacred place.  
 Xanadu 15.0S 100.0W 3400.0 An imaginary country in Coleridge's "Kubla Khan."

ARCUS

Hotei Arcus 28.0S 79.0W 600.0 One of the seven gods of happiness in Japanese Buddhism. He is the god of contentment, good fortune, cheerfulness, and he is always smiling.

CRATERS

Menrva 20.1N 87.2W 392.0 Etruscan goddess of wisdom.  
 Sinlap 11.3N 16.0W 80.0 Kachin (N. Burma) wise spirit who dwells in the sky and gives wisdom to his worshippers.

FACULAE

Antilia Faculae 11.0S 187.0W 260.0 Archipelago corresponding to the mythical island of

				Antilia, once thought to lie midway between Europe and the Americas.
Bazaruto Facula	11.6N	16.1W	215.0	Mozambique island.
Coats Facula	11.1S	29.2W	80.0	Canadian island.
Crete Facula	9.4N	150.1W	680.0	Greek island.
Elba Facula	10.8S	1.2W	250.0	Italian island.
Kerguelen Facula	5.4S	151.0W	135.0	French subantarctic island.
Mindanao Facula	6.6S	174.2W	210.0	Philippine island.
Nicobar Faculae	2.0N	159.0W	575.0	Indian archipelago.
Oahu Facula	5.0N	166.7W	465.0	Hawaiian island.
Santorini Facula	2.4N	145.6W	140.0	Greek island also known as Thira.
Shikoku Facula	10.4S	164.1W	285.0	Japanese island.
Sotra Facula	12.5S	39.8W	235.0	Norwegian island.
Texel Facula	11.5S	182.6W	190.0	Dutch island.
Tortola Facula	8.8N	143.1W	65.0	Island in the British Virgin Islands.
Vis Facula	7.0N	138.4W	215.0	Croatian island.
LACUS				
Ontario Lacus	72.0S	183.0W	235.0	Lake on the border between Canada and the United States.
LARGE RINGED FEATURE				
Guabonito	10.9S	150.8W	55.0	Taino Indian (Antilles) sea goddess who taught the use of amulets.
Nath	30.5S	7.7W	95.0	Irish goddess of wisdom.
Veles	2.0N	137.3W	45.0	Slavic god of housekeeping wisdom.
MACULAE				
Eir Macula	24.0S	114.7W	145.0	Norse goddess of healing and peace.
Elpis Macula	31.2N	27.0W	500.0	Greek goddess of happiness and hope.
Ganesa Macula	50.0N	87.3W	160.0	Hindu god of good fortune and wisdom.
Omacatl Macula	17.6N	37.2W	225.0	Aztec god of good cheer and lord of banquets.
REGIO				
Tui Regio	20.0S	130.0W	0.0	Chinese goddess of happiness, joy, and water.
VIRGAE				
Bacab Virgae	19.0S	151.0W	485.0	Mayan rain god.
Hobal Virga	35.0S	166.0W	1075.0	Arabian rain god.
Kalseru Virga	36.0S	137.0W	630.0	NW Australian rainbow serpent, bringer of rain.
Perkunas Virgae	27.0S	162.0W	980.0	Lithuanian god of rain, thunder, and lightning.
Shiwanni Virgae	25.0S	32.0W	1400.0	Zuni rain god.
PHOEBE				
CRATERS				
Acastus	9.6N	148.5W	34.0	Argonaut, son of the Thessalian king Pelias, took part in the Calydonian boar hunt.
Admetus	11.4N	39.1W	58.0	Argonaut, founder and king of Pherae in Thessaly.
Amphion	27.0S	1.8W	18.0	Argonaut, son of Hyperasius and Hypso.
Butes	49.6S	292.5W	29.0	Argonaut, son of Teleon, bee-master.
Calais	38.7S	225.4W	31.0	Argonaut, son of Boreas, the north wind.
Canthus	69.6S	342.2W	44.0	Argonaut, son of Kanethos or Cerion, the only member of the expedition to die in combat.
Clytius	46.0N	193.1W	52.0	Argonaut, son of Eurytus, skilled archer who was killed by Apollo for challenging the god to a shooting match.
Erginus	31.6N	337.1W	38.0	Argonaut, son of Neptune, helmsman of the Argo after the death of Tiphys.
Euphemus	31.3S	331.1W	23.0	Argonaut, son of Neptune and Europa.
Eurydamas	61.5S	281.6W	19.0	Argonaut, son of Ctimenus.
Eurytion	30.4S	8.0W	14.0	Argonaut, son of Kenethos or Cerion.
Eurytus	39.7S	177.2W	89.0	Argonaut, son of Mercury and Antianira.
Hylas	7.9N	354.5W	30.0	Argonaut, son of Theiodamas/Theodamas, king of the Dryopes.
Idmon	67.1S	197.8W	61.0	Argonaut, son of Apollo and the nymph Cyrene, or of Abas, a prophet.
Iphitus	27.2S	293.3W	22.0	Argonaut, son of Eurytus, Jason's host during his consultation with the Oracle at Delphi.
Jason	16.2N	317.7W	101.0	The leading argonaut, son of the Thessalian king Aeson, delivered the Fleece.
Mopsus	6.6N	109.1W	37.0	Argonaut, prophesying son of Apollo.
Nauplius	31.5N	241.5W	24.0	Argonaut, son of Neptune and Amyone, or of Klytoneos.
Oileus	77.1S	96.9W	56.0	Argonaut, king of the Locrians, renowned for his courage in battle.

Peleus	20.2N	192.2W	44.0	Argonaut, son of Aeacus, father of Achilles.
Phlias	1.6N	359.1W	14.0	Argonaut, son of Dionysus.
Talaus	52.3S	325.2W	15.0	Argonaut, son of Teleon, or of Bias and Pero.
Telamon	48.1S	92.6W	28.0	Argonaut, son of Aeacus, took part in the Calydonian boar hunt.
Zetes	20.0S	223.0W	29.0	Argonaut, son of Boreas, the north wind.

## CHANGES TO APPROVED NAMES

## VENUS

Breksta Dorsa changed to Breksta Linea

## SATELLITES OF JUPITER

Hegemone	= Jupiter XXXIX	= S/2003 J 8
Mneme	= Jupiter XL	= S/2003 J 21
Aoede	= Jupiter XLI	= S/2003 J 7
Thelxinoe	= Jupiter XLII	= S/2002J 22
Arche	= Jupiter XLIII	= S/2002 J 1
Kallichore	= Jupiter XLIV	= S/2003 J 11
Helike	= Jupiter XLV	= S/2003 J 6
Carpo	= Jupiter XLVI	= S/2003 J 20
Eukelade	= Jupiter XLVII	= S/2003 J 1
Cyllene	= Jupiter XLVIII	= S/2003 J 13

## SATELLITES OF SATURN

Narvi	= Saturn XXXI	= S/2003 S 1
Methone	= Saturn XXXII	= S/2004 S 1
Pallene	= Saturn XXXIII	= S/2004 S 2
Polydeuces	= Saturn XXXIV	= S/2004 S 5
Daphnis	= Saturn XXXV	= S/2005 S 1

## SATELLITES OF URANUS

Francisco	= Uranus XXII	= S/2001 U 3
Margaret	= Uranus XXIII	= S/2003 U 3
Ferdinand	= Uranus XXIV	= S/2001 U 2
Perdita	= Uranus XXV	= S/1986 U 10
Mab	= Uranus XXVI	= S/2003 U 1
Cupid	= Uranus XXVII	= S/2003 U 2

## SATELLITES OF NEPTUNE

Psamathe	= Neptune X	= S/2003 N 1
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## SATELLITES OF PLUTO

Nix	= Pluto II	= S/2005 P 2
Hydra	= Pluto III	= S/2005 P 1

Kaare Aksnes  
*chair of the Working Group*