

10.

30.77	8.9 S	25.78	9.0 VL	30.76	10.6 S
30.82	9.0 S	25.85	9.2 S	Feb 2.75	10.8 S
30.92	9.2 VL	25.92	9.1 VL	14.82	11.0 S
30.92	9.2 VL	26.93	9.1 VL	22.78	11.2 S
Dec 1.82	8.9 S	26.96	9.2 VL	22.85	11.4 M
4.83	8.8 S	27.96	9.2 VL	23.78	11.4 S
6.88	8.8 S	28.00	9.2 VL	23.81	11.3 M
9.79	9.2 S	Jan 2.83	10.3 VL	24.87	11.4 S
13.90	9.1 S	2.84	10.2 VL	25.80	11.3 S
				28.86	11.5 S

1. Pilcher, F., MPB Vol 7, No. 1, 1979 Jul-Sept, p.6

OCULTATION NEWS

Several occultations of stars by some of the brighter minor planets will be occurring in the near future. As has been discussed in previous issues of MPB, carefully timed observations by many observers can yield fairly accurate diameter determinations for the planets involved; secondary occultation events confirmed independently by observers at different stations would constitute strong evidence for the existence of satellites orbiting these planets.

4 VESTA. On 1979 November 23 at about 2h30^m UT minor planet 4 Vesta will occult the star SAO 110541 which is of 3.7 magnitude. The path of this event is expected to cross Canada, and should be more than 540 km wide.

27 EUTERPE. On 1979 December 8 between 5h28^m and 5h44^m UT observers in northeastern Europe will have an opportunity to observe the occultation of the 9.0 magnitude star SAO 77426 by 27 Euterpe. The minor planet and the star will be of nearly equal brightness; their combined brightness will drop by 0.8 magnitude during the event. Duration along the central path should be about 17 seconds.

9 METIS. On 1979 December 11 between 8h05^m and 8h17^m UT the minor planet 9 Metis (then magnitude 10.0) will occult the moderately bright star SAO 80950 (magnitude 6.8), causing a dramatic 3.2 magnitude decline in combined brightness for observers in the eastern Caribbean Sea, western Venezuela, and Colombia. The path width of the event will be somewhat more than 160 km, the diameter of Metis. Observers elsewhere, especially on neighboring islands, Central America, and the southeastern United States should watch for possible secondary occultations which might be caused by possible satellites. (The Recorder will attempt observation in the Virgin Islands).

3 JUNO. On 1979 December 11 about 9^h UT the bright minor planet Juno will occult the 9.0 magnitude star SAO 115946. The exact path has not yet been determined, but will involve eastern Canada to the west coast of the United States. Path width will be more than 240 km. The asteroid is brighter than the star so that reliable detection will probably require photoelectric photometry. Brief secondary events might be observable by experienced visual observers.

48 DORIS. On 1980 January 4, between about 23h05^m and 23h12^m UT planet 48 Doris (then magnitude 11.2) will occult the star SAO 94441 (magnitude 7.7). The path of this occultation begins in Europe, crosses the Atlantic Ocean and eastern Canada, and will terminate near Lake Superior. During the event the brightness of the combined objects will decline dramatically by 3.1 magnitudes for a duration of up to about 15 seconds. Path width will be more than 150 km, the diameter of Doris.

All occultation observations, both positive and

negative should be reported without delay to Dr. David W. Dunham, P.O. Box 488, Silver Spring, Maryland 20907, U.S.A. Please be aware that predictions regarding the paths of these events are often in error by several hundreds of kilometers because of our imperfect knowledge of precise minor planet and star positions. Observers in bordering regions therefore should also attempt observation of these events.

MINOR PLANET NEWS

1977 HA RECOVERED. The Apollo-type asteroid 1977 HA was recovered by C.T. Kowal on exposures with the 122 cm Schmidt telescope at Mt. Palomar made on 1979 June 1 and June 2. At the time the planet was magnitude 19. (Cf. IAU Circular 3371)

1972 RA RECOVERED. The Amor-type asteroid 1972 RA was recovered by E. Helin on exposures made with the 122 cm Schmidt telescope at Palomar Mountain Observatory on 1979 August 23. Further observations of this object were secured by G. Schwartz and C.-Y. Shao at Harvard College Observatory, Agassiz Station on August 31 and September 1. At the time of Helin's observation 1972 RA was estimated to be photographic magnitude 17 or 17½. (Cf. IAU Circular 3398)

1979 QA DISCOVERED. Eleanor Helin discovered this fast-moving asteroidal object on exposures made with the 122 cm Schmidt telescope at Mt. Palomar on 1979 August 22 and 23. Its estimated magnitude was then 18½ to 19. At time of discovery 1979 QA was apparently becoming fainter and drawing away from the Earth. It is unfortunate that more observations over a longer period of time have not been reported.

1979 QB DISCOVERED. On the same plates which revealed 1977 QA Eleanor Helin also found another object in direct motion at opposition, now designated 1977 QB. It is an Amor-type planet with the following orbital elements by Brian G. Marsden:

T = 1979 Sept. 25.005 ET	
Ω = 119.304	e = 0.44299
Δ = 342.155	a = 2.33379 AU
i = 3.381	n° = 0.276446
q = 1.29996 AU	P = 3.57 years

(Cf. IAU Circulars 3401 and 3412)

LONG-LOST PLANET 612 VERONIKA RECOVERED. Lost since its discovery in 1906, the minor planet 612 Veronika has been identified by Brian G. Marsden with six single observations variously reported as 1950 LN, 1962 VB, 1973 RE, 1973 TQ, 1973 UH3 and 1974 XS. At opposition this year (November) Veronika is expected to be magnitude 16.4 photographic, too faint for most amateur telescopes. (Cf. IAU Circular 3411)

DR. KARL REINMUTH

Dr. Karl Reinmuth, who discovered more minor planets than any other person, died on 1979 May 6 at age 87 in Heidelberg. He spent his entire astronomical career there at Königstuhl Observatory from 1912 to 1957, during which time he discovered about 270 planets which have received permanent numbers.

Dr. Reinmuth's first discovery was 796 Sarita on October 15, 1914. He also discovered about one third of the currently numbered Trojan planets, and in 1937 found unnumbered Hermes, now lost, which swept past the Earth at about twice the Moon's distance. A very active observer, he obtained 12,500 precise positions of minor planets measured on Königstuhl photographs -- an enormous achievement before automatic measuring engines and electronic computers!

AN UPDATED ALPHABETICAL LIST OF NAMES OF MINOR PLANETS

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Abstract: An alphabetical list of 1924 minor planet names, including diacritical marks, assigned through 1 March 1979 is presented.

In 1977 (MPB Vo. 4, No. 3, p. 19, 1977 Jan-Mar) this author published a list of names of 1781 minor planets which had been officially named by Jun 1976. Since that time the interest in and pace of minor planet naming has remained at a high level, and 143 additional names have been assigned in the Minor Planet Circulars through 1 March 1979. An updated list of names is now warranted, and is presented here. All diacritical marks, frequently omitted from computerized printout, have been carefully retained.

The author wishes to thank Michel Combes, Paris,

France, for carefully proofreading this list in advance of submission. Dr. Brian G. Marsden has pointed out two names which have been incorrectly spelled in the annual ephemeris volume, and these are corrected here. The name of 1379 was announced in MPC 1252 as "Lomonosowa" at the time the name was first assigned. For many years the alternative spelling "Lomonossova" has been used, but this has been corrected to its originally announced form. For planet 1760 the name has been spelled "Sandia," but the discoverer's letter, in the possession of Dr. Marsden, shows that it should be "Sandra."

677 Aaltje	978 Aidamina	198 Ampella	469 Argentina	1488 Aura
864 Aase	1568 Aisleen	29 Amphitrite	43 Ariadne	700 Auravictrix
1581 Abanderada	1404 Ajax	1065 Amundsenia	1225 Ariane	419 Aurelia
1390 Abastumani	2067 Aksnes	980 Anacostia	1395 Aribeda	1231 Auricula
456 Abnoba	738 Alagasta	270 Anahita	793 Arizona	94 Aurora
151 Abundantia	702 Alauda	824 Anastasia	780 Armenia	63 Ausonia
829 Academia	719 Albert	1173 Anchises	514 Armida	136 Austria
1150 Achaia	1290 Albertine	1296 Andrée	1464 Armisticia	1465 Autonomia
588 Achilles	1909 Alekhin	175 Andromache	774 Armor	1056 Azalea
523 Ada	465 Alekto	1172 Aneas	959 Arne	1501 Baade
330 Adalberta	418 Alemannia	1957 Angara	1100 Arnica	2063 Bacchus
1996 Adams	295 Aletheia	965 Angelica	1018 Arnolda	1814 Bach
525 Adelaide	1194 Aletta	64 Angelina	1304 Arosa	856 Backlunda
812 Adele	54 Alexandra	791 Ani	404 Arsinoë	333 Badenia
647 Adelgunde	1191 Alfaterna	1016 Anitra	1956 Artek	1280 Baillauda
276 Adelheid	1375 Alfreda	1457 Ankara	105 Artemis	1591 Baize
229 Adelinda	1778 Alfvén	265 Anna	2023 Asaph	1491 Balduinus
145 Adeona	1213 Algeria	910 Anneliese	214 Aschera	770 Bali
398 Admete	1394 Algoa	817 Annika	67 Asia	2031 Bam
608 Adolfine	929 Algunde	1943 Anteros	1216 Askania	324 Bamberg
2101 Adonis	291 Alice	129 Antigone	962 Aslög	1286 Banachiewicz
268 Adorea	1567 Alikoski	651 Antikleia	409 Aspasia	1713 Bancilhon
239 Adrastea	887 Alinda	1583 Antiochus	958 Asplinda	597 Bandusia
143 Adria	266 Aline	1863 Antinous	246 Asporina	298 Baptistina
820 Adriana	124 Alkeste	90 Antiope	1041 Asta	234 Barbara
1903 Adzhimushkaj	82 Alkmene	272 Antonia	672 Astarte	1860 Barbarossa
91 Aegina	457 Alleghenia	1294 Antwerpia	1218 Aster	945 Barcelona
96 Aegle	390 Alma	2061 Anza	658 Asteria	1615 Bardwell
159 Aemilia	925 Alphonsina	1388 Aphrodite	233 Asterope	819 Barnardiana
1155 Aenna	971 Alsatia	1862 Apollo	5 Astraea	1703 Barry
396 Aeolia	1617 Alschmitt	358 Apollonia	1128 Astrid	441 Bathilde
369 Aeria	955 Alstede	988 Appella	1154 Astronomia	592 Bathseba
1027 Aesculapia	119 Althaea	1768 Appenzella	1871 Astyanax	172 Baucis
446 Aeternitas	850 Altona	1063 Aquilegia	152 Atala	1553 Bauersfelda
132 Aethra	1169 Alwine	387 Aquitania	36 Atalante	813 Baumeia
1064 Aethusa	650 Amalasuntha	849 Ara	1139 Atami	301 Bavaria
1142 Aetolia	284 Amalia	841 Arabella	111 Ate	656 Beagle
1187 Afra	113 Amalthea	1157 Arabia	2062 Aten	1043 Beate
1193 Africa	725 Amanda	1087 Arabis	515 Athalia	83 Beatrice
911 Agamemnon	1085 Amaryllis	407 Arachne	230 Athamantis	1349 Bechuana
228 Agathe	1035 Amata	1005 Arago	730 Athanasia	1896 Beer
1873 Agenor	1042 Amazone	973 Aralia	881 Athene	1815 Beethoven
47 Aglaja	1905 Ambartsumian	1020 Arcadia	161 Athor	943 Begonia
641 Agnes	193 Ambrosia	1031 Arctica	1827 Atkinson	1474 Beira
847 Agnia	986 Amelia	394 Arduina	1198 Atlantis	1052 Belgica
645 Agrippina	916 America	1502 Arenda	810 Atossa	178 Belisana
1800 Aguilar	516 Amherstia	737 Arequipa	273 Atropos	1074 Beljawskya
744 Aguntina	367 Amicitia	197 Arete	1138 Attica	695 Bella
950 Ahrensa	871 Amneris	95 Arethusia	254 Augusta	1808 Bellerophon
861 Aida	1221 Amor	1551 Argelander	1480 Aunus	28 Bellona