

## No. 11 CONSOLIDATED CATALOG OF SELENOGRAPHIC POSITIONS

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June 19, 1962

**T**HIS consolidated catalog of 4510 selenographic positions is a direct result of my cooperation with E. A. Whitaker in the compilation of the *Orthographic Atlas* (1960).

Up to now, cartographers of the lunar surface have been obliged to take some of their positions from the catalog of Franz (1913), and others from the catalog of Saunder (1911), while the corrected designations come from the catalog (1935a) of Blagg and Müller. The points are identified by means of the so-called *International Map* (1935b), also compiled by Blagg and Müller. This multiplicity of sources is itself a great inconvenience. In addition to this, our gridding operations soon revealed numerous mistakes in the catalogs of Franz and of Blagg and Müller, together with utter confusion in certain areas of the *International Map*. These latter are due to errors by Franz in his identifications of lettered points, compounded with errors by Blagg and Müller in their identification of the point measured by Franz. These remarks are not in any way intended to be criticisms. They merely explain the necessity for a thorough examination of the existing positional data in order to weed out the various mistakes which have been incorporated into the catalogs.

Even with the help of the orthographic grid, it has not been easy to ensure that our catalog is relatively free from mistakes. The Franz list contains a relatively large proportion of computing mistakes and misprints, some of which can be checked since they arise merely in the derivation of mean values. Others we can only suspect. Many of the Franz points could not be found on the photographs; some had photographic positions inconsistent with the applied grids while others were found to be too

vague to serve as fiducial points. In all, some 288 Franz points were rejected.

Saunder's values proved to be very much more reliable. Even so, some Saunder points which were measured on one plate only were rejected, either because they could not be found, or because the nature of the object was found to be different from that noted by Saunder. For example, Saunder measured the west rim of the central crater of Timocharis as a peak, instead of observing the central crater itself. The observed feature is not good enough for a fiducial point. Only one computing error was found in Saunder and this indicates a remarkable standard of reliability. In all, 35 Saunder points were rejected.

The purpose of this catalog is cartographic and in cartography relative accuracy is in some measure more important than absolute accuracy. Therefore, when both Franz and Saunder measured the same point I have accepted the Saunder values. Furthermore I have frequently meant the Franz values with values taken from my own unpublished lists, when my own measures were made on glass copies. On a few occasions I have replaced the Franz positions with my own.

The work revealed numerous errors in the map and catalog of Blagg and Müller and on occasion these led us into considerable difficulties. For example, in the Brisbane area these authorities wrongly identified on the photographs the crater measured by Franz and as a result their map of this region is so confused and distorted that identifications are difficult. There are other examples of this type of mistake. In other cases the Franz position contained a misprint of a degree in one coordinate, undetected

by Blagg and Müller, so that the entire region of the map around this point is out of drawing. Furthermore Blagg and Müller themselves made mistakes in converting the Franz longitudes and latitudes to map coordinates and a few fictitious crater positions arose in this way.

In the older selenographic literature, positions were stated as longitudes and latitudes. Saunder introduced the more convenient standard direction-cosines  $\xi$ ,  $\eta$ ,  $\zeta$ , and I have followed him in this. The conversion of the Franz longitudes and latitudes to direction-cosines was performed by Miss Ruth Horvath. The computations were performed to 5 figures but subsequently all coordinates were rounded to 4 places as the fifth place is without significance.

The designations are taken from Blagg and Müller's catalog, but the errors in this have imposed a few changes. For example, the catalog lists two craters with the designation Christian Mayer E and we have changed the designation of one of these to Christian Mayer F. In one other case Caucasus L has received a new designation because it is a peak and not a crater.

The reference is an important feature of the present catalog. This is a 5-digit number depending on the position of the point. The first digit represents the quadrant, 1, 2, 3, or 4. The second and fourth digits are the first and second digits of the  $\xi$  coordinate, while the third and fifth digits are the first and second digits of the  $\eta$  coordinate. For example, for the crater Lilius J the  $\xi$  and  $\eta$  values are:

$$+ .0173, - .8319,$$

and truncated to two places these are:

$$+ .01, - .83,$$

so the reference is 40813. In this case the sign combination indicates that the point is in the fourth quadrant and so the first digit is 4. The advantages of this type of reference, when the points are arranged in ascending order of reference, is that points which are close together on the lunar surface are usually near each other in the catalog. In any case the disk is covered systematically in  $0.1 \times 0.1$  squares.

On occasion two or more points receive the same 5-figure reference and they are then distinguished by the addition of the Roman letters A, B, C . . . etc.

The arrangement of the catalog is described briefly as follows: Column 1 gives the reference. If this is prefixed by # then the point was measured by Franz although his coordinate values are not

used here. An asterisk indicates some remark, to be found in Appendix I. Column 2 gives the designation, while column 3 gives the reference in the Blagg and Müller catalog. Columns 4, 5 and 6 give the adopted values of the standard direction-cosines, rounded to 4 places. Note that the signs are at the heads of the columns. Since all values are less than unity the decimal points have been omitted. Column 7 gives the authority for the position, the sources Franz, Saunder, Arthur, being indicated by the abbreviations Fr., Sa., Ar., respectively.

Column 8, headed by the symbol *M*, gives the number of measures. For photographic measures it represents the number of plates, while for micrometric or heliometer measures it represents the number of complete sets or evenings. *M* thus gives a rough indication of the reliability of the position. As a general rule a single measure by Saunder has the same weight as the mean of two or three observations by Franz. My own positions, which have been added to fill in the gaps in the Franz-Saunder net are good enough for cartography but should not be used when the highest accuracy is required.

Column 9 gives the diameter in units of 0.001 of the moon's radius. These diameters are taken from a diameter survey currently in progress at the Lunar and Planetary Laboratory. When the measured object is a peak this is indicated by placing (P) in the diameter column. Central peaks are indicated by the abbreviation (CP), while spots, or objects which were measured as spots, are indicated by (s). Central peaks which are otherwise anonymous are indicated by writing (CP) in the designation column and the diameter of the crater in parentheses in the diameter column. The remaining conventions are of a very obvious nature.

The main body of the catalog is followed by six appendices. Appendix I gives brief notes about some peculiarities of the measured points. Appendix II lists the Saunder points rejected from the catalog, while Appendix III lists the Saunder points in order with cross-referencing to the present catalog. Appendix IV lists the rejected Franz points and Appendix V lists the Franz points with cross-reference to this catalog. Appendix VI gives the measured points in alphabetic order. Thus whether one starts with the position, designation, Franz reference, or Saunder reference, the measured point is readily found in the present catalog.

The positions of this catalog are termed selenographic (and not selenodetic) because they have all been computed as if the observed points were on a smooth sphere. Therefore it will be appreciated

that the positions are subject to certain errors. These errors are very small in the central regions of the disk but may be appreciable near the limb. Despite this the Franz-Saunders net must, for the present, remain the basis for contemporary lunar cartography.

*Acknowledgments.*— I wish to record my thanks, first to Dr. G. P. Kuiper for making the compilation of this catalog possible, to Mr. E. A. Whitaker for his information concerning mistakes and misprints in the catalogs of Franz and Saunders, and to my assistants Alice Fabe, Ruth Horvath, Charles Wood and Patricia Mitchell, for their unflagging enthusiasm in what must have been a most tedious task.

The work was supported by the National Aeronautics and Space Administration under Grant No.

NsG 161-61 and the Air Force under Contract AF 19(604)8064.

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CONSOLIDATED CATALOG OF SELENOGRAPHIC POSITIONS

1

| Ref.   | Designation   | B&M  | ξ <sub>+</sub> | η <sub>+</sub> | ζ <sub>+</sub> | Authority | M | Diam. |
|--------|---------------|------|----------------|----------------|----------------|-----------|---|-------|
| #10002 | Bruce         | 857  | 0070           | 0204           | 9998           | Sa.1377   | 6 | 3.8   |
| #10016 | Chladni       | 865  | 0198           | 0696           | 9974           | Sa.1421   | 6 | 7.8   |
| 10022  | Blagg         | 855  | 0259           | 0214           | 9994           | Sa.1445   | 4 | 3.1   |
| 10049  | Friesnecker E | 852a | 0436           | 0967           | 9944           | Sa.1500   | 4 | 2.8   |
| #10067 | Friesnecker   | 846  | 0631           | 0729           | 9953           | Sa.1560   | 6 | 14.9  |
| 10087  | Friesnecker F | 852b | 0842           | 0716           | 9939           | Sa.1627   | 1 | 2.0   |
| #10093 | Rhaeticus A   | 834  | 0906           | 0303           | 9954           | Sa.1649   | 6 | 6.5   |
| 10102  | Pallas N      | 1229 | 0088           | 1223           | 9925           | Sa.1382   | 3 | 3.3   |
| 10105  | Ukert E       | 882  | 0073           | 1559           | 9878           | Sa.1379   | 4 | 3.0   |
| 10123  | Ukert         | 879  | 0240           | 1344           | 9906           | Fr. 147   | 5 | 14.0  |
| 10125  | Ukert A       | 880  | 0235           | 1517           | 9881           | Sa.1436   | 4 | 5.7   |
| 10179  | Hyginus D     | 871  | 0743           | 1976           | 9775           | Sa.1597   | 2 | 2.7   |
| 10183  | Hyginus B     | 869  | 0880           | 1324           | 9873           | Sa.1641   | 3 | 3.4   |
| 10191  | Hyginus A     | 867  | 0985           | 1102           | 9890           | Sa.1679   | 2 | 4.7   |
| #10279 | Manilius F    | 800  | 0786           | 2915           | 9534           | Sa.1611   | 3 | 4.9   |
| 10328  |               |      | 0297           | 3803           | 9244           | Sa.1455   | 1 | 2.4   |
| #10336 | Conon         | 891  | 0321           | 3692           | 9288           | Sa.1464   | 5 | 12.4  |
| 10338  |               |      | 0371           | 3847           | 9223           | Sa.1477   | 2 | 2.5   |
| 10373  | Conon A       | 892  | 0723           | 3365           | 9389           | Sa.1589   | 3 | 3.7   |
| #10387 | Aratus A      | 896  | 0807           | 3739           | 9239           | Sa.1617   | 4 | 5.8   |
| 10395  |               |      | 0932           | 3518           | 9314           | Sa.1657   | 1 | 3.0   |
| *10429 | Autolycus B   | 909b | 0243           | 4932           | 8696           | Sa.1437   | 1 | 3.3   |
| 10442  |               |      | 0442           | 4298           | 9019           | Sa.1502   | 3 | 3.4   |
| #10470 | Aratus        | 895  | 0725           | 4002           | 9136           | Sa.1590   | 5 | 6.1   |
| 10470A | Aratus α      | 901  | 0711           | 4066           | 9109           | Sa.1582   | 1 | (P)   |

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| Ref.   | Designation  | B&M  | ξ <sub>+</sub> | η <sub>+</sub> | ζ <sub>+</sub> | Authority | M | Diam. |
|--------|--------------|------|----------------|----------------|----------------|-----------|---|-------|
| 10476  | Hadley B     | 897a | 0734           | 4659           | 8818           | Sa.1594   | 2 | 5.0   |
| 10480  |              |      | 0868           | 4095           | 9082           | Sa.1636   | 2 | 4.0   |
| 10492  | Aratus β     | 902  | 0964           | 4223           | 9013           | Sa.1671   | 2 | (P)   |
| 10515  | Aristillus   | 917  | 0179           | 5572           | 8302           | Sa.1416   | 1 | 31.8  |
| 10521  | Autolycus    | 909  | 0224           | 5102           | 8598           | Sa.1426   | 1 | 22.5  |
| 10531  | Autolycus A  | 909a | 0326           | 5136           | 8574           | Sa.1465   | 2 | 2.1   |
| 10565  | Aristillus A | 917a | 0660           | 5533           | 8304           | Sa.1572   | 3 | 2.6   |
| 10581  |              |      | 0808           | 5176           | 8518           | Sa.1618   | 1 | 1.8   |
| 10619  | Cassini K    | 947  | 0174           | 6962           | 7177           | Sa.1412   | 2 | (P)   |
| 10626  |              |      | 0280           | 6678           | 7439           | Sa.1452   | 2 | 2.3   |
| 10646  | Cassini M    | 936  | 0492           | 6602           | 7495           | Sa.1515   | 6 | 5.0   |
| 10654  | Cassini B    | 931  | 0518           | 6424           | 7646           | Sa.1525   | 5 | 5.5   |
| 10657  |              |      | 0550           | 6728           | 7378           | Sa.1537   | 3 | 3.2   |
| 10659  | Cassini L    | 935a | 0554           | 6936           | 7182           | Sa.1538   | 3 | 3.6   |
| 10661  | Theaetetus β | 925  | 0678           | 6109           | 7888           | Sa.1576   | 1 | (P)   |
| #10664 | Cassini A    | 930  | 0632           | 6492           | 7580           | Sa.1561   | 5 | 9.8   |
| 10680  | Theaetetus   | 923  | 0843           | 6016           | 7943           | Sa.1628   | 3 | 14.3  |
| 10695  | Cassini F    | 934  | 0957           | 6541           | 7504           | Sa.1667   | 4 | 4.1   |
| 10696  | Cassini λ    | 949a | 0907           | 6665           | 7400           | Sa.1650   | 1 | (P)   |
| 10698  | Cassini E    | 933  | 0932           | 6812           | 7262           | Sa.1658   | 3 | 6.3   |
| 10706  | Protagoras E | 985b | 0064           | 7600           | 6499           | Sa.1375   | 2 | 3.6   |
| 10720  |              |      | 0231           | 7042           | 7096           | Sa.1434   | 2 | 2.4   |
| 10750  | Cassini K    | 936b | 0502           | 7084           | 7040           | Sa.1518   | 2 | 1.8   |
| 10756  | Trouvelot H  | 968d | 0507           | 7644           | 6428           | Sa.1521   | 2 | 2.8   |
| 10760  | Cassini G    | 935  | 0677           | 7026           | 7083           | Sa.1575   | 3 | 2.9   |

| Ref.   | Designation   | B&M   | ξ <sub>+</sub> | η <sub>+</sub> | ζ <sub>+</sub> | Authority | M | Diam. |
|--------|---------------|-------|----------------|----------------|----------------|-----------|---|-------|
| #10765 | Trouvelot     | 968   | 0658           | 7578           | 6492           | Sa.1570   | 4 | 5.2   |
| 10778  | Egede G       | 968a  | 0744           | 7868           | 6127           | Sa.1598   | 3 | 3.8   |
| #10797 | Egede B       | 966   | 0984           | 7713           | 6288           | Sa.1678   | 4 | 4.3   |
| 10829  | W. Bond D     | 987b  | 0250           | 8949           | 4456           | Sa.1441   | 3 | 3.7   |
| 10840  |               |       | 0451           | 8004           | 5977           | Sa.1506   | 2 | 2.4   |
| 10841  |               |       | 0403           | 8163           | 5763           | Sa.1490   | 2 | 2.2   |
| 10844  |               |       | 0497           | 8430           | 5356           | Sa.1516   | 1 | 2.0   |
| #10845 | Archytas      | 971   | 0453           | 8552           | 5163           | Sa.1507   | 5 | 18.2  |
| 10853  | Protagoras B  | 985a  | 0548           | 8322           | 5518           | Sa.1536   | 2 | 2.6   |
| #10872 | Protagoras    | 985   | 0714           | 8280           | 5561           | Sa.1584   | 4 | 12.5  |
| 10907  |               |       | 0027           | 9765           | 2156           | Sa.1359   | 1 | 8.0   |
| #10909 | Gloja         | 1018  | 0038           | 9931           | 1176           | Sa.1364   | 1 | 24.0  |
| 10917  |               |       | 0117           | 9717           | 2360           | Fr. 540   | 3 | 13.0  |
| #10924 | Barrow A      | 1006  | 0225           | 9431           | 3317           | Sa.1427   | 3 | 15.4  |
| 10928  | Main          | 1016  | 0284           | 9875           | 1549           | Fr. 503   | 2 | 30.5  |
| 10928A | Challis       | 1015  | 0294           | 9835           | 1786           | Fr. 502   | 2 | 32.0  |
| 10933  |               |       | 0369           | 9355           | 3515           | Sa.1476   | 1 | 3.1   |
| #10950 | W. Bond B     | 987   | 0554           | 9061           | 4193           | Sa.1539   | 4 | 8.9   |
| #10951 | W. Bond C     | 987a  | 0592           | 9108           | 4086           | Sa.1548   | 3 | 4.1   |
| #10957 | Scoresby      | 1013  | 0521           | 9776           | 2040           | Sa.1527   | 5 | 32.1  |
| 10958  | Scoresby M    | 1014b | 0509           | 9887           | 1410           | Fr. 388   | 2 | 5.9   |
| 10958A | Scoresby L    | 1014a | 0570           | 9885           | 1404           | Fr. 387   | 2 | 7.2   |
| 10959  | Scoresby N    | 1014c | 0504           | 9906           | 1272           | Fr. 389   | 2 | 5.8   |
| #10978 | Scoresby A    | 1014  | 0763           | 9857           | 1503           | Ar.       | 1 | 20.9  |
| 11001  | Rhaeticus D   | 835a  | 1078           | 0149           | 9941           | Sa.1711   | 2 | 4.2   |
| 11006  | Triesnecker D | 856   | 1038           | 0608           | 9927           | Sa.1699   | 3 | 3.5   |

| Ref.   | Designation | B&M  | ξ <sub>+</sub> | η <sub>+</sub> | ζ <sub>+</sub> | Authority | M | Diam. |
|--------|-------------|------|----------------|----------------|----------------|-----------|---|-------|
| 11011  |             |      | 1119           | 0172           | 9936           | Sa.1722   | 1 | 3.4   |
| #11012 | Rhaeticus B | 835  | 1189           | 0281           | 9925           | Sa.1740   | 4 | 3.4   |
| 11015  | Dembowski A | 825a | 1129           | 0527           | 9922           | Sa.1727   | 3 | 3.1   |
| 11041  | Godin D     | 831a | 1437           | 0170           | 9895           | Sa.1832   | 3 | 3.0   |
| 11042  | Godin C     | 831  | 1463           | 0270           | 9889           | Sa.1842   | 1 | 2.5   |
| 11048  | Agrippa E   | 827b | 1467           | 0897           | 9851           | Sa.1846   | 1 | 2.8   |
| 11051  |             |      | 1534           | 0175           | 9880           | Sa.1867   | 1 | 2.2   |
| #11064 | Godin A     | 829  | 1679           | 0468           | 9847           | Sa.1914   | 5 | 5.4   |
| 11071  | Godin B     | 830  | 1707           | 0129           | 9853           | Sa.1929   | 5 | 6.9   |
| 11097  | Agrippa F   | 827c | 1972           | 0756           | 9774           | Sa.2002   | 1 | 3.7   |
| 11103  | Hyginus     | 866  | 1086           | 1352           | 9849           | Fr. 69    | 5 | 6.1   |
| 11109  | Hyginus G   | 870b | 1017           | 1904           | 9764           | Sa.1686   | 2 | 2.2   |
| 11120  | Hyginus H   | 870c | 1217           | 1036           | 9871           | Sa.1751   | 2 | 2.0   |
| 11143  | Hyginus C   | 870  | 1437           | 1338           | 9805           | Sa.1831   | 3 | 2.8   |
| 11143A | Hyginus F   | 870a | 1484           | 1392           | 9791           | Sa.1850   | 1 | 2.6   |
| 11145  | Hyginus E   | 868  | 1467           | 1521           | 9774           | Sa.1845   | 2 | 2.0   |
| 11157  | Boscovich B | 810b | 1582           | 1701           | 9726           | Sa.1884   | 3 | 2.8   |
| 11160  | Agrippa B   | 826  | 1637           | 1080           | 9806           | Sa.1898   | 1 | 2.1   |
| 11185  | Boscovich α | 814  | 1836           | 1595           | 9700           | Fr. 23    | 5 | (P)   |
| #11212 | Manilius D  | 798  | 1188           | 2289           | 9662           | Sa.1739   | 3 | 3.0   |
| 11228  | Manilius B  | 796  | 1217           | 2859           | 9505           | Sa.1750   | 2 | 3.2   |
| 11254  | Manilius    | 794  | 1529           | 2499           | 9561           | Sa.1866   | 4 | 22.2  |
| 11266  | Manilius G  | 801a | 1635           | 2666           | 9498           | Sa.1896   | 3 | 3.0   |
| #11270 | Manilius C  | 797  | 1757           | 2093           | 9620           | Sa.1944   | 3 | 4.1   |
| 11280  | Manilius K  | 801c | 1898           | 2071           | 9597           | Sa.1984   | 1 | 1.9   |

| Ref.   | Designation    | B&M  | ξ<br>+ | η<br>+ | ζ<br>+ | Authority | M | Diam. |
|--------|----------------|------|--------|--------|--------|-----------|---|-------|
| 11298  |                |      | 1946   | 2821   | 9395   | Sa.1994   | 1 | 1.9   |
| 11303  |                |      | 1037   | 3386   | 9352   | Sa.1697   | 3 | 3.4   |
| 11340  | Manilius H     | 801b | 1429   | 3056   | 9414   | Sa.1826   | 1 | 1.9   |
| 11344  | Sulp. Gall. M  | 607  | 1425   | 3484   | 9264   | Sa.1825   | 1 | 2.7   |
| 11346  | Sulp. Gall. ζ  | 611a | 1448   | 3671   | 9189   | Sa.1839   | 1 | (P)   |
| 11347  | Sulp. Gall. A  | 606a | 1442   | 3753   | 9156   | Sa.1835   | 1 | 2.4   |
| #11350 | Manilius A     | 795  | 1510   | 3027   | 9411   | Sa.1857   | 2 | 5.2   |
| 11363  |                |      | 1697   | 3395   | 9252   | Sa.1923   | 1 | 3.2   |
| #11393 | Sulp. Gallus   | 606  | 1906   | 3356   | 9225   | Sa.1986   | 4 | 7.0   |
| 11402  | Hadley A       | 897  | 1039   | 4226   | 9003   | Sa.1701   | 4 | 3.3   |
| 11407  | Cape Fresnel φ | 793a | 1070   | 4781   | 8718   | Sa.1710   | 3 | (P)   |
| 11431  |                |      | 1362   | 4121   | 9009   | Sa.1801   | 2 | 2.2   |
| 11450  | Aratus C       | 899  | 1501   | 4074   | 9008   | Sa.1856   | 2 | 2.2   |
| #11486 | Linné          | 629  | 1809   | 4649   | 8667   | Sa.1961   | 4 | 1.2   |
| 11490  |                |      | 1980   | 4030   | 8936   | Sa.2006   | 1 | 1.5   |
| 11505  | Caucasus ξ     | 772  | 1024   | 5532   | 8268   | Sa.1689   | 1 | (P)   |
| *11532 | Caucasus λ     | 785  | 1323   | 5214   | 8430   | Sa.1784   | 1 | (P)   |
| 11545  | Caucasus η     | 781  | 1424   | 5525   | 8213   | Sa.1824   | 1 | (P)   |
| 11548  | Calippus B     | 750  | 1415   | 5885   | 7960   | Sa.1821   | 3 | 4.3   |
| 11559  | Calippus D     | 750a | 1580   | 5922   | 7901   | Sa.1882   | 2 | 2.1   |
| *11560 | Linné C        | 633  | 1605   | 5060   | 8475   | Sa.1888   | 1 | (P)   |
| 11588  | Linné G        | 635b | 1861   | 5854   | 7891   | Sa.1975   | 2 | 2.6   |
| 11595  | Linné H        | 635a | 1976   | 5551   | 8080   | Sa.2005   | 2 | 1.8   |
| 11600  | Calippus A     | 749  | 1097   | 6021   | 7909   | Sa.1716   | 4 | 9.0   |
| #11606 | Cassini C      | 932  | 1013   | 6654   | 7396   | Sa.1685   | 5 | 7.9   |

| Ref.   | Designation   | B&M  | ξ<br>+ | η<br>+ | ζ<br>+ | Authority          | M      | Diam. |
|--------|---------------|------|--------|--------|--------|--------------------|--------|-------|
| 11667  | Lamèch        | 729  | 1671   | 6792   | 7147   | Sa.1909            | 4      | 7.6   |
| 11668  | Eudoxus D     | 730  | 1664   | 6862   | 7081   | Sa.1905            | 4      | 5.5   |
| 11694  | Alexander B   | 746b | 1991   | 6458   | 7371   | Sa.2011            | 1      | 2.3   |
| 11695  | Alexander A   | 746a | 1947   | 6525   | 7324   | Sa.1995            | 1      | 2.4   |
| 11695A |               |      | 1975   | 6581   | 7266   | Sa.2003            | 1      | 2.3   |
| 11716  | Egede E       | 968b | 1168   | 7619   | 6371   | Sa.1736            | 1      | 2.2   |
| 11717  |               |      | 1185   | 7755   | 6202   | Ar.                | 1      | 2.3   |
| #11718 | Egede A       | 965  | 1133   | 7824   | 6124   | Sa.1729            | 4      | 7.2   |
| 11727  |               |      | 1296   | 7749   | 6186   | Ar.                | 1      | 2.1   |
| 11736  |               |      | 1392   | 7609   | 6338   | Ar.                | 1      | 2.6   |
| 11738  | Egede F       | 968c | 1335   | 7870   | 6024   | Sa.1791            | 2      | 2.3   |
| #11746 | Egede C       | 967  | 1439   | 7673   | 6249   | Sa.1833            | 3      | 3.1   |
| 11763  |               |      | 1649   | 7384   | 6539   | Ar.                | 1      | 2.3   |
| 11773  | Aristoteles D | 724a | 1716   | 7365   | 6543   | Sa.1930            | 2      | 3.4   |
| 11786  | Aristoteles ζ | 710a | 1883   | 7641   | 6170   | Sa.1982            | 1      | (P)   |
| 11790  |               |      | 1985   | 7057   | 6802   | Sa.2008            | 1      | 3.8   |
| 11796  | Aristoteles   | 710  | 1907   | 7676   | 6120   | Fr. 325            | 2,1    | 50.2  |
| 11796A | Aristoteles θ | 710b | 1920   | 7648   | 6150   | Sa.1990            | 1      | (P)   |
| 11810  |               |      | 1147   | 8070   | 5794   | Sa.1732            | 1      | 2.0   |
| 11823  |               |      | 1259   | 8300   | 5433   | Ar.                | 1      | (P)   |
| 11833  |               |      | 1373   | 8358   | 5316   | Ar.                | 1      | (P)   |
| 11837  | C. Mayer E    | 697a | 1335   | 8761   | 4632   | Sa.1792            | 3      | 6.8   |
| #11839 | C. Mayer      | 697  | 1342   | 8933   | 4289   | Sa.1795            | 2      | 21.9  |
| 11839A | C. Mayer ζ    | 700a | 1339   | 8920   | 4317   | {Fr. 304<br>Ar. 1} | 3<br>1 | (CP)  |
| 11843  | Sheepshanks ε | 705  | 1412   | 8345   | 5326   | Sa.1819            | 1      | (P)   |

| Ref.    | Designation   | B&M  | ξ<br>+ | η<br>+ | ζ<br>+ | Authority           | M   | Diam. |
|---------|---------------|------|--------|--------|--------|---------------------|-----|-------|
| #11845  | Sheepshanks   | 698  | 1495   | 8588   | 4900   | Sa.1854             | 5   | 14.1  |
| *11858  | C. Mayer F    | 699b | 1571   | 8830   | 4423   | Sa.1880             | 4   | 3.8   |
| #11863  | Sheepshanks C | 700  | 1687   | 8381   | 5188   | Sa.1918             | 5   | 6.0   |
| 11866   | Sheepshanks A | 698a | 1625   | 8652   | 4744   | Sa.1892             | 3   | 3.8   |
| 11872   | Galle B       | 725b | 1703   | 8235   | 5412   | Sa.1925             | 3   | 4.2   |
| 11872A  |               |      | 1718   | 8207   | 5450   | Sa.1932             | 2   | 3.4   |
| 11876   | Sheepshanks B | 698b | 1781   | 8681   | 4634   | Sa.1951             | 2   | 2.8   |
| *11880  |               |      | 1842   | 8092   | 5579   | Ar.                 | 1   | (P)   |
| 11880A  | Aristoteles γ | 714  | 1801   | 8060   | 5638   | Sa.1957             | 1   | (P)   |
| 11896   | Kane F        | 696a | 1992   | 8622   | 4658   | Sa.2012             | 4   | 4.1   |
| 11899   | Kane          | 696  | 1985   | 8914   | 4074   | Ar.                 | 1   | 31.4  |
| 11904   | Meton B       | 991  | 1001   | 9472   | 3046   | Sa.1681             | 2   | 3.6   |
| 11907   | Euctemon H    | 999f | 1055   | 9709   | 2150   | {Fr. 385<br>Ar. 31} | 3   | 9.0   |
| *11908  |               |      | 1098   | 9806   | 1625   | Ar.                 | 1   | 39.7  |
| *11908A |               |      | 1002   | 9866   | 1288   | Ar.                 | 1   | 57.4  |
| 11916   |               |      | 1162   | 9698   | 2145   | Ar.                 | 1   | 4.0   |
| 11918   | Euctemon J    | 999c | 1102   | 9842   | 1389   | Fr. 382             | 3   | 37.2  |
| 11919   |               |      | 1145   | 9919   | 0548   | Ar.                 | 1   | 26.4  |
| 11927   | Euctemon      | 997  | 1215   | 9721   | 2007   | Fr. 381             | 3,2 | 35.7  |
| 11936   |               |      | 1373   | 9681   | 2095   | Ar.                 | 1   | 4.3   |
| 11938   | Euctemon G    | 999e | 1302   | 9808   | 1455   | Fr. 384             | 2   | 5.3   |
| 11938A  | Euctemon F    | 999d | 1322   | 9844   | 1159   | Fr. 383             | 2   | 12.6  |
| 11938B  |               |      | 1389   | 9851   | 1015   | Ar.                 | 1   | 5.4   |
| 11940   |               |      | 1478   | 9095   | 3886   | Ar.                 | 1   | (P)   |
| 11945   | Meton A       | 989  | 1486   | 9575   | 2472   | Ar.                 | 1   | 8.2   |

| Ref.   | Designation    | B&M  | ξ<br>+ | η<br>+ | ζ<br>+ | Authority | M | Diam. |
|--------|----------------|------|--------|--------|--------|-----------|---|-------|
| #11947 | Euctemon D     | 999b | 1409   | 9744   | 1752   | Sa.1818   | 1 | 11.4  |
| 11947A | Euctemon C     | 998a | 1498   | 9703   | 1901   | Fr. 466   | 2 | 11.5  |
| 11947B |                |      | 1470   | 9793   | 1393   | Ar.       | 1 | 2.6   |
| 11951  |                |      | 1544   | 9195   | 3615   | Ar.       | 1 | 5.2   |
| 11952  | Neison         | 990  | 1566   | 9287   | 3362   | Ar.       | 1 | 30.5  |
| #11956 | Baillaud E     | 999a | 1585   | 9625   | 2203   | Sa.1885   | 2 | 8.2   |
| *11957 |                |      | 1531   | 9771   | 1476   | Ar.       | 1 | 21.5  |
| 11958  |                |      | 1546   | 9878   | 0200   | Ar.       | 1 | 63.0  |
| 11958A |                |      | 1580   | 9820   | 1034   | Ar.       | 1 | 9.9   |
| 11958B |                |      | 1551   | 9876   | 0245   | Ar.       | 1 | 9.0   |
| 11965  | Baillaud B     | 999  | 1603   | 9563   | 2445   | Ar.       | 1 | 10.0  |
| 11966  | Baillaud       | 998  | 1621   | 9645   | 2086   | Ar.       | 1 | 51.5  |
| 11972  |                |      | 1734   | 9232   | 3429   | Ar.       | 1 | 5.1   |
| 11982  | Peters         | 695  | 1838   | 9276   | 3253   | Ar.       | 1 | 8.8   |
| 11991  | Moigno         | 683  | 1943   | 9158   | 3516   | Ar.       | 1 | 21.0  |
| 11991A | Moigno C       | 685  | 1976   | 9131   | 3566   | Fr. 327   | 3 | 5.3   |
| 11996  |                |      | 1989   | 9686   | 1493   | Ar.       | 1 | 11.4  |
| 12012  | Godin E        | 831b | 2144   | 0292   | 9763   | Sa.2068   | 3 | 2.3   |
| 12019  | Silberschlag E | 820a | 2197   | 0907   | 9713   | Sa.2095   | 1 | 2.0   |
| 12031  | D'Arrest B     | 562b | 2355   | 0171   | 9717   | Sa.2146   | 1 | 2.9   |
| 12033  | D'Arrest A     | 562a | 2359   | 0340   | 9712   | Sa.2148   | 2 | 2.4   |
| #12037 | Whewell        | 560  | 2372   | 0728   | 9687   | Sa.2156   | 4 | 7.8   |
| 12040  | Theon Senior B | 3650 | 2442   | 0031   | 9697   | Sa.2182   | 4 | 3.3   |
| 12048  | Whewell A      | 560a | 2436   | 0822   | 9664   | Sa.2181   | 1 | 2.0   |
| 12048A | Whewell B      | 560b | 2492   | 0873   | 9645   | Sa.2196   | 1 | 1.9   |

| Ref.   | Designation              | B&M  | $\xi$<br>+ | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|--------|--------------------------|------|------------|-------------|--------------|-----------|---|-------|
| 12055  | De Morgan                | 559  | 2569       | 0580        | 9647         | Sa.2230   | 4 | 5.9   |
| #12058 | Ariadaeus B              | 565  | 2592       | 0853        | 9620         | Sa.2239   | 2 | 5.0   |
| #12066 | Cayley                   | 561  | 2602       | 0689        | 9631         | Sa.2242   | 5 | 8.2   |
| 12068  |                          |      | 2671       | 0860        | 9598         | Sa.2263   | 1 | 1.8   |
| 12088  |                          |      | 2860       | 0833        | 9546         | Sa.2312   | 1 | 1.8   |
| #12094 | Dionysius                | 553  | 2973       | 0486        | 9535         | Sa.2345   | 5 | 10.1  |
| #12097 | Ariadaeus                | 563  | 2965       | 0795        | 9517         | Sa.2342   | 2 | 6.4   |
| 12098  | Ariadaeus D              | 565a | 2917       | 0853        | 9527         | Sa.2328   | 1 | 2.3   |
| #12110 | Silberschlag             | 816  | 2161       | 1083        | 9704         | Sa.2077   | 5 | 7.7   |
| 12116  | Boscovich A              | 810a | 2160       | 1644        | 9625         | Sa.2075   | 4 | 3.7   |
| 12119  | Julius Caesar $\epsilon$ | 584  | 2196       | 1949        | 9559         | Sa.2094   | 1 | (P)   |
| #12122 | Silberschlag A           | 819  | 2272       | 1208        | 9663         | Sa.2126   | 5 | 4.0   |
| 12136  | Julius Caesar B          | 579a | 2379       | 1696        | 9564         | Sa.2162   | 2 | 3.9   |
| 12162  | Julius Caesar C          | 579b | 2628       | 1270        | 9565         | Sa.2248   | 2 | 3.0   |
| 12182  | Julius Caesar D          | 579c | 2822       | 1252        | 9512         | Sa.2303   | 3 | 2.8   |
| 12194  | Sosigenes B              | 573a | 2930       | 1452        | 9450         | Sa.2332   | 1 | 2.0   |
| #12195 | Sosigenes                | 572  | 2990       | 1514        | 9422         | Sa.2347   | 4 | 10.2  |
| 12229  | Menelaus A               | 604  | 2215       | 2934        | 9300         | Sa.2102   | 4 | 3.9   |
| 12245  | Menelaus C               | 595a | 2421       | 2556        | 9360         | Sa.2175   | 1 | 2.3   |
| 12251  | Julius Caesar $\zeta$    | 584a | 2529       | 2114        | 9441         | Sa.2213   | 1 | (P)   |
| 12263  |                          |      | 2664       | 2349        | 9348         | Sa.2259   | 1 | 1.9   |
| 12268  | Menelaus                 | 591  | 2638       | 2801        | 9230         | Sa.2249   | 4 | 15.5  |
| 12272  | Menelaus D               | 595b | 2733       | 2288        | 9343         | Sa.2277   | 1 | 2.5   |
| 12273  | Menelaus $\alpha$        | 596  | 2795       | 2394        | 9298         | Sa.2296   | 1 | (P)   |
| 12310  | Sulp. Gall. B            | 605  | 2138       | 3089        | 9268         | Sa.2066   | 3 | 4.2   |

| Ref.   | Designation       | B&M  | $\xi$<br>+ | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|--------|-------------------|------|------------|-------------|--------------|-----------|---|-------|
| 12320  |                   |      | 2256       | 3093        | 9238         | Sa.2118   | 1 | 2.0   |
| 12326  | Bessel F          | 627a | 2225       | 3622        | 9051         | Sa.2108   | 1 | (s)   |
| 12334  |                   |      | 2380       | 3454        | 9078         | Sa.2163   | 1 | (s)   |
| 12336  | Bessel G          | 627b | 2369       | 3605        | 9022         | Sa.2154   | 2 | (s)   |
| 12344  |                   |      | 2427       | 3423        | 9077         | Sa.2179   | 1 | (s)   |
| #12353 | Bessel E          | 627  | 2506       | 3356        | 9081         | Sa.2200   | 4 | 3.7   |
| #12387 | Bessel            | 619  | 2857       | 3700        | 8840         | Sa.2309   | 5 | 9.1   |
| #12418 | Linné A           | 631  | 2170       | 4838        | 8479         | Sa.2080   | 3 | 2.4   |
| 12454  | Linné E           | 628  | 2528       | 4469        | 8581         | Sa.2212   | 4 | 3.3   |
| 12458  | Linné D           | 634  | 2577       | 4800        | 8386         | Sa.2234   | 2 | 2.8   |
| #12503 | Linné F           | 635  | 2034       | 5342        | 8205         | Sa.2027   | 4 | 2.9   |
| #12510 | Linné B           | 632  | 2108       | 5075        | 8355         | Sa.2052   | 4 | 2.9   |
| 12637  |                   |      | 2390       | 6703        | 7026         | Ar.       | 1 | 2.2   |
| 12654  |                   |      | 2515       | 6492        | 7178         | Sa.2205   | 1 | 2.3   |
| 12657  | Eudoxus $\eta$    | 738a | 2527       | 6704        | 6976         | Sa.2209   | 1 | (P)   |
| 12659  | Eudoxus E         | 730a | 2580       | 6990        | 6669         | Sa.2236   | 1 | 3.0   |
| 12665  | Alexander $\beta$ | 747a | 2693       | 6513        | 7095         | Sa.2265   | 1 | (P)   |
| 12683  | Plana $\gamma$    | 646b | 2881       | 6337        | 7180         | Sa.2318   | 1 | (P)   |
| 12692  | Luther $\zeta$    | 474  | 2902       | 6248        | 7249         | Sa.2323   | 1 | (P)   |
| 12692A | Plana $\epsilon$  | 646d | 2966       | 6266        | 7207         | Sa.2343   | 1 | (P)   |
| 12693  | Plana $\beta$     | 646c | 2909       | 6383        | 7127         | Sa.2325   | 1 | (P)   |
| 12693A | Plana $\delta$    | 646a | 2903       | 6313        | 7192         | Sa.2324   | 1 | (P)   |
| 12701  | Eudoxus B         | 728  | 2085       | 7148        | 6676         | Sa.2045   | 3 | 4.6   |
| 12714  | Mitchell B        | 721b | 2199       | 7482        | 6260         | Sa.2097   | 3 | 3.2   |
| 12715  | Mitchell A        | 721a | 2141       | 7533        | 6219         | Sa.2067   | 2 | 3.2   |



| Ref.   | Designation   | B&M  | ξ<br>+ | η<br>+ | ζ<br>+ | Authority | M | Diam. |
|--------|---------------|------|--------|--------|--------|-----------|---|-------|
| 12721  | Eudoxus G     | 732  | 2260   | 7116   | 6653   | Sa.2120   | 4 | 4.1   |
| 12722  |               |      | 2252   | 7247   | 6512   | Ar.       | 1 | 1.9   |
| 12727  |               |      | 2229   | 7727   | 5944   | Sa.2110   | 1 | 2.3   |
| #12731 | Eudoxus A     | 727  | 2393   | 7169   | 6548   | Sa.2167   | 5 | 8.1   |
| 12742  |               |      | 2416   | 7266   | 6432   | Ar.       | 1 | 2.2   |
| 12742A |               |      | 2449   | 7296   | 6385   | Ar.       | 1 | 3.2   |
| 12743  | Mitchell E    | 723  | 2489   | 7389   | 6261   | Sa.2194   | 4 | 4.8   |
| 12748  |               |      | 2483   | 7835   | 5696   | Ar.       | 1 | 2.2   |
| 12764  |               |      | 2613   | 7439   | 6151   | Ar.       | 1 | 2.2   |
| 12766  |               |      | 2673   | 7686   | 5812   | Ar.       | 1 | 3.7   |
| 12779  | Aristoteles N | 723a | 2721   | 7968   | 5396   | Sa.2272   | 2 | 3.0   |
| 12785  |               |      | 2813   | 7509   | 5975   | Ar.       | 1 | 2.3   |
| 12806  |               |      | 2029   | 8651   | 4587   | Sa.2025   | 1 | 3.4   |
| #12812 | Galle         | 725  | 2131   | 8269   | 5205   | Sa.2064   | 4 | 12.1  |
| 12814  |               |      | 2100   | 8469   | 4886   | Ar.       | 1 | 2.3   |
| #12815 | Democritus C  | 679  | 2188   | 8587   | 4635   | Sa.2087   | 4 | 5.9   |
| 12817  | Kane A        | 696b | 2190   | 8760   | 4297   | Sa.2089   | 1 | 2.9   |
| 12820  | Galle A       | 725a | 2227   | 8079   | 5456   | Sa.2109   | 2 | 3.2   |
| #12824 | Galle C       | 722  | 2207   | 8454   | 4864   | Sa.2100   | 5 | 6.5   |
| 12825  |               |      | 2288   | 8546   | 4662   | Ar.       | 1 | 1.8   |
| 12835  |               |      | 2357   | 8548   | 4624   | Ar.       | 1 | 1.9   |
| #12836 | Democritus B  | 678  | 2389   | 8660   | 4393   | Sa.2166   | 4 | 7.0   |
| 12839  | Democritus D  | 679a | 2360   | 8900   | 3901   | Sa.2150   | 1 | 4.3   |
| 12845  |               |      | 2485   | 8513   | 4621   | Ar.       | 1 | 1.9   |
| 12854  |               |      | 2527   | 8447   | 4718   | Ar.       | 1 | 1.9   |

| Ref.   | Designation   | B&M  | ξ<br>+ | η<br>+ | ζ<br>+ | Authority          | M | Diam. |
|--------|---------------|------|--------|--------|--------|--------------------|---|-------|
| #12857 | Democritus A  | 677  | 2553   | 8791   | 4025   | Sa.2226            | 2 | 6.0   |
| 12866  |               |      | 2656   | 8647   | 4264   | Ar.                | 1 | (P)   |
| #12868 | Democritus    | 676  | 2671   | 8856   | 3801   | Sa.2262            | 2 | 22.5  |
| 12869  |               |      | 2682   | 8955   | 3551   | Ar.                | 1 | 3.1   |
| 12870  | Aristoteles M | 724  | 2723   | 8029   | 5304   | Sa.2273            | 4 | 4.0   |
| #12874 | Gärtner F     | 672b | 2705   | 8429   | 4652   | Sa.2269            | 3 | 8.1   |
| 12884  |               |      | 2814   | 8462   | 4525   | Sa.2301            | 1 | 2.7   |
| #12895 | Gärtner D     | 672a | 2917   | 8518   | 4352   | Sa.2327            | 2 | 4.5   |
| 12897  | Gärtner A     | 670  | 2997   | 8718   | 3874   | Ar.                | 1 | 8.2   |
| 12899  |               |      | 2951   | 8921   | 3422   | Ar.                | 1 | 3.9   |
| #12902 | Arnold G      | 689a | 2008   | 9228   | 3289   | Sa.2019            | 3 | 6.1   |
| #12910 | Moigno A      | 685a | 2112   | 9048   | 3697   | Sa.2054            | 4 | 9.2   |
| #12912 | Arnold F      | 689b | 2199   | 9234   | 3146   | Sa.2098            | 1 | 6.0   |
| 12915  | Arnold H      | 689f | 2118   | 9542   | 2115   | {Fr. 337<br>Ar. 1} | 3 | 7.3   |
| 12915A | Arnold D      | 689e | 2164   | 9589   | 1836   | Fr. 338            | 2 | 9.3   |
| 12915B |               |      | 2124   | 9582   | 1916   | Ar.                | 1 | 5.1   |
| 12921  | Arnold J      | 689d | 2274   | 9122   | 3408   | Sa.2127            | 1 | 3.6   |
| 12924  |               |      | 2258   | 9407   | 2532   | Ar.                | 1 | 10.4  |
| 12926  |               |      | 2247   | 9669   | 1208   | Ar.                | 1 | 4.8   |
| 12927  |               |      | 2234   | 9728   | 0616   | Ar.                | 1 | 4.1   |
| 12931  | Arnold        | 686  | 2311   | 9194   | 3183   | Fr. 326            | 2 | 54.6  |
| *12936 |               |      | 2318   | 9670   | 1058   | Ar.                | 1 | 3.3   |
| *12940 | Arnold C      | 689c | 2406   | 9093   | 3396   | Sa.2170            | 1 | 3.2   |
| 12945  | Petermann E   | 694c | 2416   | 9533   | 1814   | Sa.2173            | 1 | 7.6   |

| Ref.    | Designation | B&M  | ξ<br>+ | η<br>+ | ζ<br>+ | Authority | M | Diam. |
|---------|-------------|------|--------|--------|--------|-----------|---|-------|
| 12946   |             |      | 2464   | 9690   | 0173   | Ar.       | 1 | 6.0   |
| 12956   | Petermann   | 694  | 2503   | 9621   | 1086   | Fr. 333   | 3 | 42.5  |
| 12956A  | Petermann A | 694a | 2597   | 9656   | 0078   | Fr. 334   | 5 | 9.0   |
| 12964   | Petermann C | 694c | 2668   | 9482   | 1722   | Fr. 336   | 2 | 7.7   |
| 12965   | Petermann B | 694b | 2662   | 9550   | 1305   | Fr. 335   | 2 | 6.1   |
| #12970  | Schwabe G   | 681  | 2778   | 9097   | 3088   | Sa.2287   | 3 | 8.5   |
| 12972   |             |      | 2765   | 9260   | 2571   | Ar.       | 1 | 16.6  |
| *12983  |             |      | 2807   | 9370   | 2078   | Ar.       | 1 | 5.1   |
| 12994   |             |      | 2927   | 9424   | 1619   | Ar.       | 1 | 14.2  |
| 12994A  | Cusanus A   | 675a | 2988   | 9433   | 1448   | Fr. 331   | 2 | 9.9   |
| #12995  | Cusanus     | 675  | 2916   | 9507   | 1054   | Ar.       | 1 | 36.3  |
| *12995A |             |      | 2948   | 9513   | 0900   | Ar.       | 1 | 5.1   |
| 13002   | Dionysius A | 553a | 3033   | 0294   | 9525   | Sa.2358   | 1 | 1.9   |
| 13007   | Ariadaeus F | 565c | 3085   | 0757   | 9481   | Sa.2369   | 1 | 1.9   |
| 13008   | Ariadaeus A | 564  | 3002   | 0812   | 9504   | Sa.2350   | 2 | 4.8   |
| #13021  | Schmidt     | 552  | 3220   | 0169   | 9466   | Sa.2412   | 5 | 6.6   |
| 13023   | Ritter      | 542  | 3287   | 0348   | 9438   | Sa.2439   | 1 | 17.8  |
| 13024   | Ritter C    | 544  | 3231   | 0480   | 9452   | Sa.2419   | 3 | 7.9   |
| 13025   | Ritter B    | 543  | 3242   | 0569   | 9443   | Sa.2422   | 2 | 8.0   |
| 13026   | Ritter D    | 545  | 3210   | 0640   | 9449   | Sa.2406   | 4 | 4.1   |
| 13028   | Manners A   | 537a | 3263   | 0811   | 9418   | Sa.2432   | 1 | 1.9   |
| 13030   | Sabine α    | 541  | 3375   | 0058   | 9413   | Sa.2465   | 1 | (P)   |
| 13032   | Sabine A    | 540a | 3332   | 0217   | 9426   | Sa.2452   | 1 | 2.1   |
| 13042   | Sabine      | 540  | 3431   | 0239   | 9390   | Sa.2489   | 1 | 17.4  |
| #13047  | Manners     | 537  | 3411   | 0799   | 9366   | Sa.2482   | 5 | 8.7   |

| Ref.   | Designation | B&M  | ξ<br>+ | η<br>+ | ζ<br>+ | Authority | M | Diam. |
|--------|-------------|------|--------|--------|--------|-----------|---|-------|
| 13056  | Arago B     | 536a | 3547   | 0602   | 9330   | Sa.2517   | 4 | 3.8   |
| 13066  | Arago C     | 536b | 3655   | 0679   | 9283   | Sa.2550   | 1 | 1.9   |
| 13072  | Sabine B    | 540b | 3763   | 0247   | 9262   | Sa.2572   | 1 | 2.0   |
| 13081  | Sabine C    | 540c | 3895   | 0177   | 9209   | Sa.2606   | 1 | 1.9   |
| 13085  |             |      | 3860   | 0538   | 9209   | Sa.2599   | 1 | 1.8   |
| 13109  | Maclear A   | 535a | 3031   | 1959   | 9326   | Sa.2357   | 1 | 2.7   |
| 13110  |             |      | 3166   | 1092   | 9423   | Sa.2391   | 1 | 2.1   |
| #13113 | Sosigenes A | 573  | 3142   | 1351   | 9397   | Sa.2385   | 4 | 6.8   |
| 13122  | Sosigenes C | 573b | 3226   | 1258   | 9382   | Sa.2414   | 2 | 1.9   |
| #13138 | Maclear     | 535  | 3381   | 1827   | 9232   | Sa.2471   | 2 | 11.6  |
| 13139  | Ross B      | 533  | 3380   | 1973   | 9202   | Sa.2470   | 3 | 3.5   |
| 13160  | Arago       | 536  | 3630   | 1074   | 9256   | Sa.2542   | 2 | 15.0  |
| 13167  | Ross H      | 534e | 3655   | 1778   | 9137   | Sa.2551   | 1 | 2.8   |
| 13172  | Arago D     | 536c | 3783   | 1202   | 9179   | Sa.2577   | 1 | 2.6   |
| 13184  | Arago E     | 536d | 3817   | 1482   | 9123   | Sa.2584   | 2 | 2.6   |
| 13189  | Ross E      | 534b | 3899   | 1916   | 9007   | Sa.2609   | 1 | 2.5   |
| 13203  | Auwers A    | 594a | 3051   | 2382   | 9221   | Sa.2363   | 3 | 4.3   |
| 13208  |             |      | 3059   | 2825   | 9092   | Sa.2365   | 1 | 1.9   |
| 13210  | Ross C      | 534  | 3179   | 2013   | 9265   | Sa.2396   | 4 | 2.8   |
| #13218 | Tacquet     | 587  | 3149   | 2859   | 9051   | Sa.2387   | 4 | 4.0   |
| #13234 | Tacquet A   | 592  | 3355   | 2476   | 9090   | Sa.2462   | 4 | 7.2   |
| 13243  | Tacquet C   | 593a | 3498   | 2328   | 9074   | Sa.2508   | 3 | 3.2   |
| 13260  | Ross        | 531  | 3628   | 2025   | 9096   | Sa.2541   | 2 | 15.1  |
| 13266  | Plinius δ   | 523a | 3608   | 2642   | 8944   | Sa.2531   | 1 | (P)   |
| #13281 | Ross D      | 534a | 3863   | 2177   | 8963   | Sa.2601   | 4 | 5.2   |

| Ref.    | Designation         | B&M  | $\xi$<br>+ | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|---------|---------------------|------|------------|-------------|--------------|-----------|---|-------|
| 13286   | Plinius             | 520  | 3866       | 2646        | 8835         | Sa.2602   | 3 | 24.8  |
| #13286A | Plinius $\beta$     | 522  | 3877       | 2640        | 8832         | Sa.2603   | 2 | (P)   |
| 13292   | Plinius A           | 520a | 3989       | 2245        | 8891         | Sa.2624   | 1 | 2.3   |
| #13326  | Deseilligny         | 623  | 3278       | 3601        | 8734         | Sa.2437   | 4 | 3.8   |
| 13403   | Bessel H            | 627c | 3080       | 4331        | 8471         | Sa.2367   | 1 | 2.0   |
| #13405  | Bessel D            | 625  | 3016       | 4587        | 8359         | Sa.2352   | 4 | 3.3   |
| #13419  | Posidonius N        | 488  | 3115       | 4949        | 8112         | Sa.2374   | 4 | 4.2   |
| #13421  | Bessel A            | 622  | 3252       | 4183        | 8481         | Sa.2427   | 4 | 4.4   |
| 13483   | Le Monnier B        | 509b | 3858       | 4320        | 8152         | Sa.2598   | 1 | 2.9   |
| 13515   | Luther $\alpha$     | 491a | 3133       | 5529        | 7721         | Sa.2379   | 1 | (P)   |
| 13518   | Posidonius H        | 490c | 3131       | 5879        | 7459         | Sa.2378   | 4 | 4.1   |
| #13544  | Luther              | 491  | 3421       | 5469        | 7641         | Sa.2487   | 5 | 5.5   |
| 13560   | Posidonius $\gamma$ | 470  | 3642       | 5001        | 7857         | Ar.       | 1 | (P)   |
| 13577   | Posidonius G        | 490b | 3755       | 5700        | 7308         | Sa.2570   | 2 | 2.6   |
| 13584   | Posidonius F        | 490a | 3827       | 5413        | 7487         | Sa.2588   | 4 | 3.4   |
| #13585  | Posidonius P        | 490  | 3854       | 5529        | 7388         | Sa.2596   | 4 | 8.7   |
| 13604   | Plana E             | 645b | 3039       | 6497        | 6969         | Sa.2359   | 3 | 3.6   |
| 13610   |                     |      | 3141       | 6078        | 7293         | Sa.2384   | 1 | 2.0   |
| 13613   |                     |      | 3178       | 6376        | 7018         | Sa.2395   | 1 | (P)   |
| 13614   | Plana F             | 645c | 3123       | 6401        | 7020         | Sa.2377   | 2 | 2.7   |
| 13626   | Plana D             | 645a | 3289       | 6657        | 6698         | Sa.2441   | 4 | 4.2   |
| 13631   |                     |      | 3396       | 6180        | 7090         | Sa.2475   | 1 | (P)   |
| #13637  | Plana C             | 645  | 3347       | 6789        | 6535         | Sa.2460   | 4 | 7.9   |
| #13640  | Daniell D           | 467  | 3478       | 6019        | 7189         | Sa.2503   | 4 | 3.6   |
| 13641   |                     |      | 3458       | 6133        | 7102         | Sa.2497   | 1 | (P)   |

| Ref.    | Designation | B&M  | $\xi$<br>+ | $\eta$<br>+ | $\zeta$<br>+ | Authority          | M      | Diam. |
|---------|-------------|------|------------|-------------|--------------|--------------------|--------|-------|
| #13666  | Mason B     | 639a | 3690       | 6669        | 6474         | Sa.2555            | 2      | 6.3   |
| 13676   |             |      | 3744       | 6656        | 6456         | Sa.2565            | 1      | 2.8   |
| 13718   |             |      | 3156       | 7822        | 5372         | Ar.                | 1      | 2.0   |
| 13730   | Bürg        | 647  | 3343       | 7076        | 6226         | Sa.2458            | 2      | 22.8  |
| #13745  | Baily A     | 660  | 3437       | 7508        | 5642         | Sa.2490            | 4      | 10.0  |
| 13766   |             |      | 3602       | 7689        | 5282         | Ar.                | 1      | 2.6   |
| 13766A  |             |      | 3633       | 7619        | 5362         | Ar.                | 1      | 2.9   |
| 13767   | Baily B     | 661  | 3623       | 7762        | 5160         | Sa.2535            | 2      | 4.2   |
| #13772  | Bürg A      | 648  | 3727       | 7293        | 5737         | Sa.2563            | 3      | 7.1   |
| *13808  |             |      | 3066       | 8812        | 3599         | Ar.                | 1      | 6.9   |
| 13827   | Gärtner E   | 672c | 3296       | 8787        | 3452         | Sa.2442            | 1      | 4.0   |
| 13835   | Thales W    | 432f | 3342       | 8527        | 4016         | Sa.2457            | 1      | 3.5   |
| *13837  |             |      | 3300       | 8793        | 3434         | Ar.                | 1      | 33.9  |
| #13838  | Thales G    | 432a | 3382       | 8804        | 3325         | Sa.2473            | 1      | 6.6   |
| 13842   | Thales M    | 432e | 3408       | 8235        | 4536         | Sa.2480            | 1      | 5.0   |
| *#13845 | Thales A    | 429  | 3415       | 8525        | 3958         | Sa.2483            | 1      | 7.1   |
| *13846  | Thales F    | 432  | 3410       | 8605        | 3785         | Ar.                | 1      | 21.3  |
| *13855  |             |      | 3585       | 8511        | 3835         | Ar.                | 1      | 12.4  |
| *13866  | Thales H    | 432b | 3679       | 8689        | 3311         | Fr. 534            | 5      | 6.0   |
| 13868   | Thales      | 427  | 3642       | 8811        | 3018         | {Fr. 138<br>Ar. 1} | 8<br>1 | 18.2  |
| *13874  |             |      | 3705       | 8407        | 3950         | Ar.                | 1      | 16.6  |
| 13875   |             |      | 3734       | 8524        | 3661         | Ar.                | 1      | 3.1   |
| 13879   |             |      | 3799       | 8940        | 2375         | Ar.                | 1      | 3.8   |
| 13888   | Strabo      | 421  | 3830       | 8825        | 2728         | {Fr. 505<br>Ar. 1} | 2<br>1 | 31.7  |
| 13888A  |             |      | 3876       | 8875        | 2492         | Ar.                | 1      | 3.2   |

| Ref.   | Designation | B&M  | ξ<br>+ | η<br>+ | ε<br>+ | Authority          | M | Diam. |
|--------|-------------|------|--------|--------|--------|--------------------|---|-------|
| 13893  | De la Rue D | 424  | 3956   | 8375   | 3770   | Ar.                | 1 | 9.3   |
| 13895  |             |      | 3949   | 8541   | 3385   | Ar.                | 1 | 3.7   |
| 13898  |             |      | 3967   | 8821   | 2540   | Ar.                | 1 | 4.1   |
| 13898A |             |      | 3922   | 8847   | 2520   | Ar.                | 1 | 5.7   |
| 13900  | Schwabe     | 674  | 3013   | 9067   | 2953   | Fr. 365            | 2 | 14.6  |
| 13901  | Schwabe F   | 680  | 3071   | 9162   | 2573   | Fr. 308            | 9 | 11.2  |
| 13903  |             |      | 3029   | 9365   | 1766   | Ar.                | 1 | 4.5   |
| 13904  | Cusanus B   | 675b | 3082   | 9404   | 1434   | {Fr. 332<br>Ar. 2} | 1 | 12.5  |
| 13914  |             |      | 3190   | 9431   | 0938   | Ar.                | 1 | 6.2   |
| 13932  | Strabo C    | 424a | 3352   | 9209   | 1990   | Fr. 508            | 5 | 9.8   |
| 13940  | Thales L    | 432c | 3499   | 9003   | 2590   | Fr. 535            | 5 | 15.0  |
| 13950  | Thales N    | 432d | 3596   | 9047   | 2285   | Fr. 536            | 5 | 14.4  |
| 13951  | Strabo J    | 424c | 3557   | 9187   | 1716   | Fr. 510            | 2 | 15.4  |
| 13952  | Strabo E    | 424b | 3570   | 9212   | 1550   | {Fr. 509<br>Ar. 4} | 1 | 23.9  |
| 13960  |             |      | 3663   | 9099   | 1947   | Ar.                | 1 | 11.3  |
| 13960A |             |      | 3681   | 9060   | 2090   | Ar.                | 1 | 3.4   |
| 13970  | Strabo B    | 423  | 3768   | 9077   | 1846   | {Fr. 507<br>Ar. 2} | 1 | 14.3  |
| *13972 | Strabo F    | 424d | 3729   | 9272   | 0346   | Fr. 511            | 5 | 34.0  |
| 13990  |             |      | 3999   | 9022   | 1616   | Ar.                | 1 | 15.3  |
| 14002  | Sabine D    | 540d | 4020   | 0226   | 9154   | Sa.2629            | 1 | 1.4   |
| 14022  | Sabine E    | 540e | 4215   | 0241   | 9065   | Sa.2663            | 1 | 2.6   |
| 14044  | Maskelyne G | 248a | 4489   | 0403   | 8927   | Sa.2706            | 3 | 3.7   |
| 14073  |             |      | 4717   | 0303   | 8812   | Sa.2734            | 1 | 2.3   |
| 14083  | Maskelyne B | 244A | 4838   | 0348   | 8745   | Sa.2741            | 5 | 5.3   |
| 14095  | Maskelyne K | 248c | 4945   | 0566   | 8673   | Sa.2753            | 2 | 3.0   |

| Ref.    | Designation  | B&M  | ξ<br>+ | η<br>+ | ε<br>+ | Authority | M | Diam. |
|---------|--------------|------|--------|--------|--------|-----------|---|-------|
| 14108   | Ross F       | 534c | 4030   | 1893   | 8954   | Sa.2631   | 1 | 2.9   |
| 14118   | Ross G       | 534d | 4129   | 1852   | 8917   | Sa.2653   | 2 | 2.9   |
| 14136   | Jansen G     | 259a | 4328   | 1617   | 8869   | Sa.2691   | 3 | 3.4   |
| #14148  | Jansen B     | 259  | 4410   | 1851   | 8782   | Sa.2702   | 2 | 9.0   |
| 14163   | Maskelyne M  | 249  | 4632   | 1360   | 8757   | Sa.2724   | 3 | 4.4   |
| 14169   | Jansen H     | 259b | 4661   | 1969   | 8625   | Sa.2729   | 1 | 4.0   |
| 14189   | Jansen K     | 259c | 4852   | 1995   | 8513   | Sa.2744   | 1 | 3.2   |
| 14224   | Flinius B    | 520b | 4292   | 2433   | 8698   | Sa.2682   | 1 | 3.1   |
| #14229  | Dawes        | 519  | 4238   | 2959   | 8561   | Sa.2669   | 4 | 10.3  |
| 14254   | Jansen E     | 255b | 4520   | 2498   | 8563   | Sa.2708   | 3 | 4.1   |
| 14257   | Jansen D     | 255c | 4583   | 2707   | 8466   | Sa.2717   | 5 | 4.2   |
| 14263   | Jansen       | 255  | 4662   | 2345   | 8530   | Sa.2730   | 1 | 13.0  |
| 14267   | Jansen C     | 271  | 4681   | 2794   | 8384   | Sa.2732   | 5 | 4.9   |
| 14285   | Jansen L     | 259d | 4849   | 2537   | 8370   | Sa.2743   | 5 | 4.1   |
| 14318   | Le Monnier C | 509c | 4112   | 3802   | 8285   | Sa.2648   | 1 | 2.7   |
| 14361   | Vitruvius E  | 270a | 4631   | 3198   | 8266   | Sa.2723   | 2 | 6.4   |
| 14366   | Littrow B    | 280  | 4615   | 3691   | 8067   | Sa.2720   | 2 | 4.3   |
| 14390   | Vitruvius    | 266  | 4947   | 3032   | 8145   | Sa.2754   | 3 | 16.3  |
| 14459   | Chacornac A  | 505  | 4540   | 4970   | 7395   | Sa.2712   | 1 | 3.0   |
| 14480   | Littrow β    | 282a | 4896   | 4037   | 7729   | Sa.2748   | 1 | (P)   |
| 14490   | Littrow D    | 281  | 4963   | 4017   | 7697   | Sa.2756   | 4 | 4.6   |
| #14512  | Posidonius A | 482  | 4190   | 5248   | 7410   | Sa.2659   | 4 | 6.5   |
| *#14516 | Posidonius M | 487  | 4127   | 5639   | 7153   | Sa.2650   | 2 | 5.9   |
| 14525   | Posidonius J | 486  | 4254   | 5562   | 7319   | Sa.2673   | 1 | 11.9  |
| 14527   | Daniell      | 466  | 4218   | 5794   | 6974   | Sa.2664   | 2 | 17.0  |

| Ref.    | Designation  | B&M  | ξ<br>+ | η<br>+ | ζ<br>+ | Authority | M | Diam. |
|---------|--------------|------|--------|--------|--------|-----------|---|-------|
| #14534  | Posidonius B | 483  | 4315   | 5467   | 7176   | Sa.2686   | 4 | 8.7   |
| 14558   | G. Bond K    | 498  | 4578   | 5813   | 6727   | Sa.2715   | 2 | 4.6   |
| 14586   | Hall C       | 497a | 4816   | 5691   | 6665   | Sa.2739   | 2 | 3.6   |
| 14588   | Hall J       | 497  | 4890   | 5801   | 6514   | Sa.2747   | 2 | 4.9   |
| #14608  | Mason C      | 640  | 4080   | 6804   | 6088   | Sa.2639   | 3 | 7.1   |
| #14614  | Grove        | 463  | 4149   | 6471   | 6397   | Sa.2654   | 3 | 15.4  |
| 14627   | Hercules C   | 456  | 4249   | 6783   | 5995   | Sa.2672   | 2 | 5.4   |
| 14629   | Hercules J   | 454b | 4261   | 6960   | 5779   | Sa.2676   | 1 | 4.6   |
| 14639   | Hercules K   | 454c | 4303   | 6973   | 5732   | Sa.2684   | 2 | 4.2   |
| 14681   | Maury D      | 385a | 4814   | 6188   | 6208   | Fr. 356   | 2 | 4.4   |
| 14704   | Hercules B   | 454  | 4006   | 7407   | 5394   | Sa.2627   | 1 | 5.1   |
| 14718   | Hercules H   | 454a | 4100   | 7802   | 4725   | Sa.2643   | 1 | 3.7   |
| 14718A  |              |      | 4153   | 7844   | 4607   | Ar.       | 1 | 2.8   |
| 14726   | Hercules F   | 460  | 4255   | 7687   | 4776   | Fr. 419   | 5 | 8.9   |
| 14731   | Hercules E   | 459  | 4355   | 7170   | 5443   | Ar.       | 1 | 5.5   |
| 14732   | Hercules     | 452  | 4335   | 7284   | 5306   | Fr. 417   | 2 | 38.6  |
| #14732A | Hercules G   | 458  | 4349   | 7239   | 5356   | Sa.2693   | 3 | 8.8   |
| #14737  | Hercules A   | 453  | 4322   | 7793   | 4537   | Sa.2687   | 2 | 18.8  |
| 14750   | Hercules D   | 457  | 4535   | 7045   | 5460   | Sa.2711   | 1 | 4.9   |
| 14768   |              |      | 4681   | 7808   | 4138   | Ar.       | 1 | 3.2   |
| 14769   |              |      | 4615   | 7981   | 3874   | Ar.       | 1 | 3.2   |
| 14772   | Atlas γ      | 440  | 4767   | 7294   | 4906   | Ar.       | 1 | (P)   |
| 14776   |              |      | 4754   | 7670   | 4309   | Ar.       | 1 | 2.8   |
| 14782   | Atlas        | 437  | 4807   | 7267   | 4907   | Fr. 340   | 2 | 50.3  |
| 14786   | Atlas D      | 441  | 4860   | 7697   | 4139   | Fr. 376   | 2 | 16.7  |

| Ref.    | Designation | B&M  | ξ<br>+ | η<br>+ | ζ<br>+ | Authority          | M  | Diam. |
|---------|-------------|------|--------|--------|--------|--------------------|----|-------|
| 14790   |             |      | 4993   | 7092   | 4977   | Ar.                | 1  | 2.8   |
| 14797   |             |      | 4947   | 7795   | 3843   | Ar.                | 1  | 3.9   |
| *14806  |             |      | 4056   | 8639   | 2987   | Ar.                | 1  | 7.1   |
| *14808  |             |      | 4088   | 8835   | 2287   | Ar.                | 1  | 5.4   |
| 14814   |             |      | 4103   | 8422   | 3499   | Ar.                | 1  | 5.6   |
| #14815  | De la Rue J | 417a | 4109   | 8566   | 3121   | Sa.2646            | 1  | 8.3   |
| *14817  |             |      | 4151   | 8792   | 2339   | Ar.                | 1  | 5.8   |
| 14818   |             |      | 4175   | 8896   | 1852   | Ar.                | 1  | 4.0   |
| *14819  |             |      | 4170   | 8937   | 1655   | Ar.                | 1  | 8.0   |
| 14836   |             |      | 4334   | 8697   | 2362   | Ar.                | 1  | 6.1   |
| 14839   | Strabo A    | 422  | 4301   | 8901   | 1510   | Fr. 506            | 2  | 31.2  |
| 14842   |             |      | 4403   | 8297   | 3431   | Ar.                | 1  | 4.0   |
| *14849  |             |      | 4427   | 8963   | 0265   | Ar.                | 1  | 28.4  |
| 14852   |             |      | 4500   | 8235   | 3454   | Ar.                | 1  | 4.2   |
| 14853   | Endymion G  | 409  | 4565   | 8331   | 3125   | {Fr. 40<br>Ar. 1}  | 11 | 8.4   |
| 14854   |             |      | 4566   | 8454   | 2771   | Ar.                | 1  | 4.1   |
| 14855   | Endymion C  | 406  | 4572   | 8520   | 2552   | {Fr. 374<br>Ar. 1} | 3  | 18.7  |
| 14865   |             |      | 4641   | 8557   | 2289   | Ar.                | 1  | 4.3   |
| 14872   |             |      | 4767   | 8271   | 2978   | Ar.                | 1  | 4.6   |
| 14890   | Endymion    | 403  | 4946   | 8048   | 3282   | Ar.                | 1  | 72.0  |
| 14893   | Endymion F  | 408  | 4950   | 8345   | 2421   | Ar.                | 1  | 6.1   |
| #14920  | Strabo G    | 424e | 4256   | 9039   | 0424   | Ar.                | 1  | 50.1  |
| *14920A | Strabo K    | 424f | 4234   | 9055   | 0298   | Fr. 513            | 3  | 7.4   |
| 15003   | Maskelyne   | 242  | 5002   | 0379   | 8651   | Sa.2758            | 4  | 13.7  |

| Ref.   | Designation | B&M  | ξ<br>+ | η<br>+ | ζ<br>+ | Authority | M | Diam. |
|--------|-------------|------|--------|--------|--------|-----------|---|-------|
| 15017  |             |      | 5104   | 0776   | 8564   | Sa.2766   | 1 | (s)   |
| 15038  | Maskelyne H | 248b | 5321   | 0857   | 8423   | Sa.2783   | 1 | 3.7   |
| 15091  | Maskelyne ζ | 253b | 5984   | 0133   | 8011   | Sa.2829   | 1 | (P)   |
| 15106  | Sinas E     | 261  | 5078   | 1676   | 8450   | Sa.2764   | 3 | 5.3   |
| 15115  | Sinas       | 260  | 5180   | 1541   | 8414   | Sa.2775   | 4 | 7.2   |
| 15133  | Sinas A     | 260a | 5340   | 1355   | 8346   | Sa.2786   | 1 | 3.3   |
| 15141  |             |      | 5425   | 1193   | 8316   | Ar.       | 1 | 2.8   |
| 15147  |             |      | 5450   | 1745   | 8201   | Ar.       | 1 | 3.2   |
| 15147A |             |      | 5466   | 1797   | 8179   | Ar.       | 1 | 3.2   |
| 15149  |             |      | 5406   | 1968   | 8180   | Sa.2796   | 1 | 2.8   |
| 15156  |             |      | 5559   | 1670   | 8143   | Ar.       | 1 | 2.8   |
| 15163  |             |      | 5696   | 1334   | 8110   | Ar.       | 1 | 2.7   |
| 15176  |             |      | 5771   | 1695   | 7989   | Ar.       | 1 | 3.3   |
| 15196  |             |      | 5909   | 1669   | 7893   | Ar.       | 1 | 2.1   |
| 15196A |             |      | 5983   | 1656   | 7840   | Ar.       | 1 | 2.0   |
| 15201  | Jansen F    | 255a | 5041   | 2183   | 8356   | Sa.2761   | 2 | 5.5   |
| 15223  | Jansen δ    | 258a | 5203   | 2321   | 8219   | Sa.2777   | 1 | (P)   |
| 15254  |             |      | 5516   | 2406   | 7986   | Ar.       | 1 | 3.4   |
| 15284  | Maraldi B   | 275a | 5802   | 2479   | 7758   | Sa.2821   | 3 | 4.3   |
| #15329 | Römer L     | 309  | 5229   | 3952   | 7552   | Sa.2781   | 2 | 6.1   |
| #15330 | Vitruvius A | 267  | 5304   | 3049   | 7911   | Sa.2782   | 4 | 10.6  |
| #15338 | Römer K     | 308  | 5369   | 3839   | 7512   | Sa.2792   | 2 | 7.0   |
| 15338A |             |      | 5373   | 3890   | 7484   | Sa.2793   | 1 | 4.2   |
| 15354  | Maraldi A   | 273a | 5560   | 3423   | 7574   | Sa.2812   | 1 | 4.4   |
| 15368  | Römer J     | 307  | 5689   | 3803   | 7292   | Fr. 494   | 2 | 5.3   |

| Ref.    | Designation  | B&M  | ξ<br>+ | η<br>+ | ζ<br>+ | Authority | M | Diam. |
|---------|--------------|------|--------|--------|--------|-----------|---|-------|
| 15412   |              |      | 5133   | 4277   | 7440   | Ar.       | 1 | 5.2   |
| 15431   | Römer D      | 309b | 5323   | 4144   | 7382   | Sa.2784   | 1 | 6.2   |
| 15432   | Römer        | 291  | 5366   | 4291   | 7266   | Sa.2790   | 1 | 22.8  |
| 15436   | Römer C      | 303a | 5331   | 4642   | 7073   | Sa.2785   | 1 | 4.8   |
| 15440   |              |      | 5493   | 4093   | 7285   | Ar.       | 1 | 6.0   |
| 15455   |              |      | 5591   | 4576   | 6914   | Ar.       | 1 | 4.8   |
| 15466   |              |      | 5657   | 4615   | 6834   | Ar.       | 1 | 3.1   |
| 15498   | Newcomb H    | 314  | 5923   | 4848   | 6435   | Sa.2827   | 1 | 7.6   |
| #15503  | G. Bond      | 492  | 5004   | 5360   | 6800   | Sa.2759   | 3 | 11.5  |
| 15512   | G. Bond A    | 495a | 5114   | 5239   | 6812   | Sa.2768   | 1 | 5.4   |
| 15547   | Maury B      | 384  | 5475   | 5756   | 6074   | Sa.2806   | 1 | 5.2   |
| #15548  | Maury A      | 383  | 5407   | 5877   | 6019   | Sa.2797   | 1 | 12.1  |
| 15550   | Kirchhoff C  | 304  | 5527   | 5054   | 6626   | Ar.       | 1 | 13.0  |
| 15568   | Franklin C   | 378  | 5667   | 5834   | 5818   | Ar.       | 1 | 8.9   |
| #15610  | Maury        | 385  | 5100   | 6034   | 6131   | Sa.2765   | 4 | 10.1  |
| 15628   | Oersted P    | 394a | 5203   | 6896   | 5037   | Ar.       | 1 | 12.2  |
| 15638   |              |      | 5326   | 6866   | 4949   | Ar.       | 1 | 4.1   |
| 15645   | Cepheus      | 390  | 5426   | 6528   | 5286   | Ar.       | 1 | 22.9  |
| #15645A | Cepheus A    | 391  | 5469   | 6564   | 5196   | Sa.2805   | 2 | 7.2   |
| 15664   |              |      | 5690   | 6443   | 5110   | Ar.       | 1 | 4.0   |
| 15672   | Franklin     | 374  | 5764   | 6266   | 5245   | Fr. 399   | 2 | 32.4  |
| 15678   | Shuckburgh C | 363b | 5766   | 6886   | 4398   | Fr. 422   | 2 | 7.0   |
| 15680   | Franklin F   | 381  | 5868   | 6086   | 5341   | Ar.       | 1 | 21.6  |
| 15687   | Shuckburgh   | 363  | 5862   | 6772   | 4447   | Ar.       | 1 | 22.2  |
| 15722   | Atlas α      | 438  | 5239   | 7284   | 4415   | Fr. 342   | 5 | (P)   |

| Ref.   | Designation    | B&M  | $\xi$<br>+ | $\eta$<br>+ | $\zeta$<br>+ | Authority          | M | Diam. |
|--------|----------------|------|------------|-------------|--------------|--------------------|---|-------|
| 15727  | Endymion H     | 409b | 5231       | 7773        | 3495         | Fr. 378            | 2 | 8.8   |
| 15731  | Atlas A        | 446  | 5350       | 7111        | 4562         | Fr. 341            | 5 | 12.9  |
| 15742  |                |      | 5407       | 7204        | 4344         | Ar.                | 1 | 9.2   |
| 15749  | Endymion D     | 407  | 5411       | 7916        | 2839         | Fr. 375            | 2 | 11.7  |
| 15750  | Chevallier B   | 451  | 5552       | 7087        | 4353         | Fr.425g            | 2 | 7.2   |
| 15772  | Chevallier F   | 451a | 5778       | 7213        | 3820         | Fr. 424            | 2 | 5.2   |
| 15779  | M. Humboldt. E | 402e | 5719       | 7917        | 2149         | Fr. 430            | 2 | 4.1   |
| 15779A | M. Humboldt. D | 402d | 5727       | 7954        | 1983         | {Fr. 429<br>Ar. 2} | 1 | 4.9   |
| 15783  | Mercurius J    | 397i | 5829       | 7331        | 3504         | Fr. 451            | 2 | 5.3   |
| 15785  | Mercurius H    | 397f | 5849       | 7566        | 2925         | Fr. 456            | 2 | 5.6   |
| 15799  | M. Humboldt. C | 402c | 5959       | 7904        | 1424         | Fr. 428            | 2 | 12.1  |
| 15811  | Endymion A     | 404  | 5143       | 8161        | 2637         | {Fr. 372<br>Ar. 4} | 1 | 17.4  |
| 15815  |                |      | 5188       | 8543        | 0316         | Ar.                | 1 | 33.3  |
| 15815A |                |      | 5146       | 8562        | 0458         | Ar.                | 1 | 7.3   |
| 15822  |                |      | 5255       | 8208        | 2238         | Ar.                | 1 | 3.6   |
| 15832  | M. Humboldt. G | 402g | 5366       | 8234        | 1846         | Fr. 432            | 2 | 5.2   |
| 15840  | Endymion E     | 409a | 5427       | 8051        | 2392         | Fr. 377            | 3 | 10.4  |
| 15842  |                |      | 5447       | 8221        | 1658         | Ar.                | 1 | 4.8   |
| 15851  | M. Humboldt. F | 402f | 5514       | 8184        | 1619         | Fr. 431            | 2 | 12.1  |
| 16018  | Maskelyne e    | 253a | 6107       | 0875        | 7870         | Sa.2838            | 1 | (P)   |
| 16046  | Taruntius F    | 221  | 6485       | 0687        | 7582         | Sa.2856            | 1 | 6.2   |
| #16049 | Taruntius E    | 219  | 6428       | 0962        | 7600         | Sa.2854            | 2 | 6.5   |
| 16059  |                |      | 6565       | 0917        | 7487         | Ar.                | 1 | 2.7   |
| 16065  | Secchi A       | 237a | 6611       | 0574        | 7481         | Sa.2859            | 1 | 2.9   |
| 16066  | Secchi B       | 237b | 6614       | 0642        | 7473         | Sa.2860            | 1 | 3.0   |

| Ref.   | Designation | B&M  | $\xi$<br>+ | $\eta$<br>+ | $\zeta$<br>+ | Authority          | M | Diam. |
|--------|-------------|------|------------|-------------|--------------|--------------------|---|-------|
| 16070  |             |      | 6704       | 0098        | 7420         | Ar.                | 1 | 4.0   |
| 16078  |             |      | 6713       | 0855        | 7362         | Ar.                | 1 | 2.8   |
| 16084  | Secchi      | 237  | 6885       | 0421        | 7240         | {Fr. 527<br>Ar. 2} | 1 | 14.1  |
| 16113  |             |      | 6182       | 1319        | 7749         | Ar.                | 1 | 2.1   |
| 16115  |             |      | 6164       | 1543        | 7721         | Ar.                | 1 | 2.1   |
| #16116 | Cauchy      | 262  | 6163       | 1666        | 7697         | Sa.2842            | 2 | 7.1   |
| 16124  |             |      | 6214       | 1429        | 7703         | Ar.                | 1 | 2.5   |
| 16137  | Cauchy D    | 263  | 6371       | 1744        | 7508         | Sa.2852            | 1 | 5.4   |
| 16165  |             |      | 6645       | 1535        | 7314         | Ar.                | 2 | 2.3   |
| 16172  | Taruntius M | 236  | 6793       | 1284        | 7226         | Ar.                | 1 | 13.7  |
| 16173  |             |      | 6745       | 1327        | 7262         | Ar.                | 1 | 2.8   |
| 16178  |             |      | 6742       | 1875        | 7144         | Ar.                | 1 | (P)   |
| *16186 |             |      | 6873       | 1683        | 7066         | Ar.                | 1 | 10.3  |
| 16201  | Cauchy A    | 262a | 6004       | 2100        | 7716         | Ar.                | 1 | 5.4   |
| 16202  |             |      | 6031       | 2270        | 7647         | Ar.                | 1 | (P)   |
| 16204  |             |      | 6024       | 2485        | 7586         | Ar.                | 2 | 3.1   |
| 16214  | Lyell A     | 201a | 6177       | 2475        | 7465         | Sa.2844            | 1 | 4.5   |
| 16216  |             |      | 6123       | 2618        | 7461         | Ar.                | 2 | 2.7   |
| #16229 | Proclus D   | 204  | 6255       | 2996        | 7204         | Sa.2848            | 1 | 7.4   |
| 16232  |             |      | 6330       | 2207        | 7420         | Ar.                | 1 | (P)   |
| 16236  |             |      | 6308       | 2642        | 7296         | Ar.                | 2 | 3.1   |
| 16252  |             |      | 6584       | 2215        | 7193         | Ar.                | 1 | 3.8   |
| #16253 | Proclus A   | 199  | 6542       | 2308        | 7203         | Sa.2858            | 1 | 8.5   |
| 16262  | Proclus G   | 211a | 6613       | 2202        | 7171         | Ar.                | 1 | 17.1  |
| 16269  |             |      | 6637       | 2936        | 6880         | Ar.                | 1 | 3.2   |

| Ref.   | Designation | B&M  | $\xi$<br>+ | $\eta$<br>+ | $\zeta$<br>+ | Authority          | M      | Diam. |
|--------|-------------|------|------------|-------------|--------------|--------------------|--------|-------|
| 16272  | Proclus C   | 203  | 6719       | 2245        | 7058         | Ar.                | 1      | 5.6   |
| 16279  |             |      | 6731       | 2999        | 6761         | Ar.                | 2      | 3.6   |
| *16280 |             |      | 6851       | 2048        | 6991         | Ar.                | 2      | 2.5   |
| 16288  |             |      | 6800       | 2834        | 6762         | Ar.                | 2      | 4.9   |
| 16294  | Proclus F   | 206  | 6969       | 2461        | 6736         | Ar.                | 1      | 5.3   |
| 16299  |             |      | 6915       | 2936        | 6600         | Ar.                | 1      | 7.8   |
| 16300  | Maraldi M   | 274  | 6015       | 3001        | 7404         | Sa.2834            | 1      | 5.0   |
| #16313 | Macrobius A | 182  | 6104       | 3345        | 7180         | Sa.2837            | 4      | 11.5  |
| #16315 | Macrobius B | 183  | 6108       | 3573        | 7066         | Sa.2839            | 4      | 9.3   |
| 16333  |             |      | 6331       | 3369        | 6969         | Ar.                | 1      | 3.9   |
| 16334  |             |      | 6353       | 3443        | 6913         | Ar.                | 1      | 3.3   |
| 16344  |             |      | 6433       | 3416        | 6852         | Ar.                | 1      | 5.4   |
| 16360  |             |      | 6696       | 3085        | 6757         | Ar.                | 2      | 3.4   |
| 16365  | Macrobius C | 181  | 6611       | 3558        | 6606         | Fr. 440            | 2      | 5.5   |
| 16370  |             |      | 6747       | 3043        | 6725         | Ar.                | 2      | 3.5   |
| 16380  |             |      | 6884       | 3007        | 6601         | Ar.                | 2      | 4.2   |
| 16381  | Macrobius D | 185  | 6888       | 3154        | 6528         | {Fr. 441<br>Ar. 1} | 2<br>1 | 8.4   |
| 16398  | Macrobius F | 187  | 6922       | 3822        | 6121         | Fr. 442            | 2      | 6.6   |
| #16446 | Tralles A   | 177  | 6497       | 4606        | 6048         | Sa.2857            | 1      | 10.5  |
| 16476  | Tralles C   | 178a | 6716       | 4667        | 5754         | Sa.2861            | 1      | 4.2   |
| #16485 | Tralles B   | 178  | 6881       | 4582        | 5626         | Sa.2862            | 1      | 6.4   |
| 16504  | Berzelius F | 312  | 6047       | 5423        | 5834         | Fr. 408            | 2      | 7.0   |
| 16509  | Berzelius A | 365  | 6034       | 5986        | 5269         | Ar.                | 1      | 3.8   |
| 16529  | Berzelius   | 364  | 6233       | 5957        | 5066         | Ar.                | 1      | 29.3  |
| #16530 | Geminus D   | 325  | 6330       | 5089        | 5834         | Sa.2850            | 1      | 9.1   |

| Ref.    | Designation    | B&M  | $\xi$<br>+ | $\eta$<br>+ | $\zeta$<br>+ | Authority          | M      | Diam. |
|---------|----------------|------|------------|-------------|--------------|--------------------|--------|-------|
| #16541  | Geminus G      | 325a | 6435       | 5127        | 5685         | Sa.2855            | 1      | 7.9   |
| 16542   | Geminus H      | 324a | 6416       | 5237        | 5605         | Sa.2853            | 1      | 8.3   |
| 16549   | Messala A      | 333  | 6478       | 5961        | 4743         | Fr. 288            | 5      | 15.0  |
| 16608   | Shuckburgh A   | 363a | 6016       | 6830        | 4142         | Fr. 421            | 2      | 10.7  |
| 16609   | Shuckburgh E   | 363c | 6025       | 6953        | 3919         | Fr. 423            | 2      | 5.3   |
| 16615   | Hooke          | 360  | 6159       | 6578        | 4335         | Fr. 420            | 2      | 21.2  |
| 16625   | Hooke D        | 362  | 6270       | 6525        | 4256         | Fr. 289            | 6      | 11.1  |
| 16639   | Carrington     | 359  | 6358       | 6940        | 3379         | Fr. 500            | 1      | 17.0  |
| 16645   | Messala K      | 339b | 6431       | 6566        | 3942         | Fr. 463            | 2      | 5.0   |
| 16665   | Messala J      | 339a | 6603       | 6577        | 3627         | Fr. 462            | 2      | 8.6   |
| 16678   | Zeno K         | 353a | 6734       | 6805        | 2889         | Fr. 523            | 2      | 10.1  |
| 16680   | Messala B      | 334  | 6872       | 6071        | 3989         | Fr. 457            | 2      | 10.4  |
| 16685   | Messala C      | 335  | 6885       | 6565        | 3082         | Fr. 458            | 2      | 6.6   |
| 16689   | Zeno B         | 351  | 6801       | 6951        | 2329         | Fr. 516            | 2      | 21.2  |
| *16689A | Zeno G         | 354a | 6886       | 6936        | 2113         | Fr. 518            | 2      | 6.0   |
| 16694   | Messala E      | 337  | 6941       | 6432        | 3234         | Fr. 460            | 2      | 23.1  |
| 16699   | Zeno J         | 354b | 6970       | 6974        | 1667         | Fr. 519            | 2      | 7.5   |
| *16708  | M. Humboldt. B | 402b | 6013       | 7885        | 1290         | {Fr. 427<br>Ar. 1} | 2<br>1 | 7.0   |
| 16709   | M. Humboldt. A | 402a | 6028       | 7911        | 1040         | {Fr. 426<br>Ar. 1} | 2<br>1 | 15.4  |
| 16721   | Mercurius F    | 397d | 6271       | 7102        | 3201         | Fr. 454            | 2      | 9.6   |
| 16721A  | Mercurius L    | 397h | 6271       | 7180        | 3022         | Fr. 453            | 2      | 6.8   |
| 16722   | Mercurius      | 396  | 6287       | 7264        | 2775         | Fr. 448            | 2,3    | 38.9  |
| 16730   | Mercurius G    | 397e | 6357       | 7086        | 3063         | Fr. 455            | 2      | 7.6   |
| 16733   | Mercurius B    | 396a | 6357       | 7362        | 2323         | Fr. 450            | 2      | 7.5   |
| 16743   | Mercurius K    | 397g | 6485       | 7358        | 1948         | Fr. 452            | 2      | 12.0  |



| Ref.   | Designation           | B&M  | $\xi$<br>+ | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam.  |
|--------|-----------------------|------|------------|-------------|--------------|-----------|---|--------|
| 16744  | Mercurius A           | 397a | 6423       | 7432        | 1873         | Fr. 449   | 1 | 11.2   |
| 16760  | Zeno A                | 350  | 6698       | 7005        | 2464         | Fr. 515   | 2 | 25.2   |
| 16760A | Zeno D                | 351a | 6699       | 7070        | 2267         | Fr. 517   | 2 | 10.2   |
| 17025  |                       |      | 7253       | 0575        | 6860         | Ar.       | 1 | 4.0    |
| 17029  | Taruntius (CP)        |      | 7221       | 0981        | 6848         | Ar.       | 1 | (32.4) |
| #17053 | Taruntius G           | 224  | 7594       | 0326        | 6498         | Sa.2870   | 3 | 5.7    |
| #17060 | Taruntius H           | 225  | 7638       | 0064        | 6455         | Sa.2871   | 2 | 4.9    |
| 17080  | Taruntius P           | 223a | 7830       | 0016        | 6220         | Sa.2875   | 1 | 4.2    |
| 17081  | Taruntius K           | 226  | 7829       | 0114        | 6221         | Sa.2874   | 1 | 3.0    |
| 17110  | Taruntius C           | 220  | 7140       | 1079        | 6918         | Ar.       | 1 | 6.2    |
| 17115  | Taruntius D           | 218  | 7137       | 1543        | 6832         | Ar.       | 1 | 8.7    |
| 17145  |                       |      | 7462       | 1525        | 6481         | Ar.       | 2 | 3.0    |
| #17152 | Taruntius A           | 216  | 7581       | 1265        | 6398         | Sa.2869   | 2 | 7.0    |
| 17189  | Picard $\gamma$       | 108a | 7859       | 1999        | 5851         | Fr.1220   | 2 | (P)    |
| #17207 | Proclus               | 198  | 7020       | 2776        | 6559         | Sa.2863   | 3 | 16.1   |
| 17212  |                       |      | 7182       | 2269        | 6578         | Ar.       | 1 | 3.8    |
| 17232  | Glaisher              | 200  | 7396       | 2283        | 6332         | Fr. 492   | 2 | 9.2    |
| 17236  |                       |      | 7308       | 2638        | 6295         | Ar.       | 1 | 3.4    |
| #17247 | Mare Crisium E        | 96   | 7426       | 2745        | 6109         | Ar.       | 1 | 5.7    |
| *17262 | Mare Crisium $\phi$   | 104  | 7608       | 2289        | 6073         | Fr.1221   | 2 | (P)    |
| 17272  | Lick D                | 112  | 7747       | 2276        | 5899         | Fr. 476   | 3 | 7.9    |
| #17285 | Picard                | 106  | 7887       | 2513        | 5611         | Sa.2876   | 1 | 13.0   |
| *17290 | Picard $\alpha$       | 107  | 7905       | 2039        | 5775         | Fr.1219   | 2 | (P)    |
| *17347 | Mare Crisium $\theta$ | 88   | 7411       | 3751        | 5568         | Fr.1224   | 2 | (P)    |
| 17353  | Peirce B              | 116  | 7571       | 3311        | 5631         | Fr.475A   | 3 | 6.0    |

| Ref.   | Designation  | B&M  | $\xi$<br>+ | $\eta$<br>+ | $\zeta$<br>+ | Authority | M   | Diam. |
|--------|--------------|------|------------|-------------|--------------|-----------|-----|-------|
| 17361  | Peirce       | 115  | 7611       | 3133        | 5679         | Fr. 474   | 2   | 10.6  |
| 17378  | Cleomedes F  | 126  | 7737       | 3835        | 5043         | Fr. 282   | 5   | 6.7   |
| 17418  | Cleomedes A  | 121  | 7173       | 4828        | 5023         | Fr. 357   | 2   | 6.8   |
| 17435  | Cleomedes B  | 122  | 7361       | 4563        | 4999         | Fr. 358   | 2   | 6.2   |
| 17460  | Cleomedes G  | 128a | 7682       | 4069        | 4943         | Fr. 359   | 3   | 11.2  |
| 17475  | Delmotte     | 125  | 7722       | 4561        | 4424         | Fr. 285   | 5   | 18.9  |
| 17505  | Geminus C    | 324  | 7094       | 5579        | 4307         | Fr. 407   | 6   | 9.2   |
| 17509  | Bernouilli A | 162  | 7030       | 5944        | 3904         | Fr. 346   | 3   | 12.4  |
| 17548  | Bernouilli D | 165  | 7435       | 5852        | 3235         | Fr. 349   | 4   | 6.9   |
| 17557  | Bernouilli C | 164  | 7515       | 5792        | 3158         | Fr. 348   | 2   | 10.6  |
| 17574  | Berosus A    | 145a | 7772       | 5472        | 3107         | Fr. 350   | 2   | 6.9   |
| 17589  | Gauss        | 148  | 7892       | 5923        | 1623         | Fr. 402   | 3,2 | 101.8 |
| 17597  | Gauss E      | 149c | 7969       | 5785        | 1741         | Fr. 406   | 5   | 4.8   |
| 17602  | Messala F    | 338  | 7022       | 6283        | 3350         | Fr. 461   | 2   | 18.5  |
| 17604  | Messala D    | 336  | 7041       | 6499        | 2864         | Fr. 459   | 2   | 16.1  |
| 17620  | Bernouilli B | 163  | 7284       | 6006        | 3296         | Fr. 347   | 2   | 12.7  |
| 17627  | Zeno F       | 353  | 7271       | 6753        | 1236         | Fr. 522   | 2   | 14.1  |
| 17633  | Gauss C      | 149a | 7319       | 6399        | 2340         | Fr. 404   | 2   | 16.8  |
| 17643  | Gauss D      | 149b | 7427       | 6350        | 2128         | Fr. 405   | 2   | 13.9  |
| #18004 | Taruntius N  | 227  | 8038       | 0419        | 5935         | Sa.2877   | 3   | 3.2   |
| 18013  | Taruntius O  | 226a | 8104       | 0390        | 5845         | Sa.2878   | 3   | 2.9   |
| 18019  | Apollonius K | 78   | 8129       | 0968        | 5742         | Fr. 318   | 2   | 6.0   |
| 18035  | Apollonius C | 69   | 8376       | 0581        | 5432         | Fr. 312   | 2   | 5.0   |
| 18057  | Apollonius D | 70   | 8579       | 0738        | 5086         | Fr. 313   | 2   | 10.0  |
| 18065  | Apollonius H | 71   | 8605       | 0590        | 5060         | Fr.317h   | 2   | 11.9  |

| Ref.    | Designation         | B&M  | $\xi$<br>+ | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|---------|---------------------|------|------------|-------------|--------------|-----------|---|-------|
| 18077   | Apollonius          | 66   | 8718       | 0780        | 4837         | Fr. 264   | 3 | 29.8  |
| 18087   | Apollonius B        | 72   | 8801       | 0758        | 4687         | Fr. 314   | 2 | 8.3   |
| 18094   | Apollonius W        | 80   | 8941       | 0406        | 4461         | Fr. 320   | 3 | (s)   |
| 18096   | Apollonius G        | 77   | 8912       | 0602        | 4496         | Fr. 316   | 3 | 9.7   |
| 18098   | Apollonius N        | 68   | 8955       | 0831        | 4373         | Fr. 311   | 1 | 5.4   |
| *18098A | Firmicus $\epsilon$ | 64   | 8980       | 0805        | 4325         | Fr.1280   | 2 | (P)   |
| 18111   | Apollonius L        | 81a  | 8103       | 1129        | 5750         | Fr. 319   | 2 | 5.0   |
| 18126   | Picard H            | 110a | 8262       | 1639        | 5390         | Fr. 478   | 2 | 13.2  |
| 18127   |                     |      | 8290       | 1789        | 5299         | Ar.       | 1 | (s)   |
| 18138   |                     |      | 8301       | 1885        | 5248         | Ar.       | 1 | (s)   |
| 18148   |                     |      | 8414       | 1876        | 5069         | Ar.       | 1 | (s)   |
| *18148A | Auzout $\delta$     | 54   | 8467       | 1808        | 5004         | Fr.1212   | 2 | (P)   |
| 18150   | Apollonius P        | 81b  | 8576       | 1001        | 5044         | Fr. 315   | 2 | 9.9   |
| *18168  | Auzout $\gamma$     | 53   | 8619       | 1882        | 4709         | Fr.1210   | 2 | (P)   |
| 18182   | Firmicus            | 56   | 8872       | 1266        | 4436         | Fr. 271   | 3 | 33.8  |
| 18187   | Auzout              | 47   | 8849       | 1778        | 4304         | Fr. 343   | 2 | 18.8  |
| 18190   | Firmicus D          | 56a  | 8973       | 1032        | 4293         | Fr. 396   | 2 | 6.1   |
| 18200   |                     |      | 8068       | 2044        | 5543         | Ar.       | 1 | (s)   |
| 18211   |                     |      | 8146       | 2198        | 5367         | Ar.       | 1 | (s)   |
| 18221   |                     |      | 8290       | 2128        | 5172         | Ar.       | 1 | (s)   |
| 18232   |                     |      | 8329       | 2239        | 5061         | Ar.       | 1 | (s)   |
| 18240   |                     |      | 8407       | 2029        | 5021         | Ar.       | 1 | (s)   |
| 18241   |                     |      | 8416       | 2170        | 4946         | Ar.       | 1 | (s)   |
| 18242   |                     |      | 8443       | 2288        | 4846         | Ar.       | 1 | (s)   |
| 18248   |                     |      | 8423       | 2892        | 4549         | Ar.       | 1 | (s)   |

| Ref.    | Designation       | B&M  | $\xi$<br>+ | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|---------|-------------------|------|------------|-------------|--------------|-----------|---|-------|
| 18251   |                   |      | 8593       | 2104        | 4662         | Ar.       | 1 | (s)   |
| 18252   |                   |      | 8560       | 2275        | 4642         | Ar.       | 1 | (s)   |
| 18259   |                   |      | 8581       | 2951        | 4202         | Ar.       | 1 | (s)   |
| 18262   |                   |      | 8648       | 2239        | 4494         | Ar.       | 1 | (s)   |
| *18271  | Auzout $\alpha$   | 51   | 8798       | 2156        | 4237         | Fr.1207   | 2 | (P)   |
| 18298   | Alhazen $\gamma$  | 24   | 8978       | 2816        | 3387         | Fr. 310   | 2 | (P)   |
| 18318   | Eimmart C         | 36   | 8100       | 3814        | 4455         | Fr. 371   | 3 | 13.8  |
| *18355  | Eimmart $\delta$  | 38   | 8561       | 3508        | 3797         | Fr.1230   | 2 | (P)   |
| *18369  | Plutarch C        | 30a  | 8692       | 3938        | 2991         | Fr. 283   | 3 | 6.5   |
| 18371   |                   |      | 8708       | 3170        | 3758         | Ar.       | 1 | (s)   |
| *18373  | Mare Anguis $\xi$ | 43d  | 8755       | 3300        | 3531         | Fr.1229   | 2 | (P)   |
| #18419  | Hahn A            | 142  | 8154       | 4949        | 3004         | Sa.2879   | 1 | 10.4  |
| 18420   | Eimmart           | 34   | 8259       | 4063        | 3909         | Fr. 370   | 2 | 26.6  |
| 18490   | Plutarch          | 26   | 8968       | 4078        | 1712         | Fr. 472   | 1 | 46.5  |
| 18532   | Hahn B            | 142a | 8312       | 5218        | 1921         | Fr. 414   | 3 | 8.7   |
| 18552   | Hahn C            | 142b | 8502       | 5229        | 0614         | Fr. 415   | 2 | 10.2  |
| 19013   | Mare Spumans Q    | 65c  | 9199       | 0387        | 3902         | Fr.1290   | 2 | 7.7   |
| *19017  | Firmicus M        | 65   | 9140       | 0738        | 3990         | Fr.1299   | 2 | 23.8  |
| 19021   | Mare Spumans P    | 65b  | 9203       | 0140        | 3910         | Fr.1289   | 2 | 13.4  |
| 19037   | Neper A           | 7    | 9369       | 0776        | 3408         | Fr. 263   | 2 | 26.3  |
| 19070   | Schubert Y        | 4b   | 9704       | 0031        | 2416         | Fr.1142   | 4 | 22.1  |
| *#19079 | Neper B           | 8    | 9763       | 0935        | 1950         | Sa.2885   | 1 | 13.5  |
| *19080  | Schubert Z        | 4c   | 9801       | 0058        | 1982         | Fr.1143   | 2 | 21.8  |
| 19082   | Schubert B        | 3    | 9869       | 0216        | 1596         | Fr. 499   | 2 | 20.3  |
| 19083   | Schubert A        | 2    | 9820       | 0374        | 1851         | Fr. 260   | 8 | (s)   |

| Ref.   | Designation       | B&M | $\xi$<br>+ | $\eta$<br>+ | $\zeta$<br>+ | Authority | M   | Diam. |
|--------|-------------------|-----|------------|-------------|--------------|-----------|-----|-------|
| 19084  | Schubert          | 1   | 9866       | 0468        | 1562         | Fr. 498   | 2,3 | 31.0  |
| 19102  | Firmicus B        | 58  | 9052       | 1270        | 4056         | Fr.397c   | 2   | 8.2   |
| 19103  | Firmicus C        | 59  | 9091       | 1343        | 3944         | Fr.398b   | 2   | 7.6   |
| 19135  | Condorcet P       | 46  | 9314       | 1524        | 3305         | Fr. 362   | 2   | 28.8  |
| 19144  | Condorcet F       | 45  | 9475       | 1449        | 2852         | Fr. 363   | 2   | 21.2  |
| 19162  | Neper C           | 9   | 9612       | 1221        | 2474         | Fr. 471   | 2   | 11.1  |
| 19185  | Neper             | 6   | 9834       | 1519        | 0991         | Fr. 273   | 6   | 81.6  |
| 19211  | Condorcet         | 44  | 9166       | 2107        | 3399         | Fr. 360   | 2   | 42.8  |
| 19217  | Alhazen           | 14  | 9140       | 2745        | 2988         | Fr. 309   | 2   | 18.9  |
| 19224  | Hansen            | 11  | 9260       | 2419        | 2898         | Fr. 416   | 2   | 22.8  |
| 19233  | Hansen A          | 12  | 9386       | 2316        | 2559         | Fr. 59    | 2   | 6.0   |
| 19254  | Hansen B          | 13  | 9535       | 2472        | 1723         | Fr.1270   | 2   | 37.4  |
| *19327 | Plutarch A        | 26a | 9240       | 3783        | 0557         | Fr. 481   | 3   | 47.2  |
| 19327A | Plutarch $\alpha$ | 27  | 9251       | 3762        | 0520         | Fr. 482   | 3   | (P)   |

| Ref.   | Designation  | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|--------|--------------|-------|------------|-------------|--------------|-----------|---|-------|
| 20017  | Pallas C     | 1229b | 0190       | 0783        | 9968         | Sa.1296   | 2 | 4.1   |
| 20044  | Pallas D     | 1229a | 0454       | 0415        | 9981         | Sa.1206   | 1 | 2.4   |
| 20047  | Pallas B     | 1227  | 0454       | 0732        | 9963         | Sa.1207   | 2 | 2.2   |
| 20069  | Bode L       | 1218a | 0657       | 0981        | 9930         | Sa.1139   | 2 | 2.7   |
| #20115 | Bode A       | 1214  | 0199       | 1565        | 9875         | Sa.1292   | 6 | 7.1   |
| 20136  | Bode K       | 1217a | 0390       | 1617        | 9861         | Sa.1232   | 4 | 3.5   |
| #20140 | Pallas A     | 1226  | 0402       | 1040        | 9938         | Sa.1227   | 5 | 6.1   |
| #20141 | Bode         | 1212  | 0421       | 1171        | 9922         | Sa.1220   | 6 | 10.7  |
| #20155 | Bode B       | 1215  | 0529       | 1520        | 9870         | Sa.1189   | 6 | 5.9   |
| 20161  | Bode G       | 1213  | 0613       | 1103        | 9920         | Sa.1156   | 3 | 2.5   |
| 20166  | Schröter B   | 1251  | 0694       | 1688        | 9832         | Sa.1130   | 2 | 2.6   |
| 20219  |              |       | 0166       | 2942        | 9556         | Sa.1303   | 1 | 1.8   |
| #20235 | Marco Polo A | 1202  | 0328       | 2570        | 9659         | Sa.1257   | 3 | 4.0   |
| 20238  | Marco Polo G | 1203a | 0318       | 2876        | 9572         | Sa.1258   | 2 | 3.0   |
| #20239 | Marco Polo B | 1203  | 0310       | 2954        | 9549         | Sa.1263   | 3 | 4.0   |
| #20251 | Bode E       | 1219a | 0581       | 2152        | 9748         | Sa.1164   | 2 | 4.0   |
| #20265 | Marco Polo D | 1204a | 0633       | 2576        | 9642         | Sa.1148   | 3 | 3.6   |
| 20277  | Marco Polo F | 1201a | 0755       | 2711        | 9596         | Sa.1113   | 2 | 2.3   |
| #20281 | Bode C       | 1217  | 0808       | 2117        | 9740         | Sa.1096   | 5 | 4.0   |
| #20284 | Marco Polo C | 1204  | 0843       | 2423        | 9665         | Sa.1086   | 5 | 4.0   |
| 20320  | Marco Polo H | 1203b | 0276       | 3061        | 9516         | Sa.1272   | 3 | 3.3   |
| 20321  | Marco Polo K | 1203c | 0239       | 3120        | 9498         | Sa.1283   | 1 | 6.3   |
| *20333 | Huygens A    | 1200  | 0312       | 3382        | 9406         | Fr. 667   | 1 | 4.5   |
| 20338  |              |       | 0397       | 3863        | 9215         | Ar.       | 1 | 2.0   |
| 20343  |              |       | 0460       | 3345        | 9413         | Sa.1204   | 1 | 2.8   |

| Ref.   | Designation         | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam. |
|--------|---------------------|-------|-------|--------|---------|-----------|---|-------|
| 20349  |                     |       | 0402  | 3998   | 9157    | Ar.       | 1 | 2.1   |
| 20350  | Huygens $\epsilon$  | 1194  | 0570  | 3017   | 9517    | Sa.1170   | 1 | (P)   |
| 20368  |                     |       | 0675  | 3869   | 9197    | Ar.       | 1 | (P)   |
| 20374  | Wallace B           | 1294b | 0739  | 3449   | 9357    | Sa.1120   | 3 | 2.4   |
| 20387  |                     |       | 0833  | 3716   | 9247    | Ar.       | 1 | 1.5   |
| 20390  |                     |       | 0947  | 3069   | 9470    | Ar.       | 1 | 2.4   |
| 20392  | Wallace A           | 1294a | 0916  | 3280   | 9402    | Sa.1064   | 1 | 2.4   |
| 20409  |                     |       | 0092  | 4909   | 8711    | Ar.       | 1 | (P)   |
| 20421  |                     |       | 0232  | 4162   | 9106    | Ar.       | 1 | 1.2   |
| 20421A |                     |       | 0202  | 4126   | 9107    | Ar.       | 1 | 1.2   |
| 20423  |                     |       | 0201  | 4349   | 9003    | Ar.       | 1 | 1.8   |
| 20425  |                     |       | 0221  | 4512   | 8921    | Ar.       | 1 | 1.6   |
| 20431  |                     |       | 0381  | 4102   | 9112    | Ar.       | 1 | 1.5   |
| 20433  |                     |       | 0393  | 4366   | 8988    | Ar.       | 1 | 2.0   |
| 20433A |                     |       | 0315  | 4324   | 9011    | Ar.       | 1 | 1.5   |
| 20437  |                     |       | 0373  | 4765   | 8784    | Ar.       | 1 | 1.4   |
| 20442  |                     |       | 0411  | 4230   | 9052    | Sa.1226   | 2 | 2.0   |
| 20450  |                     |       | 0512  | 4023   | 9141    | Ar.       | 1 | 2.0   |
| 20451  |                     |       | 0540  | 4125   | 9093    | Ar.       | 1 | 1.4   |
| 20452  | Archimedes $\gamma$ | 1155  | 0532  | 4261   | 9031    | Sa.1188   | 2 | (P)   |
| 20453  |                     |       | 0557  | 4388   | 8969    | Ar.       | 1 | 2.1   |
| 20453A |                     |       | 0501  | 4396   | 8968    | Ar.       | 1 | 2.0   |
| 20460  |                     |       | 0617  | 4086   | 9106    | Ar.       | 1 | 2.4   |
| 20484  |                     |       | 0899  | 4448   | 8911    | Sa.1069   | 1 | 2.9   |
| 20484A |                     |       | 0828  | 4427   | 8929    | Ar.       | 1 | 1.7   |

| Ref.   | Designation           | B&M   | $\xi$                  | $\eta$ | $\zeta$ | Authority | M       | Diam. |     |
|--------|-----------------------|-------|------------------------|--------|---------|-----------|---------|-------|-----|
| 20490  |                       |       | 0993                   | 4031   | 9098    | Sa.1041   | 2       | 2.1   |     |
| #20497 | Archimedes A          | 1145  | 0983                   | 4700   | 8772    | Sa.1045   | 6       | 7.5   |     |
| 20498  |                       |       | 0988                   | 4801   | 8716    | Ar.       | 1       | 1.8   |     |
| 20516  |                       |       | 0132                   | 5654   | 8247    | Ar.       | 1       | 1.7   |     |
| #20522 | Archimedes C          | 1147  | 0222                   | 5238   | 8516    | Sa.1287   | 6       | 4.7   |     |
| 20524  |                       |       | 0284                   | 5411   | 8405    | Ar.       | 1       | 2.0   |     |
| 20527  | Aristillus B          |       | <sup>921</sup><br>1146 | 0273   | 5700    | 8212      | Sa.1274 | 6     | 4.7 |
| 20533  | Archimedes D          | 1148  | 0394                   | 5324   | 8456    | Sa.1230   | 4       | 3.1   |     |
| 20544  |                       |       | 0482                   | 5444   | 8374    | Ar.       | 1       | 1.3   |     |
| 20554  |                       |       | 0584                   | 5434   | 8374    | Ar.       | 1       | 1.8   |     |
| 20564  |                       |       | 0630                   | 5491   | 8334    | Ar.       | 1       | 1.6   |     |
| 20575  |                       |       | 0796                   | 5516   | 8303    | Ar.       | 1       | 2.0   |     |
| 20583  |                       |       | 0856                   | 5391   | 8379    | Ar.       | 1       | 1.5   |     |
| 20584  |                       |       | 0815                   | 5473   | 8329    | Ar.       | 1       | 1.6   |     |
| 20590  |                       |       | 0974                   | 5099   | 8547    | Ar.       | 1       | 1.5   |     |
| 20599  | Kirch E               | 1143a | 0967                   | 5944   | 7984    | Sa.1050   | 2       | 2.2   |     |
| 20603  | Piton B               | 1131a | 0020                   | 6332   | 7740    | Sa.1341   | 4       | 2.8   |     |
| 20607  |                       |       | 0008                   | 6750   | 7378    | Ar.       | 1       | 1.3   |     |
| 20608  |                       |       | 0055                   | 6867   | 7269    | Ar.       | 1       | 1.7   |     |
| 20613  | Piton A               | 1131  | 0126                   | 6397   | 7686    | Sa.1313   | 4       | 3.3   |     |
| 20627  |                       |       | 0239                   | 6711   | 7410    | Sa.1284   | 1       | 1.9   |     |
| 20627A | Piazzi Smyth $\alpha$ | 1126  | 0235                   | 6752   | 7373    | Sa.1285   | 3       | (P)   |     |
| 20628  |                       |       | 0251                   | 6862   | 7270    | Ar.       | 1       | (s)   |     |
| 20639  | Piazzi Smyth $\pi$    | 1127a | 0394                   | 6905   | 7222    | Sa.1231   | 2       | (P)   |     |
| 20644  | Piazzi Smyth B        | 1127b | 0445                   | 6489   | 7596    | Sa.1208   | 2       | 2.2   |     |

| Ref.   | Designation          | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority        | M        | Diam.   |
|--------|----------------------|-------|-------|--------|---------|------------------|----------|---------|
| 20645  | Piazzi Smyth $\beta$ | 1127  | 0489  | 6548   | 7542    | Sa.1199          | 3        | (P)     |
| #20646 | Piazzi Smyth         | 1125  | 0420  | 6672   | 7437    | Sa.1222          | 6        | 7.4     |
| 20647  |                      |       | 0439  | 6790   | 7329    | Sa.1210          | 2        | 2.1     |
| 20653  |                      |       | 0541  | 6315   | 7735    | Ar.              | 1        | 1.6     |
| 20656  |                      |       | 0592  | 6696   | 7403    | Ar.              | 1        | 1.8     |
| 20665  |                      |       | 0627  | 6539   | 7540    | Ar.              | 1        | 4.1x2.2 |
| #20673 | Kirch                | 1132  | 0756  | 6322   | 7711    | Sa.1112          | 6        | 6.7     |
| 20673A |                      |       | 0735  | 6399   | 7649    | Ar.              | 1        | (P)     |
| 20674  |                      |       | 0763  | 6422   | 7628    | Ar.              | 1        | 1.5     |
| 20681  | Kirch F              | 1143b | 0828  | 6147   | 7844    | Sa.1092          | 2        | 2.4     |
| 20692  |                      |       | 0937  | 6290   | 7718    | Ar.              | 1        | 1.8     |
| #20708 | Alps A               | 1065  | 0030  | 7806   | 6251    | Sa.1337          | 5        | 6.4     |
| 20709  |                      |       | 0001  | 7903   | 6127    | Sa.1346          | 2        | 2.6     |
| 20711  | Alps B               | 1065a | 0110  | 7161   | 6980    | Sa.1316          | 2        | 3.1     |
| 20721  |                      |       | 0201  | 7133   | 7006    | Ar.              | 1        | (P)     |
| 20732  | Plato K              | 1076  | 0388  | 7282   | 6843    | Sa.1234          | 5        | 4.2     |
| 20742  |                      |       | 0425  | 7278   | 6844    | Sa.1218          | 5        | 3.3     |
| 20743  |                      |       | 0428  | 7355   | 6762    | {Sa.1219<br>Ar.} | {1<br>1} | (P)     |
| 20744  | Plato $\lambda$      | 1091  | 0400  | 7460   | 6647    | Sa.1229          | 1        | (P)     |
| 20748  | Plato L              | 1077  | 0475  | 7835   | 6196    | Sa.1201          | 1        | 6.4     |
| 20750  |                      |       | 0518  | 7066   | 7057    | Ar.              | 1        | 1.7     |
| 20750A |                      |       | 0566  | 7014   | 7105    | Ar.              | 1        | 1.6     |
| 20753  |                      |       | 0516  | 7339   | 6773    | Sa.1191          | 2        | 1.8     |
| 20753A |                      |       | 0546  | 7328   | 6783    | Sa.1182          | 2        | 2.0     |
| #20755 | Plato J              | 1075  | 0522  | 7544   | 6544    | Sa.1190          | 5        | 4.4     |
| 20755A |                      |       | 0554  | 7528   | 6559    | Sa.1177          | 3        | 3.3     |

| Ref.   | Designation    | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam.  |
|--------|----------------|-------|-------|--------|---------|-----------|---|--------|
| #20768 | Plato G        | 1072  | 0670  | 7893   | 6104    | Sa.1135   | 3 | 4.7    |
| 20773  | Pico C         | 1124  | 0784  | 7332   | 6755    | Sa.1106   | 3 | 2.9    |
| 20775  | Plato $\kappa$ | 1090  | 0776  | 7568   | 6490    | Sa.1107   | 2 | (P)    |
| 20786  | Plato U        | 1077g | 0831  | 7606   | 6439    | Sa.1091   | 2 | 3.4    |
| 20790  |                |       | 0941  | 7062   | 7017    | Ar.       | 1 | 1.7    |
| 20792  |                |       | 0985  | 7262   | 6804    | Ar.       | 1 | 1.9    |
| 20794  |                |       | 0955  | 7484   | 6564    | Ar.       | 1 | (P)    |
| 20798  | Plato          | 1062  | 0996  | 7818   | 6155    | Fr. 736   | 2 | 57.5   |
| 20800  |                |       | 0097  | 8075   | 5898    | Sa.1322   | 2 | 3.3    |
| #20808 | Timaeus        | 1051  | 0044  | 8896   | 4567    | Sa.1335   | 5 | 18.9   |
| 20808A | Timaeus (CP)   |       | 0038  | 8883   | 4593    | Sa.1336   | 2 | (18.9) |
| #20822 | Plato H        | 1073  | 0200  | 8200   | 5721    | Sa.1291   | 6 | 6.2    |
| 20841  | Plato Q        | 1077e | 0488  | 8143   | 5783    | Sa.1200   | 4 | 4.8    |
| 20852  |                |       | 0541  | 8250   | 5626    | Sa.1185   | 2 | 2.4    |
| 20881  | Plato $\nu$    | 1102a | 0842  | 8161   | 5718    | Sa.1087   | 2 | (P)    |
| 20889  | Birmingham B   | 1325  | 0868  | 8938   | 4400    | Sa.1076   | 3 | 4.1    |
| 20902  | Epigenes A     | 1041  | 0026  | 9203   | 3912    | Sa.1339   | 4 | 10.1   |
| 20915  | Goldschmidt A  | 1023a | 0126  | 9534   | 3014    | Sa.1312   | 2 | 3.8    |
| #20935 | Anaxagoras A   | 1027  | 0372  | 9523   | 3028    | Sa.1238   | 5 | 10.6   |
| 20952  |                |       | 0553  | 9208   | 3860    | Sa.1178   | 1 | 2.6    |
| #20955 | Anaxagoras     | 1026  | 0501  | 9590   | 2791    | Sa.1193   | 6 | 29.1   |
| 20970  | Birmingham H   | 1327a | 0793  | 9014   | 4256    | Sa.1103   | 2 | 3.9    |
| 20975  |                |       | 0726  | 9510   | 3005    | Sa.1124   | 1 | 3.8    |
| 20993  | Fontenelle K   | 1328d | 0945  | 9375   | 3351    | Sa.1057   | 2 | 3.8    |

| Ref.   | Designation | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam.   |
|--------|-------------|-------|-------|--------|---------|-----------|---|---------|
| 21001  |             |       | 1083  | 0180   | 9939    | Ar.       | 1 | (P)     |
| 21003  |             |       | 1057  | 0308   | 9939    | Sa.1021   | 1 | 1.8     |
| *21011 |             |       | 1157  | 0173   | 9931    | Ar.       | 1 | 2.8     |
| 21014  | Schröter E  | 1250a | 1182  | 0413   | 9921    | Sa. 983   | 1 | 1.8     |
| 21017  |             |       | 1155  | 0712   | 9908    | Sa. 991   | 1 | 2.3     |
| 21023  | Schröter L  | 1253e | 1284  | 0307   | 9912    | Sa. 953   | 1 | 2.0     |
| 21024  |             |       | 1292  | 0416   | 9908    | Ar.       | 1 | 2.2     |
| 21026  |             |       | 1281  | 0625   | 9898    | Sa. 958   | 1 | 1.8     |
| 21032  |             |       | 1312  | 0249   | 9911    | Ar.       | 1 | 1.3     |
| 21035  | Schröter K  | 1253d | 1371  | 0539   | 9891    | Sa. 923   | 1 | 3.1     |
| 21036  |             |       | 1355  | 0636   | 9887    | Sa. 928   | 1 | 1.8     |
| 21038  | Schröter A  | 1250  | 1348  | 0838   | 9873    | Sa. 929   | 1 | 2.4     |
| 21040  |             |       | 1494  | 0007   | 9888    | Ar.       | 1 | 1.7     |
| 21044  |             |       | 1425  | 0492   | 9886    | Ar.       | 1 | 1.8     |
| 21045  | Schröter H  | 1253c | 1492  | 0549   | 9873    | Sa. 887   | 1 | 2.6     |
| 21046  |             |       | 1441  | 0678   | 9872    | Ar.       | 1 | 3.2x1.0 |
| 21054  |             |       | 1578  | 0460   | 9864    | Ar.       | 1 | 1.5     |
| 21057  |             |       | 1511  | 0760   | 9856    | Sa. 879   | 1 | 1.8     |
| 21059  |             |       | 1500  | 0984   | 9838    | Ar.       | 1 | 1.5     |
| 21061  |             |       | 1656  | 0139   | 9861    | Ar.       | 1 | (P)     |
| 21063  |             |       | 1658  | 0306   | 9857    | Ar.       | 1 | 1.9     |
| 21065  | Schröter G  | 1253b | 1632  | 0551   | 9851    | Sa. 843   | 3 | 3.4     |
| 21066  |             |       | 1633  | 0668   | 9843    | Ar.       | 1 | 1.4     |
| 21067  | Schröter D  | 1253  | 1645  | 0784   | 9833    | Sa. 838   | 4 | 2.9     |
| 21069  |             |       | 1621  | 0952   | 9822    | Ar.       | 1 | 1.6     |

| Ref.   | Designation | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam. |
|--------|-------------|-------|-------|--------|---------|-----------|---|-------|
| 21070  |             |       | 1725  | 0073   | 9850    | Ar.       | 1 | (P)   |
| 21071  |             |       | 1706  | 0119   | 9853    | Ar.       | 1 | (P)   |
| 21072  |             |       | 1733  | 0280   | 9845    | Ar.       | 1 | (P)   |
| 21073  |             |       | 1786  | 0371   | 9832    | Sa. 804   | 2 | 3.8   |
| 21075  |             |       | 1792  | 0515   | 9825    | Sa. 801   | 1 | 1.9   |
| 21081  |             |       | 1830  | 0136   | 9830    | Ar.       | 1 | 1.6   |
| 21083  |             |       | 1866  | 0336   | 9819    | Sa. 780   | 1 | 2.2   |
| 21085  | Gambart H   | 1502a | 1836  | 0558   | 9814    | Sa. 789   | 2 | 2.4   |
| 21091  |             |       | 1920  | 0192   | 9812    | Ar.       | 1 | 1.7   |
| 21094  |             |       | 1971  | 0428   | 9794    | Ar.       | 1 | 2.0   |
| 21099  |             |       | 1934  | 0976   | 9763    | Ar.       | 1 | 2.0   |
| 21101  |             |       | 1084  | 1167   | 9872    | Ar.       | 1 | 1.4   |
| 21103  |             |       | 1013  | 1377   | 9853    | Ar.       | 1 | 1.4   |
| 21104  | Schröter J  | 1253a | 1049  | 1478   | 9834    | Sa.1022   | 3 | 4.0   |
| 21106  |             |       | 1085  | 1602   | 9811    | Ar.       | 1 | (P)   |
| 21111  |             |       | 1143  | 1198   | 9862    | Ar.       | 1 | 2.2   |
| 21112  |             |       | 1177  | 1245   | 9852    | Sa. 986   | 1 | 2.7   |
| 21115  |             |       | 1148  | 1544   | 9813    | Ar.       | 1 | 2.2   |
| 21123  |             |       | 1202  | 1317   | 9840    | Ar.       | 1 | 1.4   |
| 21132  |             |       | 1380  | 1221   | 9829    | Ar.       | 1 | 2.5   |
| 21132A |             |       | 1385  | 1243   | 9825    | Ar.       | 1 | 1.7   |
| 21132B |             |       | 1362  | 1296   | 9822    | Ar.       | 1 | 1.7   |
| 21136  |             |       | 1375  | 1690   | 9760    | Ar.       | 1 | 1.5   |
| 21142  |             |       | 1443  | 1279   | 9812    | Ar.       | 1 | 1.5   |
| 21143  |             |       | 1409  | 1306   | 9814    | Ar.       | 1 | 1.4   |

| Ref.    | Designation    | B&M   | ξ<br>- | η<br>+ | ζ<br>+ | Authority | M | Diam. |
|---------|----------------|-------|--------|--------|--------|-----------|---|-------|
| 21152   |                |       | 1580   | 1231   | 9797   | Sa. 857   | 1 | 1.8   |
| 21154   |                |       | 1582   | 1495   | 9760   | Ar.       | 1 | 1.6   |
| 21155   |                |       | 1555   | 1551   | 9756   | Ar.       | 1 | 1.3   |
| 21159   |                |       | 1583   | 1978   | 9674   | Ar.       | 1 | 1.5   |
| *21161  |                |       | 1680   | 1181   | 9787   | Ar.       | 1 | 2.0   |
| 21162   |                |       | 1613   | 1258   | 9789   | Ar.       | 1 | 1.4   |
| *21164  | Schröter C     | 1252  | 1680   | 1437   | 9752   | Ar.       | 1 | 4.8   |
| 21166   |                |       | 1669   | 1607   | 9728   | Ar.       | 1 | 1.7   |
| *21168  |                |       | 1687   | 1876   | 9676   | Ar.       | 1 | 1.6   |
| *21168A |                |       | 1662   | 1894   | 9677   | Ar.       | 1 | 1.3   |
| 21173   |                |       | 1707   | 1377   | 9757   | Ar.       | 1 | 1.4   |
| *21184  |                |       | 1831   | 1426   | 9727   | Ar.       | 1 | 1.3   |
| 21191   |                |       | 1952   | 1138   | 9741   | Ar.       | 1 | 1.5   |
| 21192   |                |       | 1996   | 1274   | 9715   | Ar.       | 1 | 1.4   |
| 21193   |                |       | 1944   | 1355   | 9715   | Ar.       | 1 | 2.0   |
| 21193A  |                |       | 1932   | 1305   | 9724   | Ar.       | 1 | 1.4   |
| 21211   | Bode H         | 1219b | 1107   | 2115   | 9711   | Sa.1008   | 3 | 2.6   |
| 21227   | Wolff A        | 1284a | 1292   | 2720   | 9536   | Sa. 949   | 2 | 3.8   |
| 21246   | Eratosthenes κ | 1279a | 1473   | 2679   | 9521   | Sa. 892   | 2 | (P)   |
| 21247   | Wolff B        | 1284b | 1453   | 2763   | 9500   | Sa. 898   | 2 | 5.4   |
| 21252   | Eratosthenes K | 1283b | 1564   | 2222   | 9624   | Sa. 864   | 2 | 2.8   |
| 21260   |                |       | 1649   | 2023   | 9653   | Ar.       | 1 | 1.4   |
| 21262   |                |       | 1668   | 2289   | 9591   | Sa. 833   | 1 | 2.6   |
| 21271   |                |       | 1797   | 2167   | 9595   | Ar.       | 1 | 1.5   |
| 21273   |                |       | 1704   | 2333   | 9573   | Ar.       | 1 | 1.6   |

| Ref.     | Designation    | B&M   | ξ<br>- | η<br>+ | ζ<br>+ | Authority | M | Diam. |
|----------|----------------|-------|--------|--------|--------|-----------|---|-------|
| 21284    |                |       | 1897   | 2417   | 9516   | Ar.       | 1 | 1.5   |
| 21289    | Eratosthenes D | 1283d | 1801   | 2993   | 9370   | Sa. 799   | 3 | 2.3   |
| 21291    |                |       | 1917   | 2174   | 9571   | Ar.       | 1 | 1.3   |
| 21295    | Eratosthenes   | 1271  | 1904   | 2502   | 9493   | Fr. 612   | 2 | 33.5  |
| 21312    |                |       | 1112   | 3299   | 9374   | Sa.1007   | 1 | 1.9   |
| 21320    |                |       | 1210   | 3051   | 9446   | Ar.       | 1 | 1.4   |
| #21331   | Eratosthenes A | 1283  | 1370   | 3144   | 9394   | Sa. 925   | 4 | 3.7   |
| #21342   | Eratosthenes B | 1283a | 1427   | 3204   | 9365   | Sa. 905   | 4 | 3.4   |
| 21360    | Eratosthenes F | 1283f | 1635   | 3035   | 9387   | Sa. 841   | 3 | 2.6   |
| 21368    |                |       | 1644   | 3834   | 9088   | Ar.       | 1 | 1.5   |
| 21370    | Eratosthenes E | 1283c | 1792   | 3076   | 9345   | Sa. 802   | 3 | 2.5   |
| 21408    |                |       | 1064   | 4822   | 8696   | Sa.1016   | 1 | 2.0   |
| 21410    | Archimedes H   | 1150b | 1118   | 4046   | 9076   | Sa.1005   | 1 | 2.0   |
| 21412    | Archimedes E   | 1149  | 1134   | 4222   | 8994   | Sa.1000   | 2 | 1.6   |
| 21420    | Archimedes F   | 1150  | 1240   | 4094   | 9039   | Sa. 968   | 2 | 4.3   |
| 21428    | Archimedes G   | 1150a | 1235   | 4863   | 8650   | Sa. 971   | 2 | 2.0   |
| 21431    |                |       | 1320   | 4186   | 8986   | Ar.       | 1 | 1.8   |
| 21435    | Beer A         | 1185a | 1328   | 4574   | 8793   | Sa. 935   | 2 | 2.2   |
| 21441    |                |       | 1403   | 4156   | 8987   | Ar.       | 1 | 1.7   |
| 21443    | Beer B         | 1185b | 1410   | 4328   | 8904   | Sa. 911   | 1 | 2.0   |
| #21445   | Beer           | 1185  | 1403   | 4548   | 8795   | Sa. 914   | 5 | 5.8   |
| *#21445A | Feuillée       | 1186  | 1455   | 4593   | 8763   | Sa. 897   | 5 | 5.8   |
| 21449    |                |       | 1426   | 4987   | 8550   | Ar.       | 1 | 1.5   |
| 21453    |                |       | 1575   | 4384   | 8849   | Ar.       | 1 | 1.8   |
| 21470    |                |       | 1739   | 4038   | 8982   | Ar.       | 1 | 1.6   |

| Ref.   | Designation   | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam.  |
|--------|---------------|-------|------------|-------------|--------------|-----------|---|--|
| #21486 | Timocharis B  | 1298  | 1860       | 4670        | 8645         | Sa. 783   | 4 | 3.0  |
| 21489  |               |       | 1805       | 4977        | 8484         | Ar.       | 1 | (s)  |
| 21501  |               |       | 1088       | 5177        | 8486         | Ar.       | 1 | 1.6  |
| 21503  | Spitzbergen A | 1141  | 1036       | 5398        | 8354         | Sa.1028   | 4 | 4.0  |
| 21524  | Spitzbergen C | 1142  | 1283       | 5423        | 8303         | Sa. 955   | 4 | 3.8  |
| 21524A | Spitzbergen D | 1143  | 1269       | 5484        | 8265         | Sa. 964   | 2 | 1.9  |
| 21530  |               |       | 1301       | 5038        | 8540         | Ar.       | 1 | (s)  |
| 21553  |               |       | 1536       | 5359        | 8302         | Ar.       | 1 | 1.3  |
| 21569  |               |       | 1609       | 5962        | 7866         | Ar.       | 1 | 1.5  |
| 21569A |               |       | 1654       | 5968        | 7852         | Ar.       | 1 | 1.6  |
| *21608 | Pico $\beta$  | 1113  | 1039       | 6844        | 7216         | Fr. 106   | 5 | (P)  |
| 21610  |               |       | 1117       | 6063        | 7873         | Ar.       | 1 | 1.7  |
| 21633  |               |       | 1329       | 6367        | 7596         | Sa. 934   | 2 | 2.0  |
| 21637  | Pico F        | 1123a | 1308       | 6714        | 7295         | Sa. 943   | 2 | 2.0  |
| #21638 | Pico E        | 1123  | 1306       | 6814        | 7202         | Sa. 944   | 5 | 5.5  |
| 21638A |               |       | 1322       | 6867        | 7149         | Sa. 936   | 1 | 2.0  |
| #21648 | Pico D        | 1122  | 1419       | 6868        | 7129         | Sa. 909   | 4 | 3.5  |
| 21656  |               |       | 1573       | 6629        | 7320         | Ar.       | 1 | 1.8  |
| #21663 | Le Verrier D  | 1302  | 1641       | 6386        | 7518         | Sa. 839   | 5 | 5.2  |
| 21664  | Le Verrier B  | 1304c | 1697       | 6443        | 7457         | Sa. 824   | 3 | 2.9  |
| 21680  |               |       | 1810       | 6048        | 7756         | Sa. 794   | 1 | 2.0  |
| 21683  |               |       | 1862       | 6338        | 7508         | Sa. 782   | 1 | 1.9  |
| 21691  |               |       | 1943       | 6128        | 7660         | Sa. 758   | 1 | 1.8  |
| *21705 |               |       | 1083       | 7580        | 6432         | Sa.1011   | 2 | $\begin{matrix} (N)4.1 \\ (S)3.8 \end{matrix}$ |
| 21712  |               |       | 1155       | 7260        | 6779         | Ar.       | 1 | 1.5  |

| Ref.   | Designation         | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|--------|---------------------|-------|------------|-------------|--------------|-----------|---|-------|
| 21722  | Pico G              | 1124a | 1239       | 7256        | 6769         | Sa. 969   | 2 | 2.1   |
| 21749  | Plato A             | 1064  | 1420       | 7981        | 5855         | Fr. 737   | 2 | 13.6  |
| 21756  | Plato X             | 1077f | 1526       | 7670        | 6233         | Sa. 873   | 2 | 2.6   |
| 21762  |                     |       | 1670       | 7286        | 6643         | Sa. 831   | 2 | 2.1   |
| #21766 | Plato D             | 1069  | 1623       | 7614        | 6276         | Sa. 846   | 5 | 5.5   |
| #21768 | Plato P             | 1074a | 1629       | 7817        | 6020         | Sa. 844   | 4 | 4.8   |
| 21769  | Plato M             | 1074  | 1605       | 7989        | 5797         | Sa. 851   | 3 | 4.8   |
| 21769A | Plato O             | 1077h | 1624       | 7901        | 5911         | Sa. 845   | 1 | 4.8   |
| 21769B | Plato Y             | 1088  | 1682       | 7994        | 5768         | Sa. 827   | 2 | 6.1   |
| 21776  | Plato E             | 1070  | 1797       | 7623        | 6218         | Sa. 800   | 4 | 3.8   |
| #21779 | Plato B             | 1066  | 1782       | 7988        | 5746         | Sa. 805   | 4 | 7.3   |
| #21782 | Pico B              | 1121  | 1823       | 7246        | 6647         | Sa. 792   | 5 | 6.6   |
| 21784  |                     |       | 1884       | 7427        | 6426         | Ar.       | 1 | 1.5   |
| 21787  |                     |       | 1839       | 7758        | 6036         | Ar.       | 1 | 1.4   |
| 21788  | Plato F             | 1071  | 1851       | 7838        | 5928         | Sa. 785   | 2 | 4.3   |
| 21797  |                     |       | 1918       | 7743        | 6031         | Ar.       | 1 | 1.6   |
| 21811  | Plato T             | 1077d | 1131       | 8141        | 5696         | Sa.1001   | 4 | 4.5   |
| #21849 | Fontenelle          | 1323  | 1451       | 8934        | 4251         | Sa. 900   | 4 | 21.8  |
| 21850  | Plato S             | 1077c | 1523       | 8064        | 5715         | Sa. 876   | 2 | 3.1   |
| 21856  | Fontenelle G        | 1328b | 1593       | 8609        | 4832         | Sa. 854   | 1 | 2.1   |
| 21858  | Fontenelle $\alpha$ | 1329  | 1577       | 8861        | 4358         | Sa. 858   | 1 | (P)   |
| 21859  | Fontenelle H        | 1328c | 1504       | 8986        | 4122         | Sa. 883   | 2 | 3.2   |
| 21863  | Plato W             | 1077b | 1652       | 8398        | 5172         | Sa. 836   | 2 | 2.3   |
| 21883  | La Condamine $\nu$  | 1379a | 1890       | 8327        | 5204         | Sa. 774   | 1 | (P)   |
| 21888  | Fontenelle B        | 1326  | 1837       | 8810        | 4359         | Sa. 787   | 3 | 7.9   |



| Ref.    | Designation  | B&M   | ξ    | η    | ζ    | Authority | M | Diam. |
|---------|--------------|-------|------|------|------|-----------|---|-------|
| 21888A  | Fontenelle D | 1326a | 1826 | 8867 | 4247 | Sa. 791   | 1 | 9.9   |
| 21890   | Plato C      | 1067  | 1987 | 8003 | 5657 | Sa. 745   | 2 | 5.7   |
| 21892   |              |       | 1923 | 8263 | 5294 | Sa. 766   | 2 | 4.0   |
| #21902  | Fontenelle A | 1324  | 1059 | 9240 | 3675 | Sa.1019   | 4 | 12.2  |
| 21911   | Fontenelle L | 1328e | 1137 | 9166 | 3834 | Sa. 999   | 1 | 3.8   |
| #21912  | Philolaus F  | 1347  | 1173 | 9270 | 3564 | Sa. 987   | 2 | 4.0   |
| #21913  | J. Cassini E | 1346  | 1120 | 9367 | 3318 | Sa.1004   | 2 | 7.1   |
| #21918  | Philolaus J  | 1347c | 1137 | 9840 | 1374 | Sa. 998   | 1 | 9.6   |
| #21928  | Philolaus L  | 1347a | 1281 | 9806 | 1481 | Sa. 957   | 2 | 11.2  |
| #21928A | Philolaus M  | 1347b | 1293 | 9856 | 1095 | Sa. 948   | 1 | 9.7   |
| *21929  | Philolaus N  | 1347d | 1223 | 9910 | 0536 | Fr. 729   | 2 | 10.7  |
| 21978   | Anaximenes A | 1357  | 1750 | 9833 | 0498 | Fr. 561   | 2 | 17.6  |
| 21990   | Fontenelle C | 1328  | 1970 | 9019 | 3843 | Sa. 748   | 4 | 7.7   |
| 21996   | Anaximenes F | 1359a | 1991 | 9690 | 1466 | Fr. 562   | 2 | 37.4  |
| #22003  | Gambart B    | 1499  | 2002 | 0376 | 9790 | Sa. 740   | 4 | 6.6   |
| #22003A | Gambart G    | 1502  | 2081 | 0339 | 9775 | Sa. 712   | 4 | 3.4   |
| #22005  | Gambart C    | 1500  | 2040 | 0580 | 9773 | Sa. 727   | 5 | 7.0   |
| 22007   |              |       | 2028 | 0768 | 9762 | Ar.       | 1 | 1.5   |
| 22007A  |              |       | 2089 | 0721 | 9753 | Ar.       | 1 | 1.3   |
| 22008   |              |       | 2002 | 0878 | 9758 | Ar.       | 1 | 2.0   |
| 22009   | Gambart M    | 1502e | 2016 | 0935 | 9750 | Sa. 734   | 1 | 2.2   |
| 22016   |              |       | 2177 | 0648 | 9739 | Sa. 686   | 2 | 2.3   |
| 22018   |              |       | 2112 | 0859 | 9737 | Ar.       | 1 | 1.3   |
| 22019   |              |       | 2100 | 0912 | 9734 | Ar.       | 1 | 1.3   |
| 22026   |              |       | 2217 | 0608 | 9732 | Sa. 666   | 1 | 2.0   |

| Ref.    | Designation | B&M   | ξ    | η    | ζ    | Authority | M | Diam. |
|---------|-------------|-------|------|------|------|-----------|---|-------|
| 22026A  |             |       | 2268 | 0679 | 9716 | Ar.       | 1 | 1.5   |
| *22026B |             |       | 2201 | 0629 | 9734 | Ar.       | 1 | 1.5   |
| 22028   |             |       | 2263 | 0837 | 9705 | Ar.       | 1 | 1.5   |
| 22029   |             |       | 2277 | 0919 | 9694 | Ar.       | 1 | 1.3   |
| 22031   |             |       | 2398 | 0154 | 9707 | Ar.       | 1 | (s)   |
| 22032   |             |       | 2352 | 0273 | 9715 | Ar.       | 1 | 1.6   |
| 22032A  |             |       | 2384 | 0281 | 9708 | Ar.       | 1 | 1.3   |
| 22039   |             |       | 2387 | 0903 | 9669 | Ar.       | 1 | 1.6   |
| 22039A  |             |       | 2340 | 0963 | 9675 | Ar.       | 1 | (P)   |
| 22046   | Gambart K   | 1502d | 2447 | 0681 | 9672 | Sa. 596   | 2 | 2.4   |
| 22050   |             |       | 2503 | 0061 | 9681 | Ar.       | 1 | 1.3   |
| 22061   | Gambart     | 1497  | 2622 | 0163 | 9649 | Sa. 530   | 2 | 14.7  |
| 22063   |             |       | 2635 | 0389 | 9639 | Ar.       | 1 | 1.5   |
| 22065   | Gambart L   | 1502e | 2624 | 0568 | 9633 | Sa. 527   | 1 | 2.3   |
| 22065A  |             |       | 2615 | 0501 | 9639 | Ar.       | 1 | (P)   |
| 22066   |             |       | 2616 | 0658 | 9629 | Ar.       | 1 | (P)   |
| 22070   |             |       | 2713 | 0040 | 9625 | Ar.       | 1 | 1.7   |
| 22070A  |             |       | 2764 | 0025 | 9610 | Ar.       | 1 | 1.4   |
| 22071   | Gambart α   | 1508a | 2799 | 0111 | 9600 | Sa. 468   | 1 | (P)   |
| 22071A  |             |       | 2730 | 0144 | 9619 | Ar.       | 1 | (P)   |
| 22073   |             |       | 2757 | 0316 | 9607 | Sa. 479   | 1 | 2.0   |
| 22077   |             |       | 2714 | 0760 | 9595 | Ar.       | 1 | 1.3   |
| 22078   |             |       | 2776 | 0833 | 9571 | Ar.       | 1 | 2.0   |
| 22079   |             |       | 2783 | 0916 | 9561 | Sa. 471   | 1 | 1.9   |
| 22084   |             |       | 2843 | 0442 | 9577 | Ar.       | 1 | (P)   |

| Ref.   | Designation | B&M   | ξ<br>- | η<br>+ | ζ<br>+ | Authority | M | Diam.   |
|--------|-------------|-------|--------|--------|--------|-----------|---|---------|
| 22086  |             |       | 2894   | 0644   | 9550   | Ar.       | 1 | 1.7     |
| 22089  |             |       | 2828   | 0929   | 9547   | Ar.       | 1 | 1.5     |
| 22089A |             |       | 2899   | 0983   | 9520   | Ar.       | 1 | 1.5     |
| 22090  | Gambart F   | 1501a | 2909   | 0016   | 9568   | Sa. 426   | 2 | 2.8     |
| 22091  | Gambart B   | 1502b | 2955   | 0183   | 9552   | Sa. 412   | 1 | 2.5     |
| 22092  |             |       | 2974   | 0205   | 9545   | Ar.       | 1 | 1.4     |
| 22096  |             |       | 2953   | 0683   | 9529   | Ar.       | 1 | 1.8     |
| 22099  |             |       | 2985   | 0964   | 9495   | Sa. 402   |   | 3.2x2.5 |
| 22099A |             |       | 2944   | 0948   | 9509   | Ar.       | 1 | 1.3     |
| 22101  |             |       | 2019   | 1157   | 9725   | Ar.       | 1 | 1.3     |
| 22102  |             |       | 2003   | 1207   | 9723   | Sa. 739   | 3 | 3.1     |
| 22106  |             |       | 2075   | 1609   | 9649   | Sa. 717   | 1 | 1.7     |
| 22112  |             |       | 2197   | 1245   | 9676   | Ar.       | 1 | 1.8     |
| *22114 |             |       | 2132   | 1457   | 9661   | Ar.       | 1 | 1.5     |
| 22115  |             |       | 2138   | 1538   | 9647   | Ar.       | 1 | 1.7     |
| 22115A |             |       | 2129   | 1502   | 9655   | Ar.       | 1 | 1.5     |
| 22116  | Stadius C   | 1467a | 2192   | 1688   | 9610   | Sa. 678   | 1 | 2.0     |
| 22117  |             |       | 2162   | 1766   | 9602   | Sa. 690   | 1 | 2.0     |
| 22117A |             |       | 2151   | 1732   | 9611   | Ar.       | 1 | 1.3     |
| 22121  |             |       | 2248   | 1144   | 9677   | Ar.       | 1 | 1.0     |
| 22126  |             |       | 2298   | 1651   | 9591   | Ar.       | 1 | 1.5     |
| 22127  | Stadius L   | 1467i | 2202   | 1760   | 9595   | Sa. 673   | 1 | 1.8x2.8 |
| 22127A |             |       | 2287   | 1729   | 9580   | Ar.       | 1 | 2.6     |
| 22127B |             |       | 2267   | 1773   | 9577   | Ar.       | 1 | 1.5     |
| 22127C |             |       | 2217   | 1713   | 9599   | Ar.       | 1 | 1.4     |

| Ref.    | Designation | B&M    | ξ<br>- | η<br>+ | ζ<br>+ | Authority | M | Diam.   |
|---------|-------------|--------|--------|--------|--------|-----------|---|---------|
| 22127D  |             |        | 2236   | 1750   | 9589   | Ar.       | 1 | 1.3     |
| 22128   |             |        | 2287   | 1877   | 9552   | Sa. 647   | 1 | 1.3     |
| *22128A |             |        | 2202   | 1826   | 9582   | Ar.       | 1 | 2.0     |
| *22128B |             |        | 2229   | 1885   | 9565   | Ar.       | 1 | 1.6     |
| *22128C |             |        | 2206   | 1843   | 9578   | Ar.       | 1 | 1.9     |
| 22129   |             |        | 2233   | 1926   | 9555   | Ar.       | 1 | 2.0     |
| 22129A  |             |        | 2253   | 1967   | 9542   | Ar.       | 1 | 2.1     |
| 22136   | Stadius K   | 1467h  | 2320   | 1676   | 9582   | Sa. 634   | 1 | 2.5     |
| 22136A  |             |        | 2313   | 1651   | 9588   | Ar.       | 1 | 1.6     |
| 22136B  |             |        | 2355   | 1644   | 9579   | Ar.       | 1 | 1.4     |
| 22136C  |             |        | 2323   | 1648   | 9586   | Ar.       | 1 | 1.4     |
| 22137   |             |        | 2358   | 1746   | 9560   | Sa. 622   | 1 | 2.0     |
| 22138   |             | (1465) | 2358   | 1833   | 9544   | Sa. 621   | 1 | 1.8     |
| 22139   |             |        | 2371   | 1999   | 9507   | Ar.       | 1 | 1.4     |
| 22141   |             |        | 2473   | 1141   | 9622   | Ar.       | 1 | 1.5     |
| 22146   |             |        | 2454   | 1681   | 9547   | Sa. 593   | 1 | 1.7     |
| 22146A  |             |        | 2480   | 1645   | 9547   | Sa. 583   | 1 | 1.8     |
| 22148   |             |        | 2432   | 1825   | 9526   | Ar.       | 1 | 1.3     |
| 22149   | Stadius G   | 1467f  | 2496   | 1948   | 9486   | Sa. 578   | 2 | 2.6x4.0 |
| 22149A  |             |        | 2497   | 1991   | 9476   | Sa. 577   | 2 | 2.3     |
| 22150   |             |        | 2539   | 1084   | 9611   | Ar.       | 1 | (P)     |
| 22150A  |             |        | 2591   | 1071   | 9599   | Ar.       | 1 | (P)     |
| 22151   |             |        | 2541   | 1166   | 9601   | Sa. 564   | 1 | 1.9     |
| 22155   |             |        | 2571   | 1512   | 9545   | Sa. 551   | 1 | 1.9     |
| 22156   |             |        | 2564   | 1662   | 9522   | Sa. 555   | 1 | 1.9     |

| Ref.   | Designation  | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|--------|--------------|-------|------------|-------------|--------------|-----------|---|-------|
| 22157  | Stadius D    | 1467c | 2597       | 1785        | 9490         | Sa. 542   | 1 | 2.1   |
| 22157A |              |       | 2539       | 1713        | 9520         | Sa. 565   | 1 | 1.4   |
| 22157B |              |       | 2510       | 1746        | 9521         | Ar.       | 1 | 1.4   |
| 22158  | Stadius A    | 1466  | 2512       | 1812        | 9508         | Sa. 573   | 2 | 2.8   |
| 22159  |              |       | 2587       | 1924        | 9466         | Sa. 546   | 2 | 2.8   |
| #22162 | Copernicus C | 1485  | 2635       | 1240        | 9567         | Sa. 525   | 3 | 3.6   |
| 22162A |              |       | 2618       | 1275        | 9567         | Sa. 536   | 1 | 1.7   |
| 22162B |              |       | 2607       | 1297        | 9567         | Sa. 539   | 1 | 1.8   |
| 22164  |              |       | 2666       | 1418        | 9533         | Ar.       | 1 | 1.8   |
| 22165  |              |       | 2645       | 1520        | 9523         | Ar.       | 1 | 1.4   |
| 22166  | Stadius N    | 14671 | 2656       | 1635        | 9501         | Sa. 517   | 2 | 2.7   |
| 22166A |              |       | 2682       | 1630        | 9495         | Sa. 505   | 1 | 2.5   |
| 22166B |              |       | 2644       | 1670        | 9499         | Sa. 520   | 1 | 2.0   |
| *22168 |              |       | 2685       | 1851        | 9453         | Ar.       | 1 | 1.6   |
| 22169  |              |       | 2687       | 1936        | 9436         | Sa. 502   | 1 | 2.1   |
| 22172  |              |       | 2735       | 1238        | 9539         | Sa. 486   | 1 | 2.1   |
| 22177  | Copernicus P | 1486g | 2716       | 1753        | 9463         | Sa. 487   | 1 | 2.8   |
| 22182  |              |       | 2822       | 1238        | 9514         | Sa. 458   | 1 | 1.5   |
| 22182A |              |       | 2874       | 1285        | 9492         | Sa. 435   | 1 | 1.9   |
| 22182B |              |       | 2859       | 1264        | 9499         | Sa. 443   | 1 | 1.6   |
| 22182C |              |       | 2845       | 1278        | 9501         | Sa. 449   | 1 | 1.8   |
| 22182D |              |       | 2841       | 1219        | 9510         | Sa. 450   | 1 | 1.5   |
| 22183  |              |       | 2805       | 1309        | 9509         | Sa. 465   | 1 | 1.9   |
| 22184  |              |       | 2859       | 1400        | 9480         | Sa. 442   | 1 | 2.1   |
| 22189  |              |       | 2813       | 1950        | 9396         | Ar.       | 1 | 1.5   |

| Ref.   | Designation    | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|--------|----------------|-------|------------|-------------|--------------|-----------|---|-------|
| 22191  |                |       | 2984       | 1186        | 9471         | Sa. 403   | 1 | 2.1   |
| 22192  |                |       | 2944       | 1241        | 9476         | Sa. 415   | 1 | 1.7   |
| 22201  |                |       | 2046       | 2114        | 9558         | Sa. 725   | 1 | 2.0   |
| 22203  |                |       | 2063       | 2303        | 9510         | Ar.       | 1 | 1.8   |
| 22209  | Eratosthenes C | 1283c | 2047       | 2902        | 9348         | Sa. 724   | 3 | 3.2   |
| #22220 | Stadius B      | 1467  | 2299       | 2052        | 9513         | Sa. 643   | 4 | 3.4   |
| 22220A |                |       | 2288       | 2080        | 9510         | Sa. 646   | 1 | 2.2   |
| 22222  |                |       | 2217       | 2269        | 9484         | Ar.       | 1 | 1.9   |
| 22223  |                |       | 2262       | 2386        | 9444         | Ar.       | 1 | 2.0   |
| 22223A |                |       | 2226       | 2376        | 9455         | Ar.       | 1 | (F)   |
| 22224  |                |       | 2276       | 2420        | 9432         | Ar.       | 1 | 1.9   |
| 22230  | Stadius H      | 1467g | 2360       | 2012        | 9507         | Sa. 619   | 1 | 2.2   |
| 22230A |                |       | 2345       | 2087        | 9495         | Sa. 626   | 1 | 2.7   |
| 22230B |                |       | 2308       | 2083        | 9505         | Sa. 639   | 1 | 1.8   |
| 22230C |                |       | 2345       | 2003        | 9513         | Ar.       | 1 | 1.6   |
| 22233  | Eratosthenes Z | 1271a | 2365       | 2375        | 9422         | Sa. 618   | 1 | (s)   |
| 22234  |                |       | 2366       | 2454        | 9401         | Ar.       | 1 | 1.0   |
| 22240  |                |       | 2408       | 2072        | 9482         | Ar.       | 1 | 1.5   |
| 22240A |                |       | 2471       | 2081        | 9464         | Ar.       | 1 | 1.5   |
| 22241  |                |       | 2495       | 2171        | 9437         | Sa. 579   | 1 | 1.5   |
| 22241A |                |       | 2414       | 2120        | 9470         | Ar.       | 1 | 1.5   |
| 22242  |                |       | 2464       | 2224        | 9433         | Sa. 587   | 1 | 1.7   |
| 22242A |                |       | 2487       | 2251        | 9421         | Ar.       | 1 | 1.5   |
| 22243  |                |       | 2481       | 2346        | 9399         | Ar.       | 1 | 1.6   |

| Ref.    | Designation         | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|---------|---------------------|-------|------------|-------------|--------------|-----------|---|-------|
| 22244   |                     |       | 2474       | 2458        | 9372         | Ar.       | 1 | 1.9   |
| 22245   |                     |       | 2458       | 2573        | 9346         | Ar.       | 1 | 1.4   |
| 22245A  | Eratosthenes $\eta$ | 1281  | 2409       | 2528        | 9371         | Ar.       | 1 | (P)   |
| 22248   |                     |       | 2472       | 2887        | 9249         | Ar.       | 1 | 1.7   |
| 22250   |                     |       | 2534       | 2071        | 9449         | Ar.       | 1 | 2.0   |
| 22251   |                     |       | 2562       | 2120        | 9431         | Sa. 556   | 2 | 3.3   |
| 22252   |                     |       | 2504       | 2205        | 9427         | Sa. 575   | 1 | 1.8   |
| 22253   |                     |       | 2552       | 2303        | 9391         | Sa. 558   | 1 | 1.9   |
| 22253A  |                     |       | 2586       | 2311        | 9379         | Sa. 547   | 1 | 2.1   |
| 22253B  |                     |       | 2568       | 2344        | 9376         | Sa. 553   | 1 | 2.3   |
| 22253C  |                     |       | 2595       | 2333        | 9371         | Sa. 543   | 1 | 2.0   |
| 22260   |                     |       | 2605       | 2016        | 9442         | Ar.       | 1 | 1.6   |
| 22261   | Stadius E           | 1467d | 2621       | 2179        | 9401         | Sa. 533   | 2 | 2.8   |
| 22261A  |                     |       | 2686       | 2118        | 9397         | Sa. 503   | 1 | 2.2   |
| *22262  | Stadius F           | 1467e | 2626       | 2254        | 9382         | Sa. 526   | 2 | 2.7   |
| 22262A  |                     |       | 2638       | 2277        | 9373         | Sa. 523   | 1 | 3.5   |
| 22262B  |                     |       | 2611       | 2231        | 9392         | Sa. 538   | 2 | 2.8   |
| *22263  | Stadius J           | 1467b | 2689       | 2383        | 9332         | Sa. 501   | 1 | 2.9   |
| 22263A  |                     |       | 2671       | 2394        | 9335         | Sa. 514   | 1 | 2.6   |
| 22263B  |                     |       | 2624       | 2381        | 9351         | Ar.       | 1 | 1.9   |
| 22263C  |                     |       | 2670       | 2352        | 9346         | Ar.       | 1 | 1.5   |
| 22264   |                     |       | 2681       | 2416        | 9326         | Sa. 506   | 1 | 2.0   |
| *22274  |                     |       | 2741       | 2414        | 9309         | Ar.       | 1 | 2.9   |
| *22274A |                     |       | 2742       | 2435        | 9303         | Ar.       | 1 | 2.8   |
| 22274B  |                     |       | 2747       | 2479        | 9290         | Ar.       | 1 | 1.7   |

| Ref.    | Designation  | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|---------|--------------|-------|------------|-------------|--------------|-----------|---|-------|
| 22274C  |              |       | 2700       | 2403        | 9324         | Sa. 495   | 1 | 2.6   |
| 22275   | Stadius M    | 1467k | 2749       | 2537        | 9274         | Sa. 482   | 1 | 3.7   |
| 22275A  |              |       | 2787       | 2530        | 9265         | Sa. 470   | 1 | 2.4   |
| 22275B  |              |       | 2762       | 2585        | 9257         | Sa. 476   | 1 | 2.0   |
| 22276   |              |       | 2754       | 2604        | 9254         | Sa. 480   | 1 | 2.9   |
| 22280   |              |       | 2828       | 2077        | 9364         | Sa. 455   | 1 | 2.6   |
| 22281   |              |       | 2839       | 2152        | 9344         | Sa. 451   | 1 | 2.1   |
| 22282   |              |       | 2800       | 2213        | 9341         | Sa. 467   | 1 | 2.1   |
| 22283   | Copernicus I | 1486f | 2849       | 2329        | 9299         | Sa. 448   | 1 | 2.4   |
| 22284   |              |       | 2814       | 2480        | 9270         | Sa. 460   | 1 | 1.9   |
| *22284A |              |       | 2813       | 2438        | 9281         | Ar.       | 1 | 2.0   |
| 22285   |              |       | 2813       | 2530        | 9257         | Sa. 461   | 1 | 2.1   |
| *22287  |              |       | 2895       | 2755        | 9167         | Ar.       | 1 | 2.7   |
| 22288   |              |       | 2811       | 2845        | 9165         | Ar.       | 1 | 1.4   |
| 22290   | Copernicus K | 1486e | 2928       | 2099        | 9329         | Sa. 418   | 1 | 3.7   |
| *22292  |              |       | 2995       | 2223        | 9278         | Ar.       | 1 | 1.9   |
| *22293  |              |       | 2933       | 2340        | 9269         | Ar.       | 1 | 2.0   |
| 22293A  |              |       | 2907       | 2395        | 9263         | Ar.       | 1 | 1.4   |
| 22294   |              |       | 2902       | 2488        | 9241         | Ar.       | 1 | 1.8   |
| 22294A  |              |       | 2975       | 2446        | 9229         | Ar.       | 1 | 1.5   |
| 22297   |              |       | 2991       | 2740        | 9141         | Sa. 401   | 1 | 1.9   |
| 22300   |              |       | 2097       | 3065        | 9285         | Ar.       | 1 | 1.8   |
| 22301   |              |       | 2007       | 3169        | 9270         | Ar.       | 1 | (P)   |
| 22312   |              |       | 2188       | 3268        | 9194         | Ar.       | 1 | 1.3   |
| 22333   |              |       | 2311       | 3383        | 9122         | Ar.       | 1 | (s)   |

| Ref.    | Designation  | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam. |
|---------|--------------|-------|-------|--------|---------|-----------|---|-------|
|         |              |       | -     | +      | +       |           |   |       |
| 22334   |              |       | 2361  | 3474   | 9075    | Ar.       | 1 | (s)   |
| 22364   |              |       | 2659  | 3498   | 8983    | Ar.       | 1 | 1.7   |
| 22364A  |              |       | 2617  | 3403   | 9032    | Ar.       | 1 | 1.3   |
| 22366   |              |       | 2680  | 3627   | 8925    | Ar.       | 1 | 1.8   |
| 22371   |              |       | 2748  | 3190   | 9070    | Ar.       | 1 | 1.8   |
| 22381   |              |       | 2870  | 3198   | 9030    | Sa. 437   | 1 | 1.6   |
| 22384   |              |       | 2860  | 3400   | 8959    | Sa. 439   | 1 | 1.8   |
| 22386   | Pytheas G    | 1409b | 2822  | 3680   | 8860    | Sa. 457   | 1 | 2.0   |
| 22395   |              |       | 2937  | 3579   | 8863    | Ar.       | 1 | 1.3   |
| #22404  | Timocharis   | 1296  | 2019  | 4492   | 8703    | Sa. 732   | 3 | 20.3  |
| *22404A |              |       | 2021  | 4484   | 8707    | Ar.       | 1 | 2.7   |
| 22408   |              |       | 2054  | 4855   | 8498    | Ar.       | 1 | (s)   |
| 22421   | Timocharis C | 1298a | 2223  | 4188   | 8804    | Sa. 662   | 2 | 2.3   |
| 22428   |              |       | 2210  | 4861   | 8455    | Ar.       | 1 | 1.5   |
| 22428A  |              |       | 2259  | 4831   | 8459    | Ar.       | 1 | (s)   |
| 22430   | Timocharis D | 1298b | 2390  | 4043   | 8828    | Sa. 613   | 1 | 1.9   |
| 22432   |              |       | 2380  | 4233   | 8742    | Ar.       | 1 | 1.5   |
| 22433   |              |       | 2324  | 4308   | 8720    | Ar.       | 1 | 1.6   |
| 22437   |              |       | 2345  | 4774   | 8468    | Ar.       | 1 | (s)   |
| #22441  | Timocharis A | 1297  | 2400  | 4196   | 8754    | Sa. 611   | 4 | 4.3   |
| 22442   |              |       | 2412  | 4224   | 8737    | Sa. 607   | 1 | 1.9   |
| 22442A  |              |       | 2429  | 4258   | 8716    | Ar.       | 1 | 1.5   |
| 22444   |              |       | 2468  | 4484   | 8591    | Ar.       | 1 | 1.7   |
| 22457   |              |       | 2500  | 4705   | 8462    | Ar.       | 1 | 1.5   |
| 22460   |              |       | 2614  | 4004   | 8782    | Ar.       | 1 | 1.5   |

| Ref.   | Designation      | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam. |
|--------|------------------|-------|-------|--------|---------|-----------|---|-------|
|        |                  |       | -     | +      | +       |           |   |       |
| 22461  | Timocharis E     | 1298c | 2674  | 4163   | 8690    | Sa. 511   | 2 | 2.5   |
| 22465  | Lambert $\delta$ | 1404a | 2619  | 4580   | 8495    | Sa. 535   | 1 | (P)   |
| #22484 | Lambert $\gamma$ | 1404  | 2833  | 4459   | 8490    | Sa. 453   | 2 | (P)   |
| 22487  |                  |       | 2839  | 4718   | 8347    | Ar.       | 1 | (s)   |
| 22500  |                  |       | 2011  | 5079   | 8376    | Ar.       | 1 | 1.4   |
| 22506  |                  |       | 2080  | 5644   | 7989    | Ar.       | 1 | (s)   |
| #22511 | Timocharis F     | 1298d | 2177  | 5190   | 8266    | Sa. 685   | 4 | 3.8   |
| 22513  |                  |       | 2184  | 5333   | 8172    | Sa. 680   | 1 | 1.8   |
| 22524  |                  |       | 2212  | 5427   | 8103    | Sa. 670   | 1 | 1.9   |
| #22534 | Carlini D        | 1394  | 2311  | 5439   | 8067    | Sa. 637   | 4 | 5.3   |
| 22536  |                  |       | 2399  | 5626   | 7911    | Ar.       | 1 | (s)   |
| 22543  |                  |       | 2453  | 5358   | 8079    | Ar.       | 1 | (s)   |
| 22569  |                  |       | 2633  | 5947   | 7596    | Ar.       | 1 | (s)   |
| 22577  |                  |       | 2731  | 5708   | 7743    | Ar.       | 1 | 1.5   |
| 22581  |                  |       | 2826  | 5177   | 8075    | Ar.       | 1 | 1.5   |
| 22587  |                  |       | 2864  | 5702   | 7699    | Ar.       | 1 | 1.3   |
| 22589  |                  |       | 2850  | 5958   | 7509    | Ar.       | 1 | 1.7   |
| 22592  |                  |       | 2926  | 5246   | 7995    | Ar.       | 1 | 1.5   |
| 22592A |                  |       | 2978  | 5236   | 7982    | Ar.       | 1 | (s)   |
| #22617 | Le Verrier E     | 1303  | 2155  | 6736   | 7070    | Sa. 696   | 4 | 3.8   |
| *22618 |                  |       | 2161  | 6876   | 6932    | Ar.       | 1 | (s)   |
| 22631  | Le Verrier A     | 1304b | 2338  | 6172   | 7513    | Sa. 627   | 3 | 2.6   |
| 22647  |                  |       | 2498  | 6718   | 6974    | Ar.       | 1 | 1.6   |
| 22649  |                  |       | 2459  | 6968   | 6738    | Ar.       | 1 | 1.6   |
| 22658  |                  |       | 2576  | 6805   | 6860    | Ar.       | 1 | 1.6   |

| Ref.    | Designation         | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M     | Diam. |
|---------|---------------------|-------|------------|-------------|--------------|-----------|-------|-------|
| 22660   |                     |       | 2611       | 6011        | 7553         | Ar.       | 1     | 1.4   |
| 22664   | Le Verrier          | 1304  | 2677       | 6468        | 7142         | Sa.       | 509 5 | 12.2  |
| 22672   |                     |       | 2743       | 6285        | 7278         | Ar.       | 1     | 1.7   |
| 22674   | Le Verrier T        | 1304a | 2713       | 6404        | 7186         | Sa.       | 488 1 | 2.3   |
| #22681  | Helicon B           | 1300  | 2859       | 6143        | 7355         | Sa.       | 440 3 | 3.2   |
| 22694   | Helicon             | 1299  | 2980       | 6477        | 7012         | Sa.       | 405 4 | 14.1  |
| *22694A |                     |       | 2979       | 6474        | 7015         | Ar.       | 1     | 1.7   |
| 22697   |                     |       | 2964       | 6777        | 6730         | Ar.       | 1     | 1.3   |
| 22704   | St. Range B         | 1322b | 2077       | 7483        | 6300         | Sa.       | 715 2 | 4.9   |
| 22708   | Pr. Laplace M       | 1319d | 2080       | 7898        | 5770         | Sa.       | 714 3 | 4.2   |
| 22717   | Pr. Laplace B       | 1316  | 2116       | 7796        | 5895         | Sa.       | 704 2 | 3.0   |
| 22728   | Pr. Laplace L       | 1319c | 2222       | 7842        | 5793         | Sa.       | 664 4 | 4.2   |
| 22728A  |                     |       | 2276       | 7836        | 5781         | Sa.       | 651 1 | 4.0   |
| 22731   | Pr. Laplace F       | 1321  | 2375       | 7127        | 6600         | Sa.       | 614 4 | 3.6   |
| 22739   | Pr. Laplace H       | 1319a | 2345       | 7928        | 5626         | Sa.       | 625 1 | 3.0   |
| 22744   | St. Range e         | 1311  | 2436       | 7473        | 6182         | Sa.       | 598 4 | (P)   |
| *22749  | La Condamine P      | 1368l | 2416       | 7962        | 5547         | Sa.       | 603 2 | 5.8   |
| 22749A  |                     |       | 2461       | 7939        | 5561         | Sa.       | 590 4 | 4.6   |
| 22749B  |                     |       | 2493       | 7983        | 5483         | Sa.       | 580 2 | 4.0   |
| 22755   |                     |       | 2501       | 7546        | 6066         | Ar.       | 1     | 1.6   |
| 22763   | Pr. Laplace $\beta$ | 1307  | 2692       | 7332        | 6244         | Sa.       | 499 2 | (P)   |
| 22766   | Maupertuis C        | 1382  | 2603       | 7683        | 5848         | Sa.       | 540 1 | 5.6   |
| #22767  | Maupertuis A        | 1381  | 2649       | 7728        | 5768         | Sa.       | 519 4 | 8.2   |
| 22768   | La Condamine K      | 1368a | 2668       | 7860        | 5577         | Sa.       | 515 1 | 4.8   |
| 22768A  |                     |       | 2642       | 7847        | 5607         | Sa.       | 521 1 | 3.8   |

| Ref.   | Designation         | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M     | Diam. |
|--------|---------------------|-------|------------|-------------|--------------|-----------|-------|-------|
| 22769  | La Condamine H      | 1368g | 2691       | 7991        | 5376         | Sa.       | 500 2 | 3.9   |
| 22788  | Maupertuis B        | 1368  | 2814       | 7800        | 5589         | Sa.       | 459 1 | 3.6   |
| 22792  | Pr. Laplace C       | 1317  | 2967       | 7239        | 6229         | Sa.       | 408 1 | 5.4   |
| #22793 | Pr. Laplace D       | 1318  | 2926       | 7339        | 6131         | Sa.       | 419 4 | 6.3   |
| 22801  | La Condamine R      | 1368m | 2081       | 8182        | 5360         | Sa.       | 713 3 | 3.6   |
| 22811  | La Condamine $\rho$ | 1377  | 2185       | 8195        | 5298         | Sa.       | 679 3 | (P)   |
| 22819  | Fontenelle M        | 1328f | 2179       | 8912        | 3979         | Sa.       | 684 2 | 5.1   |
| 22819A | Fontenelle N        | 1328g | 2169       | 8983        | 3822         | Sa.       | 688 3 | 4.8   |
| 22821  |                     |       | 2266       | 8115        | 5386         | Sa.       | 655 2 | 3.9   |
| 22821A |                     |       | 2235       | 8138        | 5365         | Sa.       | 661 2 | 4.1   |
| 22826  |                     |       | 2292       | 8698        | 4369         | Sa.       | 645 2 | 4.2   |
| 22831  |                     |       | 2371       | 8132        | 5315         | Sa.       | 616 1 | 3.6   |
| 22838  | J. Herschel R       | 1682h | 2349       | 8863        | 3990         | Sa.       | 624 4 | 5.7   |
| 22840  |                     |       | 2454       | 8000        | 5475         | Sa.       | 592 2 | 3.7   |
| 22841  | La Condamine O      | 1367a | 2467       | 8197        | 5169         | Sa.       | 585 2 | 4.1   |
| 22849  | J. Herschel P       | 1682g | 2418       | 8949        | 3750         | Sa.       | 602 1 | 3.5   |
| 22850  | La Condamine N      | 1368k | 2549       | 8066        | 5334         | Sa.       | 561 2 | 4.9   |
| 22855  |                     |       | 2531       | 8586        | 4458         | Sa.       | 567 2 | 3.0   |
| 22860  | La Condamine L      | 1368h | 2676       | 8044        | 5304         | Sa.       | 510 1 | 4.2   |
| 22861  | La Condamine M      | 1368i | 2623       | 8100        | 5246         | Sa.       | 529 2 | 3.5   |
| 22871  | La Condamine G      | 1368f | 2709       | 8171        | 5090         | Sa.       | 493 1 | 4.7   |
| 22874  | La Condamine F      | 1368e | 2778       | 8413        | 4637         | Sa.       | 473 3 | 4.1   |
| 22875  | La Condamine B      | 1367  | 2711       | 8552        | 4417         | Sa.       | 489 3 | 9.6   |
| 22876  | J. Herschel N       | 1682f | 2710       | 8662        | 4198         | Sa.       | 490 2 | 4.0   |
| 22880  | La Condamine        | 1365  | 2807       | 8030        | 5257         | Sa.       | 463 3 | 21.5  |

| Ref.   | Designation         | B&M          | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam. |
|--------|---------------------|--------------|-------|--------|---------|-----------|---|-------|
| 22882  | La Condamine $\tau$ | 1378         | 2857  | 8297   | 4795    | Sa. 444   | 1 | (P)   |
| 22884  | La Condamine E      | 1368d        | 2832  | 8445   | 4545    | Sa. 454   | 1 | 4.5   |
| 22887  |                     |              | 2856  | 8797   | 3801    | Sa. 445   | 2 | 3.5   |
| #22888 | J. Herschel K       | 1682b        | 2890  | 8897   | 3535    | Sa. 430   | 2 | 4.5   |
| #22891 | La Condamine A      | 1366         | 2921  | 8127   | 5042    | Sa. 421   | 4 | 10.1  |
| 22894  | J. Herschel M       | 1682e        | 2942  | 8408   | 4544    | Sa. 416   | 1 | 4.7   |
| #22895 | J. Herschel F       | 1682         | 2998  | 8552   | 4228    | Sa. 399   | 3 | 11.0  |
| #22898 | J. Herschel C       | 1679         | 2983  | 8851   | 3572    | Sa. 404   | 3 | 7.0   |
| #22900 | Fontenelle F        | 1328a        | 2039  | 9010   | 3829    | Sa. 728   | 4 | 6.1   |
| 22901  | Anaximenes E        | 1359c        | 2076  | 9170   | 3406    | Sa. 716   | 3 | 5.5   |
| 22906  | Anaximenes H        | 1359b        | 2025  | 9688   | 1430    | Fr. 563   | 2 | 4.1   |
| 22907  | Anaximenes C        | 1360         | 2093  | 9755   | 0671    | Fr. 564g  | 2 | 41.4  |
| 22915  | Anaximenes          | 1356         | 2110  | 9530   | 2175    | Fr. 560   | 2 | 46.0  |
| 22923  | Anaximenes B        | 1358         | 2215  | 9326   | 2848    | Sa. 668   | 2 | 4.9   |
| #22946 | Carpenter F         | 1694a        | 2414  | 9690   | 0520    | Sa. 606   | 1 | 15.7  |
| 22956  | Carpenter D         | 1361<br>1694 | 2505  | 9628   | 1010    | Fr. 546   | 2 | 58.8  |
| 22965  | Carpenter G         | 1694b        | 2664  | 9562   | 1211    | Fr. 549   | 2 | 7.4   |
| 22970  | Anaximander H       | 1693d        | 2742  | 9073   | 3189    | Fr. 663   | 2 | 5.3   |
| 22973  | Carpenter           | 1692         | 2726  | 9361   | 2225    | Fr. 545   | 2 | 34.3  |
| 22982  | Anaximander A       | 1691         | 2875  | 9273   | 2399    | Fr. 544   | 2 | 9.0   |
| 22985  | Carpenter J         | 1694c        | 2857  | 9521   | 1088    | Fr. 551   | 2 | 8.0   |
| 22992  | Anaximander S       | 1693a        | 2968  | 9286   | 2228    | Fr. 557   | 2 | 4.1   |
| 23000  |                     |              | 3098  | 0049   | 9508    | Ar.       | 1 | 1.5   |
| 23005  | Gambart D           | 1501         | 3031  | 0586   | 9512    | Sa. 394   | 1 | 3.0   |
| 23006  |                     |              | 3076  | 0641   | 9494    | Ar.       | 1 | (P)   |

| Ref.    | Designation        | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam. |
|---------|--------------------|-------|-------|--------|---------|-----------|---|-------|
| 23007   |                    |       | 3033  | 0716   | 9502    | Ar.       | 1 | 1.5   |
| 23018   |                    |       | 3175  | 0847   | 9445    | Ar.       | 1 | 1.6   |
| 23019   |                    |       | 3176  | 0978   | 9432    | Ar.       | 1 | 1.4   |
| 23020   | Reinhold $\lambda$ | 1517g | 3279  | 0089   | 9447    | Sa. 334   | 1 | (P)   |
| *23020A |                    |       | 3248  | 0016   | 9458    | Ar.       | 1 | (P)   |
| #23021  | Gambart A          | 1498  | 3208  | 0168   | 9470    | Sa. 351   | 5 | 6.9   |
| 23022   |                    |       | 3279  | 0299   | 9442    | Ar.       | 1 | 1.6   |
| 23023   |                    |       | 3250  | 0370   | 9450    | Ar.       | 1 | (P)   |
| 23024   |                    |       | 3266  | 0417   | 9442    | Sa. 340   | 1 | (P)   |
| 23025   | Reinhold $\pi$     | 1517h | 3270  | 0588   | 9432    | Sa. 337   | 1 | (P)   |
| 23026   |                    |       | 3204  | 0613   | 9453    | Ar.       | 1 | 1.5   |
| 23028   |                    |       | 3265  | 0818   | 9416    | Ar.       | 1 | 1.6   |
| 23029   | Fauth C            | 1483b | 3209  | 0910   | 9427    | Sa. 350   | 1 | 2.1   |
| 23031   |                    |       | 3325  | 0167   | 9430    | Ar.       | 1 | (P)   |
| 23032   | Reinhold $\nu$     | 1517f | 3307  | 0290   | 9433    | Sa. 327   | 1 | (P)   |
| 23032A  |                    |       | 3329  | 0254   | 9426    | Ar.       | 1 | (P)   |
| 23033   |                    |       | 3361  | 0391   | 9410    | Ar.       | 1 | 1.4   |
| 23034   |                    |       | 3335  | 0472   | 9415    | Ar.       | 1 | 1.6   |
| 23034A  |                    |       | 3388  | 0448   | 9398    | Ar.       | 1 | 1.3   |
| 23035   | Reinhold $\mu$     | 1517e | 3375  | 0586   | 9395    | Sa. 316   | 1 | (P)   |
| 23035A  |                    |       | 3339  | 0548   | 9410    | Ar.       | 1 | (P)   |
| 23038   |                    |       | 3373  | 0842   | 9376    | Sa. 318   | 1 | 1.8   |
| 23041   |                    |       | 3463  | 0162   | 9380    | Ar.       | 1 | 1.7   |
| 23043   |                    |       | 3414  | 0398   | 9391    | Ar.       | 1 | 1.5   |

| Ref.   | Designation         | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|--------|---------------------|-------|------------|-------------|--------------|-----------|---|-------|
| 23043A |                     |       | 3401       | 0345        | 9397         | Ar.       | 1 | (P)   |
| 23044  |                     |       | 3460       | 0439        | 9372         | Ar.       | 1 | 1.6   |
| 23045  |                     |       | 3475       | 0555        | 9361         | Ar.       | 1 | (P)   |
| 23047  |                     |       | 3488       | 0796        | 9338         | Ar.       | 1 | (P)   |
| 23048  |                     |       | 3472       | 0832        | 9341         | Sa. 293   | 1 | (P)   |
| 23051  |                     |       | 3597       | 0184        | 9329         | Ar.       | 1 | 1.3   |
| 23056  | Reinhold $\theta$   | 1517b | 3591       | 0622        | 9312         | Sa. 259   | 1 | (P)   |
| 23057  | Reinhold $\epsilon$ | 1517c | 3574       | 0707        | 9313         | Sa. 263   | 1 | (P)   |
| 23057A | Reinhold $\chi$     | 1517d | 3526       | 0759        | 9327         | Sa. 280   | 1 | (P)   |
| 23057B |                     |       | 3564       | 0744        | 9313         | Ar.       | 1 | 2.2   |
| 23057C |                     |       | 3559       | 0795        | 9311         | Ar.       | 1 | 1.9   |
| 23058  |                     |       | 3599       | 0852        | 9291         | Ar.       | 1 | 1.5   |
| 23058A |                     |       | 3507       | 0897        | 9322         | Ar.       | 1 | (P)   |
| 23059  | Fauth E             | 1483d | 3516       | 0935        | 9315         | Sa. 283   | 1 | 2.0   |
| 23059A |                     |       | 3552       | 0921        | 9303         | Ar.       | 1 | 1.7   |
| 23062  |                     |       | 3690       | 0223        | 9291         | Ar.       | 1 | 1.4   |
| 23063  |                     |       | 3655       | 0384        | 9300         | Ar.       | 1 | 1.6   |
| 23065  | Reinhold F          | 1512e | 3642       | 0584        | 9295         | Sa. 252   | 1 | 3.1   |
| 23066  |                     |       | 3643       | 0688        | 9288         | Ar.       | 1 | 1.7   |
| 23067  | Reinhold A          | 1511  | 3694       | 0724        | 9265         | Sa. 241   | 2 | 2.1   |
| 23067A | Reinhold B          | 1512  | 3675       | 0748        | 9270         | Sa. 246   | 2 | 14.5  |
| 23068  | Reinhold $\eta$     | 1517a | 3631       | 0848        | 9279         | Sa. 254   | 1 | (P)   |
| 23083  | Reinhold $\beta$    | 1514  | 3823       | 0330        | 9234         | Sa. 222   | 1 | (P)   |
| 23085  |                     |       | 3855       | 0577        | 9209         | Ar.       | 1 | (P)   |
| 23085A |                     |       | 3867       | 0535        | 9207         | Ar.       | 1 | (P)   |

| Ref.   | Designation        | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|--------|--------------------|-------|------------|-------------|--------------|-----------|---|-------|
| 23098  |                    |       | 3920       | 0857        | 9160         | Sa. 213   | 1 | 2.2   |
| 23099  | Reinhold E         | 1512d | 3908       | 0919        | 9159         | Sa. 214   | 1 | 2.6   |
| 23102  |                    |       | 3018       | 1242        | 9452         | Sa. 396   | 1 | 1.6   |
| 23110  | Fauth D            | 1483c | 3145       | 1047        | 9435         | Sa. 366   | 2 | 2.8   |
| 23110A |                    |       | 3108       | 1014        | 9450         | Sa. 373   | 1 | 2.1   |
| 23112  | Copernicus H       | 1486d | 3111       | 1200        | 9428         | Sa. 372   | 3 | 2.7   |
| 23116  |                    |       | 3187       | 1649        | 9334         | Ar.       | 1 | 1.8   |
| 23120  | Fauth B            | 1483a | 3284       | 1010        | 9391         | Sa. 331   | 2 | 2.2   |
| 23130  |                    |       | 3319       | 1027        | 9377         | Sa. 325   | 1 | 2.0   |
| 23136  | Copernicus $\beta$ | 1489  | 3334       | 1682        | 9277         | Sa. 322   | 2 | (WCP) |
| 23136A |                    |       | 3369       | 1676        | 9265         | Ar.       | 1 | (P)   |
| #23140 | Fauth              | 1482  | 3415       | 1090        | 9335         | Sa. 306   | 4 | 7.0   |
| 23140A | Fauth A            | 1483  | 3423       | 1044        | 9338         | Sa. 304   | 2 | 5.5   |
| 23146  | Copernicus $\beta$ | 1489  | 3408       | 1649        | 9256         | Sa. 307   | 2 | (ECP) |
| 23160  | Copernicus G       | 1486c | 3638       | 1032        | 9257         | Sa. 253   | 1 | 2.3   |
| 23170  | Copernicus F       | 1486b | 3759       | 1024        | 9210         | Sa. 234   | 1 | 2.6   |
| 23170A |                    |       | 3736       | 1035        | 9218         | Sa. 237   | 1 | 2.4   |
| 23173  | Copernicus B       | 1484  | 3769       | 1311        | 9169         | Sa. 232   | 1 | 3.8   |
| 23173A |                    |       | 3747       | 1303        | 9179         | Ar.       | 1 | 2.1   |
| 23181  | Copernicus E       | 1486a | 3828       | 1116        | 9171         | Sa. 221   | 1 | 2.3   |
| 23189  |                    |       | 3842       | 1955        | 9023         | Ar.       | 1 | 1.9   |
| *23194 |                    |       | 3986       | 1451        | 9056         | Ar.       | 1 | 3.0   |
| 23208  |                    |       | 3070       | 2800        | 9096         | Ar.       | 1 | 1.6   |
| 23212  |                    |       | 3176       | 2293        | 9201         | Ar.       | 1 | 2.3   |
| 23213  | Gay-Lussac G       | 1439d | 3136       | 2393        | 9189         | Sa. 368   | 2 | 3.0   |



| Ref.   | Designation  | B&M    | ξ<br>- | η<br>+ | ζ<br>+ | Authority | M | Diam. |
|--------|--------------|--------|--------|--------|--------|-----------|---|-------|
| 23216  |              |        | 3184   | 2616   | 9112   | Sa. 357   | 1 | 2.4   |
| 23217  |              |        | 3129   | 2775   | 9084   | Ar.       | 1 | 1.5   |
| 23218  | Pytheas F    | 1409a  | 3135   | 2840   | 9061   | Sa. 369   | 2 | 2.4   |
| 23224  | Gay-Lussac F | 1439c  | 3257   | 2420   | 9140   | Sa. 342   | 3 | 3.0   |
| 23225  |              |        | 3222   | 2526   | 9124   | Ar.       | 1 | 2.3   |
| 23225A |              |        | 3250   | 2531   | 9112   | Ar.       | 1 | 1.6   |
| #23232 | Gay-Lussac A | 1438   | 3385   | 2278   | 9130   | Sa. 313   | 3 | 9.7   |
| 23234  |              |        | 3343   | 2440   | 9103   | Ar.       | 1 | 1.5   |
| 23237  |              |        | 3377   | 2709   | 9014   | Ar.       | 1 | 2.4   |
| 23243  |              | (1437) | 3446   | 2398   | 9076   | Sa. 301   | 1 | 1.8   |
| 23245  | Gay-Lussac D | 1439b  | 3468   | 2518   | 9035   | Sa. 294   | 2 | 3.2   |
| 23247  | Gay-Lussac B | 1439   | 3465   | 2792   | 8955   | Sa. 296   | 1 | 2.0   |
| 23247A |              |        | 3411   | 2752   | 8988   | Ar.       | 2 | 1.5   |
| 23248  |              |        | 3419   | 2807   | 8968   | Ar.       | 1 | 2.2   |
| #23249 | Draper C     | 1412   | 3499   | 2933   | 8897   | Sa. 285   | 4 | 4.4   |
| 23257  |              |        | 3573   | 2799   | 8911   | Sa. 267   | 1 | 2.1   |
| 23264  |              |        | 3647   | 2431   | 8988   | Ar.       | 1 | 2.0   |
| 23265  |              |        | 3601   | 2538   | 8977   | Ar.       | 1 | 2.1   |
| 23266  | Gay-Lussac C | 1439a  | 3692   | 2656   | 8906   | Sa. 242   | 1 | 2.9   |
| 23268  |              |        | 3614   | 2820   | 8887   | Sa. 255   | 1 | 2.0   |
| 23271  |              |        | 3709   | 2183   | 9027   | Ar.       | 1 | 1.7   |
| 23276  | Gay-Lussac γ | 1445   | 3747   | 2682   | 8875   | Sa. 235   | 2 | (P)   |
| 23276A |              |        | 3740   | 2602   | 8902   | Ar.       | 2 | 2.5   |
| 23279  |              |        | 3704   | 2951   | 8807   | Ar.       | 1 | 1.4   |
| 23281  |              |        | 3852   | 2199   | 8963   | Ar.       | 1 | 1.9   |

| Ref.    | Designation  | B&M   | ξ<br>- | η<br>+ | ζ<br>+ | Authority | M | Diam.   |
|---------|--------------|-------|--------|--------|--------|-----------|---|---------|
| 23283   | Gay-Lussac H | 1439e | 3844   | 2320   | 8936   | Sa. 218   | 1 | 3.1     |
| 23285   |              |       | 3839   | 2521   | 8883   | Ar.       | 1 | 3.0     |
| 23294   |              |       | 3924   | 2410   | 8876   | Ar.       | 1 | 2.5     |
| 23297   |              |       | 3915   | 2735   | 8786   | Ar.       | 1 | (P)     |
| 23297A  |              |       | 3951   | 2717   | 8776   | Ar.       | 1 | 1.6     |
| 23298   |              |       | 3947   | 2810   | 8748   | Sa. 211   | 1 | 2.2     |
| 23302   | Pytheas O    | 1409  | 3096   | 3220   | 8947   | Sa. 380   | 2 | 2.5     |
| 23305   |              |       | 3058   | 3525   | 8844   | Ar.       | 1 | 1.9     |
| 23307   |              |       | 3085   | 3704   | 8761   | Sa. 381   | 1 | 1.9     |
| 23310   | Pytheas B    | 1408  | 3160   | 3003   | 9000   | Sa. 361   | 2 | 2.8     |
| 23311   | Pytheas E    | 1408a | 3102   | 3108   | 8985   | Sa. 377   | 1 | 2.4     |
| 23320   |              |       | 3252   | 3073   | 8943   | Ar.       | 1 | 1.6     |
| *#23325 | Pytheas      | 1406  | 3290   | 3510   | 8767   | Sa. 329   | 4 | 11.5    |
| 23325A  | Pytheas D    | 1410  | 3267   | 3596   | 8740   | Sa. 338   | 1 | 3.0     |
| 23328   |              |       | 3228   | 3834   | 8653   | Sa. 347   | 1 | 1.9     |
| 23336   |              |       | 3354   | 3684   | 8671   | Ar.       | 1 | 2.0     |
| #23344  | Pytheas A    | 1407  | 3464   | 3494   | 8706   | Sa. 298   | 4 | 3.5     |
| #23350  | Draper       | 1411  | 3528   | 3016   | 8857   | Sa. 278   | 4 | 5.1     |
| 23356   |              |       | 3506   | 3601   | 8645   | Ar.       | 1 | 1.3     |
| 23360   |              |       | 3684   | 3027   | 8790   | Ar.       | 1 | 1.6     |
| 23361   |              |       | 3617   | 3198   | 8757   | Ar.       | 1 | 2.9x1.3 |
| 23361A  |              |       | 3690   | 3134   | 8750   | Ar.       | 1 | 1.4     |
| 23370   | Draper A     | 1411a | 3776   | 3066   | 8738   | Sa. 230   | 1 | 2.4     |
| 23372   |              |       | 3737   | 3207   | 8703   | Ar.       | 1 | 1.6     |
| *23373  |              |       | 3772   | 3342   | 8637   | Ar.       | 1 | 1.3     |

| Ref.   | Designation      | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|--------|------------------|-------|------------|-------------|--------------|-----------|---|-------|
| 23374  |                  |       | 3705       | 3492        | 8607         | Ar.       | 1 | 1.3   |
| 23376  |                  |       | 3731       | 3696        | 8510         | Ar.       | 1 | 1.9   |
| *23384 |                  |       | 3818       | 3400        | 8594         | Ar.       | 1 | (P)   |
| 23388  |                  |       | 3848       | 3834        | 8396         | Ar.       | 1 | 1.7   |
| 23407  |                  |       | 3041       | 4761        | 8252         | Sa. 393   | 1 | 1.9   |
| *23408 |                  |       | 3076       | 4841        | 8191         | Ar.       | 1 | 1.6   |
| 23411  | Lambert B        | 1401b | 3127       | 4116        | 8560         | Sa. 370   | 1 | 2.0   |
| 23416  |                  |       | 3191       | 4609        | 8281         | Ar.       | 1 | 1.6   |
| 23423  | Lambert          | 1401  | 3219       | 4347        | 8411         | Sa. 348   | 2 | 17.4  |
| 23424  | Lambert A        | 1401a | 3275       | 4451        | 8334         | Sa. 335   | 2 | 2.1   |
| 23428  |                  |       | 3287       | 4812        | 8126         | Ar.       | 1 | 1.5   |
| 23435  |                  |       | 3309       | 4507        | 8291         | Ar.       | 1 | 1.4   |
| 23444  |                  |       | 3465       | 4445        | 8261         | Sa. 295   | 1 | 1.6   |
| 23445  |                  |       | 3475       | 4589        | 8177         | Ar.       | 1 | 1.8   |
| 23446  | La Hire B        | 1399a | 3460       | 4642        | 8154         | Sa. 299   | 2 | 2.2   |
| #23447 | La Hire A        | 1399  | 3493       | 4770        | 8065         | Sa. 288   | 3 | 2.9   |
| 23451  |                  |       | 3500       | 4142        | 8402         | Ar.       | 1 | 1.5   |
| 23454  |                  |       | 3577       | 4452        | 8209         | Ar.       | 1 | (P)   |
| 23476  | La Hire (S. end) | 1396  | 3795       | 4627        | 8012         | Sa. 227   | 2 | (P)   |
| 23476A |                  |       | 3776       | 4648        | 8009         | Ar.       | 1 | 1.9   |
| 23482  |                  |       | 3880       | 4277        | 8164         | Ar.       | 1 | 1.4   |
| 23489  |                  |       | 3825       | 4903        | 7831         | Ar.       | 1 | 1.0   |
| *23497 |                  |       | 3981       | 4737        | 7856         | Ar.       | 1 | (P)   |
| #23500 | Carlini B        | 1392  | 3070       | 5055        | 8064         | Sa. 385   | 4 | 4.4   |

| Ref.   | Designation   | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|--------|---------------|-------|------------|-------------|--------------|-----------|---|-------|
| 23517  | Carlini C     | 1393  | 3178       | 5745        | 7543         | Sa. 360   | 2 | 2.0   |
| #23535 | Carlini       | 1390  | 3391       | 5550        | 7596         | Sa. 311   | 4 | 6.5   |
| 23541  | Carlini K     | 1395c | 3438       | 5155        | 7849         | Sa. 302   | 1 | 2.0   |
| 23543  | Carlini H     | 1395b | 3490       | 5358        | 7688         | Sa. 289   | 1 | 2.0   |
| 23543A |               |       | 3463       | 5307        | 7736         | Ar.       | 1 | (s)   |
| 23551  |               |       | 3580       | 5194        | 7759         | Sa. 261   | 1 | 1.6   |
| 23551A |               |       | 3503       | 5127        | 7838         | Ar.       | 1 | 1.4   |
| 23553  |               |       | 3574       | 5300        | 7690         | Sa. 262   | 1 | 1.3   |
| 23553A | Carlini G     | 1395a | 3561       | 5387        | 7636         | Sa. 271   | 2 | 2.1   |
| 23559  |               |       | 3572       | 5924        | 7221         | Ar.       | 1 | 1.7   |
| 23567  | Carlini A     | 1391  | 3650       | 5781        | 7298         | Sa. 251   | 4 | 4.0   |
| 23598  |               |       | 3954       | 5873        | 7062         | Ar.       | 1 | 1.6   |
| 23604  |               |       | 3018       | 6487        | 6986         | Ar.       | 1 | 1.6   |
| 23616  |               |       | 3136       | 6654        | 6774         | Ar.       | 1 | 1.6   |
| 23624  |               |       | 3286       | 6488        | 6864         | Ar.       | 1 | 1.4   |
| 23629  | Pr. Laplace A | 1315  | 3267       | 6906        | 6453         | Sa. 339   | 4 | 5.0   |
| 23634  | Helicon C     | 1301  | 3379       | 6433        | 6870         | Ar.       | 1 | (s)   |
| 23648  |               |       | 3480       | 6881        | 6367         | Ar.       | 1 | 1.8   |
| 23659  |               |       | 3598       | 6918        | 6261         | Ar.       | 1 | 1.6   |
| 23661  |               |       | 3606       | 6142        | 7019         | Ar.       | 1 | 2.3   |
| 23662  |               |       | 3637       | 6292        | 6869         | Ar.       | 1 | (s)   |
| 23667  |               |       | 3694       | 6740        | 6398         | Ar.       | 1 | 1.3   |
| 23677  |               |       | 3731       | 6781        | 6332         | Ar.       | 1 | 1.3   |
| 23698  |               |       | 3952       | 6814        | 6160         | Ar.       | 1 | 2.4   |

| Ref.    | Designation    | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|---------|----------------|-------|------------|-------------|--------------|-----------|---|-------|
| 23708   |                |       | 3047       | 7802        | 5464         | Sa. 390   | 1 | 3.6   |
| 23709   | La Condamine C | 1368b | 3073       | 7916        | 5282         | Sa. 384   | 3 | 6.1   |
| 23722   |                |       | 3208       | 7277        | 6062         | Ar.       | 1 | (P)   |
| *23722A |                |       | 3273       | 7298        | 6002         | Ar.       | 1 | (P)   |
| 23723   |                |       | 3253       | 7362        | 5935         | Ar.       | 1 | (P)   |
| 23739   | Bouguer A      | 1672  | 3382       | 7931        | 5067         | Sa. 314   | 3 | 4.3   |
| #23759  | Bouguer        | 1671  | 3574       | 7905        | 4975         | Sa. 266   | 3 | 13.3  |
| 23767   | Bianchini A    | 1657a | 3680       | 7718        | 5185         | Sa. 244   | 2 | 5.4   |
| 23770   |                |       | 3747       | 7063        | 6006         | Ar.       | 1 | 2.0   |
| 23772   |                |       | 3708       | 7266        | 5784         | Ar.       | 1 | 2.3   |
| 23775   | Bianchini      | 1650  | 3721       | 7518        | 5444         | Sa. 238   | 2 | 22.4  |
| 23791   |                |       | 3998       | 7173        | 5706         | Ar.       | 1 | (s)   |
| 23793   | Bianchini D    | 1656  | 3939       | 7376        | 5485         | Sa. 212   | 1 | 4.0   |
| 23800   | La Condamine D | 1368c | 3046       | 8031        | 5121         | Sa. 391   | 3 | 6.2   |
| #23806  | J. Herschel D  | 1680  | 3044       | 8690        | 3901         | Sa. 392   | 2 | 5.4   |
| 23816   | J. Herschel B  | 1682c | 3142       | 8649        | 3914         | Sa. 367   | 1 | 3.7   |
| 23817   | J. Herschel L  | 1682d | 3125       | 8735        | 3732         | Sa. 371   | 1 | 3.9   |
| 23820   | Bouguer B      | 1672a | 3252       | 8013        | 5022         | Sa. 343   | 2 | 3.8   |
| 23820A  |                |       | 3286       | 8035        | 4963         | Sa. 330   | 1 | 4.7   |
| 23829   | Anaximander U  | 1693c | 3265       | 8991        | 2915         | Fr. 559   | 2 | 4.3   |
| #23835  | Horrebow       | 1677  | 3394       | 8544        | 3935         | Sa. 309   | 1 | 14.6  |
| #23836  | Horrebow G     | 1678a | 3348       | 8634        | 3774         | Sa. 320   | 2 | 4.3   |
| #23855  | Horrebow B     | 1678  | 3534       | 8543        | 3810         | Sa. 275   | 2 | 7.3   |
| *#23874 | South B        | 1706b | 3794       | 8429        | 3816         | Sa. 228   | 2 | 8.7   |
| #23875  | Robinson       | 1684  | 3701       | 8576        | 3573         | Sa. 240   | 2 | 13.9  |

| Ref.   | Designation         | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|--------|---------------------|-------|------------|-------------|--------------|-----------|---|-------|
| #23883 | Harpalus B          | 1665  | 3837       | 8302        | 4045         | Sa. 219   | 2 | 4.4   |
| 23899  | Pythagoras $\alpha$ | 1703  | 3974       | 8936        | 2086         | Fr. 119   | 7 | (CP)  |
| *23902 | Anaximander         | 1687  | 3062       | 9200        | 2443         | Fr. 542   | 2 | 39.2  |
| 23902A | Anaximander T       | 1693b | 3052       | 9213        | 2408         | Fr. 558   | 2 | 4.5   |
| *23903 | Anaximander         | 1687  | 3091       | 9304        | 1970         | Fr. 543   | 2 | 67.4  |
| *23910 | Anaximander         | 1687  | 3192       | 9086        | 2694         | Fr. 541   | 2 | 51.3  |
| 23924  | Anaximander C       | 1693  | 3237       | 9409        | 0997         | Fr. 555   | 2 | 46.7  |
| 24014  | Reinhold D          | 1512a | 4149       | 0450        | 9088         | Sa. 195   | 1 | 1.8   |
| 24015  |                     |       | 4108       | 0582        | 9099         | Ar.       | 1 | 1.9   |
| 24017  | Reinhold C          | 1512c | 4142       | 0760        | 9070         | Sa. 197   | 1 | 2.4   |
| 24020  | Lansberg $\alpha$   | 2479a | 4271       | 0097        | 9042         | Sa. 177   | 1 | (P)   |
| 24022  | Reinhold N          | 1512b | 4285       | 0275        | 9031         | Sa. 170   | 1 | 2.2   |
| 24023  |                     |       | 4288       | 0338        | 9028         | Ar.       | 1 | 1.3   |
| 24029  | Hortensius E        | 1523  | 4271       | 0914        | 8996         | Sa. 176   | 1 | 8.8   |
| 24030  |                     |       | 4325       | 0045        | 9016         | Ar.       | 1 | (P)   |
| 24038  |                     |       | 4308       | 0817        | 8987         | Ar.       | 1 | 1.4   |
| 24048  |                     |       | 4446       | 0849        | 8917         | Ar.       | 1 | 2.1   |
| 24058  |                     |       | 4537       | 0811        | 8875         | Ar.       | 1 | 2.2   |
| 24059  |                     |       | 4575       | 0904        | 8846         | Ar.       | 1 | 1.9   |
| 24062  |                     |       | 4666       | 0209        | 8842         | Ar.       | 1 | 1.7   |
| 24071  |                     |       | 4715       | 0120        | 8818         | Ar.       | 1 | 2.3   |
| 24082  | Kunowsky D          | 1537  | 4815       | 0267        | 8760         | Ar.       | 1 | 2.7   |
| 24089  | Hortensius B        | 1521  | 4895       | 0918        | 8672         | Sa. 111   | 1 | 3.8   |
| *24096 |                     |       | 4904       | 0609        | 8694         | Ar.       | 1 | 1.4   |
| 24110  | Hortensius $\delta$ | 1527a | 4125       | 1055        | 9048         | Sa. 202   | 1 | (P)   |

| Ref.    | Designation           | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|---------|-----------------------|-------|------------|-------------|--------------|-----------|---|-------|
| 24114   |                       |       | 4134       | 1478        | 8985         | Ar.       | 1 | 1.8   |
| 24123   | Hortensius $\epsilon$ | 1527b | 4208       | 1354        | 8970         | Sa. 188   | 1 | (P)   |
| *24128  |                       |       | 4298       | 1880        | 8831         | Ar.       | 1 | (P)   |
| *24133  |                       |       | 4399       | 1363        | 8876         | Ar.       | 1 | (P)   |
| 24134   |                       |       | 4361       | 1410        | 8888         | Ar.       | 1 | 2.4   |
| 24134A  |                       |       | 4370       | 1466        | 8874         | Ar.       | 1 | (P)   |
| 24135   |                       |       | 4379       | 1560        | 8854         | Ar.       | 1 | (P)   |
| #24140  | Hortensius C          | 1522  | 4469       | 1034        | 8886         | Sa. 149   | 3 | 3.9   |
| 24141   |                       |       | 4478       | 1197        | 8861         | Ar.       | 1 | 1.4   |
| 24141A  |                       |       | 4426       | 1192        | 8888         | Ar.       | 1 | (P)   |
| *24144  | Milichius $\beta$     | 1533  | 4458       | 1478        | 8828         | Ar.       | 1 | (P)   |
| *24146  | Milichius $\beta$     | 1533  | 4451       | 1607        | 8810         | Ar.       | 1 | (P)   |
| #24161  | Hortensius            | 1519  | 4659       | 1127        | 8776         | Sa. 132   | 4 | 8.4   |
| *24174  | Milichius $\alpha$    | 1532  | 4750       | 1423        | 8684         | Ar.       | 1 | (P)   |
| *24174A | Milichius $\alpha$    | 1532  | 4738       | 1473        | 8682         | Ar.       | 1 | (P)   |
| *24174B | Milichius $\alpha$    | 1532  | 4735       | 1407        | 8695         | Ar.       | 1 | (P)   |
| *24175  | Milichius $\alpha$    | 1532  | 4723       | 1537        | 8679         | Ar.       | 1 | (P)   |
| 24177   |                       |       | 4753       | 1749        | 8623         | Ar.       | 1 | 1.5   |
| 24189   |                       |       | 4815       | 1943        | 8546         | Ar.       | 1 | 1.6   |
| #24197  | Milichius             | 1529  | 4951       | 1738        | 8513         | Sa. 104   | 4 | 7.4   |
| *24198  |                       |       | 4912       | 1881        | 8505         | Ar.       | 1 | (P)   |
| *24201  | Copernicus D          | 1486  | 4094       | 2112        | 8876         | Sa. 203   | 2 | 3.1   |
| 24202   | T. Mayer L            | 1420e | 4066       | 2283        | 8846         | Sa. 207   | 1 | 2.4   |
| 24203   |                       |       | 4083       | 2345        | 8822         | Sa. 204   | 1 | 2.1   |
| 24204   |                       |       | 4010       | 2446        | 8828         | Ar.       | 1 | 2.7   |

| Ref.   | Designation | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam.   |
|--------|-------------|-------|------------|-------------|--------------|-----------|---|---------|
| 24204A |             |       | 4070       | 2461        | 8797         | Ar.       | 1 | 1.9     |
| 24206  |             |       | 4048       | 2693        | 8738         | Ar.       | 2 | 2.4     |
| *24208 |             |       | 4060       | 2830        | 8690         | Ar.       | 1 | 1.0x2.3 |
| 24209  |             |       | 4001       | 2974        | 8669         | Ar.       | 1 | 1.7     |
| 24211  |             |       | 4155       | 2197        | 8827         | Ar.       | 1 | 2.0     |
| *24213 |             |       | 4191       | 2326        | 8777         | Ar.       | 1 | 2.7     |
| 24213A |             |       | 4141       | 2305        | 8806         | Ar.       | 1 | 2.7     |
| 24213B |             |       | 4155       | 2375        | 8781         | Ar.       | 1 | 1.4     |
| 24219  |             |       | 4140       | 2949        | 8612         | Sa. 198   | 1 | 1.4x2.0 |
| #24221 | T. Mayer C  | 1418  | 4280       | 2116        | 8786         | Sa. 173   | 3 | 9.0     |
| 24223  |             |       | 4277       | 2318        | 8737         | Ar.       | 1 | 1.8     |
| 24224  | T. Mayer Z  | 1421  | 4267       | 2450        | 8706         | Sa. 178   | 1 | 2.7     |
| 24225  |             |       | 4253       | 2521        | 8693         | Ar.       | 1 | 1.4     |
| #24227 | T. Mayer E  | 1420  | 4235       | 2763        | 8628         | Sa. 182   | 3 | 4.9     |
| 24229  | Cape Banat  | 1436a | 4243       | 2985        | 8549         | Sa. 181   | 1 | (P)     |
| 24230  |             |       | 4349       | 2016        | 8776         | Ar.       | 1 | 2.7     |
| 24239  | T. Mayer G  | 1420b | 4352       | 2978        | 8496         | Sa. 163   | 2 | 4.1     |
| #24241 | T. Mayer D  | 1419  | 4402       | 2118        | 8726         | Sa. 154   | 4 | 5.0     |
| 24242  |             |       | 4421       | 2280        | 8675         | Ar.       | 1 | 2.6     |
| 24245  |             |       | 4436       | 2502        | 8606         | Ar.       | 1 | 1.5     |
| 24255  |             |       | 4567       | 2548        | 8523         | Ar.       | 1 | (P)     |
| #24256 | T. Mayer A  | 1416  | 4575       | 2630        | 8494         | Sa. 141   | 4 | 9.2     |
| 24257  |             |       | 4545       | 2798        | 8456         | Ar.       | 1 | (P)     |
| 24260  |             |       | 4646       | 2023        | 8621         | Ar.       | 1 | 1.6     |
| 24263  |             |       | 4601       | 2353        | 8561         | Ar.       | 1 | 2.8     |

| Ref.   | Designation        | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M   | Diam.    |
|--------|--------------------|-------|------------|-------------|--------------|-----------|-----|----------|
| 24266  | T. Mayer           | 1415  | 4694       | 2679        | 8414         | Sa.       | 130 | 2 19.0   |
| *24270 |                    |       | 4764       | 2083        | 8542         | Ar.       |     | 1 2.0    |
| *24271 |                    |       | 4768       | 2106        | 8534         | Ar.       |     | 1 1.5    |
| 24272  | T. Mayer F         | 1420a | 4710       | 2230        | 8535         | Sa.       | 126 | 1 3.3    |
| 24272A |                    |       | 4796       | 2268        | 8476         | Ar.       |     | 1 2.1    |
| 24278  |                    |       | 4748       | 2817        | 8338         | Ar.       |     | 1 (P)    |
| 24279  | T. Mayer $\lambda$ | 1431  | 4770       | 2928        | 8287         | Ar.       |     | 1 (P)    |
| 24279A |                    |       | 4719       | 2941        | 8311         | Ar.       |     | 1 (P)    |
| 24284  |                    |       | 4834       | 2492        | 8392         | Ar.       |     | 1 (P)    |
| 24287  |                    |       | 4860       | 2738        | 8299         | Ar.       |     | 1 (P)    |
| 24288  |                    |       | 4828       | 2841        | 8284         | Ar.       |     | 1 (P)    |
| 24288A |                    |       | 4863       | 2875        | 8252         | Ar.       |     | 1 (P)    |
| 24296  | T. Mayer B         | 1417  | 4949       | 2646        | 8277         | Sa.       | 106 | 2 7.5    |
| 24299  |                    |       | 4905       | 2985        | 8187         | Ar.       |     | 1 1.2    |
| 24303  |                    |       | 4058       | 3331        | 8511         | Ar.       |     | 1 1.7    |
| 24322  |                    |       | 4265       | 3295        | 8423         | Ar.       |     | 1 1.8    |
| 24325  |                    |       | 4295       | 3531        | 8312         | Ar.       |     | 1 2.4    |
| 24334  |                    |       | 4382       | 3489        | 8284         | Ar.       |     | 1 (P)    |
| *24335 |                    |       | 4343       | 3521        | 8291         | Ar.       |     | 1 (P)    |
| 24336  | Euler F            | 1583a | 4364       | 3606        | 8244         | Sa.       | 161 | 1 2.7    |
| 24341  |                    |       | 4403       | 3113        | 8421         | Ar.       |     | 1 2.9    |
| 24346  |                    |       | 4499       | 3646        | 8153         | Ar.       |     | 1 2.5    |
| 24349  | Euler              | 1583  | 4473       | 3951        | 8024         | Sa.       | 148 | 3 15.8   |
| 24349A | Euler (CP)         |       | 4466       | 3943        | 8032         | Ar.       |     | 1 (15.8) |
| 24358  |                    |       | 4523       | 3835        | 8052         | Ar.       |     | 1 1.4    |

| Ref.    | Designation    | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M   | Diam.  |
|---------|----------------|-------|------------|-------------|--------------|-----------|-----|--------|
| 24361   |                |       | 4627       | 3172        | 8278         | Ar.       |     | 1 (P)  |
| 24365   | Euler $\delta$ | 1588  | 4606       | 3521        | 8148         | Sa.       | 140 | 2 (P)  |
| 24365A  |                |       | 4696       | 3530        | 8093         | Ar.       |     | 1 (P)  |
| 24366   | Euler $\pi$    | 1588b | 4619       | 3648        | 8085         | Sa.       | 139 | 2 (P)  |
| 24367   |                |       | 4642       | 3759        | 8020         | Ar.       |     | 1 (P)  |
| 24370   |                |       | 4794       | 3017        | 8241         | Ar.       |     | 1 (P)  |
| 24379   |                |       | 4701       | 3988        | 7874         | Ar.       |     | 1 1.3  |
| 24383   |                |       | 4854       | 3324        | 8086         | Ar.       |     | 1 (P)  |
| 24384   | Euler P        | 1584a | 4850       | 3420        | 8049         | Ar.       |     | 1 6.6  |
| 24386   |                |       | 4819       | 3669        | 7957         | Ar.       |     | 1 (P)  |
| 24395   |                |       | 4925       | 3534        | 7954         | Ar.       |     | 1 2.8  |
| 24404   |                |       | 4015       | 4477        | 7990         | Ar.       |     | 1 (s)  |
| *24407  |                |       | 4033       | 4775        | 7806         | Ar.       |     | 1 (P)  |
| 24423   |                |       | 4264       | 4374        | 7918         | Ar.       |     | 1 1.5  |
| 24425   |                |       | 4222       | 4505        | 7866         | Ar.       |     | 1 1.3  |
| 24425A  |                |       | 4242       | 4561        | 7823         | Ar.       |     | 1 (s)  |
| 24429   |                |       | 4256       | 4958        | 7571         | Ar.       |     | 1 2.1  |
| 24432   |                |       | 4318       | 4275        | 7942         | Ar.       |     | 1 2.4  |
| *24449  |                |       | 4407       | 4971        | 7475         | Ar.       |     | 1 2.0  |
| *24449A |                |       | 4414       | 4992        | 7457         | Ar.       |     | 1 1.9  |
| 24468   | Diophantus B   | 1591  | 4694       | 4857        | 7374         | Sa.       | 129 | 2 3.7  |
| #24496  | Diophantus     | 1589  | 4986       | 4634        | 7325         | Sa.       | 101 | 3 10.6 |
| 24499   | Delisle        | 1593  | 4919       | 4995        | 7131         | Sa.       | 110 | 2 14.4 |
| 24501   |                |       | 4093       | 5174        | 7515         | Ar.       |     | 1 (s)  |
| #24526  | C. Herschel    | 1602  | 4273       | 5658        | 7052         | Sa.       | 174 | 3 7.7  |

| Ref.   | Designation   | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam. |
|--------|---------------|-------|-------|--------|---------|-----------|---|-------|
| 24529  |               |       | 4206  | 5903   | 6889    | Ar.       | 1 | 2.0   |
| #24532 | Heis D        | 1600  | 4390  | 5243   | 7296    | Sa. 157   | 3 | 4.6   |
| 24535  |               |       | 4306  | 5592   | 7084    | Ar.       | 1 | 1.8   |
| 24537  |               |       | 4396  | 5740   | 6909    | Ar.       | 1 | 1.6   |
| 24537A |               |       | 4311  | 5787   | 6923    | Ar.       | 1 | (s)   |
| #24543 | Heis          | 1601  | 4465  | 5364   | 7162    | Sa. 150   | 2 | 8.1   |
| 24544  | Heis A        | 1601a | 4445  | 5401   | 7146    | Sa. 151   | 1 | 3.5   |
| *24546 |               |       | 4484  | 5642   | 6933    | Ar.       | 1 | (P)   |
| 24549  |               |       | 4436  | 5937   | 6713    | Ar.       | 1 | 1.9   |
| 24554  |               |       | 4508  | 5487   | 7041    | Ar.       | 1 | 1.5   |
| 24566  | C. Herschel E | 1598a | 4697  | 5618   | 6810    | Sa. 128   | 1 | 3.1   |
| 24582  |               |       | 4873  | 5293   | 6946    | Ar.       | 1 | 1.8   |
| 24592  |               |       | 4980  | 5244   | 6907    | Ar.       | 1 | 1.2   |
| 24608  |               |       | 4005  | 6845   | 6092    | Ar.       | 1 | 1.7   |
| 24610  |               |       | 4185  | 6075   | 6751    | Ar.       | 1 | 1.2   |
| 24614  |               |       | 4123  | 6408   | 6476    | Ar.       | 1 | 1.7   |
| #24620 | C. Herschel C | 1604  | 4285  | 6042   | 6719    | Sa. 171   | 3 | 4.2   |
| 24632  |               |       | 4340  | 6229   | 6508    | Ar.       | 1 | 1.8   |
| 24650  |               |       | 4576  | 6071   | 6496    | Ar.       | 1 | 1.7   |
| 24661  |               |       | 4674  | 6194   | 6308    | Ar.       | 1 | 1.3   |
| #24671 | Mairan E      | 1614  | 4772  | 6124   | 6302    | Sa. 124   | 1 | 3.2   |
| #24682 | Mairan A      | 1612  | 4887  | 6240   | 6098    | Sa. 112   | 2 | 9.8   |
| 24700  |               |       | 4011  | 7083   | 5809    | Ar.       | 1 | 1.7   |
| #24707 | Foucault      | 1659  | 4074  | 7703   | 4906    | Sa. 205   | 3 | 14.0  |
| #24719 | Harpalus      | 1664  | 4166  | 7948   | 4413    | Sa. 193   | 2 | 23.3  |

| Ref.    | Designation    | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam. |
|---------|----------------|-------|-------|--------|---------|-----------|---|-------|
| #24751  | Sharp          | 1628  | 4506  | 7164   | 5327    | Sa. 145   | 2 | 22.8  |
| *#24753 | Sharp A        | 1635  | 4563  | 7378   | 4974    | Sa. 143   | 2 | 10.0  |
| #24769  | Harpalus E     | 1668  | 4693  | 7953   | 3836    | Sa. 131   | 1 | 3.9   |
| 24770   | Sharp D        | 1638  | 4758  | 7043   | 5269    | Sa. 125   | 1 | 4.3   |
| #24783  | Sharp B        | 1636  | 4845  | 7308   | 4808    | Sa. 121   | 2 | 12.4  |
| #24802  | Harpalus C     | 1666  | 4008  | 8241   | 4003    | Sa. 208   | 2 | 6.0   |
| #24825  | Babbage A      | 1708  | 4231  | 8582   | 2907    | Sa. 185   | 1 | 18.6  |
| 24835   | Babbage C      | 1709a | 4315  | 8580   | 2787    | Fr. 746   | 2 | 7.9   |
| 24839   | Cleostratus A  | 1710a | 4388  | 8951   | 0787    | Fr. 588   | 2 | 32.5  |
| 24839A  | Cleostratus B  | 1710b | 4342  | 8952   | 1007    | Fr. 590   | 2 | 5.0   |
| 24839B  | Cleostratus D  | 1710d | 4356  | 8979   | 0629    | Fr. 592   | 2 | 6.9   |
| 24848   | Pythagoras A   | 1717  | 4477  | 8881   | 1041    | Fr. 589   | 2 | 19.9  |
| 24858   | Cleostratus E  | 1710e | 4540  | 8897   | 0481    | Fr. 593   | 2 | 7.0   |
| 24870   | Harpalus H     | 1668a | 4731  | 8059   | 3559    | Fr. 643   | 2 | 4.4   |
| 24883   | Oenopides      | 1712  | 4891  | 8381   | 2416    | Fr. 710   | 2 | 39.7  |
| 24896   | Xenophanes A   | 1718a | 4972  | 8662   | 0500    | Fr. 802   | 2 | 24.7  |
| 24896A  | Xenophanes C   | 1718b | 4965  | 8621   | 1018    | Fr. 804   | 2 | 5.9   |
| 24900   | Pythagoras D   | 1700  | 4094  | 9024   | 1346    | Fr. 748   | 2 | 19.0  |
| 24910   | Cleostratus C  | 1710c | 4125  | 9089   | 0618    | Fr. 591   | 2 | 8.7   |
| #25007  | Hortensius A   | 1520  | 5091  | 0762   | 8573    | Sa. 96    | 2 | 5.8   |
| #25010  | Lansberg A     | 2481  | 5164  | 0032   | 8563    | Sa. 88    | 3 | 5.0   |
| 25035   | Kunowsky       | 1535  | 5360  | 0564   | 8424    | Sa. 77    | 2 | 10.6  |
| 25072   | Encke $\sigma$ | 1553a | 5743  | 0260   | 8183    | Sa. 60    | 1 | (P)   |
| 25082   | Encke $\rho$   | 1553  | 5815  | 0275   | 8131    | Sa. 57    | 1 | (P)   |
| #25091  | Encke C        | 1542d | 5933  | 0115   | 8049    | Sa. 51    | 2 | 5.4   |

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|---------|---------------|-------|--------|--------|--------|-----------|-------|-------|
| #25094  | Encke B       | 1539  | 5977   | 0413   | 8006   | Sa.       | 47 3  | 6.6   |
| #25097  | Encke         | 1538  | 5947   | 0799   | 8000   | Sa.       | 50 2  | 16.9  |
| #25126  | Milichius A   | 1530  | 5234   | 1608   | 8368   | Sa.       | 86 2  | 5.2   |
| #25182  | Kepler A      | 1555  | 5845   | 1242   | 8019   | Sa.       | 55 2  | 6.3   |
| 25232   | T. Mayer K    | 1430  | 5348   | 2264   | 8141   | Sa.       | 78 1  | (P)   |
| #25285  | Bessarion     | 1572  | 5852   | 2563   | 7693   | Sa.       | 54 2  | 5.9   |
| #25286  | Bessarion E   | 1577  | 5842   | 2651   | 7671   | Sa.       | 56 1  | 4.6   |
| 25304   | Brayley D     | 1581  | 5094   | 3424   | 7895   | Sa.       | 95 2  | 3.5   |
| 25305   |               |       | 5013   | 3573   | 7880   | Ar.       | 1     | (P)   |
| #25325  | Brayley B     | 1579  | 5267   | 3538   | 7730   | Sa.       | 83 3  | 5.9   |
| 25325A  | Brayley F     | 1581b | 5219   | 3599   | 7734   | Sa.       | 87 1  | 3.3   |
| #25365  | Brayley       | 1578  | 5608   | 3566   | 7472   | Sa.       | 66 4  | 8.4   |
| 25396   | Brayley E     | 1581a | 5958   | 3623   | 7168   | Sa.       | 49 1  | 2.7   |
| #25396A | Brayley C     | 1580  | 5913   | 3645   | 7194   | Sa.       | 52 2  | 5.0   |
| 25401   | Euler E       | 1584  | 5082   | 4178   | 7531   | Sa.       | 97 1  | 4.0   |
| #25426  | Diophantus A  | 1590  | 5281   | 4631   | 7118   | Sa.       | 82 1  | 4.9   |
| #25479  | Angström      | 1737  | 5756   | 4980   | 6486   | Sa.       | 59 1  | 5.6   |
| #25508  | Gruithuisen B | 1606  | 5079   | 5823   | 6348   | Sa.       | 99 2  | 5.7   |
| 25516   |               |       | 5124   | 5643   | 6473   | Ar.       | 1     | 2.6   |
| *#25534 | Gruithuisen   | 1605  | 5365   | 5422   | 6466   | Sa.       | 76 1  | 8.8   |
| #25616  | Mairan        | 1611  | 5139   | 6637   | 5435   | Sa.       | 90 1  | 23.6  |
| #25635  | Mairan D      | 1613  | 5377   | 6555   | 5303   | Sa.       | 75 1  | 5.8   |
| 25650   | Gruithuisen E | 1605a | 5550   | 6063   | 5696   | Fr.       | 694 2 | 4.6   |
| 25685   | Mairan G      | 1613b | 5851   | 6538   | 4798   | Fr.       | 696 2 | 3.3   |
| 25732   | Repsold D     | 1724  | 5390   | 7285   | 4227   | Fr.       | 762 2 | 3.8   |

| Ref.   | Designation   | B&M   | ξ<br>- | η<br>+ | ζ<br>+ | Authority | M      | Diam. |
|--------|---------------|-------|--------|--------|--------|-----------|--------|-------|
| 25747  | Repsold E     | 1725  | 5499   | 7719   | 3190   | Fr.       | 763 6  | 6.8   |
| 25751  | Repsold P     | 1725d | 5520   | 7133   | 4318   | Fr.       | 697 2  | 3.9   |
| 25766  | Repsold F     | 1725b | 5658   | 7657   | 3059   | Fr.       | 764 2  | 4.8   |
| *25805 | Xenophanes D  | 1718c | 5079   | 8535   | 1166   | Fr.       | 805 2  | 6.8   |
| 25820  | Oenopides A   | 1713  | 5299   | 8018   | 2763   | Fr.       | 711 2  | 23.8  |
| 25834  | Xenophanes E  | 1718d | 5314   | 8455   | 0517   | Fr.       | 806 2  | 4.6   |
| 25872  | Regnault C    | 1727a | 5719   | 8202   | 0151   | Fr.       | 761 2  | 7.8   |
| 25880  | Regnault      | 1727  | 5863   | 8095   | 0316   | Fr.       | 760 2  | 28.7  |
| #26040 | Encke E       | 1540  | 6446   | 0060   | 7645   | Sa.       | 36 2   | 5.0   |
| 26048  | Maestlin      | 1542b | 6491   | 0851   | 7559   | Fr.       | 610L 2 | 4.1   |
| 26088  | Maestlin H    | 1542a | 6863   | 0808   | 7228   | Fr.       | 609 2  | 4.1   |
| #26104 | Kepler        | 1554  | 6091   | 1414   | 7804   | Sa.       | 45 2   | 18.2  |
| #26124 | Kepler F      | 1559a | 6229   | 1452   | 7687   | Sa.       | 41 1   | 4.1   |
| #26157 | Kepler C      | 1557  | 6563   | 1739   | 7342   | Sa.       | 33 2   | 7.0   |
| 26168  |               |       | 6646   | 1835   | 7243   | Ar.       | 1      | 3.1   |
| #26199 | Marius D      | 1817  | 6927   | 1978   | 6936   | Sa.       | 26 1   | 5.1   |
| #26219 | Bessarion A   | 1573  | 6117   | 2934   | 7347   | Sa.       | 42 3   | 7.3   |
| 26238  | Bessarion B   | 1574  | 6364   | 2889   | 7152   | Fr.       | 575 2  | 6.8   |
| 26257  | Bessarion C   | 1575  | 6502   | 2757   | 7080   | Fr.       | 576 2  | 5.0   |
| 26290  |               |       | 6939   | 2096   | 6890   | Ar.       | 2      | 3.7   |
| #26323 | Bessarion D   | 1576  | 6255   | 3381   | 7031   | Sa.       | 39 1   | 5.3   |
| 26376  | Aristarchus F | 1762  | 6741   | 3688   | 6400   | Fr.       | 572 2  | 10.3  |
| 26428  | Krieger B     | 1738  | 6257   | 4805   | 6145   | Fr.       | 800 2  | 5.4   |
| *26454 | Aristarchus B | 1757  | 6531   | 4423   | 6147   | Fr.       | 570 2  | 4.2   |
| 26456  | Aristarchus C | 1758  | 6515   | 4682   | 5970   | Fr.       | 571 2  | 4.4   |

| Ref.   | Designation   | B&M   | ξ<br>- | η<br>+ | ζ<br>+ | Authority | M  | Diam. |
|--------|---------------|-------|--------|--------|--------|-----------|----|-------|
| 26463  | Aristarchus A | 1756  | 6664   | 4365   | 6045   | Fr. 569   | 2  | 4.8   |
| 26470  | Aristarchus   | 1755  | 6755   | 4019   | 6181   | Fr. 13    | 17 | 23.0  |
| 26473  | Aristarchus Z | 1763a | 6754   | 4300   | 5991   | Fr. 573   | 2  | 4.7   |
| #26520 | Wollaston     | 1736  | 6287   | 5087   | 5882   | Sa. 38    | 1  | 5.8   |
| 26562  | Wollaston C   | 1739  | 6666   | 5259   | 5283   | Fr. 801   | 2  | 5.6   |
| 26604  |               |       | 6058   | 6466   | 4636   | Ar.       | 1  | 2.4   |
| 26652  | Rümker E      | 1880a | 6553   | 6234   | 4267   | Fr. 638   | 2  | 3.8   |
| 26677  | Harding D     | 1879  | 6771   | 6795   | 2825   | Ar.       | 1  | 4.0   |
| 26685  | Harding H     | 1884  | 6822   | 6525   | 3298   | Ar.       | 1  | 3.6   |
| 26688  | Harding       | 1875  | 6877   | 6877   | 2329   | Fr. 635   | 3  | 13.0  |
| 26690  | Naumann B     | 1877  | 6912   | 6073   | 3917   | Fr. 637   | 6  | 6.0   |
| 26716  | Repsold R     | 1725f | 6136   | 7638   | 2004   | Fr. 773   | 2  | 7.0   |
| 26718  | Repsold J     | 1725h | 6176   | 7844   | 0566   | Fr. 767   | 2  | 11.6  |
| 26718A | Repsold H     | 1725c | 6124   | 7844   | 0982   | Fr. 766   | 2  | 7.0   |
| 26741  | Dechen        | 1728  | 6430   | 7194   | 2628   | Fr. 772   | 5  | 6.8   |
| *26745 | Repsold N     | 1725e | 6411   | 7554   | 1355   | Fr. 771   | 2  | 7.6   |
| 26763  | Repsold T     | 1725g | 6626   | 7387   | 1236   | Fr. 775   | 2  | 7.0   |
| 26782  | Gerard B      | 1887  | 6893   | 7237   | 0323   | Fr. 631   | 2  | 7.5   |
| 26790  | Gerard A      | 1886  | 6988   | 7081   | 1016   | Fr. 630   | 2  | 9.9   |
| #27002 | Suess F       | 1837  | 7023   | 0203   | 7116   | Sa. 22    | 1  | 4.4   |
| 27012  |               |       | 7113   | 0201   | 7026   | Ar.       | 1  | (s)   |
| 27028  | Suess D       | 1836  | 7232   | 0813   | 6858   | Fr. 759   | 2  | 4.0   |
| 27036  |               |       | 7398   | 0688   | 6693   | Ar.       | 1  | (s)   |
| 27037  | Suess         | 1835a | 7369   | 0758   | 6718   | Fr. 756   | 2  | 5.3   |
| 27039  | Reiner B      | 1834  | 7317   | 0984   | 6745   | Fr. 754   | 2  | 4.7   |

| Ref.   | Designation   | B&M  | ξ<br>- | η<br>+ | ζ<br>+ | Authority | M | Diam. |
|--------|---------------|------|--------|--------|--------|-----------|---|-------|
| 27063  | Reiner E      | 1838 | 7604   | 0328   | 6486   | Ar.       | 1 | 2.5   |
| #27078 | Reiner A      | 1833 | 7782   | 0895   | 6216   | Sa. 13    | 1 | 5.8   |
| #27086 | Reiner C      | 1835 | 7801   | 0610   | 6227   | Sa. 12    | 1 | 4.1   |
| 27108  |               |      | 7002   | 1825   | 6902   | Ar.       | 1 | 2.1   |
| 27108A |               |      | 7000   | 1884   | 6888   | Ar.       | 1 | (s)   |
| 27137  |               |      | 7345   | 1712   | 6567   | Ar.       | 1 | (s)   |
| 27165  |               |      | 7646   | 1514   | 6265   | Ar.       | 1 | (s)   |
| 27194  |               |      | 7996   | 1406   | 5839   | Ar.       | 1 | 1.3   |
| 27200  |               |      | 7069   | 2025   | 6776   | Ar.       | 2 | 2.8   |
| #27201 | Marius A      | 1814 | 7016   | 2181   | 6784   | Sa. 23    | 2 | 9.3   |
| #27208 | Marius B      | 1815 | 7047   | 2811   | 6515   | Sa. 20    | 1 | 6.7   |
| 27213  |               |      | 7103   | 2385   | 6623   | Ar.       | 1 | 3.7   |
| #27214 | Marius C      | 1816 | 7161   | 2416   | 6549   | Sa. 19    | 2 | 7.0   |
| 27250  | Marius        | 1813 | 7578   | 2058   | 6192   | Fr. 702   | 2 | 23.6  |
| 27250A |               |      | 7542   | 2091   | 6226   | Ar.       | 1 | 1.9   |
| 27270  | Marius E      | 1818 | 7764   | 2099   | 5942   | Ar.       | 2 | 3.1   |
| 27289  |               |      | 7801   | 2987   | 5497   | Ar.       | 1 | 3.9   |
| 27297  |               |      | 7935   | 2731   | 5439   | Ar.       | 1 | 4.7   |
| 27309  | Herodotus     | 1786 | 7014   | 3939   | 5940   | Fr. 649   | 2 | 20.0  |
| 27336  | Herodotus A   | 1806 | 7335   | 3664   | 5725   | Fr. 650   | 5 | 5.6   |
| 27340  | Marius P      | 1820 | 7417   | 3068   | 5965   | Ar.       | 1 | 2.4   |
| 27358  | Herodotus B   | 1807 | 7593   | 3835   | 5257   | Ar.       | 1 | 3.4   |
| 27389  | Schiaparelli  | 1811 | 7839   | 3963   | 4780   | Fr. 651   | 3 | 14.0  |
| 27458  | Lichtenberg A | 1868 | 7573   | 4840   | 4386   | Fr. 688   | 2 | 3.9   |
| *27461 |               |      | 7687   | 4169   | 4851   | Ar.       | 1 | (s)   |



| Ref.   | Designation   | B&M    | ξ    | η    | ζ    | Authority | M | Diam. |
|--------|---------------|--------|------|------|------|-----------|---|-------|
| 27464  |               |        | 7636 | 4480 | 4650 | Ar.       | 1 | 2.0   |
| 27466  |               |        | 7644 | 4656 | 4460 | Ar.       | 1 | 3.1   |
| 27485  |               |        | 7849 | 4559 | 4196 | Ar.       | 1 | 3.0   |
| 27493  |               |        | 7950 | 4352 | 4226 | Ar.       | 1 | 3.4   |
| 27510  |               |        | 7166 | 5099 | 4759 | Ar.       | 1 | 2.4   |
| 27517  | Naumann       | 1874   | 7190 | 5782 | 3856 | Fr. 690   | 3 | 5.5   |
| 27534  | Lichtenberg B | 1869   | 7340 | 5477 | 4015 | Fr. 689   | 2 | 3.0   |
| 27582  | Lichtenberg   | 1867   | 7850 | 5270 | 3257 | Fr. 687   | 5 | 11.9  |
| 27588  | Lavoisier C   | 1891a  | 7893 | 5835 | 1912 | Fr. 794   | 2 | 17.7  |
| 27634  | Harding A     | 1876   | 7363 | 6477 | 1959 | Fr. 636   | 2 | 7.9   |
| 27635  | Lavoisier D   | 1891c  | 7371 | 6559 | 1626 | Fr. 683   | 2 | 35.6  |
| 27645  | Lavoisier E   | 1891b  | 7450 | 6538 | 1326 | Fr. 682   | 2 | 27.5  |
| 27653  | Lavoisier B   | 1891   | 7556 | 6396 | 1418 | Fr. 681   | 2 | 14.1  |
| 27660  | Lavoisier A   | 1890   | 7644 | 6000 | 2361 | Fr. 680   | 5 | 15.6  |
| 27671  | Lavoisier     | 1889   | 7762 | 6172 | 1289 | Fr. 679   | 2 | 39.1  |
| 27680  | Lavoisier F   | 1891d  | 7883 | 6000 | 1366 | Fr. 685   | 1 | 19.1  |
| 27690  | Lavoisier G   | 1891e  | 7931 | 6053 | 0685 | Fr. 686   | 2 | 9.7   |
| 28040  | Hermann A     | 1986   | 8488 | 0067 | 5287 | Ar.       | 1 | 2.3   |
| 28075  | Hevelius D    | 1960   | 8719 | 0530 | 4868 | Fr. 654   | 2 | 4.0   |
| 28103  |               |        | 8063 | 1390 | 5750 | Ar.       | 1 | 2.9   |
| 28105  | Reiner H      | 1839a  | 8055 | 1578 | 5712 | Fr. 758   | 2 | 4.5   |
| *28106 | Marius X      | 1821   | 8060 | 1687 | 5674 | Ar.       | 1 | 3.0   |
| #28112 | Reiner        | 1832   | 8120 | 1206 | 5711 | Sa. 10    | 1 | 17.2  |
| *28142 | (Reiner δ)    | (1841) | 8488 | 1284 | 5194 | Ar.       | 1 | ---   |
| 28175  | Galilaei D    | 1846a  | 8779 | 1522 | 4540 | Fr. 622   | 2 | 2.8   |

| Ref.   | Designation    | B&M   | ξ    | η    | ζ    | Authority | M | Diam. |
|--------|----------------|-------|------|------|------|-----------|---|-------|
| #28178 | Galilaei       | 1843  | 8733 | 1816 | 4522 | Sa. 3     | 1 | 8.9   |
| 28254  | Galilaei E     | 1846b | 8557 | 2400 | 4584 | Fr. 621   | 2 | 4.5   |
| #28270 | Galilaei A     | 1844  | 8720 | 2027 | 4457 | Sa. 4     | 1 | 6.4   |
| 28307  | Seleucus A     | 1850  | 8060 | 3749 | 4581 | Fr. 777   | 2 | 4.4   |
| 28319  | Schiaparelli A | 1812  | 8128 | 3902 | 4325 | Fr. 652   | 2 | 4.1   |
| 28320  |                |       | 8281 | 3056 | 4700 | Ar.       | 1 | 2.3   |
| 28355  | Seleucus       | 1849  | 8557 | 3595 | 3723 | Fr. 776   | 5 | 24.9  |
| 28398  | O. Struve C    | 1902a | 8907 | 3890 | 2352 | Fr. 784   | 2 | 5.8   |
| 28432  | Briggs C       | 1862  | 8319 | 4224 | 3599 | Ar.       | 1 | 3.4   |
| 28434  | Briggs         | 1859  | 8354 | 4454 | 3220 | Fr. 581   | 2 | 22.2  |
| 28437  | Briggs B       | 1861  | 8323 | 4712 | 2918 | Fr. 582   | 5 | 14.2  |
| 28447  | O. Struve E    | 1902b | 8452 | 4795 | 2362 | Fr. 785   | 2 | 5.3   |
| 28455  | Briggs A       | 1860  | 8536 | 4565 | 2508 | Fr. 782   | 2 | 13.8  |
| 28492  | O. Struve H    | 1906a | 8979 | 4263 | 1097 | Fr. 783   | 2 | 11.2  |
| 28515  | Ulugh Beigh A  | 1897  | 8137 | 5594 | 1582 | Fr. 792   | 2 | 26.6  |
| 28524  |                |       | 8251 | 5413 | 1619 | Ar.       | 1 | 4.0   |
| 28532  | Ulugh Beigh C  | 1896a | 8373 | 5207 | 1668 | Fr. 793   | 2 | 17.7  |
| 28533  | Ulugh Beigh    | 1896  | 8322 | 5398 | 1263 | Fr. 791   | 2 | 32.5  |
| 28534  | Ulugh Beigh E  | 1897a | 8390 | 5428 | 0380 | Fr. 795   | 2 | 24.0  |
| 29018  | Cavalerius     | 1937  | 9160 | 0888 | 3911 | Fr. 587   | 4 | 36.8  |
| 29024  | Hevelius A     | 1959  | 9265 | 0489 | 3731 | Fr. 653   | 3 | 7.8   |
| 29061  | Riccioli H     | 1966  | 9663 | 0190 | 2566 | Fr. 1012  | 3 | 10.1  |
| 29066  | Olbers F       | 1931a | 9612 | 0698 | 2668 | Fr. 718   | 2 | 10.6  |
| 29085  | Olbers α       | 1932  | 9802 | 0549 | 1905 | Fr. 717   | 2 | (F)   |
| 29151  | Olbers B       | 1929  | 9553 | 1180 | 2712 | Fr. 714   | 2 | 8.8   |

| Ref.   | Designation   | B&M   | $\xi$<br>- | $\eta$<br>+ | $\zeta$<br>+ | Authority | M | Diam. |
|--------|---------------|-------|------------|-------------|--------------|-----------|---|-------|
| *29159 | Cardanus C    | 1916a | 9521       | 1957        | 2350         | Fr. 715   | 2 | 7.2   |
| *29162 | Olbers        | 1927  | 9615       | 1239        | 2454         | Fr. 712   | 2 | 40.8  |
| 29164  | Olbers A      | 1928  | 9668       | 1414        | 2127         | Fr. 713   | 3 | 24.5  |
| 29217  | Krafft E      | 1915a | 9127       | 2745        | 3027         | Fr. 674   | 2 | 5.2   |
| 29218  | Krafft        | 1909  | 9145       | 2851        | 2871         | Fr. 672   | 4 | 29.5  |
| 29218A | Krafft C      | 1912  | 9133       | 2816        | 2943         | Fr. 676   | 2 | 6.8   |
| 29222  | Cardanus      | 1916  | 9276       | 2290        | 2952         | Fr. 583   | 4 | 28.5  |
| 29226  | Krafft D      | 1913  | 9241       | 2611        | 2791         | Fr. 675   | 2 | 6.7   |
| 29239  | Krafft H      | 1915b | 9342       | 2924        | 2043         | Fr. 673   | 2 | 7.2   |
| 29249  | Krafft A      | 1910  | 9443       | 2990        | 1373         | Fr. 797   | 2 | 26.9  |
| 29264  | Vasco da Gama | 1922  | 9636       | 2456        | 1054         | Fr. 796   | 2 | 51.7  |

| Ref.   | Designation  | B&M   | $\xi$<br>- | $\eta$<br>- | $\zeta$<br>+ | Authority | M | Diam. |
|--------|--------------|-------|------------|-------------|--------------|-----------|---|-------|
| 30000  | Oppolzer A   | 2951a | 0057       | 0083        | 9999         | Sa.1331   | 1 | 2.0   |
| 30015  |              |       | 0109       | 0507        | 9987         | Sa.1317   | 3 | 2.8   |
| 30035  | Spörer A     | 2945a | 0356       | 0598        | 9976         | Sa.1244   | 2 | 2.6   |
| 30039  | Herschel     | 2944  | 0360       | 0988        | 9945         | Sa.1242   | 2 | 23.4  |
| #30043 | Flammarion A | 2950a | 0431       | 0338        | 9985         | Sa.1214   | 2 | 2.2   |
| 30054  |              |       | 0520       | 0496        | 9974         | Ar.       | 1 | 1.6   |
| 30054A |              |       | 0567       | 0439        | 9975         | Ar.       | 1 | 1.4   |
| 30056  |              |       | 0548       | 0646        | 9964         | Ar.       | 1 | 1.4   |
| #30058 | Herschel C   | 2947  | 0550       | 0871        | 9947         | Sa.1179   | 6 | 6.0   |
| 30063  | Flammarion C | 2950c | 0650       | 0350        | 9973         | Sa.1141   | 3 | 2.8   |
| 30064  |              |       | 0627       | 0462        | 9969         | Ar.       | 1 | 1.4   |
| 30077  | Flammarion B | 2950b | 0789       | 0703        | 9944         | Sa.1105   | 5 | 3.6   |
| 30080  | Mösting D    | 2936a | 0891       | 0063        | 9960         | Sa.1073   | 2 | 4.0   |
| 30085  | Flammarion D | 2950d | 0828       | 0527        | 9952         | Sa.1093   | 3 | 2.9   |
| #30095 | Mösting A    | 2933  | 0900       | 0559        | 9944         | Sa.1068   | 6 | 7.5   |
| 30099  | Lalande N    | 2920a | 0991       | 0970        | 9903         | Sa.1042   | 4 | 3.4   |
| 30099A |              |       | 0989       | 0930        | 9908         | Sa.1043   | 4 | 3.5   |
| 30107  |              |       | 0099       | 1763        | 9843         | Ar.       | 1 | 1.3   |
| 30107A |              |       | 0030       | 1748        | 9848         | Ar.       | 1 | 1.2   |
| 30108  | Ptolemaeus S | 2970g | 0085       | 1829        | 9831         | Sa.1327   | 2 | 2.1   |
| 30112  |              |       | 0162       | 1276        | 9917         | Ar.       | 1 | 1.5   |
| 30113  | Ptolemaeus B | 2964  | 0121       | 1384        | 9903         | Sa.1315   | 1 | 10.6  |
| 30113A |              |       | 0117       | 1331        | 9910         | Ar.       | 1 | 1.1   |
| 30113B |              |       | 0157       | 1336        | 9909         | Ar.       | 1 | 1.0   |
| #30114 | Ptolemaeus A | 2963  | 0138       | 1479        | 9889         | Sa.1306   | 6 | 5.4   |

| Ref.   | Designation  | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam.   |
|--------|--------------|-------|-------|--------|---------|-----------|---|---------|
| 30116  |              |       | 0117  | 1677   | 9858    | Ar.       | 1 | 1.4     |
| 30122  |              |       | 0276  | 1275   | 9915    | Ar.       | 1 | 1.1     |
| 30123  |              |       | 0251  | 1312   | 9910    | Ar.       | 1 | 1.3     |
| 30123A |              |       | 0224  | 1384   | 9901    | Ar.       | 1 | 1.4     |
| 30123B |              |       | 0226  | 1307   | 9912    | Ar.       | 1 | 1.1     |
| 30125  |              |       | 0250  | 1518   | 9881    | Ar.       | 1 | 1.1     |
| 30132  |              |       | 0376  | 1275   | 9911    | Ar.       | 1 | 1.7     |
| 30133  |              |       | 0303  | 1310   | 9909    | Ar.       | 1 | 1.2     |
| 30141  | Herschel G   | 2953a | 0412  | 1132   | 9927    | Sa.1225   | 3 | 8.2     |
| 30143  |              |       | 0489  | 1335   | 9898    | Ar.       | 1 | 1.6     |
| 30144  | Ptolemaeus D | 2966  | 0443  | 1435   | 9887    | Sa.1209   | 4 | 3.2x2.2 |
| 30148  |              |       | 0463  | 1876   | 9812    | Ar.       | 1 | 1.4     |
| 30148A |              |       | 0478  | 1844   | 9817    | Ar.       | 1 | 1.2     |
| 30149  |              |       | 0417  | 1920   | 9805    | Ar.       | 1 | 1.8     |
| 30150  | Herschel H   | 2949c | 0591  | 1096   | 9922    | Sa.1160   | 1 | 2.9     |
| 30152  |              |       | 0557  | 1261   | 9905    | Sa.1173   | 1 | 2.8     |
| 30154  |              |       | 0516  | 1438   | 9883    | Ar.       | 1 | 1.1     |
| 30156  | Ptolemaeus M | 2970  | 0582  | 1630   | 9849    | Sa.1163   | 2 | 2.0     |
| 30156A |              |       | 0568  | 1696   | 9839    | Ar.       | 1 | 1.5     |
| *30157 | Ptolemaeus C | 2965  | 0557  | 1753   | 9830    | Ar.       | 1 | 1.5     |
| 30158  |              |       | 0532  | 1887   | 9806    | Ar.       | 1 | 1.6     |
| 30159  | Ptolemaeus P | 2970e | 0536  | 1974   | 9789    | Sa.1186   | 1 | 2.5     |
| 30162  | Ptolemaeus O | 2966a | 0619  | 1261   | 9901    | Sa.1153   | 2 | 2.6     |
| 30165  | Ptolemaeus L | 2970d | 0687  | 1535   | 9858    | Sa.1132   | 3 | 2.2     |
| *30168 |              |       | 0637  | 1834   | 9810    | Ar.       | 1 | 3.0     |

| Ref.   | Designation        | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam.   |
|--------|--------------------|-------|-------|--------|---------|-----------|---|---------|
| 30170  | Herschel F         | 2949a | 0756  | 1008   | 9920    | Sa.1111   | 2 | 3.8     |
| 30171  | Herschel J         | 2949b | 0736  | 1114   | 9911    | Sa.1121   | 2 | 2.9     |
| 30184  | Ptolemaeus K       | 2970c | 0805  | 1432   | 9864    | Sa.1097   | 3 | 5.3     |
| 30186  |                    |       | 0863  | 1663   | 9823    | Sa.1080   | 2 | 2.2     |
| 30187  | Davy G             | 3010  | 0867  | 1798   | 9799    | Sa.1077   | 3 | 8.4     |
| 30191  |                    |       | 0902  | 1189   | 9888    | Sa.1067   | 4 | 4.0     |
| *30192 | Ptolemaeus H       | 2970a | 0937  | 1238   | 9879    | Sa.1058   | 2 | 4.6x3.8 |
| 30192A |                    |       | 0929  | 1290   | 9873    | Sa.1060   | 2 | 3.5     |
| 30196  | Ptolemaeus J       | 2970b | 0922  | 1674   | 9816    | Sa.1062   | 3 | 2.8     |
| 30206  | Alphonsus H        | 2992a | 0082  | 2689   | 9631    | Sa.1328   | 4 | 4.5     |
| 30235  | Alphonsus A        | 2987  | 0376  | 2562   | 9659    | Sa.1235   | 2 | 2.5     |
| 30243  | Alphonsus $\alpha$ | 2995  | 0458  | 2309   | 9719    | Fr. 8     | 5 | (CP)    |
| 30249  | Arzachel B         | 3042  | 0492  | 2932   | 9548    | Sa.1197   | 5 | 4.4     |
| 30251  | Alphonsus G        | 2987a | 0572  | 2135   | 9753    | Sa.1168   | 2 | 2.2     |
| 30277  | Alpetragius        | 3027  | 0751  | 2759   | 9583    | Sa.1114   | 2 | 22.9    |
| 30294  | Alphonsus $\zeta$  | 2996a | 0919  | 2496   | 9640    | Sa.1063   | 1 | (P)     |
| 30316  | Purbach E          | 3087  | 0108  | 3692   | 9293    | Sa.1319   | 1 | 13.1    |
| #30320 | Arzachel A         | 3041  | 0244  | 3094   | 9506    | Sa.1282   | 5 | 5.6     |
| 30321  | Arzachel K         | 3042b | 0264  | 3145   | 9489    | Sa.1276   | 3 | 2.5     |
| 30321A |                    |       | 0258  | 3109   | 9501    | Sa.1277   | 1 | 2.6     |
| 30328  | Purbach D          | 3086  | 0247  | 3886   | 9211    | Sa.1281   | 5 | 7.0     |
| 30331  | Arzachel H         | 3042a | 0331  | 3196   | 9470    | Sa.1256   | 2 | 2.8     |
| 30360  | Arzachel C         | 3043  | 0611  | 3003   | 9519    | Sa.1157   | 3 | 3.4     |
| 30366  | Thebit C           | 3070a | 0664  | 3624   | 9297    | Sa.1136   | 2 | 3.3     |
| #30376 | Thebit A           | 3071  | 0791  | 3677   | 9266    | Sa.1104   | 6 | 11.7    |

| Ref.   | Designation     | B&M    | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam. |
|--------|-----------------|--------|-------|--------|---------|-----------|---|-------|
| 30379  | Thebit E        | 3073   | 0741  | 3922   | 9169    | Sa.1119   | 3 | 4.3   |
| 30389  | Thebit F        | 3073a  | 0854  | 3908   | 9165    | Sa.1083   | 1 | 2.4   |
| 30390  | Alpetragius J   | 3031b  | 0937  | 3094   | 9463    | Sa.1059   | 1 | 2.5   |
| 30394  |                 |        | 0951  | 3472   | 9330    | Sa.1055   | 1 | 2.1   |
| 30397  |                 |        | 0980  | 3793   | 9201    | Sa.1046   | 1 | 2.6   |
| 30411  | Purbach T       | 3089a  | 0139  | 4170   | 9088    | Sa.1305   | 3 | 2.8   |
| 30412  |                 |        | 0180  | 4286   | 9033    | Sa.1300   | 2 | 2.1   |
| 30416  | Regiomontanus A | 3101   | 0100  | 4696   | 8828    | Sa.1321   | 3 | 3.2   |
| 30424  | Purbach A       | 3083   | 0296  | 4403   | 8974    | Sa.1269   | 6 | 4.4   |
| 30427  |                 |        | 0299  | 4780   | 8779    | Sa.1267   | 1 | 2.1   |
| 30435  | Purbach S       | 3083a  | 0347  | 4576   | 8885    | Sa.1248   | 1 | 5.0   |
| 30440  |                 | (3090) | 0438  | 4095   | 9112    | Sa.1211   | 2 | 2.0   |
| 30454  | Purbach R       | 3091c  | 0500  | 4462   | 8936    | Sa.1195   | 1 | 2.4   |
| 30454A | Purbach P       | 3091b  | 0573  | 4458   | 8933    | Sa.1167   | 2 | 2.8   |
| 30457  | Regiomontanus G | 3103b  | 0546  | 4730   | 8794    | Sa.1181   | 1 | 3.1   |
| 30458  | Regiomontanus B | 3102   | 0565  | 4856   | 8724    | Sa.1172   | 3 | 5.7   |
| 30461  | Purbach O       | 3090a  | 0602  | 4192   | 9059    | Sa.1159   | 1 | 2.9   |
| #30465 | Purbach B       | 3084   | 0656  | 4533   | 8890    | Sa.1140   | 6 | 9.3   |
| 30466  | Purbach J       | 3094a  | 0603  | 4622   | 8847    | Sa.1158   | 2 | 7.2   |
| 30467  | Regiomontanus H | 3103a  | 0616  | 4789   | 8757    | Sa.1154   | 1 | 3.6   |
| 30472  | Purbach K       | 3092   | 0715  | 4254   | 9022    | Sa.1125   | 3 | 4.8   |
| 30478  | Regiomontanus C | 3088   | 0795  | 4808   | 8732    | Sa.1101   | 3 | 4.1   |
| 30478A |                 |        | 0762  | 4865   | 8704    | Sa.1109   | 1 | 2.5   |
| 30484  | Purbach N       | 3091a  | 0836  | 4423   | 8930    | Sa.1088   | 3 | 4.1   |
| 30497  | Regiomontanus E | 3103   | 0952  | 4730   | 8759    | Sa.1054   | 4 | 3.7   |

| Ref.   | Designation     | B&M    | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam.  |
|--------|-----------------|--------|-------|--------|---------|-----------|---|--------|
| 30500  | Regiomontanus K | 3104a  | 0001  | 5040   | 8637    | Sa.1345   | 2 | 3.7    |
| 30502  | Walter CA       | 3469a  | 0097  | 5216   | 8532    | Sa.1323   | 1 | 4.0    |
| 30505  | Walter N        | 3466b  | 0026  | 5543   | 8323    | Sa.1338   | 4 | 3.5    |
| 30505A | Walter M        | 3466a  | 0048  | 5589   | 8293    | Sa.1333   | 2 | 2.8    |
| 30508  | Walter O        | 3466c  | 0022  | 5821   | 8131    | Sa.1340   | 1 | 3.3    |
| 30512  | Walter L        | 3469b  | 0135  | 5286   | 8488    | Sa.1307   | 1 | 2.9    |
| 30515  | Walter K        | 3471a  | 0196  | 5598   | 8284    | Sa.1293   | 3 | 4.1    |
| 30519  | Lexell A (CP)   |        | 0192  | 5996   | 8001    | Sa.1295   | 2 | (19.1) |
| 30526  | Walter J        | 3471b  | 0216  | 5655   | 8244    | Sa.1288   | 1 | 4.0    |
| 30553  | Walter G        | 3473   | 0584  | 5375   | 8413    | Sa.1162   | 1 | 4.6    |
| 30558  | Lexell (CP)     | (3123) | 0581  | 5811   | 8117    | Sa.1165   | 2 | (35.5) |
| 30562  | Walter H        | 3473a  | 0644  | 5282   | 8467    | Sa.1145   | 1 | 2.5    |
| 30564  |                 |        | 0645  | 5438   | 8367    | Sa.1144   | 2 | 2.5    |
| 30569  | Lexell H        | 3123e  | 0674  | 5953   | 8007    | Sa.1134   | 3 | 5.7    |
| 30570  |                 |        | 0747  | 5001   | 8628    | Sa.1117   | 1 | 2.1    |
| 30575  | Hell K          | 3112a  | 0759  | 5598   | 8252    | Sa.1110   | 2 | 3.1    |
| 30579  | Lexell F        | 3123c  | 0746  | 5952   | 8001    | Sa.1118   | 3 | 4.6    |
| 30580  | Hell B          | 3111   | 0866  | 5000   | 8617    | Sa.1078   | 2 | 12.5   |
| #30586 | Hell E          | 3116   | 0882  | 5674   | 8187    | Sa.1074   | 5 | 5.7    |
| 30588  | Lexell L        | 3123b  | 0854  | 5875   | 8047    | Sa.1084   | 2 | 4.6    |
| 30589  | Sasserides D    | 3142   | 0894  | 5984   | 7962    | Sa.1070   | 3 | 6.0    |
| 30589A |                 |        | 0858  | 5947   | 7994    | Sa.1082   | 3 | 5.9    |
| 30589B |                 |        | 0892  | 5911   | 8017    | Sa.1071   | 2 | 4.5    |
| 30598  | Lexell K        | 3123a  | 0903  | 5863   | 8051    | Sa.1066   | 1 | 6.5    |
| #30609 | Saussure A      | 3165   | 0062  | 6914   | 7224    | Sa.1329   | 5 | 10.8   |

| Ref.   | Designation  | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam. |
|--------|--------------|-------|-------|--------|---------|-----------|---|-------|
| 30610  | Lexell A     | 3124  | 0185  | 6002   | 7996    | Sa.1297   | 4 | 19.1  |
| 30624  | Huggins A    | 3151a | 0293  | 6497   | 7596    | Sa.1270   | 2 | 6.2   |
| 30633  | Orontius A   | 3152a | 0344  | 6300   | 7759    | Sa.1250   | 4 | 4.0   |
| 30634  |              |       | 0351  | 6432   | 7649    | Sa.1247   | 1 | 3.4   |
| 30637  |              |       | 0356  | 6719   | 7398    | Sa.1245   | 1 | 3.0   |
| 30640  | Lexell B     | 3125  | 0465  | 6051   | 7948    | Sa.1202   | 2 | 13.0  |
| 30643  |              |       | 0458  | 6393   | 7676    | Sa.1205   | 3 | 3.4   |
| 30644  | Orontius B   | 3152  | 0414  | 6409   | 7665    | Sa.1223   | 2 | 5.9   |
| 30647  |              |       | 0427  | 6760   | 7356    | Sa.1216   | 1 | 3.0   |
| #30651 | Orontius C   | 3153  | 0557  | 6149   | 7867    | Sa.1174   | 6 | 8.5   |
| 30657  | Saussure B   | 3166  | 0510  | 6715   | 7393    | Sa.1192   | 1 | 2.8   |
| 30659  | Saussure F   | 3164a | 0570  | 6981   | 7137    | Sa.1169   | 1 | 2.4   |
| 30660  | Lexell G     | 3123d | 0677  | 6054   | 7930    | Sa.1133   | 2 | 5.6   |
| 30660A |              |       | 0640  | 6067   | 7924    | Sa.1146   | 1 | 4.0   |
| 30663  | Orontius E   | 3153a | 0639  | 6358   | 7692    | Sa.1147   | 1 | 3.7   |
| 30677  | Pictet F     | 3179a | 0800  | 6791   | 7297    | Sa.1099   | 1 | 6.4   |
| #30683 | Orontius D   | 3154  | 0828  | 6347   | 7684    | Sa.1094   | 6 | 8.6   |
| 30684  | Sasserides L | 3146  | 0875  | 6431   | 7608    | Sa.1075   | 2 | 3.0   |
| 30691  | Sasserides M | 3144b | 0964  | 6148   | 7828    | Sa.1051   | 4 | 6.4   |
| 30692  | Sasserides K | 3144a | 0997  | 6288   | 7712    | Sa.1040   | 1 | 4.4   |
| 30692A | Sasserides N | 3144c | 0949  | 6251   | 7748    | Sa.1056   | 2 | 3.1   |
| 30697  | Pictet C     | 3179  | 0985  | 6777   | 7288    | Sa.1044   | 1 | 4.0   |
| 30706  | Maginus EB   | 3208c | 0086  | 7663   | 6424    | Sa.1326   | 3 | 4.2   |
| 30706A |              |       | 0089  | 7600   | 6498    | Sa.1325   | 1 | 3.9   |
| 30707  |              |       | 0001  | 7748   | 6322    | Sa.1347   | 1 | 2.8   |

| Ref.    | Designation | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam. |
|---------|-------------|-------|-------|--------|---------|-----------|---|-------|
| 30714   |             |       | 0182  | 7470   | 6646    | Sa.1299   | 1 | 2.9   |
| 30716   |             |       | 0104  | 7694   | 6387    | Sa.1320   | 1 | 3.6   |
| 30717   | Maginus EA  | 3208b | 0125  | 7790   | 6270    | Sa.1314   | 1 | 5.0   |
| 30717A  |             |       | 0130  | 7743   | 6327    | Sa.1309   | 1 | 4.4   |
| 30717B  |             |       | 0129  | 7720   | 6355    | Sa.1310   | 2 | 2.9   |
| 30718   |             |       | 0173  | 7834   | 6213    | Sa.1302   | 1 | 2.8   |
| 30727   | Maginus Q   | 3204a | 0248  | 7752   | 6312    | Sa.1280   | 2 | 5.0   |
| 30731   | Proctor H   | 3213h | 0311  | 7159   | 6975    | Sa.1262   | 1 | 3.1   |
| 30732   |             |       | 0342  | 7236   | 6894    | Sa.1252   | 1 | 2.1   |
| 30734   |             |       | 0336  | 7430   | 6685    | Sa.1255   | 2 | 3.1   |
| *30736  |             |       | 0305  | 7615   | 6475    | Sa.1265   | 1 | 6.2   |
| *30736A | Maginus J   | 3206d | 0315  | 7647   | 6436    | Sa.1259   | 2 | 4.7   |
| *30736B |             |       | 0313  | 7671   | 6408    | Sa.1260   | 1 | 3.8   |
| 30738   |             |       | 0373  | 7881   | 6144    | Sa.1237   | 1 | 4.0   |
| 30745   |             |       | 0421  | 7584   | 6504    | Sa.1221   | 3 | 3.0   |
| 30746   | Maginus Z   | 3215b | 0402  | 7681   | 6391    | Sa.1228   | 1 | 7.9   |
| 30751   |             |       | 0578  | 7134   | 6984    | Sa.1166   | 2 | 6.0   |
| 30752   |             |       | 0546  | 7245   | 6871    | Sa.1180   | 1 | 2.3   |
| 30753   | Proctor G   | 3213g | 0565  | 7399   | 6704    | Sa.1171   | 2 | 3.9   |
| *30754  |             |       | 0545  | 7456   | 6642    | Sa.1183   | 2 | 4.0   |
| *30754A |             |       | 0557  | 7422   | 6679    | Sa.1175   | 2 | 3.8   |
| #30755  | Maginus A   | 3204  | 0501  | 7515   | 6579    | Sa.1194   | 4 | 7.6   |
| 30761   | Proctor E   | 3213e | 0622  | 7117   | 6997    | Sa.1152   | 1 | 4.6   |
| 30764   | Proctor F   | 3213f | 0614  | 7403   | 6694    | Sa.1155   | 1 | 3.9   |
| *30764A |             |       | 0687  | 7434   | 6653    | Sa.1131   | 1 | 2.7   |

| Ref.   | Designation | B&M    | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam. |
|--------|-------------|--------|-------|--------|---------|-----------|---|-------|
| 30764B |             |        | 0646  | 7499   | 6584    | Sa.1143   | 1 | 2.6   |
| 30765  |             |        | 0623  | 7560   | 6516    | Sa.1151   | 1 | 2.0   |
| 30771  | Proctor D   | 3213d  | 0726  | 7198   | 6904    | Sa.1123   | 2 | 7.0   |
| 30772  | Proctor B   | 3213b  | 0795  | 7247   | 6844    | Sa.1100   | 1 | 4.6   |
| 30773  | Proctor C   | 3213c  | 0768  | 7387   | 6697    | Sa.1108   | 1 | 3.1   |
| 30774  |             |        | 0708  | 7448   | 6635    | Sa.1127   | 1 | 2.4   |
| 30778  |             |        | 0736  | 7803   | 6211    | Sa.1122   | 1 | 2.6   |
| 30779  | Maginus T   | 3211a  | 0748  | 7914   | 6068    | Sa.1116   | 2 | 3.4   |
| 30782  |             |        | 0822  | 7298   | 6787    | Sa.1095   | 2 | 3.9   |
| 30783  | Proctor A   | 3213a  | 0801  | 7319   | 6767    | Sa.1098   | 1 | 4.8   |
| 30785  | Maginus V   | 3214b  | 0831  | 7574   | 6476    | Sa.1089   | 3 | 5.0   |
| 30785A | Maginus W   | 3214a  | 0892  | 7577   | 6465    | Sa.1072   | 2 | 4.7   |
| 30787  | Maginus X   | 3206c  | 0831  | 7797   | 6207    | Sa.1090   | 1 | 4.1   |
| 30790  | Pictet A    | 3177   | 0969  | 7069   | 7007    | Sa.1049   | 2 | 19.5  |
| 30793  | Maginus U   | 3210a  | 0963  | 7357   | 6705    | Sa.1052   | 2 | 5.1   |
| 30798  | Maginus Y   | 3212a  | 0975  | 7862   | 6103    | Sa.1048   | 3 | 3.9   |
| 30808  |             |        | 0090  | 8866   | 4624    | Sa.1324   | 1 | 1.9   |
| 30808A |             |        | 0046  | 8845   | 4666    | Sa.1334   | 2 | 2.1   |
| 30809  |             |        | 0006  | 8923   | 4515    | Sa.1344   | 2 | 3.6   |
| 30817  | Deluc W     | 3225a  | 0150  | 8795   | 4756    | Sa.1304   | 1 | 3.3   |
| 30817A |             |        | 0134  | 8776   | 4792    | Sa.1308   | 1 | 2.6   |
| 30818  |             |        | 0182  | 8898   | 4559    | Sa.1298   | 1 | 2.7   |
| 30821  |             | (3218) | 0279  | 8195   | 5724    | Sa.1271   | 1 | 2.2   |
| 30821A | Deluc H     | 3226   | 0206  | 8104   | 5856    | Sa.1290   | 6 | 15.1  |
| 30822  | Deluc T     | 3222a  | 0298  | 8277   | 5604    | Sa.1268   | 3 | 6.0   |

| Ref.    | Designation   | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam. |
|---------|---------------|-------|-------|--------|---------|-----------|---|-------|
| 30823   | Deluc D       | 3222  | 0228  | 8322   | 5540    | Sa.1286   | 6 | 15.4  |
| 30825   | Deluc U       | 3224d | 0257  | 8570   | 5146    | Sa.1278   | 1 | 3.0   |
| 30825A  |               |       | 0209  | 8571   | 5148    | Sa.1289   | 1 | 2.8   |
| 30828   |               |       | 0254  | 8823   | 4700    | Sa.1279   | 1 | 2.5   |
| 30829   | Cysatus F     | 3271a | 0274  | 8976   | 4399    | Sa.1273   | 1 | 3.0   |
| *30835  | Deluc P       | 3224a | 0388  | 8566   | 5145    | Sa.1233   | 1 | 3.8   |
| *30835A |               |       | 0375  | 8594   | 5100    | Sa.1236   | 2 | 4.8   |
| *30835B | Deluc Q       | 3224c | 0312  | 8566   | 5150    | Sa.1261   | 1 | 4.6   |
| *30835C |               |       | 0307  | 8585   | 5120    | Sa.1264   | 1 | 3.0   |
| 30836   | Deluc E       | 3223  | 0370  | 8687   | 4940    | Sa.1240   | 3 | 6.6   |
| 30838   | Deluc O       | 3224b | 0352  | 8890   | 4566    | Sa.1246   | 2 | 3.8   |
| 30839   |               |       | 0337  | 8912   | 4524    | Sa.1254   | 1 | 2.8   |
| 30839A  |               |       | 0347  | 8934   | 4480    | Sa.1249   | 1 | 2.5   |
| 30839B  |               |       | 0371  | 8933   | 4479    | Sa.1239   | 1 | 2.8   |
| 30845   |               |       | 0426  | 8559   | 5154    | Sa.1217   | 1 | 4.2   |
| 30847   |               |       | 0434  | 8772   | 4782    | Sa.1213   | 1 | 3.2   |
| 30849   | Gruemberger F | 3265b | 0495  | 8900   | 4533    | Sa.1196   | 1 | 3.2   |
| 30849A  |               |       | 0464  | 8907   | 4523    | Sa.1203   | 1 | 2.4   |
| 30857   | Deluc L       | 3223a | 0532  | 8733   | 4842    | Sa.1187   | 2 | 4.3   |
| 30859   | Gruemberger E | 3265a | 0554  | 8964   | 4399    | Sa.1176   | 2 | 5.0   |
| 30859A  |               |       | 0591  | 8964   | 4394    | Sa.1161   | 1 | 2.5   |
| 30866   |               |       | 0664  | 8697   | 4892    | Sa.1137   | 1 | 3.0   |
| 30866A  |               |       | 0624  | 8609   | 5049    | Sa.1150   | 1 | 2.1   |
| 30868   | Rutherford E  | 3233e | 0659  | 8893   | 4525    | Sa.1138   | 1 | 5.0   |
| 30869   | Rutherford D  | 3233d | 0695  | 8931   | 4445    | Sa.1129   | 2 | 5.0   |

| Ref.    | Designation   | B&M   | ξ    | η    | ζ    | Authority | M | Diam. |
|---------|---------------|-------|------|------|------|-----------|---|-------|
| 30878   |               |       | 0705 | 8802 | 4694 | Sa.1128   | 2 | 3.0   |
| 30879   |               |       | 0710 | 8962 | 4380 | Sa.1126   | 1 | 2.5   |
| 30881   | Clavius BB    | 3234b | 0864 | 8136 | 5750 | Sa.1079   | 3 | 6.9   |
| 30888   | Rutherford C  | 3233c | 0862 | 8868 | 4540 | Sa.1081   | 2 | 7.8   |
| 30893   | Clavius B     | 3234  | 0978 | 8300 | 5491 | Sa.1047   | 1 | 29.7  |
| 30898   | Rutherford A  | 3233a | 0955 | 8855 | 4547 | Sa.1053   | 4 | 5.9   |
| 30898A  | Rutherford B  | 3233b | 0912 | 8877 | 4514 | Sa.1065   | 1 | 3.3   |
| #30900  | Cysatus A     | 3268  | 0055 | 9004 | 4351 | Sa.1332   | 5 | 8.1   |
| 30901   | Cysatus G     | 3272a | 0017 | 9120 | 4103 | Sa.1342   | 1 | 3.6   |
| 30911   | Cysatus B     | 3269  | 0129 | 9108 | 4126 | Sa.1311   | 1 | 4.5   |
| 30911A  |               |       | 0109 | 9199 | 3920 | Sa.1318   | 1 | 3.3   |
| 30920   |               |       | 0268 | 9029 | 4290 | Sa.1275   | 1 | 2.1   |
| 30930   |               |       | 0300 | 9023 | 4302 | Sa.1266   | 1 | 2.2   |
| 30930A  |               |       | 0357 | 9070 | 4196 | Sa.1243   | 1 | 2.0   |
| 30934   | Moretus β     | 3280  | 0361 | 9410 | 3365 | Sa.1241   | 2 | (CP)  |
| 30936   | Short         | 3312  | 0343 | 9638 | 2645 | Sa.1251   | 1 | 40.7  |
| #30936A | Short β       | 3317a | 0340 | 9623 | 2700 | Sa.1253   | 1 | (CP)  |
| 30940   | Cysatus D     | 3271  | 0435 | 9064 | 4202 | Sa.1212   | 1 | 2.8   |
| #30941  | Cysatus       | 3267  | 0431 | 9140 | 4035 | Sa.1215   | 4 | 28.1  |
| 30960   |               |       | 0650 | 9018 | 4273 | Sa.1142   | 1 | 3.0   |
| *#30972 | Gruemberger A | 3264  | 0794 | 9215 | 3801 | Sa.1102   | 1 | 11.5  |
| 30975   |               |       | 0750 | 9557 | 2846 | Sa.1115   | 1 | 3.1   |
| 30985   | Newton F      | 3309a | 0846 | 9521 | 2937 | Sa.1085   | 1 | 4.0   |
| 30992   | Gruemberger D | 3264a | 0926 | 9285 | 3596 | Sa.1061   | 1 | 3.0   |
| #31001  | Mösting       | 2932  | 1019 | 0117 | 9947 | Sa.1033   | 4 | 15.2  |

| Ref.    | Designation | B&M  | ξ    | η    | ζ    | Authority | M | Diam. |
|---------|-------------|------|------|------|------|-----------|---|-------|
| 31003   |             |      | 1030 | 0374 | 9940 | Ar.       | 1 | 1.8   |
| #31019  | Lalande C   | 2920 | 1194 | 0973 | 9881 | Sa. 977   | 6 | 6.1   |
| 31021   |             |      | 1276 | 0132 | 9917 | Sa. 962   | 1 | 1.9   |
| #31024  | Mösting B   | 2934 | 1279 | 0472 | 9907 | Sa. 959   | 5 | 4.1   |
| 31025   |             |      | 1278 | 0520 | 9904 | Sa. 960   | 2 | 2.7   |
| 31030   |             |      | 1325 | 0032 | 9912 | Ar.       | 1 | (P)   |
| 31030A  |             |      | 1323 | 0060 | 9912 | Ar.       | 1 | (P)   |
| 31032   |             |      | 1354 | 0205 | 9906 | Ar.       | 1 | (P)   |
| *31032A |             |      | 1358 | 0288 | 9903 | Ar.       | 1 | (P)   |
| 31036   |             |      | 1314 | 0639 | 9893 | Ar.       | 1 | 1.6   |
| 31040   |             |      | 1479 | 0014 | 9890 | Ar.       | 1 | 1.6   |
| #31043  | Mösting C   | 2935 | 1405 | 0314 | 9896 | Sa. 913   | 2 | 2.2   |
| 31045   |             |      | 1413 | 0549 | 9884 | Ar.       | 1 | 2.2   |
| #31047  | Lalande     | 2917 | 1492 | 0775 | 9858 | Sa. 888   | 4 | 13.9  |
| #31055  | Lalande B   | 2919 | 1561 | 0544 | 9862 | Sa. 866   | 5 | 4.7   |
| 31056   |             |      | 1570 | 0616 | 9857 | Ar.       | 1 | 1.3   |
| 31065   |             |      | 1651 | 0547 | 9847 | Ar.       | 1 | 1.4   |
| 31065A  |             |      | 1691 | 0575 | 9839 | Ar.       | 1 | 1.4   |
| 31074   |             |      | 1745 | 0459 | 9836 | Ar.       | 1 | 1.8   |
| 31077   |             |      | 1715 | 0726 | 9825 | Ar.       | 1 | 1.4   |
| 31081   |             |      | 1836 | 0168 | 9829 | Sa. 788   | 2 | 2.7   |
| 31092   |             |      | 1975 | 0210 | 9801 | Ar.       | 1 | 1.4   |
| 31097   |             |      | 1969 | 0705 | 9779 | Ar.       | 1 | 1.3   |
| 31105   |             |      | 1082 | 1581 | 9815 | Sa.1012   | 1 | 2.6   |
| 31109   |             |      | 1084 | 1914 | 9755 | Sa.1010   | 1 | 1.8   |

| Ref.    | Designation   | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam. |
|---------|---------------|-------|-------|--------|---------|-----------|---|-------|
| 31113   | Palisa C      | 3007a | 1114  | 1345   | 9846    | Sa.1006   | 1 | 5.0   |
| 31115   | Palisa D      | 3008a | 1183  | 1509   | 9815    | Sa. 982   | 3 | 4.6   |
| *31115A | Palisa A      | 3006a | 1154  | 1573   | 9808    | Sa. 992   | 2 | 2.7   |
| 31115B  |               |       | 1140  | 1596   | 9806    | Sa. 996   | 1 | 2.2   |
| 31119   | Davy C        | 3003a | 1189  | 1942   | 9737    | Sa. 980   | 1 | 2.0   |
| 31119A  |               |       | 1159  | 1939   | 9742    | Sa. 989   | 1 | 1.7   |
| 31120   | Lalande D     | 2921  | 1287  | 1076   | 9858    | Sa. 952   | 3 | 4.4   |
| 31126   | Palisa P      | 3011  | 1258  | 1678   | 9778    | Sa. 966   | 3 | 2.8   |
| 31127   |               |       | 1290  | 1702   | 9769    | Sa. 950   | 1 | 2.0   |
| 31127A  |               |       | 1255  | 1783   | 9759    | Sa. 967   | 1 | 1.6   |
| 31130   | Lalande G     | 2919a | 1370  | 1076   | 9847    | Sa. 926   | 1 | 2.7   |
| 31158   | Davy B        | 3005  | 1520  | 1888   | 9702    | Sa. 877   | 4 | 4.1   |
| #31161  | Lalande A     | 2918  | 1686  | 1153   | 9789    | Sa. 826   | 5 | 7.6   |
| 31167   |               |       | 1615  | 1766   | 9709    | Sa. 849   | 1 | 1.8   |
| 31203   | Alpetragius C | 3028a | 1039  | 2370   | 9659    | Sa.1026   | 1 | 1.2   |
| #31216  | Alpetragius B | 3028  | 1149  | 2607   | 9586    | Sa. 994   | 6 | 5.8   |
| 31227   | Lassell B     | 3025  | 1278  | 2789   | 9518    | Sa. 961   | 1 | 1.9   |
| #31231  | Davy A        | 3004  | 1311  | 2115   | 9686    | Sa. 941   | 5 | 8.4   |
| 31236   | Lassell       | 3021  | 1317  | 2665   | 9548    | Sa. 937   | 1 | 13.4  |
| 31255   | Lassell C     | 3029  | 1568  | 2529   | 9547    | Sa. 863   | 3 | 5.4   |
| 31255A  | Lassell G     | 3029a | 1508  | 2557   | 9549    | Sa. 882   | 2 | 3.8   |
| *31275  | Lassell D     | 3030  | 1755  | 2512   | 9519    | Sa. 814   | 2 | (s)   |
| 31275A  |               |       | 1750  | 2549   | 9510    | Sa. 815   | 1 | 2.0   |
| 31285   | Lassell H     | 3030a | 1885  | 2505   | 9496    | Sa. 775   | 1 | 2.7   |
| #31290  | Guericke C    | 2856  | 1959  | 2002   | 9600    | Sa. 753   | 5 | 6.3   |

| Ref.    | Designation   | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam. |
|---------|---------------|-------|-------|--------|---------|-----------|---|-------|
| 31300   | Alpetragius H | 3031a | 1003  | 3085   | 9459    | Sa.1038   | 2 | 2.6   |
| 31301   | Alpetragius G | 3031  | 1081  | 3116   | 9441    | Sa.1013   | 2 | 7.1   |
| 31307   | Thebit B      | 3072a | 1004  | 3787   | 9201    | Sa.1037   | 1 | 2.0   |
| 31307A  |               |       | 1083  | 3746   | 9208    | Ar.       | 1 | 1.5   |
| 31308   |               |       | 1014  | 3817   | 9187    | Ar.       | 1 | 1.4   |
| 31308A  |               |       | 1052  | 3808   | 9186    | Ar.       | 1 | 1.4   |
| #31333  | Thebit D      | 3072  | 1344  | 3379   | 9316    | Sa. 930   | 3 | 3.1   |
| #31338  | Birt          | 3063  | 1374  | 3800   | 9147    | Sa. 921   | 5 | 9.6   |
| 31338A  | Birt A        | 3064  | 1312  | 3820   | 9148    | Sa. 939   | 3 | 3.9   |
| 31341   |               |       | 1408  | 3134   | 9392    | Sa. 912   | 1 | 2.0   |
| *31347  |               |       | 1465  | 3792   | 9136    | Ar.       | 1 | 1.8   |
| 31355   | Birt E        | 3065b | 1563  | 3528   | 9226    | Sa. 865   | 1 | 2.0   |
| 31355A  | Birt D        | 3065a | 1594  | 3589   | 9197    | Sa. 853   | 1 | 1.8   |
| 31361   | Lassell E     | 3022  | 1678  | 3123   | 9350    | Sa. 829   | 4 | 3.1   |
| 31367   | Birt B        | 3065  | 1640  | 3785   | 9109    | Sa. 840   | 4 | 3.0   |
| *31400  |               |       | 1005  | 4053   | 9086    | Ar.       | 1 | 1.5   |
| 31407   |               |       | 1015  | 4744   | 8745    | Sa.1034   | 1 | 2.4   |
| 31409   | Hell J        | 3111a | 1035  | 4948   | 8628    | Sa.1029   | 1 | 3.4   |
| 31411   |               |       | 1162  | 4150   | 9024    | Ar.       | 1 | (P)   |
| 31415   |               |       | 1110  | 4550   | 8836    | Ar.       | 1 | 2.0   |
| 31415A  |               |       | 1169  | 4569   | 8818    | Ar.       | 1 | 1.3   |
| 31438   | Pitatus I     | 2791b | 1312  | 4856   | 8643    | Sa. 940   | 1 | 3.0   |
| *31443  |               |       | 1435  | 4389   | 8870    | Ar.       | 1 | (P)   |
| *31443A |               |       | 1463  | 4353   | 8883    | Ar.       | 1 | (P)   |



| Ref.   | Designation  | B&M    | ξ    | η    | ζ    | Authority | M | Diam.  |
|--------|--------------|--------|------|------|------|-----------|---|--------|
| 31451  |              |        | 1505 | 4143 | 8976 | Ar.       | 1 | 1.6    |
| 31454  | Lippershey R | 3066b  | 1569 | 4488 | 8798 | Sa. 862   | 3 | 2.4    |
| 31463  | Lippershey   | 3066a  | 1611 | 4369 | 8850 | Sa. 850   | 4 | 3.9    |
| 31467  | Pitatus F    | 2790   | 1698 | 4744 | 8638 | Sa. 823   | 1 | 3.0    |
| 31472  | Lippershey T | 3066c  | 1738 | 4265 | 8876 | Sa. 818   | 4 | 3.0    |
| 31474  |              |        | 1765 | 4487 | 8761 | Ar.       | 1 | 1.4    |
| 31477  |              |        | 1792 | 4739 | 8621 | Ar.       | 1 | 2.3    |
| 31478  |              |        | 1768 | 4845 | 8567 | Ar.       | 1 | 2.8    |
| 31479  | Pitatus G    | 2791   | 1706 | 4972 | 8507 | Sa. 821   | 1 | 9.2    |
| 31483  |              |        | 1831 | 4340 | 8821 | Ar.       | 1 | 1.7    |
| 31486  |              |        | 1843 | 4685 | 8640 | Ar.       | 1 | 4.8    |
| 31486A |              |        | 1824 | 4651 | 8663 | Ar.       | 1 | 1.0    |
| 31487  | Pitatus C    | 2787   | 1895 | 4761 | 8588 | Sa. 772   | 2 | 7.1    |
| 31510  | Hell G       | 3114   | 1153 | 5047 | 8556 | Sa. 993   | 1 | 3.3    |
| 31513  | Hell         | 3109   | 1137 | 5352 | 8371 | Sa. 997   | 4 | 19.2   |
| 31518  | Ball (CP)    | (3133) | 1178 | 5848 | 8026 | Sa. 985   | 1 | (22.7) |
| 31519  | Ball E       | 3133a  | 1130 | 5950 | 7957 | Sa.1002   | 1 | 2.9    |
| 31530  | Pitatus K    | 2791a  | 1331 | 5058 | 8523 | Sa. 932   | 1 | 3.0    |
| 31555  | Gauricus G   | 2750b  | 1587 | 5585 | 8142 | Sa. 855   | 1 | 9.9    |
| #31567 | Gauricus D   | 2748   | 1618 | 5756 | 8016 | Sa. 848   | 4 | 7.6    |
| 31571  |              |        | 1756 | 5100 | 8421 | Sa. 813   | 1 | 2.8    |
| 31571A | Pitatus D    | 2788   | 1777 | 5131 | 8398 | Sa. 807   | 1 | 5.4    |
| 31573  | Gauricus E   | 2749   | 1727 | 5383 | 8249 | Sa. 819   | 2 | 4.0    |
| 31573A | Gauricus J   | 2749a  | 1745 | 5347 | 8268 | Sa. 816   | 1 | 5.6    |
| 31577  | Gauricus P   | 2746a  | 1763 | 5744 | 7994 | Sa. 810   | 1 | 3.2    |

| Ref.   | Designation  | B&M            | ξ    | η    | ζ    | Authority | M | Diam.  |
|--------|--------------|----------------|------|------|------|-----------|---|--------|
| 31583  | Gauricus N   | 2744d          | 1855 | 5361 | 8235 | Sa. 784   | 2 | 4.2    |
| 31587  | Gauricus R   | 2745a          | 1883 | 5714 | 7987 | Sa. 776   | 3 | 3.6    |
| 31587A |              |                | 1809 | 5758 | 7973 | Sa. 796   | 1 | 2.3    |
| 31592  | Pitatus A    | 2784a          | 1944 | 5212 | 8310 | Sa. 757   | 3 | 3.8    |
| 31595  | Gauricus L   | 2744b          | 1979 | 5594 | 8049 | Sa. 746   | 1 | 2.2    |
| 31596  | Gauricus M   | 2744c          | 1945 | 5645 | 8022 | Sa. 756   | 3 | 3.2    |
| 31599  |              |                | 1956 | 5918 | 7820 | Sa. 754   | 1 | 3.0    |
| 31602  | Sasserides E | 3143           | 1040 | 6281 | 7712 | Sa.1024   | 1 | 4.8    |
| 31606  | Pictet N     | 3181           | 1062 | 6630 | 7410 | Sa.1017   | 3 | 4.0    |
| 31610  | Ball F       | 3136a          | 1172 | 6011 | 7905 | Sa. 988   | 3 | 6.7    |
| 31613  |              |                | 1140 | 6327 | 7660 | Sa. 995   | 1 | 2.2    |
| 31624  | Sasserides J | 3139c          | 1283 | 6442 | 7540 | Sa. 954   | 1 | 3.1    |
| 31634  | Sasserides F | 3188           | 1310 | 6496 | 7490 | Sa. 942   | 1 | 10.1   |
| 31638  | Tycho δ      | 3194a          | 1392 | 6825 | 7175 | Sa. 917   | 1 | (P)    |
| 31643  | Sasserides B | 3139a          | 1494 | 6362 | 7569 | Sa. 886   | 2 | 4.9    |
| 31643A | Sasserides H | 3139b          | 1463 | 6322 | 7609 | Sa. 895   | 1 | 7.0    |
| #31648 | Tycho γ      | (3182)<br>3194 | 1422 | 6858 | 7138 | Sa. 908   | 3 | (CP)   |
| 31653  | Tycho A (CP) | 3183           | 1594 | 6399 | 7518 | Sa. 852   | 2 | (17.9) |
| 31663  |              |                | 1699 | 6314 | 7566 | Sa. 822   | 1 | 3.1    |
| 31669  | Tycho C      | 3185           | 1695 | 6990 | 6947 | Sa. 825   | 1 | 3.8    |
| 31670  |              |                | 1762 | 6000 | 7804 | Sa. 811   | 1 | 2.6    |
| 31679  | Tycho B      | 3184           | 1727 | 6942 | 6988 | Sa. 820   | 1 | 9.0    |
| 31681  | Gauricus H   | 2750           | 1808 | 6179 | 7652 | Sa. 798   | 1 | 4.8    |
| 31688  |              |                | 1808 | 6817 | 7089 | Sa. 797   | 1 | 3.4    |
| 31690  |              |                | 1907 | 6006 | 7765 | Sa. 769   | 1 | 2.8    |

| Ref.   | Designation | B&M    | ξ    | η    | ζ    | Authority | M | Diam. |
|--------|-------------|--------|------|------|------|-----------|---|-------|
| 31691  | Heinsius G  | 3190   | 1970 | 6191 | 7602 | Sa. 749   | 4 | 6.2   |
| 31692  | Heinsius O  | 3190b  | 1993 | 6260 | 7540 | Sa. 743   | 1 | 2.6   |
| 31695  | Heinsius M  | 2740g  | 1993 | 6555 | 7285 | Sa. 744   | 1 | 7.5   |
| 31696  |             |        | 1973 | 6647 | 7206 | Sa. 747   | 1 | 2.4   |
| 31697  | Tycho J     | 3186d  | 1947 | 6754 | 7113 | Sa. 755   | 2 | 6.0   |
| 31697A |             |        | 1925 | 6727 | 7144 | Sa. 765   | 1 | 3.5   |
| 31702  |             |        | 1046 | 7270 | 6787 | Sa.1023   | 1 | 4.3   |
| 31703  | Street A    | 3196   | 1069 | 7310 | 6739 | Sa.1015   | 4 | 9.7   |
| 31704  | Maginus N   | 3211   | 1040 | 7489 | 6545 | Sa.1025   | 2 | 13.8  |
| 31705  | Maginus L   | 3215   | 1009 | 7565 | 6461 | Sa.1036   | 4 | 6.3   |
| 31706  | Maginus M   | 3215a  | 1029 | 7694 | 6304 | Sa.1032   | 4 | 5.5   |
| 31707  | Maginus CB  | 3206f  | 1030 | 7773 | 6206 | Sa.1030   | 4 | 5.9   |
| #31709 | Maginus H   | 3212   | 1059 | 7931 | 5999 | Sa.1020   | 5 | 8.6   |
| 31715  | Maginus R   | 3214c  | 1192 | 7528 | 6474 | Sa. 979   | 1 | 5.0   |
| 31715A | Maginus NA  | 3211b  | 1121 | 7510 | 6508 | Sa.1003   | 3 | 4.5   |
| 31715B |             |        | 1157 | 7550 | 6455 | Sa. 990   | 1 | 3.0   |
| 31724  | Street N    | 3195b  | 1207 | 7441 | 6570 | Sa. 976   | 1 | 2.9   |
| 31725  |             |        | 1216 | 7588 | 6399 | Sa. 975   | 1 | 5.0   |
| 31727  | Maginus P   | 3206b  | 1290 | 7735 | 6205 | Sa. 951   | 2 | 6.0   |
| 31732  |             | (3195) | 1312 | 7243 | 6769 | Sa. 938   | 1 | 2.7   |
| 31733  | Street E    | 3200   | 1383 | 7367 | 6619 | Sa. 918   | 1 | 7.1   |
| 31733A |             |        | 1305 | 7349 | 6656 | Sa. 945   | 1 | 2.6   |
| 31734  | Street H    | 3201   | 1395 | 7472 | 6498 | Sa. 916   | 2 | 16.8  |
| 31737  | Maginus O   | 3206a  | 1380 | 7727 | 6196 | Sa. 919   | 2 | 6.7   |
| 31737A |             |        | 1376 | 7766 | 6148 | Sa. 920   | 1 | 3.2   |

| Ref.    | Designation     | B&M    | ξ    | η    | ζ    | Authority | M | Diam. |
|---------|-----------------|--------|------|------|------|-----------|---|-------|
| #31738  | Clavius E       | 3238a  | 1365 | 7823 | 6078 | Sa. 927   | 5 | 9.1   |
| 31738A  | Maginus CA      | 3206e  | 1300 | 7896 | 5998 | Sa. 947   | 3 | 3.5   |
| 31741   | Street P        | 3195a  | 1439 | 7147 | 6845 | Sa. 901   | 1 | 3.3   |
| 31745   | Street D        | 3199   | 1436 | 7527 | 6425 | Sa. 902   | 2 | 6.1   |
| 31747   | Street L        | 3201a  | 1478 | 7736 | 6163 | Sa. 890   | 1 | 3.8   |
| 31747A  |                 |        | 1412 | 7752 | 6157 | Sa. 910   | 2 | 4.2   |
| 31747B  |                 |        | 1425 | 7769 | 6133 | Sa. 907   | 1 | 3.0   |
| *#31748 | Clavius G       | 2713   | 1482 | 7879 | 5977 | Sa. 889   | 5 | 9.9   |
| 31749   |                 |        | 1451 | 7971 | 5862 | Sa. 899   | 1 | 2.7   |
| 31751   | Tycho P         | 3186c  | 1575 | 7120 | 6843 | Sa. 859   | 2 | 4.8   |
| 31753   | Street K        | 3190e  | 1529 | 7377 | 6576 | Sa. 871   | 2 | 5.1   |
| 31755   | Street J        | 3190d  | 1552 | 7513 | 6415 | Sa. 870   | 1 | 3.8   |
| 31762   |                 |        | 1666 | 7247 | 6686 | Sa. 834   | 1 | 2.2   |
| 31764   |                 | (3191) | 1622 | 7423 | 6501 | Sa. 847   | 1 | 2.8   |
| 31765   |                 |        | 1670 | 7541 | 6352 | Sa. 832   | 1 | 2.3   |
| 31770   | Tycho K         | 3186b  | 1740 | 7085 | 6839 | Sa. 817   | 1 | 3.4   |
| 31772   | Street G        | 3190c  | 1780 | 7272 | 6629 | Sa. 806   | 1 | 6.1   |
| #31774  | Street C        | 3198   | 1758 | 7480 | 6400 | Sa. 812   | 4 | 6.9   |
| 31777   |                 |        | 1763 | 7742 | 6078 | Sa. 809   | 1 | 4.0   |
| 31783   |                 |        | 1820 | 7396 | 6480 | Sa. 793   | 1 | 2.8   |
| 31785   |                 |        | 1863 | 7540 | 6300 | Sa. 781   | 1 | 3.4   |
| 31789   | Longomontanus X | 2709a  | 1829 | 7978 | 5746 | Sa. 790   | 1 | 2.9   |
| 31790   | Brown B         | 2711b  | 1969 | 7032 | 6832 | Sa. 750   | 2 | 6.8   |
| 31790A  | Tycho H         | 3186a  | 1921 | 7098 | 6778 | Sa. 767   | 3 | 4.7   |
| 31791   | Brown D         | 2711d  | 1933 | 7197 | 6669 | Sa. 761   | 3 | 11.7  |

| Ref.   | Designation     | B&M   | ξ    | η    | ζ    | Authority | M | Diam. |
|--------|-----------------|-------|------|------|------|-----------|---|-------|
| 31793  | Brown C         | 2711c | 1969 | 7380 | 6455 | Sa. 751   | 2 | 8.5   |
| 31794  | Brown A         | 2711a | 1994 | 7451 | 6364 | Sa. 742   | 4 | 9.2   |
| 31794A | Street F        | 3200a | 1904 | 7457 | 6385 | Sa. 770   | 1 | 4.5   |
| 31795  |                 |       | 1968 | 7523 | 6288 | Sa. 752   | 1 | 3.0   |
| 31798  | Longomontanus E | 2708a | 1932 | 7807 | 5943 | Sa. 762   | 1 | 4.4   |
| 31800  |                 |       | 1003 | 8084 | 5801 | Sa.1039   | 1 | 3.3   |
| 31801  | Clavius MC      | 3251d | 1038 | 8174 | 5667 | Sa.1027   | 4 | 6.7   |
| 31802  | Clavius BA      | 3234a | 1061 | 8251 | 5549 | Sa.1018   | 1 | 4.0   |
| 31807  | Rutherford      | 3233  | 1015 | 8743 | 4747 | Sa.1035   | 2 | 27.8  |
| 31813  | Clavius CB      | 3235b | 1193 | 8393 | 5304 | Sa. 978   | 3 | 5.3   |
| 31815  | Clavius D       | 3236  | 1103 | 8537 | 5090 | Sa.1009   | 5 | 16.4  |
| 31825  | Clavius θ       | 3248a | 1226 | 8554 | 5032 | Sa. 973   | 2 | (P)   |
| 31826  | Clavius T       | 3243  | 1269 | 8693 | 4777 | Sa. 965   | 2 | 5.9   |
| 31826A | Clavius TB      | 3243b | 1237 | 8651 | 4861 | Sa. 970   | 1 | 3.5   |
| 31826B | Clavius DB      | 3236b | 1221 | 8601 | 4953 | Sa. 974   | 1 | 2.8   |
| 31826C |                 |       | 1276 | 8675 | 4808 | Sa. 963   | 1 | 3.0   |
| 31829  | Blancanus D     | 3258  | 1282 | 8925 | 4325 | Sa. 956   | 1 | 14.0  |
| 31832  | Clavius MA      | 3251b | 1397 | 8269 | 5447 | Sa. 915   | 1 | 2.9   |
| 31832A | Clavius MB      | 3251c | 1329 | 8217 | 5542 | Sa. 933   | 1 | 2.8   |
| 31833  | Clavius CA      | 3235a | 1372 | 8398 | 5253 | Sa. 922   | 1 | 3.2   |
| #31834 | Clavius C       | 3235  | 1302 | 8436 | 5210 | Sa. 946   | 5 | 11.8  |
| 31836  | Clavius DA      | 3236a | 1332 | 8668 | 4805 | Sa. 931   | 1 | 3.1   |
| 31840  |                 |       | 1428 | 8007 | 5818 | Sa. 904   | 1 | 2.2   |
| 31844  | Clavius Y       | 3241c | 1467 | 8462 | 5123 | Sa. 893   | 1 | 4.1   |
| 31845  |                 |       | 1473 | 8569 | 4940 | Sa. 891   | 1 | 2.1   |

| Ref.   | Designation     | B&M   | ξ    | η    | ζ    | Authority | M | Diam.            |
|--------|-----------------|-------|------|------|------|-----------|---|------------------|
| 31846  |                 |       | 1494 | 8601 | 4877 | Sa. 885   | 1 | 3.1              |
| *31847 | Clavius TA      | 3243a | 1426 | 8718 | 4686 | Sa. 906   | 2 | (S)3.7<br>(N)2.9 |
| 31848  | Blancanus J     | 3258a | 1434 | 8839 | 4452 | Sa. 903   | 1 | 4.8              |
| 31850  | Clavius R       | 3251a | 1584 | 8007 | 5778 | Sa. 856   | 3 | 4.2              |
| 31852  | Clavius W       | 3241b | 1552 | 8274 | 5397 | Sa. 869   | 1 | 3.2              |
| 31853  | Clavius O       | 3241a | 1553 | 8366 | 5253 | Sa. 868   | 1 | 2.4              |
| 31854  | Clavius N       | 3241  | 1512 | 8417 | 5183 | Sa. 878   | 5 | 7.4              |
| 31854A |                 |       | 1554 | 8479 | 5069 | Sa. 867   | 1 | 2.2              |
| 31854B |                 |       | 1501 | 8494 | 5059 | Sa. 884   | 1 | 2.0              |
| 31855  |                 |       | 1524 | 8566 | 4930 | Sa. 875   | 1 | 3.0              |
| 31855A |                 |       | 1508 | 8536 | 4985 | Sa. 880   | 1 | 2.6              |
| 31855B |                 |       | 1574 | 8516 | 5001 | Sa. 860   | 1 | 2.0              |
| 31856  | Clavius X       | 3238c | 1508 | 8657 | 4773 | Sa. 881   | 2 | 3.8              |
| 31856A |                 |       | 1570 | 8604 | 4849 | Sa. 861   | 1 | 2.8              |
| 31856B |                 |       | 1528 | 8630 | 4816 | Sa. 872   | 1 | 2.3              |
| #31864 | Clavius J       | 3237  | 1633 | 8472 | 5056 | Sa. 842   | 5 | 7.1              |
| 31865  | Clavius JA      | 3237a | 1674 | 8558 | 4895 | Sa. 830   | 3 | 4.7              |
| 31866  | Clavius K       | 3238  | 1665 | 8694 | 4653 | Sa. 835   | 4 | 11.4             |
| 31867  |                 |       | 1680 | 8739 | 4561 | Sa. 828   | 3 | 4.9              |
| 31874  | Clavius JB      | 3237b | 1770 | 8444 | 5056 | Sa. 808   | 1 | 2.6              |
| 31874A |                 |       | 1790 | 8460 | 5023 | Sa. 803   | 1 | 2.2              |
| 31883  | Clavius LA      | 3240b | 1809 | 8307 | 5266 | Sa. 795   | 1 | 5.1              |
| 31885  | Clavius L       | 3240  | 1877 | 8544 | 4845 | Sa. 777   | 2 | 14.0             |
| 31886  | Clavius KA      | 3238b | 1840 | 8667 | 4636 | Sa. 786   | 1 | 4.9              |
| 31890  | Longomontanus C | 2709  | 1939 | 8035 | 5629 | Sa. 760   | 5 | 18.0             |

| Ref.   | Designation   | B&M   | ξ    | η    | ζ    | Authority | M | Diam. |
|--------|---------------|-------|------|------|------|-----------|---|-------|
| 31893  |               |       | 1926 | 8351 | 5153 | Sa. 764   | 1 | 2.6   |
| 31897  | Blancanus K   | 3257c | 1942 | 8711 | 4512 | Sa. 759   | 2 | 7.9   |
| 31899  | Blancanus G   | 3257b | 1915 | 8918 | 4099 | Sa. 768   | 1 | 4.9   |
| 31901  | Gruemberger C | 3263a | 1077 | 9119 | 3960 | Sa.1014   | 2 | 6.6   |
| 31903  |               |       | 1029 | 9335 | 3434 | Sa.1031   | 1 | 3.1   |
| *31908 | Newton E      | 3310a | 1057 | 9839 | 1441 | Fr. 845   | 2 | 9.8   |
| 31913  | Klaproth C    | 3284a | 1188 | 9344 | 3359 | Sa. 981   | 1 | 4.0   |
| 31914  | Klaproth D    | 3285a | 1181 | 9410 | 3170 | Sa. 984   | 1 | 4.4   |
| #31932 | Klaproth A    | 3284  | 1371 | 9277 | 3474 | Sa. 924   | 2 | 17.4  |
| #31946 | Casatus J     | 3295b | 1460 | 9618 | 2314 | Sa. 896   | 1 | 12.4  |
| #31955 | Casatus C     | 3292  | 1524 | 9504 | 2711 | Sa. 874   | 3 | 9.6   |
| 31961  | Blancanus H   | 3255a | 1649 | 9104 | 3796 | Sa. 837   | 1 | 3.9   |
| 31978  | Casatus G     | 3294a | 1795 | 9824 | 0510 | Fr. 839   | 1 | 99.8  |
| 31981  | Blancanus C   | 3257  | 1871 | 9173 | 3516 | Sa. 778   | 3 | 26.4  |
| #31983 | Blancanus B   | 3256  | 1891 | 9314 | 3109 | Sa. 773   | 2 | 17.3  |
| 31990  | Blancanus F   | 3257a | 1929 | 9066 | 3754 | Sa. 763   | 2 | 4.9   |
| 32005  |               |       | 2082 | 0502 | 9768 | Sa. 711   | 1 | 2.0   |
| 32005A |               |       | 2085 | 0570 | 9764 | Ar.       | 1 | 1.6   |
| 32007  | Turner M      | 2923b | 2037 | 0736 | 9763 | Sa. 729   | 1 | 2.0   |
| 32008  |               |       | 2055 | 0826 | 9751 | Ar.       | 1 | 1.3   |
| 32011  |               |       | 2151 | 0173 | 9764 | Sa. 698   | 1 | 1.8   |
| 32011A |               |       | 2132 | 0126 | 9769 | Ar.       | 1 | (P)   |
| 32015  | Turner L      | 2922a | 2173 | 0598 | 9743 | Sa. 687   | 3 | 3.1   |
| 32020  |               |       | 2285 | 0010 | 9736 | Ar.       | 1 | 1.4   |
| #32022 | Turner        | 2922  | 2284 | 0241 | 9733 | Sa. 649   | 5 | 6.8   |

| Ref.   | Designation | B&M   | ξ    | η    | ζ    | Authority | M | Diam. |
|--------|-------------|-------|------|------|------|-----------|---|-------|
| 32024  | Turner H    | 2921a | 2237 | 0491 | 9734 | Sa. 660   | 1 | 2.4   |
| 32036  | Turner K    | 2923a | 2310 | 0673 | 9706 | Sa. 638   | 1 | 2.0   |
| #32042 | Turner F    | 2923  | 2434 | 0281 | 9695 | Sa. 600   | 4 | 4.2   |
| 32044  | Fra Mauro δ | 2907a | 2414 | 0483 | 9692 | Sa. 605   | 2 | (P)   |
| 32045  |             |       | 2436 | 0536 | 9684 | Ar.       | 1 | (P)   |
| 32045A |             |       | 2439 | 0555 | 9682 | Ar.       | 1 | (P)   |
| 32045B |             |       | 2465 | 0569 | 9675 | Ar.       | 1 | (P)   |
| 32045C |             |       | 2477 | 0589 | 9671 | Ar.       | 1 | (P)   |
| 32047  |             |       | 2484 | 0781 | 9655 | Ar.       | 1 | 1.4   |
| 32047A |             |       | 2483 | 0737 | 9659 | Ar.       | 1 | 1.3   |
| 32049  |             |       | 2451 | 0904 | 9653 | Ar.       | 1 | (P)   |
| 32050  | Gambart N   | 1502f | 2573 | 0096 | 9663 | Sa. 550   | 2 | 2.6   |
| 32054  |             |       | 2549 | 0483 | 9658 | Ar.       | 1 | 1.4   |
| 32056  |             |       | 2580 | 0656 | 9639 | Ar.       | 1 | 2.9   |
| 32057  |             |       | 2548 | 0734 | 9642 | Ar.       | 1 | 1.7   |
| 32059  |             |       | 2557 | 0901 | 9625 | Ar.       | 1 | 1.4   |
| 32060  |             |       | 2639 | 0038 | 9645 | Ar.       | 1 | 1.3   |
| 32061  |             |       | 2691 | 0109 | 9631 | Ar.       | 1 | 1.3   |
| 32063A |             |       | 2652 | 0314 | 9637 | Ar.       | 1 | (P)   |
| 32067  |             |       | 2653 | 0700 | 9616 | Sa. 518   | 1 | 3.8   |
| 32067A | Fra Mauro H | 2901b | 2671 | 0724 | 9609 | Sa. 513   | 1 | 3.6   |
| 32070  |             |       | 2741 | 0003 | 9617 | Ar.       | 1 | 1.4   |
| 32070A |             |       | 2718 | 0060 | 9623 | Ar.       | 1 | 1.3   |
| 32073  |             |       | 2793 | 0330 | 9596 | Ar.       | 1 | 1.3   |
| 32074  |             |       | 2782 | 0448 | 9595 | Ar.       | 1 | 2.3   |

| Ref.    | Designation | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M   | Diam. |
|---------|-------------|-------|-------|--------|---------|-----------|-----|-------|
| 32082   |             |       | 2888  | 0230   | 9571    | Sa.       | 431 | 1 2.4 |
| 32083   | Fra Mauro G | 2901a | 2805  | 0387   | 9591    | Sa.       | 464 | 3 3.4 |
| 32083A  |             |       | 2878  | 0352   | 9570    | Sa.       | 433 | 1 1.9 |
| 32084   |             |       | 2882  | 0439   | 9566    | Ar.       |     | 1 3.5 |
| 32086   |             |       | 2891  | 0611   | 9554    | Ar.       |     | 1 1.5 |
| 32087   |             |       | 2866  | 0714   | 9554    | Sa.       | 438 | 1 2.2 |
| 32087A  |             |       | 2884  | 0744   | 9546    | Ar.       |     | 1 1.4 |
| 32089   |             |       | 2828  | 0948   | 9545    | Sa.       | 456 | 1 1.9 |
| 32091A  |             |       | 2919  | 0117   | 9564    | Ar.       |     | 1 1.7 |
| 32093   |             |       | 2918  | 0369   | 9558    | Sa.       | 422 | 1 2.1 |
| 32093A  |             |       | 2938  | 0364   | 9552    | Ar.       |     | 1 1.9 |
| 32099   |             |       | 2979  | 0931   | 9500    | Sa.       | 406 | 1 1.8 |
| 32107   | Guericke E  | 2858a | 2051  | 1737   | 9632    | Sa.       | 723 | 3 2.3 |
| 32111   | Parry C     | 2882  | 2181  | 1192   | 9686    | Sa.       | 683 | 1 1.8 |
| 32125   | Parry B     | 2881  | 2222  | 1551   | 9626    | Sa.       | 663 | 1 (s) |
| 32128   | Guericke J  | 2858c | 2275  | 1844   | 9562    | Sa.       | 652 | 1 4.0 |
| 32153   | Parry F     | 2882b | 2518  | 1332   | 9586    | Sa.       | 571 | 1 2.2 |
| 32174   | Parry E     | 2882a | 2777  | 1458   | 9495    | Sa.       | 474 | 1 3.5 |
| *#32176 | Parry A     | 2880  | 2709  | 1651   | 9483    | Sa.       | 492 | 5 7.7 |
| 32180   | Fra Mauro E | 2900  | 2872  | 1042   | 9522    | Sa.       | 436 | 2 2.2 |
| 32181   | Fra Mauro F | 2900a | 2892  | 1169   | 9501    | Sa.       | 429 | 2 1.7 |
| 32197   | Bonpland C  | 2873  | 2952  | 1771   | 9389    | Sa.       | 413 | 2 2.1 |
| 32199   | Guericke A  | 2854  | 2908  | 1929   | 9372    | Sa.       | 427 | 3 2.8 |
| 32209   | Lassell F   | 3023  | 2057  | 2943   | 9333    | Sa.       | 720 | 3 3.0 |
| *32214  | Guericke L  | 2855b | 2149  | 2447   | 9455    | Sa.       | 700 | 1 (P) |

| Ref.   | Designation      | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M   | Diam. |
|--------|------------------|-------|-------|--------|---------|-----------|-----|-------|
| 32226  | Guericke K       | 2858d | 2217  | 2609   | 9396    | Sa.       | 667 | 1 1.9 |
| #32240 | Guericke D       | 2858  | 2463  | 2074   | 9467    | Sa.       | 588 | 4 4.4 |
| 32241  | Guericke H       | 2858b | 2404  | 2152   | 9465    | Sa.       | 609 | 3 3.3 |
| 32245  |                  |       | 2445  | 2595   | 9343    | Sa.       | 597 | 1 2.0 |
| 32254  | Guericke G       | 2855a | 2508  | 2416   | 9374    | Sa.       | 574 | 2 2.9 |
| #32255 | Guericke B       | 2855  | 2549  | 2514   | 9337    | Sa.       | 562 | 4 9.0 |
| 32283  | Opelt K          | 2839  | 2849  | 2350   | 9293    | Sa.       | 447 | 2 2.7 |
| 32287  |                  |       | 2859  | 2722   | 9188    | Sa.       | 441 | 1 1.6 |
| 32288  |                  |       | 2835  | 2894   | 9143    | Sa.       | 452 | 1 2.2 |
| #32299 | Opelt E          | 2818  | 2932  | 2927   | 9102    | Sa.       | 417 | 4 4.6 |
| #32307 | Nicollet         | 3055  | 2000  | 3731   | 9060    | Sa.       | 741 | 5 8.8 |
| 32307A |                  |       | 2088  | 3739   | 9037    | Ar.       |     | 1 (P) |
| 32314  | Nicollet B       | 3057  | 2194  | 3437   | 9131    | Sa.       | 677 | 1 2.7 |
| 32314A | Nicollet $\beta$ | 3056  | 2182  | 3497   | 9111    | Sa.       | 682 | 1 (P) |
| 32337  |                  |       | 2386  | 3742   | 8961    | Ar.       |     | 1 1.5 |
| 32359  |                  |       | 2501  | 3916   | 8855    | Ar.       |     | 1 (P) |
| 32359A |                  |       | 2519  | 3987   | 8818    | Ar.       |     | 1 (P) |
| 32367  |                  |       | 2675  | 3747   | 8877    | Ar.       |     | 1 1.4 |
| 32369  |                  |       | 2618  | 3905   | 8826    | Ar.       |     | 1 1.4 |
| 32372  | Gould A          | 2819c | 2758  | 3287   | 9033    | Sa.       | 478 | 1 2.0 |
| 32372A | Gould P          | 2819b | 2701  | 3224   | 9073    | Sa.       | 494 | 4 4.5 |
| 32375  |                  |       | 2710  | 3561   | 8943    | Sa.       | 491 | 1 1.5 |
| 32379  |                  |       | 2708  | 3939   | 8784    | Ar.       |     | 1 1.4 |
| 32389  |                  |       | 2885  | 3944   | 8725    | Ar.       |     | 1 1.3 |
| 32395  | Gould B          | 2819d | 2962  | 3501   | 8887    | Sa.       | 409 | 1 2.0 |
| 32397  | Wolf A           | 3058a | 2924  | 3785   | 8782    | Sa.       | 420 | 4 3.5 |

| Ref.   | Designation   | B&M   | ξ    | η    | ζ    | Authority          | M | Diam. |
|--------|---------------|-------|------|------|------|--------------------|---|-------|
| 32404  | Pitatus J     | 2792a | 2091 | 4459 | 8703 | Sa. 708            | 3 | 2.8   |
| 32415  |               |       | 2153 | 4592 | 8619 | Ar.                | 1 | 6.9   |
| 32420  |               |       | 2284 | 4078 | 8841 | Sa. 650            | 1 | 1.5   |
| 32436  | Hesiodus E    | 2779a | 2332 | 4673 | 8528 | Sa. 630            | 2 | 1.9   |
| 32436A |               |       | 2314 | 4607 | 8569 | Ar.                | 1 | (P)   |
| 32445  |               |       | 2423 | 4559 | 8564 | Ar.                | 1 | (P)   |
| *32446 |               |       | 2412 | 4607 | 8542 | Ar.                | 1 | (P)   |
| 32448  | Hesiodus D    | 2780a | 2454 | 4897 | 8366 | Sa. 594            | 4 | 2.8   |
| 32450  |               |       | 2568 | 4051 | 8774 | {Sa. 554<br>Ar. 1} | 1 | 1.2   |
| 32454  |               |       | 2531 | 4497 | 8566 | Ar.                | 1 | (P)   |
| 32456  |               |       | 2569 | 4615 | 8491 | Ar.                | 1 | 2.4   |
| 32456A |               |       | 2530 | 4649 | 8484 | Ar.                | 1 | 1.8   |
| 32460  |               |       | 2612 | 4012 | 8780 | Ar.                | 1 | (P)   |
| #32465 | Hesiodus B    | 2778  | 2673 | 4556 | 8491 | Sa. 512            | 5 | 5.9   |
| 32481  |               |       | 2810 | 4180 | 8639 | Ar.                | 1 | 1.3   |
| 32482  | Kies D        | 2806  | 2874 | 4208 | 8604 | Sa. 434            | 4 | 3.5   |
| 32486  |               |       | 2865 | 4670 | 8365 | Ar.                | 1 | 1.6   |
| 32498  |               |       | 2917 | 4804 | 8272 | Sa. 424            | 1 | 2.1   |
| 32504  | Gauricus K    | 2744a | 2009 | 5493 | 8111 | Sa. 738            | 2 | 3.0   |
| 32505  |               |       | 2053 | 5519 | 8083 | Sa. 721            | 1 | 1.9   |
| 32507  | Wurzelbauer P | 2755a | 2010 | 5753 | 7929 | Sa. 736            | 1 | 4.9   |
| 32508  | Wurzelbauer O | 2754a | 2043 | 5861 | 7841 | Sa. 726            | 2 | 5.0   |
| 32513  | Wurzelbauer N | 2752e | 2162 | 5380 | 8148 | Sa. 691            | 2 | 6.7   |
| 32514  |               |       | 2199 | 5407 | 8120 | Sa. 675            | 3 | 4.6   |
| 32517  | Wurzelbauer C | 2756b | 2124 | 5740 | 7909 | Sa. 702            | 2 | 5.9   |

| Ref.    | Designation   | B&M   | ξ    | η    | ζ    | Authority | M | Diam. |
|---------|---------------|-------|------|------|------|-----------|---|-------|
| *#32518 | Wurzelbauer A | 2754  | 2151 | 5840 | 7827 | Sa. 699   | 4 | 8.8   |
| 32530   | Pitatus H     | 2792  | 2325 | 5085 | 8291 | Sa. 631   | 2 | 8.7   |
| 32533   | Wurzelbauer M | 2752d | 2332 | 5310 | 8147 | Sa. 629   | 1 | 2.7   |
| 32533A  |               |       | 2369 | 5321 | 8129 | Sa. 617   | 1 | 2.7   |
| 32537   |               |       | 2337 | 5797 | 7806 | Sa. 628   | 1 | 2.9   |
| 32537A  |               |       | 2303 | 5716 | 7876 | Sa. 641   | 1 | 2.1   |
| 32546   |               |       | 2484 | 5634 | 7880 | Sa. 581   | 1 | 3.3   |
| 32547   | Wurzelbauer H | 2752b | 2415 | 5778 | 7797 | Sa. 604   | 2 | 4.0   |
| 32548   | Wurzelbauer E | 2756a | 2401 | 5832 | 7760 | Sa. 610   | 4 | 6.5   |
| 32549   | Wurzelbauer D | 2756  | 2434 | 5924 | 7680 | Sa. 599   | 1 | 21.6  |
| #32550  | Hesiodus A    | 2777  | 2531 | 5013 | 8275 | Sa. 568   | 4 | 8.6   |
| 32557   | Wurzelbauer L | 2752c | 2514 | 5714 | 7813 | Sa. 572   | 2 | 4.1   |
| 32557A  |               |       | 2537 | 5753 | 7776 | Sa. 566   | 1 | 3.5   |
| 32558   | Wurzelbauer F | 2756c | 2524 | 5865 | 7697 | Sa. 569   | 2 | 5.0   |
| 32566   | Wurzelbauer G | 2752a | 2622 | 5677 | 7804 | Sa. 531   | 3 | 6.0   |
| 32570   | Weiss A       | 2766a | 2746 | 5087 | 8160 | Sa. 483   | 1 | 2.4   |
| #32574  | Cichus B      | 2762  | 2767 | 5471 | 7900 | Sa. 475   | 3 | 8.2   |
| 32577   |               |       | 2783 | 5718 | 7718 | Sa. 472   | 1 | 2.0   |
| 32579   | Cichus K      | 2760a | 2742 | 5960 | 7547 | Sa. 485   | 4 | 3.9   |
| 32581   | Weiss E       | 2766  | 2811 | 5164 | 8089 | Sa. 462   | 4 | 9.6   |
| #32590  | Weiss D       | 2765  | 2991 | 5098 | 8066 | Sa. 400   | 4 | 4.9   |
| 32599   |               |       | 2917 | 5909 | 7522 | Sa. 423   | 1 | 2.3   |
| 32600   | Heinsius N    | 3190a | 2018 | 6059 | 7695 | Sa. 733   | 1 | 4.0   |
| 32607   |               |       | 2084 | 6719 | 7107 | Sa. 710   | 1 | 1.9   |
| 32611   |               |       | 2168 | 6178 | 7559 | Sa. 689   | 1 | 2.5   |

| Ref.   | Designation | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam. |
|--------|-------------|-------|-------|--------|---------|-----------|---|-------|
| #32618 | Wilhelm O   | 2726a | 2156  | 6837   | 6972    | Sa. 695   | 5 | 10.0  |
| 32621  |             |       | 2262  | 6174   | 7534    | Sa. 656   | 1 | 2.8   |
| 32621A |             |       | 2202  | 6123   | 7594    | Sa. 672   | 1 | 2.0   |
| 32625  |             |       | 2256  | 6538   | 7223    | Sa. 658   | 1 | 3.4   |
| 32626  | Wilhelm D   | 2725  | 2272  | 6673   | 7093    | Sa. 653   | 2 | 18.3  |
| 32627  |             |       | 2271  | 6753   | 7017    | Sa. 654   | 1 | 4.0   |
| #32629 | Wilhelm E   | 2726  | 2210  | 6969   | 6823    | Sa. 671   | 4 | 8.0   |
| 32629A | Wilhelm N   | 2732e | 2294  | 6918   | 6846    | Sa. 644   | 3 | 4.0   |
| #32633 | Heinsius A  | 2738  | 2315  | 6385   | 7340    | Sa. 636   | 5 | 11.5  |
| 32635  | Heinsius L  | 2740f | 2372  | 6588   | 7139    | Sa. 615   | 1 | 4.6   |
| 32638  | Wilhelm Q   | 2732d | 2300  | 6844   | 6919    | Sa. 642   | 3 | 4.0   |
| 32642  | Heinsius K  | 2740e | 2483  | 6226   | 7421    | Sa. 582   | 1 | 2.8   |
| 32650  | Heinsius H  | 2740d | 2519  | 6084   | 7526    | Sa. 570   | 3 | 4.0   |
| 32651  |             |       | 2574  | 6143   | 7459    | Sa. 549   | 1 | 2.8   |
| 32654  | Heinsius F  | 2740c | 2559  | 6495   | 7160    | Sa. 557   | 2 | 4.0   |
| 32654A |             |       | 2592  | 6440   | 7198    | Sa. 545   | 1 | 2.9   |
| #32656 | Wilhelm C   | 2724  | 2503  | 6637   | 7049    | Sa. 576   | 3 | 9.3   |
| 32657  | Wilhelm W   | 2727b | 2552  | 6755   | 6918    | Sa. 559   | 2 | 3.0   |
| 32657A |             |       | 2571  | 6726   | 6939    | Sa. 552   | 2 | 3.0   |
| 32660  |             |       | 2679  | 6019   | 7523    | Sa. 507   | 1 | 2.7   |
| 32661  | Heinsius E  | 2740b | 2638  | 6133   | 7445    | Sa. 524   | 2 | 9.8   |
| 32663  |             |       | 2696  | 6331   | 7256    | Sa. 497   | 4 | 5.0   |
| 32664  |             |       | 2699  | 6450   | 7150    | Sa. 496   | 1 | 3.0   |
| 32664A |             |       | 2613  | 6491   | 7144    | Sa. 537   | 1 | 2.6   |
| 32665  | Wilhelm T   | 2724a | 2683  | 6593   | 7024    | Sa. 504   | 1 | 4.0   |

| Ref.   | Designation            | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M | Diam. |
|--------|------------------------|-------|-------|--------|---------|-----------|---|-------|
| 32666  | Wilhelm U              | 2725a | 2622  | 6614   | 7027    | Sa. 532   | 1 | 3.1   |
| 32672  | Heinsius D             | 2740a | 2751  | 6265   | 7293    | Sa. 481   | 2 | 3.9   |
| 32676  | Wilhelm R              | 2732b | 2798  | 6601   | 6971    | Sa. 469   | 1 | 4.1   |
| 32676A | Wilhelm S              | 2732c | 2759  | 6658   | 6932    | Sa. 477   | 2 | 5.7   |
| 32687  |                        |       | 2899  | 6741   | 6794    | Sa. 428   | 3 | 5.0   |
| #32688 | Wilhelm B              | 2723  | 2804  | 6882   | 6692    | Sa. 466   | 4 | 9.0   |
| 32693  | Haidinger G            | 2556a | 2958  | 6370   | 7119    | Sa. 411   | 1 | 6.2   |
| 32700  |                        |       | 2015  | 7044   | 6806    | Sa. 735   | 1 | 3.3   |
| 32701  |                        |       | 2094  | 7171   | 6648    | Sa. 707   | 1 | 3.5   |
| 32701A |                        |       | 2026  | 7130   | 6713    | Sa. 730   | 1 | 2.9   |
| 32703  |                        |       | 2073  | 7397   | 6402    | Sa. 718   | 1 | 2.8   |
| #32705 | Longomontanus G        | 2716b | 2087  | 7509   | 6266    | Sa. 709   | 4 | 8.4   |
| 32708  |                        |       | 2052  | 7854   | 5840    | Sa. 722   | 1 | 4.7   |
| 32710  |                        |       | 2195  | 7044   | 6750    | Sa. 676   | 1 | 3.8   |
| 32711  |                        |       | 2161  | 7110   | 6692    | Sa. 692   | 1 | 3.0   |
| 32713  |                        |       | 2153  | 7304   | 6482    | Sa. 697   | 1 | 3.5   |
| 32718  | Longomontanus Q        | 2708b | 2158  | 7885   | 5760    | Sa. 694   | 2 | 6.2   |
| 32726  | Longomontanus $\kappa$ | 2720b | 2286  | 7608   | 6074    | Sa. 648   | 1 | (P)   |
| 32728  |                        |       | 2220  | 7872   | 5754    | Sa. 665   | 1 | 2.8   |
| 32738  | Longomontanus U        | 2707a | 2307  | 7875   | 5715    | Sa. 640   | 1 | 4.0   |
| 32740  | Wilhelm Z              | 2727c | 2461  | 7047   | 6654    | Sa. 589   | 2 | 4.5   |
| 32743  | Longomontanus W        | 2716g | 2471  | 7326   | 6342    | Sa. 584   | 1 | 5.6   |
| 32745  | Longomontanus $\eta$   | 2720a | 2465  | 7566   | 6057    | Sa. 586   | 1 | (P)   |
| 32746  |                        |       | 2448  | 7680   | 5919    | Sa. 595   | 1 | 1.9   |
| 32748  |                        |       | 2433  | 7883   | 5651    | Sa. 601   | 2 | 4.1   |

| Ref.    | Designation     | B&M   | ξ    | η    | ζ    | Authority | M | Diam. |
|---------|-----------------|-------|------|------|------|-----------|---|-------|
| 32749   | Longomontanus A | 2707  | 2457 | 7980 | 5503 | Sa. 591   | 5 | 16.9  |
| 32752   |                 |       | 2575 | 7273 | 6362 | Sa. 548   | 1 | 2.2   |
| #32760  | Wilhelm A       | 2722  | 2666 | 7032 | 6592 | Sa. 516   | 4 | 11.4  |
| 32761   | Montanari D     | 2730  | 2623 | 7177 | 6450 | Sa. 528   | 1 | 12.6  |
| 32762   | Longomontanus T | 2716f | 2640 | 7290 | 6316 | Sa. 522   | 1 | 3.0   |
| 32763   | Longomontanus S | 2716e | 2677 | 7355 | 6224 | Sa. 508   | 1 | 6.7   |
| 32764   | Longomontanus M | 2716a | 2600 | 7484 | 6102 | Sa. 541   | 3 | 5.9   |
| 32765   | Longomontanus L | 2716  | 2620 | 7539 | 6025 | Sa. 534   | 4 | 9.2   |
| 32769   | Longomontanus R | 2716d | 2693 | 7921 | 5478 | Sa. 498   | 2 | 4.3   |
| 32777   | Longomontanus N | 2716c | 2745 | 7760 | 5679 | Sa. 484   | 2 | 6.7   |
| 32784   |                 |       | 2849 | 7443 | 6040 | Sa. 446   | 2 | 4.0   |
| 32790   | Lagalla P       | 2727a | 2909 | 7093 | 6421 | Sa. 425   | 4 | 6.2   |
| 32792   | Lagalla M       | 2732a | 2978 | 7270 | 6187 | Sa. 407   | 1 | 3.6   |
| 32803   |                 |       | 2022 | 8322 | 5162 | Sa. 731   | 1 | 2.2   |
| 32812   | Clavius F       | 3240a | 2124 | 8229 | 5271 | Sa. 703   | 2 | 4.2   |
| *#32818 | Scheiner G      | 2699a | 2183 | 8875 | 4059 | Sa. 681   | 3 | 7.8   |
| 32833   | Scheiner F      | 2697  | 2322 | 8364 | 4965 | Sa. 632   | 1 | 3.5   |
| 32834   | Scheiner K      | 2697a | 2320 | 8475 | 4774 | Sa. 635   | 1 | 4.2   |
| *#32836 | Scheiner A      | 2694  | 2322 | 8680 | 4389 | Sa. 633   | 3 | 7.0   |
| 32836A  |                 |       | 2360 | 8605 | 4515 | Sa. 620   | 2 | 6.3   |
| *32846  | Scheiner J      | 2696b | 2411 | 8615 | 4469 | Sa. 608   | 2 | 6.5   |
| 32853   | Scheiner H      | 2696a | 2545 | 8313 | 4942 | Sa. 563   | 2 | 5.1   |
| 32856   | Scheiner C      | 2696  | 2550 | 8662 | 4298 | Sa. 560   | 1 | 7.5   |
| 32892   | Rost M          | 2623  | 2950 | 8237 | 4843 | Sa. 414   | 3 | 15.0  |
| 32914   | Wilson F        | 2669a | 2125 | 9417 | 2609 | Sa. 701   | 1 | 7.5   |

| Ref.   | Designation | B&M   | ξ    | η    | ζ    | Authority | M | Diam. |
|--------|-------------|-------|------|------|------|-----------|---|-------|
| #32916 | Le Gentil A | 2666  | 2104 | 9651 | 1562 | Sa. 706   | 2 | 18.8  |
| 32921  | Scheiner M  | 2698b | 2257 | 9107 | 3459 | Sa. 657   | 1 | 5.5   |
| #32925 | Wilson C    | 2669  | 2200 | 9507 | 2188 | Sa. 674   | 1 | 14.7  |
| 32931  | Kircher C   | 2679a | 2392 | 9184 | 3153 | Sa. 612   | 1 | 6.4   |
| 32931A | Scheiner L  | 2698a | 2350 | 9118 | 3368 | Sa. 623   | 1 | 5.2   |
| 32945  | Wilson E    | 2671  | 2458 | 9541 | 1711 | Fr.1050   | 2 | 14.0  |
| 32954  | Wilson A    | 2668  | 2583 | 9473 | 1896 | Fr.1051   | 3 | 8.9   |
| 32965  | Le Gentil G | 2666a | 2671 | 9508 | 1568 | Fr.1052   | 2 | 9.8   |
| 32973  | Kircher E   | 2677a | 2739 | 9340 | 2294 | Fr. 957   | 2 | 11.5  |
| #32980 | Kircher B   | 2677  | 2879 | 9065 | 3088 | Sa. 432   | 2 | 6.7   |
| 32990  |             |       | 2961 | 9036 | 3095 | Sa. 410   | 1 | 4.5   |
| *32993 | Bailly O    | 2652a | 2907 | 9377 | 1904 | Fr. 813   | 2 | 9.3   |
| 33008  | Fra Mauro D | 2901  | 3009 | 0838 | 9500 | Sa. 397   | 3 | 2.7   |
| 33014  |             |       | 3186 | 0457 | 9468 | Sa. 355   | 1 | 2.0   |
| 33020  |             |       | 3216 | 0091 | 9468 | Sa. 349   | 1 | 1.9   |
| 33033  |             |       | 3311 | 0359 | 9429 | Sa. 326   | 1 | 1.5   |
| 33049  | Fra Mauro τ | 2915e | 3486 | 0912 | 9328 | Sa. 290   | 1 | (P)   |
| 33052  |             |       | 3527 | 0238 | 9354 | Sa. 279   | 1 | (P)   |
| 33053  |             |       | 3593 | 0353 | 9326 | Sa. 258   | 1 | 1.8   |
| 33054  | Fra Mauro υ | 2915c | 3551 | 0432 | 9338 | Sa. 274   | 1 | (P)   |
| 33056  | Fra Mauro λ | 2915a | 3574 | 0665 | 9316 | Sa. 264   | 1 | (P)   |
| #33059 | Fra Mauro A | 2898  | 3556 | 0952 | 9298 | Sa. 273   | 5 | 5.7   |
| 33067  | Fra Mauro B | 2899  | 3680 | 0700 | 9272 | Sa. 243   | 3 | 4.0   |
| 33069  | Fra Mauro C | 2898a | 3671 | 0947 | 9254 | Sa. 248   | 2 | 3.9   |
| 33079  |             |       | 3761 | 0958 | 9216 | Sa. 233   | 1 | 1.9   |



| Ref.    | Designation  | B&M   | ξ    | η    | ζ    | Authority | M | Diam. |
|---------|--------------|-------|------|------|------|-----------|---|-------|
| 33107   | Bonpland D   | 2874  | 3080 | 1761 | 9349 | Sa. 382   | 4 | 3.2   |
| 33122   | Bonpland F   | 2874b | 3282 | 1274 | 9360 | Sa. 333   | 1 | 2.3   |
| 33139   |              |       | 3339 | 1969 | 9218 | Sa. 321   | 1 | 2.1   |
| 33146   | Bonpland γ   | 2877  | 3464 | 1653 | 9234 | Sa. 297   | 1 | (P)   |
| 33150   | Fra Mauro o  | 2915d | 3509 | 1014 | 9309 | Sa. 284   | 1 | (P)   |
| *33154  | Fra Mauro μ  | 2915b | 3574 | 1430 | 9230 | Sa. 265   | 1 | (P)   |
| *33154A | Fra Mauro μ  | 2915b | 3564 | 1431 | 9233 | Sa. 270   | 1 | (P)   |
| 33176   | Bonpland E   | 2874a | 3789 | 1695 | 9098 | Sa. 229   | 4 | 3.9   |
| 33210   | Bonpland G   | 2874c | 3149 | 2008 | 9276 | Sa. 364   | 2 | 2.1   |
| 33214   |              |       | 3184 | 2499 | 9144 | Sa. 356   | 1 | 1.4   |
| 33236   | Lubiniezky G | 2836  | 3332 | 2644 | 9050 | Sa. 323   | 1 | 2.1   |
| 33249   | Lubiniezky H | 2837  | 3450 | 2918 | 8921 | Sa. 300   | 2 | 2.5   |
| #33254  | Darney J     | 2838  | 3534 | 2475 | 9021 | Sa. 276   | 3 | 3.7   |
| 33283   | Darney α     | 2838a | 3865 | 2307 | 8930 | Sa. 216   | 1 | (P)   |
| #33285  | Darney       | 2831  | 3861 | 2517 | 8874 | Sa. 217   | 4 | 8.8   |
| #33288  | Lubiniezky D | 2833  | 3810 | 2839 | 8799 | Sa. 224   | 4 | 4.1   |
| 33301   | Opelt F      | 2839a | 3052 | 3101 | 9004 | Sa. 388   | 1 | 2.6   |
| 33308   | Bullialdus H | 2815c | 3048 | 3859 | 8707 | Sa. 389   | 1 | 2.7   |
| 33311   |              |       | 3104 | 3182 | 8958 | Sa. 376   | 1 | 2.0   |
| 33338   |              |       | 3301 | 3807 | 8638 | Sa. 328   | 1 | 1.8   |
| 33349   | Bullialdus B | 2815  | 3422 | 3975 | 8514 | Sa. 305   | 2 | 12.0  |
| #33351  | Lubiniezky F | 2835  | 3523 | 3141 | 8816 | Sa. 281   | 4 | 4.3   |
| 33369   | Bullialdus G | 2815b | 3680 | 3944 | 8421 | Sa. 245   | 1 | 2.3   |
| 33376   | Bullialdus E | 2815a | 3773 | 3697 | 8491 | Sa. 231   | 1 | 2.2   |
| 33388   | Bullialdus F | 2819  | 3878 | 3820 | 8389 | Sa. 215   | 3 | 3.7   |

| Ref.   | Designation | B&M   | ξ    | η    | ζ    | Authority | M | Diam. |
|--------|-------------|-------|------|------|------|-----------|---|-------|
| 33403  |             |       | 3058 | 4359 | 8465 | Ar.       | 1 | 1.5   |
| #33428 | Kies B      | 2804  | 3264 | 4807 | 8139 | Sa. 341   | 4 | 5.6   |
| #33437 | Kies A      | 2803  | 3396 | 4741 | 8123 | Sa. 308   | 4 | 9.5   |
| 33438  | Kies E      | 2806a | 3393 | 4807 | 8086 | Sa. 310   | 4 | 3.7   |
| 33470  | König       | 2816  | 3798 | 4095 | 8295 | Sa. 226   | 2 | 12.8  |
| 33478  | Mercator B  | 2538  | 3708 | 4869 | 7908 | Sa. 239   | 1 | 4.6   |
| 33493  | Kies C      | 2805  | 3952 | 4386 | 8072 | Sa. 210   | 1 | 2.8   |
| 33503  | Cichus J    | 2768  | 3080 | 5301 | 7900 | Sa. 383   | 1 | 7.4   |
| #33505 | Cichus C    | 2763  | 3097 | 5528 | 7736 | Sa. 379   | 4 | 6.4   |
| 33507  | Cichus A    | 2761  | 3001 | 5707 | 7644 | Sa. 398   | 4 | 11.0  |
| 33510  | Cichus N    | 2769  | 3179 | 5080 | 8006 | Sa. 359   | 3 | 4.6   |
| 33518  | Cichus F    | 2764a | 3100 | 5832 | 7508 | Sa. 378   | 1 | 4.4   |
| 33524  | Cichus H    | 2763a | 3207 | 5412 | 7774 | Sa. 352   | 4 | 4.1   |
| 33547  | Capuanus C  | 2554a | 3497 | 5716 | 7423 | Sa. 287   | 1 | 6.0   |
| 33549  |             |       | 3498 | 5999 | 7196 | Sa. 286   | 1 | 2.1   |
| #33556 | Capuanus A  | 2554  | 3556 | 5690 | 7415 | Sa. 272   | 4 | 7.7   |
| 33563  |             |       | 3657 | 5301 | 7650 | Sa. 249   | 1 | (P)   |
| 33582  |             |       | 3803 | 5286 | 7589 | Sa. 225   | 1 | (P)   |
| 33586  | Capuanus B  | 2555  | 3836 | 5640 | 7313 | Sa. 220   | 2 | 6.4   |
| #33621 | Haidinger J | 2559a | 3252 | 6147 | 7186 | Sa. 344   | 4 | 8.6   |
| 33622  | Haidinger A | 2560a | 3246 | 6245 | 7103 | Sa. 346   | 2 | 5.2   |
| 33623  | Haidinger   | 2560  | 3282 | 6314 | 7026 | Sa. 332   | 2 | 12.1  |
| 33623A | Haidinger B | 2560b | 3200 | 6323 | 7056 | Sa. 354   | 4 | 5.9   |
| 33640  | Capuanus M  | 2558e | 3427 | 6081 | 7161 | Sa. 303   | 3 | 3.7   |
| 33642  | Capuanus L  | 2558d | 3483 | 6201 | 7030 | Sa. 291   | 4 | 6.4   |

| Ref.    | Designation  | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M   | Diam.  |
|---------|--------------|-------|-------|--------|---------|-----------|-----|--------|
| 33650   | Capuanus F   | 2558a | 3582  | 6008   | 7147    | Sa.       | 260 | 2 3.7  |
| 33651   | Capuanus K   | 2558c | 3520  | 6142   | 7063    | Sa.       | 282 | 1 4.9  |
| 33653   | Capuanus H   | 2558b | 3530  | 6341   | 6881    | Sa.       | 277 | 1 2.5  |
| 33660   | Capuanus E   | 2558  | 3611  | 6089   | 7063    | Sa.       | 256 | 1 16.7 |
| 33666   | Epimenides B | 2587b | 3604  | 6640   | 6552    | Sa.       | 257 | 1 5.9  |
| •#33668 | Hainzel A    | 2589  | 3651  | 6845   | 6310    | Sa.       | 250 | 3 8.6  |
| 33703   |              |       | 3027  | 7353   | 6064    | Sa.       | 395 | 2 4.0  |
| 33705   |              |       | 3062  | 7522   | 5835    | Sa.       | 387 | 1 (P)  |
| #33710  | Lagalla N    | 2585  | 3106  | 7062   | 6363    | Sa.       | 374 | 2 6.7  |
| 33715   | Bayer B      | 2606  | 3105  | 7523   | 5810    | Sa.       | 375 | 2 10.3 |
| 33718   | Bayer A      | 2604a | 3156  | 7804   | 5398    | Sa.       | 363 | 3 10.1 |
| 33719   | Bayer F      | 2609a | 3149  | 7980   | 5138    | Sa.       | 365 | 2 11.3 |
| 33724   | Bayer N      | 2608a | 3251  | 7464   | 5807    | Sa.       | 345 | 2 5.1  |
| 33727   | Bayer M      | 2605a | 3273  | 7732   | 5432    | Sa.       | 336 | 2 5.6  |
| #33731  | Hainzel F    | 2592c | 3373  | 7102   | 6180    | Sa.       | 317 | 4 7.2  |
| 33731A  | Hainzel M    | 2592b | 3390  | 7172   | 6088    | Sa.       | 312 | 1 4.3  |
| 33734   | Bayer D      | 2608  | 3325  | 7420   | 5822    | Sa.       | 324 | 2 11.6 |
| 33741   | Hainzel P    | 2592d | 3472  | 7185   | 6027    | Sa.       | 292 | 3 8.1  |
| #33756  | Bayer K      | 2614  | 3571  | 7688   | 5305    | Sa.       | 268 | 3 8.9  |
| 33758   | Bayer        | 2604  | 3568  | 7829   | 5096    | Sa.       | 269 | 1 27.2 |
| 33760   | Hainzel E    | 2592  | 3675  | 7015   | 6107    | Sa.       | 247 | 3 8.6  |
| #33773  | Bayer L      | 2614a | 3738  | 7371   | 5630    | Sa.       | 236 | 2 7.8  |
| 33781   | Hainzel D    | 2592a | 3819  | 7120   | 5892    | Sa.       | 223 | 1 5.3  |
| 33803   | Rost         | 2619  | 3066  | 8329   | 4607    | Sa.       | 386 | 4 28.0 |
| •#33815 | Weigel A     | 2627  | 3180  | 8530   | 4138    | Sa.       | 358 | 2 8.9  |

| Ref.   | Designation       | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M    | Diam.  |
|--------|-------------------|-------|-------|--------|---------|-----------|------|--------|
| 33819  | Bettinus          | 2682  | 3157  | 8947   | 3161    | Sa.       | 362  | 1 41.1 |
| 33819A | Bettinus $\gamma$ | 2688  | 3174  | 8929   | 3195    | Fr.       | 829  | 2 (CP) |
| 33836  | Weigel C          | 2629  | 3379  | 8612   | 3798    | Sa.       | 315  | 1 5.7  |
| *33850 | Schiller (S.end)  | 2597  | 3523  | 8075   | 4732    | Fr.       | 1022 | 2 ---  |
| 33867  | Zucchius F        | 2640a | 3685  | 8764   | 3101    | Fr.       | 1054 | 2 5.1  |
| 33885  | Segner            | 2633  | 3863  | 8565   | 3423    | Fr.       | 1024 | 2 38.6 |
| 33898  | Zucchius A        | 2641  | 3918  | 8815   | 2636    | Fr.       | 1055 | 2 15.9 |
| 33899  | Bailly H          | 2653a | 3943  | 8952   | 2079    | Fr.       | 816  | 2 9.3  |
| 33900  | Bettinus D        | 2684a | 3062  | 9063   | 2912    | Fr.       | 831  | 2 5.4  |
| 33903  | Bailly A          | 2649  | 3049  | 9347   | 1828    | Fr.       | 809  | 2 22.0 |
| 33910  | Bettinus A        | 2683  | 3194  | 9056   | 2791    | Fr.       | 830  | 2 15.0 |
| 33923  | Bailly B          | 2650  | 3232  | 9316   | 1664    | Fr.       | 810  | 2 37.4 |
| 33951  | Bailly G          | 2650b | 3544  | 9109   | 2114    | Fr.       | 815  | 2 10.1 |
| 33952  | Bailly F          | 2650a | 3579  | 9235   | 1383    | Fr.       | 812  | 4 8.9  |
| 33990  | Bailly D          | 2652  | 3981  | 9077   | 1328    | Fr.       | 817  | 2 13.1 |
| 34011  | Lansberg $\beta$  | 2479b | 4127  | 0194   | 9107    | Sa.       | 201  | 1 (P)  |
| 34017  | Euclides K        | 2464c | 4163  | 0735   | 9063    | Sa.       | 194  | 3 3.5  |
| 34040  | Lansberg          | 2480  | 4476  | 0058   | 8942    | Sa.       | 147  | 3 23.0 |
| 34043  |                   |       | 4443  | 0331   | 8953    | Sa.       | 152  | 1 2.1  |
| #34074 | Lansberg B        | 2482  | 4704  | 0433   | 8814    | Sa.       | 127  | 3 5.7  |
| 34082  | Lansberg C        | 2484  | 4873  | 0256   | 8729    | Sa.       | 118  | 2 11.4 |
| 34100  | Lansberg $\gamma$ | 2479c | 4072  | 1075   | 9070    | Sa.       | 206  | 1 (P)  |
| 34121  | Euclides E        | 2464a | 4212  | 1104   | 9002    | Sa.       | 187  | 1 2.3  |
| 34126  | Euclides D        | 2464  | 4285  | 1629   | 8887    | Sa.       | 172  | 3 3.9  |
| 34168  | Euclides M        | 2464d | 4640  | 1812   | 8671    | Sa.       | 134  | 2 3.5  |

| Ref.    | Designation      | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M   | Diam.  |
|---------|------------------|-------|-------|--------|---------|-----------|-----|--------|
| #34182  | Euclides         | 2461  | 4883  | 1285   | 8632    | Sa.       | 113 | 3 7.5  |
| 34188   | Euclides $\circ$ | 2476a | 4866  | 1827   | 8543    | Sa.       | 120 | 1 (P)  |
| 34211   | Darney E         | 2832b | 4187  | 2149   | 8824    | Sa.       | 192 | 1 2.6  |
| *#34224 | Darney C         | 2832  | 4249  | 2439   | 8718    | Sa.       | 179 | 4 7.7  |
| 34225   |                  |       | 4203  | 2506   | 8721    | Sa.       | 189 | 1 (P)  |
| 34233   |                  |       | 4324  | 2301   | 8718    | Sa.       | 168 | 1 2.0  |
| 34235   | Darney D         | 2832a | 4393  | 2503   | 8628    | Sa.       | 156 | 3 3.2  |
| #34282  | Euclides C       | 2463  | 4866  | 2296   | 8429    | Sa.       | 119 | 3 6.0  |
| #34290  | Euclides B       | 2462  | 4939  | 2039   | 8453    | Sa.       | 108 | 2 5.9  |
| 34322   | Agatharchides O  | 2499b | 4234  | 3289   | 8442    | Sa.       | 183 | 1 2.8  |
| 34324   | Agatharchides G  | 2496b | 4225  | 3441   | 8385    | Sa.       | 186 | 2 3.3  |
| #34339  | Agatharchides A  | 2491  | 4370  | 3947   | 8083    | Sa.       | 158 | 4 9.4  |
| 34386   | Agatharchides B  | 2491a | 4879  | 3664   | 7923    | Sa.       | 114 | 1 4.0  |
| 34399   |                  |       | 4997  | 3929   | 7719    | Ar.       |     | 1 2.0  |
| 34414   | Campanus $\zeta$ | 2531  | 4128  | 4429   | 7959    | Sa.       | 200 | 1 (P)  |
| 34416   | Campanus         | 2525  | 4110  | 4690   | 7818    | Fr.       | 27  | 5 27.6 |
| 34428   | Campanus B       | 2527  | 4248  | 4889   | 7619    | Sa.       | 180 | 2 3.3  |
| #34433  | Campanus A       | 2526  | 4303  | 4375   | 7896    | Sa.       | 169 | 2 6.6  |
| 34438   | Campanus $\beta$ | 2530  | 4365  | 4807   | 7605    | Sa.       | 160 | 1 (P)  |
| 34452   | Hippalus B       | 2522a | 4563  | 4253   | 7816    | Sa.       | 142 | 1 2.9  |
| #34490  | Hippalus A       | 2521  | 4949  | 4031   | 7698    | Sa.       | 105 | 2 4.6  |
| #34500  | Mercator A       | 2537  | 4006  | 5091   | 7618    | Sa.       | 209 | 3 5.0  |
| 34511   | Marth            | 2565  | 4187  | 5166   | 7469    | Sa.       | 191 | 2 3.5  |
| 34527   | Ramsden G        | 2566  | 4271  | 5780   | 6953    | Sa.       | 175 | 2 6.3  |
| 34531   | Marth $\alpha$   | 2565a | 4328  | 5143   | 7404    | Sa.       | 167 | 2 (P)  |

| Ref.   | Designation      | B&M   | $\xi$ | $\eta$ | $\zeta$ | Authority | M   | Diam.  |
|--------|------------------|-------|-------|--------|---------|-----------|-----|--------|
| 34531A |                  |       | 4367  | 5157   | 7371    | Sa.       | 159 | 2 (P)  |
| 34532  |                  |       | 4337  | 5232   | 7336    | Sa.       | 166 | 1 (P)  |
| #34544 | Ramsden          | 2561  | 4422  | 5434   | 7136    | Sa.       | 153 | 1 14.1 |
| #34550 | Dunthorne        | 2562  | 4539  | 5014   | 7366    | Sa.       | 144 | 3 9.0  |
| 34564  | Lepaute          | 2564  | 4625  | 5486   | 6965    | Sa.       | 137 | 1 8.8  |
| 34567  | Ramsden $\gamma$ | 2569a | 4625  | 5749   | 6750    | Sa.       | 136 | 1 (P)  |
| 34568  | Ramsden E        | 2563a | 4651  | 5833   | 6660    | Sa.       | 133 | 1 5.9  |
| 34586  | Ramsden D        | 2563  | 4877  | 5643   | 6661    | Sa.       | 116 | 1 12.6 |
| #34591 | Vitello B        | 2355  | 4961  | 5177   | 6970    | Sa.       | 103 | 1 6.2  |
| 34599  | Clausius F       | 2347  | 4949  | 5942   | 6340    | Sa.       | 107 | 1 15.1 |
| #34620 | Hainzel K        | 2588b | 4233  | 6095   | 6703    | Sa.       | 184 | 2 7.8  |
| 34630  | Hainzel H        | 2590a | 4362  | 6007   | 6700    | Sa.       | 162 | 1 6.3  |
| 34631  | Hainzel B        | 2590  | 4339  | 6149   | 6585    | Sa.       | 165 | 1 8.7  |
| #34638 | Mee F            | 2594  | 4348  | 6855   | 5839    | Sa.       | 164 | 2 7.1  |
| 34651  | Hainzel L        | 2582  | 4504  | 6168   | 6455    | Sa.       | 146 | 1 9.9  |
| 34662  | Hainzel R        | 2588d | 4628  | 6261   | 6275    | Sa.       | 135 | 1 10.9 |
| 34664  | Hainzel T        | 2582b | 4623  | 6461   | 6073    | Sa.       | 138 | 1 6.9  |
| 34673  |                  |       | 4781  | 6377   | 6040    | Sa.       | 123 | 1 3.9  |
| 34681  | Hainzel J        | 2588a | 4839  | 6128   | 6248    | Sa.       | 122 | 1 8.6  |
| 34682  | Hainzel O        | 2582a | 4873  | 6244   | 6105    | Sa.       | 117 | 1 7.8  |
| 34695  | Drebbel M        | 2337a | 4975  | 6598   | 5632    | Sa.       | 102 | 1 4.6  |
| #34713 | Schiller A       | 2598  | 4143  | 7329   | 5396    | Sa.       | 196 | 2 6.3  |
| #34745 | Schiller (N.end) | 2597  | 4401  | 7576   | 4820    | Sa.       | 155 | 1 ---  |
| 34756  | Nöggerath G      | 2280  | 4580  | 7685   | 4468    | Ar.       |     | 1 12.8 |
| 34784  | Nöggerath F      | 2281a | 4878  | 7438   | 4570    | Sa.       | 115 | 1 5.2  |

| Ref.   | Designation  | B&M   | ξ    | η    | ζ    | Authority | M      | Diam. |
|--------|--------------|-------|------|------|------|-----------|--------|-------|
| 34786  |              |       | 4810 | 7612 | 4350 | Ar.       | 1      | 15.2  |
| 34787  | Phocylides G | 2277a | 4848 | 7789 | 3979 | Ar.       | 1      | 7.8   |
| #34794 | Nöggerath J  | 2282  | 4919 | 7488 | 4442 | Sa.       | 109 1  | 9.7   |
| 34796  |              |       | 4972 | 7661 | 4073 | Ar.       | 1      | 4.7   |
| 34796A |              |       | 4941 | 7671 | 4091 | Ar.       | 1      | 3.8   |
| 34797  |              |       | 4915 | 7712 | 4046 | Ar.       | 1      | 4.3   |
| 34828  | Bailly E     | 2653  | 4206 | 8870 | 1905 | Fr.       | 818 2  | 7.7   |
| 34846  | Bailly P     | 2652d | 4409 | 8626 | 2481 | Fr.       | 822 2  | 8.5   |
| 34847  | Bailly N     | 2652c | 4408 | 8707 | 2181 | Fr.       | 821 2  | 6.5   |
| 34851  | Phocylides A | 2273  | 4542 | 8147 | 3605 | Fr.       | 997 2  | 10.7  |
| 34876  | Hausen F     | 2265  | 4743 | 8661 | 1580 | Fr.       | 927 2  | 9.3   |
| *34881 | Phocylides F | 2279  | 4836 | 8185 | 3102 | Fr.       | 998 2  | 14.5  |
| 34882  | Phocylides S | 2286a | 4840 | 8282 | 2827 | Fr.       | 1004 5 | 5.5   |
| 34884  | Hausen B     | 2261  | 4869 | 8441 | 2244 | Fr.       | 929 1  | 10.1  |
| 34892  | Phocylides M | 2285  | 4931 | 8235 | 2806 | Fr.       | 1001 2 | 5.2   |
| 34895  | Hausen A     | 2260  | 4989 | 8542 | 1463 | Fr.       | 918 2  | 51.0  |
| 34896  | Hausen       | 2259  | 4908 | 8688 | 0656 | Fr.       | 919 2  | 35.7  |
| 35003  | Lansberg E   | 2485  | 5040 | 0319 | 8631 | Sa.       | 100 1  | 3.2   |
| #35005 | Lansberg D   | 2483  | 5082 | 0523 | 8597 | Sa.       | 98 2   | 6.5   |
| 35013  | Lansberg F   | 2486  | 5103 | 0379 | 8591 | Sa.       | 93 1   | 5.1   |
| 35151  | Euclides F   | 2464b | 5507 | 1105 | 8274 | Sa.       | 71 1   | 3.0   |
| 35190  | Wichmann α   | 2460a | 5998 | 1057 | 7932 | Sa.       | 46 1   | (P)   |
| #35243 | Herigonius   | 2425  | 5431 | 2306 | 8074 | Sa.       | 74 3   | 8.9   |
| 35263  | Herigonius E | 2426  | 5649 | 2382 | 7900 | Sa.       | 64 2   | 3.8   |
| 35326  |              |       | 5266 | 3618 | 7693 | Ar.       | 1      | 2.4   |

| Ref.   | Designation   | B&M   | ξ    | η    | ζ    | Authority | M    | Diam. |
|--------|---------------|-------|------|------|------|-----------|------|-------|
| #35337 | Gassendi O    | 2419a | 5322 | 3734 | 7598 | Sa.       | 79 2 | 6.0   |
| 35342  | Gassendi T    | 2423b | 5468 | 3260 | 7712 | Sa.       | 73 1 | 5.2   |
| 35345  |               |       | 5484 | 3534 | 7579 | Ar.       | 1    | 1.4   |
| #35356 | Gassendi J    | 2419  | 5595 | 3680 | 7427 | Sa.       | 67 4 | 5.2   |
| 35367  | Gassendi R    | 2423a | 5679 | 3734 | 7336 | Sa.       | 63 1 | 2.0   |
| 35368  |               |       | 5627 | 3858 | 7311 | Sa.       | 65 1 | 1.7   |
| 35372  |               |       | 5736 | 3270 | 7511 | Ar.       | 1    | 2.9   |
| 35378  |               |       | 5739 | 3882 | 7210 | Ar.       | 1    | (s)   |
| 35379  | Puiseux F     | 2385  | 5751 | 3968 | 7154 | Ar.       | 1    | 2.2   |
| 35379A |               |       | 5782 | 3943 | 7143 | Ar.       | 1    | (s)   |
| 35385  | Gassendi Y    | 2424  | 5804 | 3565 | 7321 | Sa.       | 58 1 | 2.7   |
| *35391 | Gassendi M    | 2422  | 5966 | 3188 | 7366 | Sa.       | 48 1 | 1.7   |
| #35408 | Vitello E     | 2358  | 5095 | 4868 | 7095 | Sa.       | 94 2 | 4.2   |
| 35415  |               |       | 5195 | 4504 | 7261 | Ar.       | 1    | 2.1   |
| #35433 | Puiseux D     | 2383  | 5313 | 4337 | 7278 | Sa.       | 80 2 | 4.1   |
| 35435  |               |       | 5341 | 4597 | 7095 | Ar.       | 1    | 2.0   |
| 35437  |               |       | 5395 | 4727 | 6968 | Ar.       | 1    | 1.8   |
| 35451  |               |       | 5566 | 4175 | 7183 | Ar.       | 1    | 1.7   |
| 35456  | Puiseux       | 2382  | 5571 | 4657 | 6875 | Sa.       | 68 1 | 14.2  |
| 35463  |               |       | 5653 | 4333 | 7019 | Ar.       | 1    | 2.0   |
| 35474  |               |       | 5714 | 4458 | 6891 | Ar.       | 1    | 1.8   |
| 35490  | Doppelmayer K | 2380b | 5953 | 4064 | 6932 | Ar.       | 1    | 3.0   |
| 35490A | Doppelmayer L | 2380c | 5950 | 4005 | 6969 | Ar.       | 1    | 2.6   |
| 35491  | Doppelmayer J | 2380a | 5980 | 4143 | 6861 | Ar.       | 1    | 3.2   |
| 35517  | Clausius C    | 2346  | 5121 | 5799 | 6337 | Sa.       | 92 1 | 8.5   |

| Ref.    | Designation  | B&M   | ξ    | η    | ζ    | Authority | M    | Diam.  |
|---------|--------------|-------|------|------|------|-----------|------|--------|
| 35520   | Vitello      | 2353  | 5247 | 5061 | 6845 | Sa.       | 84   | 3 25.7 |
| #35520A | Vitello ξ    | 2366a | 5242 | 5048 | 6859 | Sa.       | 85   | 1 (CP) |
| 35531   | Vitello P    | 2361a | 5308 | 5185 | 6704 | Sa.       | 81   | 1 5.0  |
| #35544  | Vitello D    | 2357  | 5492 | 5470 | 6318 | Sa.       | 72   | 1 10.1 |
| 35556   | Vitello A    | 2354  | 5531 | 5615 | 6155 | Sa.       | 70   | 1 12.3 |
| 35573   | Vitello C    | 2356  | 5710 | 5369 | 6211 | Sa.       | 61   | 1 8.3  |
| 35579   |              |       | 5738 | 5941 | 5637 | Ar.       |      | 1 3.7  |
| 35581   |              |       | 5840 | 5120 | 6299 | Ar.       |      | 1 4.0  |
| 35595   |              |       | 5956 | 5532 | 5824 | Ar.       |      | 1 4.3  |
| 35614   | Drebbel C    | 2337  | 5182 | 6488 | 5572 | Ar.       |      | 1 17.2 |
| 35617   | Drebbel F    | 2340  | 5157 | 6786 | 5231 | Sa.       | 89   | 1 8.6  |
| 35619   | Drebbel G    | 2341  | 5122 | 6928 | 5076 | Sa.       | 91   | 1 9.8  |
| 35629   |              |       | 5220 | 6954 | 4939 | Ar.       |      | 1 6.8  |
| *35636  | Drebbel H    | 2342  | 5310 | 6651 | 5251 | Ar.       |      | 1 5.5  |
| #35650  | Clausius     | 2343  | 5543 | 6007 | 5761 | Sa.       | 69   | 1 13.2 |
| 35667   |              |       | 5650 | 6759 | 4732 | Ar.       |      | 1 6.2  |
| 35669   | Schickard B  | 2296  | 5696 | 6902 | 4463 | Ar.       |      | 1 7.9  |
| #35675  | Drebbel      | 2330  | 5701 | 6554 | 4954 | Sa.       | 62   | 1 18.2 |
| 35681   | Drebbel B    | 2336  | 5816 | 6120 | 5359 | Ar.       |      | 1 10.0 |
| 35691   | Drebbel D    | 2338  | 5977 | 6149 | 5144 | Fr.       | 868  | 5 6.0  |
| 35694   | Drebbel L    | 2342c | 5912 | 6470 | 4817 | Sa.       | 53   | 1 5.2  |
| 35695   |              |       | 5952 | 6598 | 4587 | Ar.       |      | 1 5.0  |
| 35708   | Phocylides N | 2286  | 5061 | 7882 | 3501 | Fr.       | 1002 | 2 8.4  |
| 35716   |              |       | 5169 | 7660 | 3822 | Ar.       |      | 1 5.8  |
| 35726   |              |       | 5228 | 7614 | 3834 | Ar.       |      | 1 4.0  |

| Ref.   | Designation  | B&M   | ξ    | η    | ζ    | Authority | M    | Diam.  |
|--------|--------------|-------|------|------|------|-----------|------|--------|
| 35734  |              |       | 5379 | 7437 | 3970 | Ar.       |      | 1 11.3 |
| *35735 | Nasmyth D    | 2274a | 5371 | 7577 | 3706 | Fr.       | 1003 | 7 7.9  |
| 35752  | Schickard A  | 2295  | 5500 | 7295 | 4066 | Fr.       | 1019 | 5 7.7  |
| 35755  |              |       | 5506 | 7514 | 3636 | Ar.       |      | 1 5.1  |
| 35764  |              |       | 5673 | 7451 | 3507 | Ar.       |      | 1 5.8  |
| 35766  | Wargentín    | 2287  | 5649 | 7605 | 3202 | Fr.       | 1033 | 2 48.6 |
| 35768  | Wargentín F  | 2289a | 5694 | 7827 | 2512 | Fr.       | 1036 | 2 11.4 |
| 35771  | Schickard C  | 2297  | 5760 | 7163 | 3938 | Ar.       |      | 1 7.7  |
| 35772  |              |       | 5728 | 7261 | 3804 | Ar.       |      | 1 8.9  |
| 35777  | Wargentín D  | 2289b | 5706 | 7780 | 2629 | Fr.       | 1037 | 2 9.1  |
| 35778  | Wargentín B  | 2289  | 5783 | 7806 | 2370 | Fr.       | 1035 | 2 11.9 |
| 35783  | Wargentín A  | 2288  | 5844 | 7327 | 3488 | Fr.       | 1034 | 5 12.1 |
| 35787  | Wargentín E  | 2289c | 5803 | 7763 | 2461 | Fr.       | 1038 | 2 9.1  |
| 35793  |              |       | 5928 | 7360 | 3270 | Ar.       |      | 1 6.7  |
| 35820  | Phocylides J | 2283  | 5221 | 8098 | 2677 | Fr.       | 1000 | 3 12.8 |
| 35843  | Hausen E     | 2264  | 5422 | 8339 | 1032 | Fr.       | 936  | 3 10.4 |
| 35843A | Hausen D     | 2263  | 5485 | 8344 | 0542 | Fr.       | 939  | 1 4.9  |
| 35850  | Pingré       | 2258  | 5507 | 8090 | 2055 | Fr.       | 937  | 2 11.0 |
| 35871  | Pingré A     | 2258a | 5707 | 8137 | 1105 | Fr.       | 922  | 2 20.0 |
| 36008  |              |       | 6049 | 0818 | 7921 | Ar.       |      | 1 1.6  |
| 36044  |              |       | 6495 | 0408 | 7593 | Ar.       |      | 1 2.4  |
| 36056  |              |       | 6518 | 0608 | 7560 | Ar.       |      | 1 2.2  |
| 36058  | Flamsteed F  | 2448  | 6554 | 0828 | 7507 | Ar.       |      | 1 3.1  |
| #36097 | Flamsteed    | 2443  | 6956 | 0781 | 7142 | Sa.       | 25   | 3 11.9 |
| #36113 | Wichmann     | 2457  | 6111 | 1308 | 7807 | Sa.       | 43   | 2 6.1  |

| Ref.   | Designation | B&M   | ξ    | η    | ζ    | Authority | M     | Diam. |
|--------|-------------|-------|------|------|------|-----------|-------|-------|
| 36122  |             |       | 6262 | 1244 | 7697 | Ar.       | 1     | 2.2   |
| 36144  | Letronne η  | 2442a | 6480 | 1462 | 7475 | Sa.       | 35 1  | (P)   |
| 36149  | Letronne B  | 2433  | 6463 | 1949 | 7377 | Fr.       | 979 2 | 3.0   |
| #36173 | Flamsteed A | 2444  | 6745 | 1370 | 7255 | Sa.       | 30 3  | 7.3   |
| #36180 | Flamsteed B | 2445  | 6873 | 1034 | 7190 | Sa.       | 27 1  | 5.5   |
| 36211  | Letronne A  | 2432  | 6157 | 2104 | 7594 | Fr.       | 978 1 | 3.9   |
| 36216  | Gassendi A  | 2412  | 6157 | 2677 | 7411 | Fr.       | 884 2 | 19.0  |
| 36219  | Gassendi β  | 2392  | 6110 | 2966 | 7340 | Sa.       | 44 1  | (P)   |
| 36225  | Gassendi B  | 2413  | 6289 | 2529 | 7352 | Fr.       | 885 2 | 15.9  |
| #36258 | Gassendi ζ  | 2396  | 6521 | 2830 | 7033 | Sa.       | 34 2  | (s)   |
| #36278 | Gassendi G  | 2417  | 6719 | 2881 | 6823 | Sa.       | 31 1  | 4.3   |
| #36285 | Gassendi F  | 2416  | 6819 | 2592 | 6840 | Sa.       | 28 1  | 4.8   |
| #36294 | Billy A     | 2137  | 6994 | 2474 | 6705 | Sa.       | 24 1  | 4.1   |
| 36310  | Gassendi    | 2389  | 6113 | 3011 | 7319 | Fr.       | 883 2 | 63.5  |
| 36316  |             |       | 6115 | 3601 | 7046 | Ar.       | 1     | (s)   |
| 36316A |             |       | 6186 | 3614 | 6976 | Ar.       | 1     | (s)   |
| 36324  | Gassendi L  | 2420  | 6228 | 3476 | 7012 | Ar.       | 1     | 3.2   |
| 36334  |             |       | 6398 | 3418 | 6883 | Ar.       | 1     | 2.1   |
| *36351 | Gassendi α  | 2390  | 6541 | 3162 | 6872 | Fr.       | 52 5  | 4.4   |
| #36368 | Mersenius E | 2153  | 6649 | 3822 | 6417 | Sa.       | 32 2  | 5.6   |
| 36369  | Mersenius D | 2152  | 6697 | 3921 | 6307 | Ar.       | 1     | 19.7  |
| #36373 | Mersenius C | 2151  | 6760 | 3382 | 6547 | Sa.       | 29 1  | 8.1   |
| 36392  | Mersenius S | 2157b | 6904 | 3289 | 6443 | Fr.       | 93 11 | 9.0   |
| 36394  | Mersenius P | 2157d | 6958 | 3414 | 6319 | Ar.       | 1     | 24.1  |
| 36411  |             |       | 6155 | 4166 | 6690 | Ar.       | 1     | 2.1   |

| Ref.   | Designation   | B&M   | ξ    | η    | ζ    | Authority | M     | Diam. |
|--------|---------------|-------|------|------|------|-----------|-------|-------|
| 36441  |               |       | 6420 | 4189 | 6422 | Ar.       | 1     | 2.0   |
| 36444  | Liebig G      | 2155  | 6427 | 4400 | 6271 | Ar.       | 1     | 11.3  |
| 36451  | Liebig F      | 2154  | 6501 | 4168 | 6354 | Fr.       | 993 2 | 5.1   |
| 36454  |               |       | 6584 | 4428 | 6086 | Ar.       | 1     | 6.1   |
| 36458  | Palmieri E    | 2205a | 6543 | 4886 | 5772 | Fr.       | 881 2 | 7.8   |
| 36462  | Liebig B      | 2149  | 6636 | 4225 | 6173 | Ar.       | 1     | 4.9   |
| 36465  |               |       | 6604 | 4514 | 6001 | Ar.       | 1     | 2.9   |
| 36471  | Liebig        | 2148  | 6792 | 4118 | 6075 | Ar.       | 2     | 22.0  |
| 36471A | Liebig A      | 2157a | 6736 | 4112 | 6142 | Ar.       | 1     | 5.0   |
| *36474 |               |       | 6796 | 4417 | 5857 | Ar.       | 1     | 4.9   |
| 36475  |               |       | 6749 | 4535 | 5821 | Ar.       | 1     | 3.0   |
| 36478  | Fourier E     | 2204  | 6730 | 4801 | 5627 | Ar.       | 1     | 8.5   |
| 36488  |               |       | 6886 | 4840 | 5402 | Ar.       | 1     | 5.8   |
| 36489  |               |       | 6839 | 4907 | 5399 | Ar.       | 1     | 6.1   |
| 36493  | De Gasparis   | 2180  | 6964 | 4355 | 5704 | Ar.       | 1     | 18.2  |
| *36497 | Fourier C     | 2203  | 6919 | 4780 | 5411 | Fr.       | 879 2 | 7.9   |
| 36498  | Fourier F     | 2206  | 6970 | 4816 | 5313 | Ar.       | 1     | 7.9   |
| 36504  |               |       | 6029 | 5465 | 5812 | Ar.       | 1     | 5.2   |
| 36504A |               |       | 6078 | 5446 | 5779 | Ar.       | 1     | 5.7   |
| 36510  | Doppelmayer B | 2381a | 6144 | 5070 | 6046 | Ar.       | 1     | 6.0   |
| 36523  |               |       | 6229 | 5378 | 5682 | Ar.       | 1     | 4.1   |
| #36528 | Lehmann C     | 2318  | 6247 | 5816 | 5211 | Sa.       | 40 1  | 9.3   |
| 36533  | Palmieri A    | 2201  | 6327 | 5340 | 5608 | Fr.       | 46 6  | 11.2  |
| 36535  |               |       | 6309 | 5541 | 5430 | Ar.       | 1     | 6.0   |
| 36542  |               |       | 6428 | 5273 | 5557 | Ar.       | 1     | 5.6   |

| Ref.   | Designation | B&M   | £    | ?    | ‡    | Authority | M | Diam. |
|--------|-------------|-------|------|------|------|-----------|---|-------|
| 36550  | Fourier A   | 2202  | 6569 | 5026 | 5620 | Ar.       | 1 | 18.6  |
| 36552  | Fourier D   | 2207  | 6575 | 5226 | 5428 | Ar.       | 1 | 11.8  |
| 36570  |             |       | 6793 | 5079 | 5297 | Ar.       | 1 | 5.9   |
| 36577  | Lacroix A   | 2322  | 6713 | 5743 | 4685 | Ar.       | 1 | 7.4   |
| 36580  | Fourier     | 2200  | 6894 | 5042 | 5201 | Ar.       | 2 | 31.3  |
| 36595  |             |       | 6946 | 5506 | 4630 | Ar.       | 1 | 5.6   |
| 36605  | Drebbel J   | 2342a | 6003 | 6510 | 4645 | Ar.       | 1 | 7.2   |
| 36619  |             |       | 6192 | 6955 | 3646 | Ar.       | 1 | 4.0   |
| 36628  | Schickard G | 2303a | 6256 | 6825 | 3780 | Fr.1020   | 5 | 7.3   |
| *36643 | Lehmann D   | 2318d | 6492 | 6366 | 4163 | Fr. 971   | 4 | 7.7   |
| #36645 | Lehmann H   | 2318e | 6440 | 6573 | 3915 | Sa. 37    | 1 | 8.0   |
| 36648  | Schickard H | 2306a | 6414 | 6890 | 3375 | Fr.1021   | 7 | 9.1   |
| 36662  | Lacroix H   | 2325a | 6604 | 6246 | 4168 | Fr. 974   | 2 | 7.2   |
| 36665  | Lacroix F   | 2324  | 6669 | 6525 | 3598 | Fr. 972   | 2 | 8.4   |
| 36671  | Lacroix     | 2321  | 6762 | 6138 | 4074 | Ar.       | 1 | 20.8  |
| 36672  | Lacroix J   | 2325b | 6743 | 6208 | 3999 | Fr. 975   | 2 | 11.0  |
| 36690  | Lacroix B   | 2325c | 6946 | 6023 | 3933 | Fr. 976   | 2 | 3.9   |
| *36697 | Lacroix Z   | 2325  | 6931 | 6724 | 2599 | Fr. 910   | 1 | 10.0  |
| 36699  | Inghirami C | 2250  | 6919 | 6965 | 1904 | Fr. 911   | 2 | 8.5   |
| 36700  |             |       | 6034 | 7009 | 3803 | Ar.       | 1 | 2.9   |
| 36701  |             |       | 6086 | 7147 | 3447 | Ar.       | 1 | 8.1   |
| 36707  | Wargentín G | 2290  | 6045 | 7791 | 1661 | Fr. 950   | 2 | 14.7  |
| 36716  | Inghirami F | 2253  | 6113 | 7685 | 1889 | Fr. 948   | 4 | 10.4  |
| 36723  | Inghirami   | 2247  | 6298 | 7370 | 2454 | Fr. 945   | 2 | 52.4  |
| 37003  |             |       | 7072 | 0338 | 7062 | Ar.       | 1 | 1.0   |

| Ref.   | Designation     | B&M     | £    | ?    | ‡    | Authority | M | Diam. |
|--------|-----------------|---------|------|------|------|-----------|---|-------|
| #37005 | Flamsteed D     | 2447    | 7039 | 0553 | 7081 | Sa. 21    | 1 | 3.9   |
| *37016 | Flamsteed E     | 2447a   | 7176 | 0644 | 6935 | Sa. 18    | 1 | (P)   |
| #37019 | Flamsteed C     | 2446    | 7187 | 0958 | 6887 | Sa. 17    | 1 | 5.5   |
| *37089 |                 |         | 7854 | 0977 | 6112 | Sa. 11    | 1 | 1.8   |
| 37116  | Letronne F      | 2435    | 7106 | 1603 | 6851 | Fr. 980   | 2 | 4.8   |
| 37179  | Hansteen        | 2117    | 7714 | 1998 | 6042 | Ar.       | 1 | 25.8  |
| 37225  | Billy D         | 2138a   | 7216 | 2561 | 6433 | Fr. 833   | 5 | 5.9   |
| 37227  | Billy C         | 2136    | 7250 | 2768 | 6294 | Ar.       | 1 | 3.0   |
| 37232  |                 |         | 7322 | 2242 | 6431 | Ar.       | 1 | 2.1   |
| 37235  | Billy €         | 2134    | 7362 | 2582 | 6255 | Sa. 14    | 1 | (P)   |
| 37243  | Billy           | 2127    | 7444 | 2389 | 6235 | Fr. 19    | 5 | 26.3  |
| 37262  | Hansteen A      | 2118    | 7695 | 2210 | 5992 | Ar.       | 2 | 3.4   |
| 37269  |                 |         | 7674 | 2962 | 5687 | Ar.       | 2 | 3.4   |
| 37296  | Fontana A       | 2106    | 7988 | 2642 | 5405 | Ar.       | 1 | 3.0   |
| 37304  |                 |         | 7092 | 3452 | 6147 | Ar.       | 1 | 3.6   |
| 37323  |                 | (2157e) | 7290 | 3364 | 5961 | Sa. 16    | 1 | (s)   |
| *37334 |                 |         | 7399 | 3455 | 5772 | Ar.       | 1 | 5.1   |
| 37335  | Mersenius B     | 2150    | 7312 | 3595 | 5797 | Fr. 991   | 2 | 8.4   |
| 37345  |                 |         | 7425 | 3580 | 5661 | Ar.       | 1 | 3.0   |
| 37353  | Zupus D         | 2142    | 7557 | 3364 | 5620 | Ar.       | 1 | 9.8   |
| 37359  |                 |         | 7528 | 3950 | 5266 | Ar.       | 2 | 5.8   |
| 37370  |                 |         | 7744 | 3024 | 5558 | Ar.       | 1 | 3.5   |
| 37375  |                 |         | 7787 | 3500 | 5207 | Ar.       | 1 | 2.9   |
| 37377  |                 |         | 7726 | 3792 | 5092 | Ar.       | 1 | 3.2   |
| 37389  | Henry (Prosper) | 2178    | 7852 | 3995 | 4732 | Ar.       | 1 | 24.0  |

| Ref.   | Designation  | B&M   | ξ    | η    | ζ    | Authority | M    | Diam.   |
|--------|--------------|-------|------|------|------|-----------|------|---------|
| 37394  |              |       | 7983 | 3433 | 4949 | Ar.       | 1    | 4.0     |
| 37405  |              |       | 7070 | 4547 | 5417 | Ar.       | 1    | 6.1     |
| 37420  | Cavendish A  | 2176  | 7268 | 4071 | 5532 | Ar.       | 2    | 5.9     |
| 37424  | Cavendish F  | 2179a | 7267 | 4408 | 5269 | Ar.       | 1    | 10.0    |
| 37428  | Vieta        | 2190  | 7261 | 4884 | 4839 | Ar.       | 2    | 50.1    |
| 37428A |              |       | 7295 | 4895 | 4777 | Ar.       | 1    | 3.2     |
| 37428B |              |       | 7265 | 4862 | 4856 | Ar.       | 1    | (P)     |
| #37432 | Cavendish E  | 2179  | 7331 | 4299 | 5270 | Sa.       | 15 1 | 13.7    |
| 37460  | Henry (Paul) | 2177  | 7655 | 4060 | 4992 | Ar.       | 2    | 23.8    |
| 37461  |              |       | 7637 | 4139 | 4954 | Ar.       | 1    | 4.2     |
| 37487  | Lagrange G   | 2222a | 7820 | 4785 | 3994 | Fr. 963   | 2    | 9.4     |
| 37489  | Lagrange C   | 2219  | 7860 | 4985 | 3657 | Fr. 962   | 2    | 13.2    |
| 37499  | Lagrange H   | 2222b | 7969 | 4922 | 3503 | Fr. 964   | 2    | 6.1     |
| *37500 |              |       | 7028 | 5004 | 5057 | Ar.       | 1    | 7.3x3.6 |
| 37510  |              |       | 7126 | 5081 | 4837 | Ar.       | 1    | 5.8     |
| *37514 | Fourier β    | 2209  | 7111 | 5422 | 4476 | Fr. 880   | 2    | (P)     |
| 37518  | Piazzi F     | 2235  | 7110 | 5833 | 3928 | Fr.1006   | 4    | 6.2     |
| 37540  | Vieta A      | 2191  | 7418 | 5055 | 4407 | Ar.       | 1    | 19.7    |
| 37542  | Lagrange B   | 2218  | 7498 | 5219 | 4066 | Fr. 960   | 2    | 8.3     |
| 37544  |              |       | 7437 | 5433 | 3895 | Ar.       | 1    | 6.5     |
| 37563  |              |       | 7677 | 5310 | 3587 | Ar.       | 1    | 11.9    |
| 37575  | Lagrange J   | 2222c | 7732 | 5598 | 2980 | Fr. 965   | 2    | 4.1     |
| 37583  | Lagrange A   | 2217  | 7889 | 5370 | 2989 | Fr. 959   | 2    | 3.3     |
| *37587 | Lagrange D   | 2220  | 7814 | 5730 | 2473 | Fr. 961   | 5    | 6.5     |
| 37600  | Piazzi C     | 2232  | 7085 | 6040 | 3650 | Fr.1005   | 2    | 15.9    |

| Ref.   | Designation | B&M   | ξ    | η    | ζ    | Authority | M   | Diam. |
|--------|-------------|-------|------|------|------|-----------|-----|-------|
| 37607  | Bouvard K   | 2242f | 7044 | 6708 | 2321 | Fr. 908   | 1   | 9.5   |
| 37617  | Bouvard F   | 2242c | 7169 | 6751 | 1743 | Fr. 905   | 2   | 11.1  |
| 37617A | Bouvard G   | 2242d | 7161 | 6705 | 1941 | Fr. 906   | 4   | 10.8  |
| 37620  | Piazzi B    | 2231  | 7262 | 6086 | 3198 | Fr. 977   | 2   | 4.1   |
| *37626 | Bouvard E   | 2252  | 7262 | 6689 | 1588 | Fr. 904   | 2   | 6.3   |
| 37627  | Bouvard D   | 2242b | 7240 | 6799 | 1164 | Fr. 902   | 2   | 14.9  |
| 37670  | Bouvard C   | 2242a | 7782 | 6026 | 1768 | Fr. 966   | 5   | 7.9   |
| 37700  | Inghirami D | 2251  | 7025 | 7053 | 0954 | Fr. 901   | 2   | 31.8  |
| 38024  | Damoiseau G | 1994  | 8244 | 0441 | 5643 | Ar.       | 1   | 1.4   |
| 38030  |             |       | 8396 | 0059 | 5431 | Ar.       | 1   | 2.5   |
| #38041 | Hermann     | 1985  | 8416 | 0152 | 5400 | Sa.       | 8 1 | 8.9   |
| #38049 | Damoiseau E | 1992  | 8470 | 0910 | 5237 | Sa.       | 6 2 | 8.0   |
| 38057  | Damoiseau L | 1996a | 8565 | 0793 | 5100 | Sa.       | 5 1 | 6.9   |
| 38074  | Grimaldi C  | 2005  | 8776 | 0465 | 4772 | Fr. 891   | 2   | 5.4   |
| 38081  | Lohrmann A  | 1977  | 8879 | 0133 | 4600 | Fr. 80    | 6   | 6.9   |
| 38093  |             |       | 8983 | 0313 | 4383 | Ar.       | 1   | 3.4   |
| 38159  |             |       | 8579 | 1999 | 4733 | Ar.       | 1   | 5.6   |
| 38173  | Damoiseau F | 1993  | 8760 | 1371 | 4624 | Ar.       | 1   | 5.2   |
| 38175  | Damoiseau C | 1991  | 8768 | 1589 | 4539 | Fr. 859+  | 2   | 7.6   |
| 38179  | Sirsalis B  | 2048  | 8795 | 1925 | 4352 | Ar.       | 1   | 8.9   |
| *38180 | Damoiseau A | 1988  | 8808 | 1090 | 4608 | Ar.       | 1   | 26.8  |
| 38180A |             |       | 8853 | 1001 | 4541 | Ar.       | 1   | 3.4   |
| #38181 | Damoiseau D | 1990  | 8864 | 1126 | 4490 | Ar.       | 1   | 10.6  |
| 38187  | Sirsalis C  | 2085  | 8832 | 1792 | 4334 | Ar.       | 1   | 11.7  |
| 38192  |             |       | 8977 | 1277 | 4217 | Ar.       | 1   | 4.8   |



| Ref.   | Designation | B&M   | ξ    | η    | ζ    | Authority | M | Diam. |
|--------|-------------|-------|------|------|------|-----------|---|-------|
| 38207  | Fontana     | 2105  | 8025 | 2766 | 5287 | Ar.       | 2 | 18.0  |
| 38209  |             |       | 8056 | 2953 | 5136 | Ar.       | 1 | 3.2   |
| 38212  |             |       | 8189 | 2293 | 5261 | Ar.       | 1 | 5.0   |
| 38213  |             |       | 8130 | 2324 | 5339 | Ar.       | 1 | 5.5   |
| 38218  |             |       | 8142 | 2870 | 5047 | Ar.       | 1 | 3.0   |
| 38219  |             |       | 8118 | 2962 | 5032 | Ar.       | 1 | 3.5   |
| 38224  |             |       | 8211 | 2420 | 5169 | Ar.       | 1 | 4.4   |
| 38224A |             |       | 8294 | 2411 | 4040 | Ar.       | 1 | 3.8   |
| 38227  | Fontana G   | 2112  | 8257 | 2745 | 4928 | Ar.       | 1 | 8.8   |
| 38227A |             |       | 8295 | 2792 | 4837 | Ar.       | 1 | 3.7   |
| 38233  | Sirsalis J  | 2091  | 8396 | 2320 | 4912 | Fr.1026   | 2 | 5.4   |
| 38241  | Sirsalis    | 2082  | 8485 | 2165 | 4829 | Ar.       | 2 | 25.3  |
| #38243 | Sirsalis F  | 2088  | 8429 | 2347 | 4842 | Sa. 7     | 1 | 7.0   |
| 38244  |             |       | 8436 | 2488 | 4758 | Ar.       | 2 | 4.8   |
| 38249  | Crüger C    | 2072a | 8447 | 2904 | 4496 | Fr. 856   | 2 | 7.0   |
| 38257  | Crüger A    | 2071  | 8535 | 2754 | 4424 | Ar.       | 1 | 13.8  |
| 38266  |             |       | 8698 | 2641 | 4168 | Ar.       | 1 | 6.0   |
| 38274  |             |       | 8727 | 2445 | 4226 | Ar.       | 2 | 4.4   |
| #38278 | Crüger      | 2070  | 8798 | 2869 | 3789 | Sa. 2     | 1 | 25.8  |
| 38280  |             |       | 8885 | 2068 | 4096 | Ar.       | 1 | 4.1   |
| 38281  |             |       | 8821 | 2197 | 4167 | Ar.       | 1 | 4.4   |
| 38282  |             |       | 8847 | 2233 | 4091 | Ar.       | 1 | 14.2  |
| 38283  |             |       | 8803 | 2302 | 4148 | Ar.       | 1 | 7.8   |
| 38290  |             |       | 8955 | 2063 | 3943 | Ar.       | 1 | 4.9   |
| 38293  |             |       | 8905 | 2351 | 3895 | Ar.       | 1 | 13.6  |

| Ref.    | Designation | B&M   | ξ    | η    | ζ    | Authority          | M  | Diam. |
|---------|-------------|-------|------|------|------|--------------------|----|-------|
| *38302  |             |       | 8082 | 3249 | 4912 | Ar.                | 1  | 4.0   |
| 38304   |             |       | 8068 | 3400 | 4832 | Ar.                | 1  | 4.0   |
| 38310   |             |       | 8126 | 3062 | 4959 | Ar.                | 1  | 4.5   |
| *#38313 | De Vico     | 2059  | 8174 | 3375 | 4669 | Sa. 9              | 1  | 11.1  |
| 38316   | De Vico E   | 2064  | 8194 | 3619 | 4446 | Fr. 865            | 2  | 6.9   |
| 38319   |             |       | 8111 | 3906 | 4353 | Ar.                | 1  | 7.8   |
| 38325   | De Vico C   | 2062  | 8293 | 3525 | 4336 | Fr. 863            | 2  | 6.7   |
| 38326   | De Vico D   | 2063  | 8239 | 3608 | 4371 | Fr. 864            | 1  | 7.0   |
| 38332   | De Vico F   | 2064a | 8393 | 3271 | 4342 | Fr. 862            | 5  | 6.9   |
| 38339   | Byrgius E   | 2052  | 8399 | 3983 | 3686 | {Fr. 836<br>Ar. 1} | 2  | 7.8   |
| 38343   |             |       | 8416 | 3339 | 4245 | Ar.                | 1  | 5.0   |
| 38360   | Crüger E    | 2073a | 8647 | 3012 | 4020 | Ar.                | 1  | 8.1   |
| 38363   |             |       | 8635 | 3322 | 3795 | Ar.                | 2  | 3.8   |
| 38380   |             |       | 8812 | 3068 | 3597 | Ar.                | 1  | 3.8   |
| 38385   | Darwin C    | 2073  | 8860 | 3511 | 3028 | Fr. 870            | 6  | 8.0   |
| 38411   | Byrgius A   | 2047  | 8162 | 4159 | 4010 | Fr. 26             | 15 | 10.8  |
| 38440   | Byrgius D   | 2051  | 8416 | 4090 | 3527 | Fr. 835            | 2  | 14.9  |
| 38459   | Lagrange F  | 2228  | 8540 | 4987 | 1480 | Fr. 837            | 2  | 25.3  |
| 38476   | Byrgius G   | 2052a | 8742 | 4656 | 1377 | Fr. 838            | 2  | 17.2  |
| *38490  | Eichstadt E | 2038a | 8954 | 4062 | 1824 | Fr. 871            | 2  | 10.0  |
| 39000   | Lohrmann D  | 1979  | 9066 | 0018 | 4220 | Ar.                | 1  | 4.9   |
| 39006   | Grimaldi E  | 2007  | 9004 | 0639 | 4303 | Fr. 892            | 2  | 7.4   |
| 39020   | Lohrmann    | 1976  | 9226 | 0084 | 3858 | Fr. 983            | 3  | 19.5  |
| 39031   | Lohrmann B  | 1978  | 9362 | 0132 | 3513 | Ar.                | 1  | 8.6   |
| *39032  |             |       | 9341 | 0241 | 3562 | Ar.                | 1  | 5.8   |

| Ref.   | Designation | B&M   | ξ    | η    | ζ    | Authority | M   | Diam. |
|--------|-------------|-------|------|------|------|-----------|-----|-------|
| 39035  | Grimaldi B  | 2004  | 9330 | 0513 | 3562 | Fr. 890   | 2   | 12.6  |
| *39037 |             |       | 9393 | 0736 | 3351 | Ar.       | 1   | (P)   |
| 39045  | Grimaldi J  | 2008b | 9414 | 0509 | 3335 | Ar.       | 1   | 8.2   |
| 39049  | Grimaldi A  | 2003  | 9424 | 0946 | 3209 | Fr. 889   | 1   | 7.9   |
| 39061  | Riccioli α  | 1974a | 9632 | 0176 | 2683 | Fr.1011   | 4   | (P)   |
| #39063 | Riccioli D  | 1967b | 9616 | 0383 | 2716 | Fr.1014   | 2   | 26.2  |
| #39065 | Riccioli L  | 1967c | 9698 | 0513 | 2386 | Fr.1015   | 6   | 7.6   |
| 39109  |             |       | 9087 | 1905 | 3715 | Ar.       | 1   | 10.0  |
| 39116  |             |       | 9176 | 1602 | 3637 | Ar.       | 1   | 8.8   |
| 39201  | Rocca B     | 2023  | 9014 | 2180 | 3774 | Ar.       | 1   | 13.6  |
| 39202  |             |       | 9086 | 2202 | 3550 | Sa.       | 1   | (s)   |
| 39209  | Crüger B    | 2072  | 9065 | 2958 | 3013 | Fr. 855   | 2   | 7.0   |
| 39210  | Rocca E     | 2026  | 9163 | 2058 | 3435 | Ar.       | 1   | 26.6  |
| *39220 |             |       | 9223 | 2000 | 3308 | Ar.       | 1   | 10.6  |
| 39308  | Eichstadt   | 2034  | 9044 | 3851 | 1838 | Fr. 869   | 2,3 | 28.3  |

| Ref.   | Designation  | B&M   | ξ    | η    | ζ    | Authority | M | Diam. |
|--------|--------------|-------|------|------|------|-----------|---|-------|
| 40006  | Réaumur C    | 3639a | 0041 | 0608 | 9981 | Sa.1365   | 1 | 2.9   |
| 40007  | Réaumur A    | 3640  | 0045 | 0752 | 9972 | Sa.1368   | 3 | 9.4   |
| 40017  | Réaumur B    | 3641  | 0148 | 0740 | 9972 | Sa.1403   | 2 | 2.7   |
| 40019  |              |       | 0108 | 0952 | 9954 | Sa.1389   | 2 | 2.8   |
| 40037  | Hipparchus D | 3608a | 0369 | 0778 | 9963 | Sa.1475   | 3 | 2.7   |
| 40037A | Hipparchus E | 3608b | 0395 | 0737 | 9965 | Sa.1487   | 3 | 3.1   |
| 40040  | Réaumur D    | 3639b | 0486 | 0040 | 9988 | Sa.1513   | 2 | 2.4   |
| 40047  | Hipparchus F | 3608  | 0434 | 0729 | 9964 | Sa.1499   | 6 | 5.6   |
| 40048  | Hipparchus P | 3608d | 0476 | 0825 | 9955 | Sa.1509   | 1 | 3.0   |
| 40049  | Hipparchus H | 3608c | 0401 | 0954 | 9946 | Sa.1489   | 3 | 2.6   |
| 40050  |              |       | 0512 | 0074 | 9987 | Sa.1522   | 1 | 2.4   |
| #40053 | Seeliger     | 3610  | 0527 | 0385 | 9979 | Sa.1529   | 6 | 5.1   |
| 40053A | Seeliger A   | 3610a | 0535 | 0324 | 9981 | Sa.1531   | 3 | 2.5   |
| 40088  | Hipparchus N | 3616  | 0870 | 0843 | 9926 | Sa.1638   | 4 | 3.6   |
| 40102  | Ptolemaeus G | 2969  | 0015 | 1245 | 9922 | Sa.1355   | 1 | 6.1   |
| 40103  | Ptolemaeus T | 2970h | 0005 | 1301 | 9915 | Sa.1353   | 1 | 3.6   |
| 40105  |              |       | 0033 | 1553 | 9879 | Sa.1361   | 1 | 1.4   |
| 40106  |              |       | 0013 | 1607 | 9870 | Ar.       | 1 | 1.3   |
| 40108  | Ptolemaeus U | 2970i | 0022 | 1808 | 9835 | Sa.1357   | 1 | 2.1   |
| 40109  | Ptolemaeus X | 2970k | 0055 | 1908 | 9816 | Sa.1371   | 4 | 4.0   |
| 40110  | Gylden C     | 3642  | 0178 | 1028 | 9946 | Sa.1415   | 4 | 3.7   |
| 40113  |              |       | 0102 | 1349 | 9908 | Sa.1387   | 1 | 2.1   |
| 40116  | Ptolemaeus Y | 2970l | 0125 | 1624 | 9866 | Sa.1396   | 5 | 3.5   |
| *40123 | Müller F     | 3583  | 0206 | 1336 | 9908 | Sa.1422   | 1 | 2.2   |
| 40123A |              |       | 0230 | 1349 | 9906 | Sa.1433   | 3 | 3.1   |

| Ref.   | Designation   | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam.    |
|--------|---------------|-------|--------|--------|--------|-----------|---|----------|
| 40123B |               |       | 0260   | 1366   | 9903   | Sa.1446   | 3 | 3.7      |
| 40132  | Hipparchus X  | 3612  | 0379   | 1212   | 9919   | Sa.1481   | 6 | 6.7      |
| 40132A | Hipparchus B  | 3612a | 0304   | 1216   | 9921   | Sa.1457   | 3 | 3.0      |
| 40134  | Müller A      | 3618a | 0374   | 1417   | 9892   | Sa.1478   | 3 | 5.7      |
| 40136  | Albategnius G | 3584  | 0330   | 1643   | 9859   | Sa.1467   | 4 | 8.3      |
| 40137  | Albategnius K | 3583a | 0352   | 1718   | 9845   | Sa.1469   | 1 | 5.6      |
| *40142 |               |       | 0427   | 1210   | 9917   | Sa.1497   | 3 | 2.9      |
| 40143  | Müller O      | 3618b | 0423   | 1374   | 9896   | Sa.1496   | 5 | 6.0      |
| 40153  | Hipparchus J  | 3611  | 0559   | 1318   | 9897   | Sa.1541   | 6 | 8.0      |
| 40154  | Hipparchus Q  | 3611a | 0503   | 1478   | 9877   | Sa.1519   | 3 | 4.7      |
| 40154A |               |       | 0521   | 1449   | 9881   | Sa.1526   | 2 | 2.9      |
| 40155  | Albategnius A | 3577a | 0555   | 1560   | 9862   | Sa.1540   | 1 | 3.9      |
| 40159  | Klein A       | 3578a | 0514   | 1969   | 9791   | Sa.1523   | 3 | 5.1      |
| 40161  | Hipparchus U  | 3611c | 0620   | 1177   | 9911   | Sa.1556   | 3 | 4.5      |
| 40162  | Hipparchus T  | 3611b | 0619   | 1241   | 9903   | Sa.1554   | 3 | 4.6      |
| 40165  |               |       | 0636   | 1562   | 9857   | Sa.1564   | 1 | 2.7      |
| 40167  | Albategnius B | 3579  | 0694   | 1745   | 9822   | Sa.1578   | 1 | 12.2x9.7 |
| 40167A | Albategnius C | 3579a | 0641   | 1789   | 9818   | Sa.1566   | 3 | 3.6      |
| 40174  | Halley B      | 3596a | 0776   | 1472   | 9861   | Sa.1608   | 2 | 3.2      |
| 40175  | Albategnius M | 3579b | 0722   | 1551   | 9853   | Sa.1588   | 3 | 4.9      |
| 40176  |               |       | 0755   | 1677   | 9829   | Sa.1603   | 1 | 4.0      |
| 40177  | Albategnius N | 3579c | 0783   | 1715   | 9821   | Sa.1610   | 3 | 5.2      |
| 40177A |               |       | 0709   | 1743   | 9821   | Sa.1581   | 2 | 2.2      |
| 40186  | Albategnius H | 3585  | 0890   | 1679   | 9818   | Sa.1643   | 2 | 6.1      |
| 40203  | Parrot N      | 3576a | 0080   | 2382   | 9712   | Sa.1380   | 2 | 2.8      |

| Ref.   | Designation            | B&M   | ξ<br>+ | η<br>- | ζ<br>+  | Authority | M      | Diam. |
|--------|------------------------|-------|--------|--------|---------|-----------|--------|-------|
| 40213  |                        |       | 0187   | 2381   | 9711    | Sa.1418   | 1      | 1.9   |
| 40216  | Parrot Q               | 3576b | 0183   | 2607   | 9653    | Sa.1417   | 3      | 2.9   |
| 40219  |                        |       | 0177   | 2941   | 9556    | Sa.1414   | 1      | 1.8   |
| 40222  | Parrot W               | 3576c | 0254   | 2277   | 9734    | Sa.1443   | 2      | 2.8   |
| 40231  | Klein B                | 3578b | 0309   | 2164   | 9758    | Sa.1459   | 2      | 3.2   |
| 40235  | Parrot X               | 3576d | 0320   | 2504   | 9676    | Sa.1461   | 3      | 2.5   |
| 40241  | Klein C                | 3578c | 0441   | 2169   | 9752    | Sa.1501   | 2      | 3.5   |
| 40249  | Parrot O               | 3575a | 0430   | 2916   | 9556    | Sa.1498   | 4      | 5.9   |
| 40253  | Parrot R               | 3563a | 0539   | 2336   | 9708    | Sa.1533   | 2      | 5.8   |
| 40267  | Parrot S               | 3563b | 0602   | 2742   | 9598    | Sa.1550   | 1      | 5.5   |
| 40267A | Parrot T               | 3563c | 0697   | 2739   | 9592    | Sa.1579   | 2      | 4.4   |
| 40272  | Albategnius O          | 3577b | 0720   | 2294   | 9707    | Sa.1586   | 1      | 3.3   |
| 40272A | Albategnius P          | 3577c | 0765   | 2244   | 9715    | Sa.1606   | 2      | 3.0   |
| 40274  | Parrot U               | 3563d | 0760   | 2426   | 9672    | Sa.1604   | 2      | 5.0   |
| 40286  | Argelander B           | 3559b | 0863   | 2683   | 9595    | Sa.1632   | 1      | 3.5   |
| 40286A |                        |       | 0834   | 2642   | 9609    | Sa.1625   | 1      | 2.9   |
| 40291  | Albategnius R          | 3582a | 0960   | 2125   | 9724    | Sa.1668   | 2      | 6.6   |
| 40294  | Vogel A                | 3560a | 0950   | 2426   | 9655    | Sa.1662   | 3      | 5.6   |
| 40297  | Argelander C           | 3559c | 0961   | 2798   | 9552    | Sa.1669   | 1      | 2.3   |
| 40298  | Argelander (CP) (3559) | 0974  | 2848   | 9536   | Sa.1673 | 2         | (19.6) |       |
| 40308  | La Caille A            | 3533a | 0071   | 3885   | 9214    | Sa.1378   | 4      | 4.7   |
| 40310  | Parrot L               | 3569a | 0157   | 3097   | 9507    | Sa.1406   | 4      | 4.0   |
| 40318  |                        |       | 0144   | 3831   | 9236    | Sa.1401   | 2      | 2.9   |
| 40325  | La Caille B            | 3535a | 0227   | 3574   | 9337    | Sa.1429   | 3      | 3.8   |
| 40330  | Parrot M               | 3569b | 0327   | 3088   | 9506    | Sa.1466   | 3      | 3.8   |

| Ref.   | Designation     | B&M    | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam.   |
|--------|-----------------|--------|--------|--------|--------|-----------|---|---------|
| 40334  | La Caille G     | 3537   | 0322   | 3499   | 9362   | Sa.1463   | 2 | 6.2     |
| 40337  | Delaunay A      | 3541a  | 0334   | 3742   | 9267   | Sa.1468   | 3 | 3.3     |
| 40342  | Parrot P        | 3569c  | 0490   | 3207   | 9459   | Sa.1514   | 2 | 2.7     |
| 40354  | Donati C        | 3547c  | 0565   | 3409   | 9384   | Sa.1542   | 3 | 4.4     |
| 40356  | Faye A          | 3545a  | 0515   | 3613   | 9310   | Sa.1524   | 2 | 2.2     |
| 40366  | Faye (CP)       | (3545) | 0623   | 3651   | 9289   | Sa.1559   | 3 | (21.2)  |
| #40370 | Argelander D    | 3570   | 0745   | 3028   | 9501   | Sa.1599   | 5 | 6.6     |
| 40373  | Donati A        | 3547a  | 0743   | 3367   | 9387   | Sa.1596   | 3 | 4.9     |
| 40378  | Faye B          | 3545b  | 0730   | 3848   | 9201   | Sa.1592   | 3 | 2.5     |
| 40385  | Donati α        | 3548   | 0839   | 3526   | 9320   | Sa.1626   | 2 | (CP)    |
| 40392  | Airy H          | 3552a  | 0945   | 3207   | 9425   | Sa.1660   | 1 | 5.8     |
| 40394  | Donati B        | 3547b  | 0930   | 3489   | 9325   | Sa.1655   | 2 | 6.3     |
| 40401  | Purbach F       | 3089   | 0001   | 4162   | 9093   | Sa.1350   | 5 | 5.2     |
| 40411  | La Caille H     | 3538   | 0128   | 4191   | 9079   | Sa.1398   | 2 | 3.2     |
| 40413  | Werner F        | 3484a  | 0126   | 4346   | 9006   | Sa.1397   | 1 | 5.8     |
| #40414 | Werner B        | 3484   | 0113   | 4411   | 8974   | Sa.1390   | 4 | 7.9     |
| #40415 | Werner A        | 3483   | 0171   | 4575   | 8890   | Sa.1409   | 3 | 8.8     |
| 40415A | Werner E        | 3483a  | 0116   | 4596   | 8880   | Sa.1393   | 2 | 4.0     |
| 40416  | Werner G        | 3483b  | 0195   | 4632   | 8860   | Sa.1420   | 1 | 5.1x3.0 |
| 40419  | Regiomontanus L | 3104b  | 0157   | 4951   | 8687   | Sa.1405   | 1 | 3.2     |
| 40422  | Blanchinus B    | 3531a  | 0252   | 4255   | 9046   | Sa.1442   | 3 | 4.8     |
| 40430  | La Caille D     | 3535   | 0353   | 4009   | 9154   | Sa.1470   | 6 | 6.8     |
| 40442  |                 | (3531) | 0413   | 4253   | 9041   | Sa.1492   | 4 | 2.8     |
| 40450  | La Caille F     | 3536a  | 0545   | 4002   | 9148   | Sa.1535   | 2 | 4.3     |
| #40455 | Werner D        | 3485a  | 0505   | 4554   | 8888   | Sa.1520   | 2 | (s)     |

| Ref.  | Designation   | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam. |
|-------|---------------|-------|--------|--------|--------|-----------|---|-------|
| 40456 | Werner α      | 3487  | 0540   | 4689   | 8816   | Sa.1534   | 1 | (P)   |
| 40462 | Blanchinus D  | 3532  | 0666   | 4231   | 9037   | Sa.1574   | 2 | 5.4   |
| 40471 | Blanchinus K  | 3532a | 0797   | 4191   | 9044   | Sa.1615   | 3 | 5.1   |
| 40495 | Krusenstern A | 3530a | 0910   | 4530   | 8869   | Sa.1651   | 1 | 4.0   |
| 40497 | Apianus F     | 3514a | 0981   | 4710   | 8767   | Sa.1676   | 3 | 3.2   |
| 40505 | Walter Q      | 3466e | 0041   | 5520   | 8339   | Sa.1366   | 1 | 2.9   |
| 40507 | Walter P      | 3466d | 0035   | 5786   | 8156   | Sa.1363   | 2 | 5.0   |
| 40508 | Walter R      | 3466f | 0049   | 5853   | 8108   | Sa.1369   | 1 | 4.6   |
| 40509 | Walter S      | 3466g | 0094   | 5934   | 8049   | Sa.1384   | 4 | 6.6   |
| 40513 | Walter A      | 3467  | 0116   | 5354   | 8445   | Sa.1392   | 4 | 6.6   |
| 40517 | Nonius C      | 3462a | 0165   | 5796   | 8148   | Sa.1408   | 2 | 4.0   |
| 40525 | Walter T      | 3466h | 0258   | 5505   | 8344   | Sa.1444   | 1 | 5.0   |
| 40528 | Nonius D      | 3462b | 0246   | 5812   | 8134   | Sa.1439   | 1 | 3.4   |
| 40530 | Aliacensis E  | 3498a | 0356   | 5061   | 8618   | Sa.1471   | 4 | 5.1   |
| 40534 | Walter F      | 3472  | 0311   | 5460   | 8372   | Sa.1460   | 2 | 3.2   |
| 40535 | Walter U      | 3466i | 0388   | 5511   | 8336   | Sa.1485   | 1 | 2.6   |
| 40539 | Nonius E      | 3462c | 0375   | 5965   | 8018   | Sa.1479   | 2 | 2.7   |
| 40553 | Aliacensis F  | 3492a | 0570   | 5395   | 8400   | Sa.1544   | 1 | 2.9   |
| 40558 | Nonius F      | 3459a | 0537   | 5861   | 8085   | Sa.1532   | 2 | 4.2   |
| 40564 | Aliacensis G  | 3492b | 0692   | 5498   | 8325   | Sa.1577   | 3 | 4.7   |
| 40570 | Aliacensis α  | 3493  | 0763   | 5067   | 8587   | Fr.1056   | 2 | (CP)  |
| 40577 | Nonius A      | 3460  | 0795   | 5783   | 8119   | Sa.1614   | 4 | 6.2   |
| 40579 | Kaiser B      | 3464b | 0782   | 5957   | 7994   | Sa.1609   | 1 | 3.2   |
| 40582 | Aliacensis H  | 3492c | 0898   | 5269   | 8452   | Sa.1647   | 2 | 3.7   |
| 40586 | Nonius G      | 3460a | 0820   | 5695   | 8179   | Sa.1621   | 2 | 3.3   |

| Ref.   | Designation  | B&M    | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam.  |
|--------|--------------|--------|--------|--------|--------|-----------|---|--------|
| 40592  | Aliacensis K | 3492d  | 0935   | 5207   | 8486   | Sa.1659   | 1 | 3.8    |
| 40610  | Miller B     | 3461a  | 0137   | 6098   | 7925   | Sa.1400   | 1 | 6.8    |
| 40610A |              |        | 0175   | 6031   | 7975   | Sa.1413   | 1 | 2.0    |
| 40613  | Miller (CP)  | (3161) | 0101   | 6335   | 7737   | Sa.1386   | 1 | (34.9) |
| *40618 | Stöfler O    | 3423   | 0161   | 6865   | 7269   | Sa.1407   | 1 | 5.7    |
| 40621  |              | (3461) | 0266   | 6120   | 7904   | Sa.1447   | 1 | 2.1    |
| 40627  | Stöfler R    | 3445a  | 0231   | 6710   | 7411   | Sa.1435   | 3 | 3.8    |
| 40627A |              |        | 0277   | 6778   | 7347   | Sa.1450   | 1 | 2.3    |
| 40629  | Licetus G    | 3420a  | 0244   | 6921   | 7214   | Sa.1438   | 4 | 6.2    |
| 40632  | Miller E     | 3461b  | 0382   | 6275   | 7777   | Sa.1482   | 1 | 3.4    |
| 40639  | Licetus J    | 3422   | 0397   | 6975   | 7155   | Sa.1488   | 2 | 6.6    |
| 40641  | Miller D     | 3461c  | 0419   | 6155   | 7871   | Sa.1494   | 2 | 2.9    |
| 40644  |              |        | 0421   | 6465   | 7617   | Sa.1495   | 1 | 2.4    |
| 40650  | Fernelius B  | 3455a  | 0574   | 6070   | 7927   | Sa.1545   | 1 | 5.1    |
| 40652  | Fernelius C  | 3457   | 0599   | 6273   | 7765   | Sa.1549   | 1 | 3.3    |
| #40653 | Stöfler K    | 3437   | 0566   | 6354   | 7702   | Sa.1543   | 6 | 10.8   |
| #40667 | Stöfler F    | 3434   | 0637   | 6770   | 7332   | Sa.1565   | 5 | 10.1   |
| 40668  |              |        | 0634   | 6870   | 7239   | Sa.1562   | 2 | 2.9    |
| 40679  | Stöfler E    | 3433   | 0731   | 6922   | 7180   | Sa.1593   | 5 | 9.1    |
| 40681  | Fernelius D  | 3455b  | 0846   | 6184   | 7813   | Sa.1629   | 1 | 4.1    |
| 40681A |              |        | 0876   | 6163   | 7827   | Sa.1640   | 2 | 2.8    |
| 40685  |              |        | 0894   | 6589   | 7470   | Sa.1644   | 1 | 2.9    |
| 40686  | Stöfler N    | 3440   | 0865   | 6665   | 7405   | Sa.1633   | 2 | 7.9    |
| 40687  |              |        | 0814   | 6727   | 7355   | Sa.1620   | 1 | 2.8    |
| 40687A |              |        | 0868   | 6742   | 7335   | Sa.1635   | 1 | 2.6    |

| Ref.   | Designation  | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam. |
|--------|--------------|-------|--------|--------|--------|-----------|---|-------|
| 40692  | Fernelius E  | 3455c | 0904   | 6205   | 7790   | Sa.1648   | 1 | 3.3   |
| 40701  | Licetus K    | 3419a | 0007   | 7134   | 7008   | Sa.1354   | 2 | 3.2   |
| 40703  | Saussure D   | 3168  | 0028   | 7307   | 6827   | Sa.1360   | 4 | 11.2  |
| 40706  | Lilius G     | 3400a | 0083   | 7663   | 6425   | Sa.1381   | 1 | 4.0   |
| 40707  | Lilius H     | 3400b | 0089   | 7715   | 6362   | Sa.1383   | 2 | 4.9   |
| 40711  | Licetus F    | 3419  | 0121   | 7192   | 6947   | Sa.1394   | 4 | 18.1  |
| 40713  | Licetus L    | 3419b | 0132   | 7338   | 6793   | Sa.1399   | 1 | 2.9   |
| 40718  | Deluc C      | 3221  | 0101   | 7813   | 6241   | Sa.1385   | 5 | 16.0  |
| 40720  |              |       | 0208   | 7066   | 7074   | Sa.1423   | 4 | 3.7   |
| 40721  | Licetus N    | 3418a | 0276   | 7130   | 7006   | Sa.1449   | 5 | 5.0   |
| 40722  | Licetus M    | 3419c | 0228   | 7283   | 6849   | Sa.1430   | 4 | 5.2   |
| #40731 | Licetus H    | 3421  | 0384   | 7182   | 6948   | Sa.1484   | 6 | 6.0   |
| 40734  | Licetus A    | 3414a | 0382   | 7404   | 6711   | Sa.1483   | 4 | 4.8   |
| 40735  | Lilius N     | 3400c | 0321   | 7549   | 6551   | Sa.1462   | 1 | 2.8   |
| 40740  | Licetus R    | 3421a | 0479   | 7094   | 7032   | Sa.1510   | 1 | 4.0   |
| 40746  |              |       | 0482   | 7613   | 6467   | Sa.1511   | 1 | 2.6   |
| 40749  | Lilius B     | 3396  | 0404   | 7985   | 6007   | Sa.1491   | 5 | 16.8  |
| 40752  | Licetus B    | 3414b | 0587   | 7246   | 6867   | Sa.1547   | 2 | 7.2   |
| 40754  | Licetus D    | 3414d | 0522   | 7426   | 6677   | Sa.1528   | 1 | 3.5   |
| 40755  | Heraclitus A | 3416a | 0528   | 7585   | 6496   | Sa.1530   | 1 | 3.4   |
| 40763  | Licetus C    | 3414c | 0656   | 7360   | 6738   | Sa.1569   | 3 | 5.8   |
| 40769  | Lilius S     | 3394a | 0621   | 7958   | 6024   | Sa.1557   | 4 | 8.1   |
| 40770  | Stöfler S    | 3433a | 0712   | 7048   | 7058   | Sa.1583   | 1 | 4.7   |
| 40770A |              |       | 0736   | 7064   | 7040   | Sa.1595   | 1 | 3.7   |
| 40772  |              |       | 0763   | 7225   | 6871   | Sa.1605   | 1 | 3.4   |

| Ref.    | Designation  | B&M    | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam. |
|---------|--------------|--------|--------|--------|--------|-----------|---|-------|
| 40772A  |              |        | 0790   | 7215   | 6879   | Sa.1613   | 1 | 2.7   |
| 40775   | Heraclitus C | 3416b  | 0721   | 7521   | 6551   | Sa.1587   | 1 | 4.6   |
| 40775A  |              |        | 0745   | 7586   | 6472   | Sa.1600   | 2 | 2.8   |
| 40776   | Heraclitus E | 3415a  | 0747   | 7616   | 6437   | Sa.1601   | 1 | 4.0   |
| 40781   | Licetus T    | 3414e  | 0808   | 7168   | 6926   | Sa.1619   | 2 | 4.7   |
| 40782   | Licetus U    | 3414f  | 0886   | 7297   | 6780   | Sa.1642   | 2 | 3.9   |
| 40787   | Cuvier G     | 3408a  | 0830   | 7749   | 6267   | Sa.1623   | 3 | 4.6   |
| 40788   | Cuvier D     | 3408   | 0850   | 7811   | 6187   | Sa.1631   | 2 | 9.9   |
| 40795   | Cuvier H     | 3404a  | 0980   | 7508   | 6533   | Sa.1675   | 4 | 6.0   |
| 40795A  | Cuvier J     | 3404b  | 0998   | 7575   | 6452   | Sa.1680   | 1 | 3.6   |
| 40801   |              | (3219) | 0022   | 8106   | 5857   | Sa.1356   | 2 | 8.0   |
| 40804   | Deluc Y      | 3274a  | 0001   | 8416   | 5402   | Sa.1351   | 2 | (P)   |
| 40805   | Zach G       | 3387a  | 0051   | 8516   | 5242   | Sa.1370   | 1 | 3.1   |
| 40807   | Deluc N      | 3230   | 0044   | 8707   | 4919   | Sa.1367   | 3 | 5.8   |
| #40807A | Deluc G      | 3225   | 0063   | 8780   | 4787   | Sa.1374   | 5 | 15.3  |
| 40808   | Deluc S      | 3225b  | 0025   | 8823   | 4707   | Sa.1358   | 3 | 3.6   |
| 40809   | Cysatus J    | 3270a  | 0059   | 8910   | 4541   | Sa.1373   | 3 | 6.0   |
| 40812   |              |        | 0150   | 8255   | 5643   | Sa.1404   | 1 | 2.2   |
| 40813   | Lilius J     | 3397a  | 0173   | 8319   | 5547   | Sa.1411   | 4 | 7.2   |
| 40815   | Zach C       | 3387   | 0115   | 8530   | 5218   | Sa.1391   | 2 | 7.7   |
| 40818   | Deluc V      | 3225c  | 0145   | 8810   | 4729   | Sa.1402   | 2 | 5.1   |
| *40818A |              |        | 0121   | 8860   | 4636   | Sa.1395   | 1 | 1.9   |
| 40818B  |              |        | 0102   | 8852   | 4651   | Sa.1388   | 1 | 2.2   |
| 40820   | Lilius K     | 3397b  | 0229   | 8043   | 5938   | Sa.1432   | 6 | 12.9  |

| Ref.   | Designation | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam. |
|--------|-------------|-------|--------|--------|--------|-----------|---|-------|
| 40821  | Lilius L    | 3397c | 0248   | 8175   | 5754   | Sa.1440   | 1 | 3.7   |
| 40823  | Lilius M    | 3397d | 0283   | 8310   | 5556   | Sa.1453   | 1 | 6.1   |
| 40825  | Zach H      | 3386a | 0267   | 8580   | 5130   | Sa.1448   | 2 | 3.8   |
| 40826  | Zach F      | 3390  | 0297   | 8664   | 4984   | Sa.1456   | 2 | 15.0  |
| 40828  |             |       | 0229   | 8805   | 4736   | Sa.1431   | 1 | 2.8   |
| 40832  | Lilius O    | 3397e | 0358   | 8233   | 5664   | Sa.1472   | 3 | 3.7   |
| 40832A | Lilius P    | 3397f | 0376   | 8283   | 5591   | Sa.1480   | 1 | 2.3   |
| 40839  | Curtius B   | 3357  | 0365   | 8959   | 4427   | Sa.1474   | 5 | 23.7  |
| 40840  |             |       | 0451   | 8034   | 5938   | Sa.1505   | 2 | 4.4   |
| 40841  | Lilius R    | 3397g | 0443   | 8155   | 5770   | Sa.1503   | 3 | 5.2   |
| 40844  | Zach J      | 3386b | 0446   | 8414   | 5386   | Sa.1504   | 5 | 6.2   |
| 40844A |             |       | 0484   | 8475   | 5286   | Sa.1512   | 1 | 3.0   |
| 40854  | Zach K      | 3389a | 0583   | 8428   | 5351   | Sa.1546   | 2 | 5.3   |
| #40861 | Lilius α    | 3401  | 0621   | 8139   | 5777   | Sa.1558   | 3 | (CP)  |
| 40864  | Zach L      | 3389b | 0635   | 8476   | 5268   | Sa.1563   | 3 | 9.2   |
| 40864A | Zach M      | 3389c | 0659   | 8402   | 5383   | Sa.1571   | 1 | 2.8   |
| 40868  | Zach D      | 3388  | 0647   | 8834   | 4641   | Sa.1567   | 4 | 16.8  |
| 40870  | Lilius U    | 3394c | 0790   | 8041   | 5892   | Sa.1612   | 3 | 4.9   |
| 40872  | Lilius T    | 3394b | 0728   | 8281   | 5559   | Sa.1591   | 2 | 3.0   |
| 40874  |             |       | 0704   | 8441   | 5316   | Sa.1580   | 2 | 2.5   |
| 40880  | Lilius W    | 3394d | 0865   | 8062   | 5853   | Sa.1634   | 2 | 5.1   |
| 40880A |             |       | 0822   | 8080   | 5834   | Sa.1622   | 2 | 3.2   |
| 40882  | Lilius A    | 3395  | 0871   | 8226   | 5620   | Sa.1639   | 5 | 23.5  |
| 40884  |             |       | 0850   | 8474   | 5242   | Sa.1630   | 1 | 3.3   |
| 40887  | Jacobi D    | 3378a | 0896   | 8732   | 4791   | Sa.1646   | 2 | 11.9  |

| Ref.   | Designation   | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam. |
|--------|---------------|-------|--------|--------|--------|-----------|---|-------|
| 40890  |               |       | 0953   | 8043   | 5866   | Sa.1665   | 2 | 2.7   |
| 40891  |               |       | 0950   | 8100   | 5786   | Sa.1663   | 2 | 2.5   |
| 40892  |               |       | 0931   | 8262   | 5556   | Sa.1656   | 2 | 4.4   |
| #40894 | Jacobi J      | 3381a | 0955   | 8470   | 5230   | Sa.1666   | 5 | 11.0  |
| 40895  | Jacobi H      | 3381b | 0962   | 8529   | 5131   | Sa.1670   | 1 | 5.0   |
| 40896  | Jacobi C      | 3378  | 0919   | 8639   | 4953   | Sa.1652   | 4 | 20.1  |
| 40897  |               |       | 0929   | 8797   | 4664   | Sa.1654   | 2 | 4.6   |
| #40898 | Pentland F    | 3366a | 0925   | 8833   | 4597   | Sa.1653   | 5 | 7.1   |
| 40901  | Cysatus H     | 3272b | 0005   | 9190   | 3942   | Sa.1352   | 2 | 4.8   |
| 40901A |               |       | 0056   | 9140   | 4056   | Sa.1372   | 1 | 3.8   |
| 40911  | Curtius F     | 3356a | 0189   | 9173   | 3977   | Sa.1419   | 2 | 3.4   |
| #40913 | Curtius A     | 3356  | 0172   | 9302   | 3666   | Sa.1410   | 3 | 7.1   |
| 40917  | Schomberger H | 3338c | 0151   | 9762   | 2165   | Fr.1179   | 2 | 9.8   |
| 40921  | Curtius G     | 3356b | 0222   | 9131   | 4072   | Sa.1424   | 1 | 3.2   |
| 40921A | Curtius θ     | 3361a | 0287   | 9185   | 3944   | Sa.1454   | 1 | (P)   |
| #40923 | Curtius C     | 3357a | 0280   | 9357   | 3516   | Sa.1451   | 2 | 5.9   |
| 40926  | Schomberger N | 3338e | 0224   | 9681   | 2497   | Sa.1425   | 1 | 4.4   |
| #40928 | Malapert K    | 3324b | 0226   | 9812   | 1915   | Sa.1428   | 3 | 20.9  |
| 40928A | Malapert C    | 3324a | 0269   | 9888   | 1468   | Fr.1182   | 1 | 22.7  |
| 40934  | Simpelius L   | 3346a | 0390   | 9425   | 3321   | Sa.1486   | 1 | 9.0   |
| #40937 | Schomberger G | 3338b | 0306   | 9748   | 2210   | Sa.1458   | 1 | 9.9   |
| 40937A | Simpelius J   | 3344a | 0351   | 9710   | 2365   | Fr.1180   | 3 | 10.0  |
| 40939  | Malapert E    | 3324c | 0362   | 9954   | 0887   | Sa.1473   | 1 | 10.0  |
| 40940  |               |       | 0415   | 9022   | 4293   | Sa.1493   | 1 | 2.5   |
| 40944  | Simpelius D   | 3346  | 0473   | 9493   | 3109   | Sa.1508   | 2 | 31.2  |

| Ref.   | Designation    | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam. |
|--------|----------------|-------|--------|--------|--------|-----------|---|-------|
| 40948  | Schomberger K  | 3336a | 0439   | 9839   | 1733   | Fr.1177   | 1 | 8.4   |
| 40948A | Schomberger L  | 3336b | 0490   | 9875   | 1498   | Fr.1183   | 2 | 8.3   |
| 40953  | Curtius H      | 3356c | 0500   | 9355   | 3498   | Sa.1517   | 2 | 5.6   |
| 40961  | Curtius M      | 3356f | 0620   | 9100   | 4100   | Sa.1555   | 1 | 3.0   |
| 40962  | Curtius L      | 3356e | 0616   | 9291   | 3648   | Sa.1553   | 2 | 3.8   |
| 40963  | Curtius K      | 3356d | 0609   | 9343   | 3513   | Sa.1552   | 2 | 3.4   |
| 40968  | Schomberger F  | 3338a | 0607   | 9851   | 1610   | Sa.1551   | 1 | 5.2   |
| 40968A | Schomberger J  | 3334a | 0648   | 9814   | 1808   | Sa.1568   | 1 | 5.2   |
| 40969  | Schomberger M  | 3338d | 0640   | 9952   | 0737   | Fr.1184   | 1 | 10.4  |
| 40975  | Simpelius      | 3342  | 0767   | 9557   | 2841   | Sa.1607   | 2 | 40.5  |
| #40976 | Simpelius K    | 3351  | 0714   | 9648   | 2532   | Sa.1585   | 2 | 13.1  |
| 40980  | Pentland α     | 3367  | 0831   | 9021   | 4235   | Sa.1624   | 2 | (F)   |
| #40982 | Pentland E     | 3363a | 0870   | 9275   | 3637   | Sa.1637   | 4 | 6.4   |
| 40982A | Pentland A     | 3363  | 0895   | 9226   | 3754   | Sa.1645   | 3 | 25.0  |
| #40988 | Schomberger A  | 3334  | 0803   | 9805   | 1796   | Sa.1616   | 2 | 17.8  |
| 40988A | Schomberger E  | 3338  | 0899   | 9879   | 1262   | Fr.1176   | 2 | 17.1  |
| 40991  | Pentland B     | 3364  | 0983   | 9151   | 3911   | Sa.1677   | 3 | 17.3  |
| 40992  | Pentland P     | 3363b | 0949   | 9254   | 3670   | Sa.1661   | 2 | 4.5   |
| 40994  | Simpelius A    | 3343  | 0967   | 9400   | 3273   | Sa.1672   | 2 | 34.7  |
| 40994A | Simpelius M    | 3343a | 0953   | 9422   | 3212   | Sa.1664   | 1 | 4.0   |
| #40997 | Schomberger    | 3333  | 0974   | 9734   | 2075   | Sa.1674   | 2 | 49.1  |
| 41000  | Rhaeticus E    | 835b  | 1040   | 0018   | 9946   | Sa.1702   | 2 | 2.9   |
| 41006  | Horrocks       | 3637  | 1020   | 0694   | 9924   | Sa.1687   | 3 | 17.6  |
| 41008  |                |       | 1038   | 0877   | 9907   | Sa.1700   | 1 | 2.0   |
| 41022  | E. Pickering A | 3607a | 1231   | 0274   | 9920   | Sa.1755   | 3 | 2.8   |

| Ref.    | Designation    | B&M   | $\xi$<br>+ | $\eta$<br>- | $\zeta$<br>+ | Authority | M | Diam. |
|---------|----------------|-------|------------|-------------|--------------|-----------|---|-------|
| 41023   | E. Pickering B | 3607b | 1290       | 0365        | 9910         | Sa.1773   | 3 | 3.3   |
| #41025  | E. Pickering   | 3607  | 1221       | 0500        | 9913         | Sa.1753   | 5 | 9.2   |
| #41028  | Hipparchus G   | 3609  | 1289       | 0875        | 9878         | Sa.1772   | 6 | 8.4   |
| 41037   | Horrocks M     | 3615  | 1326       | 0707        | 9887         | Sa.1787   | 4 | 3.1   |
| 41038   | Hipparchus W   | 3609a | 1346       | 0885        | 9870         | Sa.1796   | 1 | 2.9   |
| #41061  | Lade M         | 3614  | 1637       | 0190        | 9863         | Sa.1897   | 5 | 6.1   |
| 41064   |                |       | 1696       | 0414        | 9846         | Sa.1922   | 1 | 2.0   |
| 41076   | Saunder B      | 3621b | 1705       | 0682        | 9830         | Sa.1928   | 3 | 3.4   |
| 41084   | Saunder C      | 3621c | 1827       | 0480        | 9820         | Sa.1964   | 1 | 2.0   |
| 41109   | Albategnius J  | 3586  | 1064       | 1929        | 9755         | Sa.1707   | 2 | 3.7   |
| 41117   | Halley C       | 3595a | 1143       | 1715        | 9785         | Sa.1730   | 2 | 2.8   |
| 41123   | Hind           | 3601  | 1267       | 1377        | 9823         | Sa.1765   | 4 | 16.8  |
| 41125   | Hind C         | 3603  | 1287       | 1513        | 9801         | Sa.1771   | 3 | 4.2   |
| 41138   |                |       | 1316       | 1823        | 9744         | Sa.1781   | 2 | 2.1   |
| 41139   | Ritchey A      | 3580a | 1326       | 1964        | 9715         | Sa.1786   | 2 | 3.1   |
| #41142  | Hipparchus C   | 3606  | 1423       | 1287        | 9814         | Sa.1823   | 5 | 9.7   |
| *#41151 | Hipparchus L   | 3613  | 1558       | 1193        | 9806         | Sa.1874   | 5 | 7.7   |
| 41154   | Hipparchus Z   | 3606a | 1563       | 1487        | 9765         | Sa.1877   | 2 | 3.9   |
| 41157   | Ritchey D      | 3580d | 1581       | 1779        | 9713         | Sa.1883   | 3 | 3.8   |
| 41158   | Ritchey C      | 3580c | 1572       | 1897        | 9692         | Sa.1881   | 3 | 3.3   |
| 41172   | Anděl B        | 3728a | 1720       | 1276        | 9768         | Sa.1933   | 1 | 4.3   |
| 41190   | Anděl K        | 3725c | 1999       | 1013        | 9746         | Sa.2013   | 1 | 2.3   |
| 41191   | Anděl H        | 3725a | 1953       | 1159        | 9739         | Sa.1996   | 4 | 3.4   |
| 41193   | Anděl J        | 3725b | 1967       | 1311        | 9717         | Sa.1999   | 3 | 3.6   |
| #41194  | Anděl F        | 3728  | 1906       | 1449        | 9709         | Sa.1985   | 5 | 5.6   |

| Ref.   | Designation   | B&M   | $\xi$<br>+ | $\eta$<br>- | $\zeta$<br>+ | Authority | M | Diam. |
|--------|---------------|-------|------------|-------------|--------------|-----------|---|-------|
| 41195  | Anděl C       | 3729a | 1912       | 1567        | 9690         | Sa.1988   | 1 | 2.0   |
| 41198  | Anděl A       | 3723  | 1919       | 1873        | 9634         | Sa.1989   | 3 | 8.1   |
| 41200  | Albategnius L | 3582d | 1079       | 2091        | 9719         | Sa.1712   | 2 | 4.0   |
| 41201  | Albategnius T | 3582c | 1037       | 2189        | 9702         | Sa.1698   | 1 | 5.7   |
| 41202  | Albategnius E | 3582  | 1090       | 2239        | 9685         | Sa.1713   | 4 | 7.9   |
| 41203  | Albategnius S | 3582b | 1030       | 2304        | 9676         | Sa.1694   | 2 | 3.6   |
| 41214  | Burnham F     | 3561  | 1165       | 2476        | 9618         | Sa.1735   | 3 | 4.9   |
| 41215  | Burnham A     | 3561a | 1190       | 2549        | 9596         | Sa.1741   | 2 | 3.9   |
| 41218  | Argelander A  | 3559a | 1132       | 2842        | 9521         | Sa.1728   | 4 | 5.3   |
| 41226  | Burnham B     | 3561b | 1216       | 2642        | 9568         | Sa.1749   | 1 | 2.0   |
| #41229 | Airy A        | 3550  | 1279       | 2927        | 9476         | Sa.1769   | 4 | 7.4   |
| 41238  | Airy O        | 3550a | 1397       | 2879        | 9474         | Sa.1814   | 2 | 2.8   |
| 41247  | Airy P        | 3550b | 1403       | 2736        | 9516         | Sa.1815   | 4 | 4.4   |
| 41250  | Ritchey B     | 3580b | 1525       | 2073        | 9663         | Sa.1864   | 3 | 3.7   |
| 41252  | Abulfeda G    | 3740a | 1517       | 2261        | 9622         | Sa.1861   | 1 | 3.8   |
| 41259  | Airy S        | 3551b | 1565       | 2968        | 9420         | Sa.1878   | 3 | 3.0   |
| 41263  | Abulfeda H    | 3740b | 1615       | 2386        | 9576         | Sa.1891   | 1 | 2.9   |
| 41266  | Abulfeda J    | 3736a | 1685       | 2666        | 9490         | Sa.1915   | 2 | 2.6   |
| 41266A |               |       | 1674       | 2613        | 9506         | Sa.1912   | 1 | 2.5   |
| 41267  |               |       | 1689       | 2730        | 9471         | Sa.1919   | 1 | 2.9   |
| #41268 | Abulfeda E    | 3741  | 1692       | 2882        | 9425         | Sa.1920   | 4 | 3.2   |
| 41269  |               |       | 1667       | 2904        | 9423         | Sa.1907   | 2 | 3.2   |
| 41275  | Abulfeda K    | 3743a | 1784       | 2571        | 9498         | Sa.1953   | 1 | 5.7   |
| 41275A |               |       | 1738       | 2575        | 9505         | Sa.1938   | 3 | 4.9   |
| #41278 | Abulfeda A    | 3736  | 1797       | 2826        | 9423         | Sa.1955   | 5 | 8.0   |



| Ref.   | Designation | B&M    | $\xi$<br>+ | $\eta$<br>- | $\zeta$<br>+ | Authority | M | Diam. |
|--------|-------------|--------|------------|-------------|--------------|-----------|---|-------|
| 41281  |             |        | 1830       | 2165        | 9590         | Sa.1967   | 1 | 2.0   |
| 41282  | Abulfeda C  | 3739   | 1838       | 2212        | 9577         | Sa.1969   | 2 | 9.9   |
| 41284  | Abulfeda L  | 3740c  | 1804       | 2431        | 9531         | Sa.1958   | 1 | 3.0   |
| 41284A |             |        | 1822       | 2458        | 9521         | Sa.1963   | 1 | 2.1   |
| 41285  |             |        | 1833       | 2576        | 9487         | Sa.1968   | 2 | 3.1   |
| 41286  | Abulfeda O  | 3743b  | 1873       | 2662        | 9456         | Sa.1978   | 3 | 3.8   |
| 41296  | Abulfeda P  | 3743c  | 1938       | 2670        | 9440         | Sa.1991   | 3 | 2.8   |
| 41302  | Airy J      | 3549a  | 1008       | 3260        | 9400         | Sa.1683   | 3 | 2.5   |
| 41321  | Airy F      | 3554a  | 1205       | 3122        | 9423         | Sa.1745   | 3 | 2.9   |
| 41322  | Airy M      | 3554b  | 1251       | 3275        | 9365         | Sa.1757   | 3 | (s)   |
| 41324  | Airy L      | 3553a  | 1235       | 3493        | 9288         | Sa.1756   | 4 | 4.0   |
| 41329  | Playfair B  | 3524a  | 1219       | 3940        | 9110         | Sa.1752   | 3 | 3.4   |
| *41330 | Airy N      | 3551a  | 1360       | 3062        | 9422         | Sa.1799   | 1 | 4.4   |
| 41333  |             |        | 1330       | 3353        | 9327         | Sa.1789   | 1 | 2.7   |
| 41337  | Playfair F  | 3524e  | 1310       | 3727        | 9187         | Sa.1779   | 1 | 2.9   |
| 41339  |             | (3523) | 1361       | 3965        | 9079         | Sa.1800   | 2 | 2.0   |
| 41342  |             |        | 1465       | 3245        | 9345         | Sa.1844   | 1 | 2.4   |
| 41343  | Airy R      | 3554c  | 1444       | 3352        | 9310         | Sa.1837   | 3 | 3.9   |
| 41347  | Playfair E  | 3524d  | 1440       | 3708        | 9175         | Sa.1834   | 3 | 3.6   |
| 41350  |             |        | 1522       | 3004        | 9416         | Sa.1863   | 2 | 2.6   |
| 41357  | Abenezra D  | 3780d  | 1562       | 3704        | 9157         | Sa.1875   | 3 | 4.1   |
| #41365 | Abenezra B  | 3780   | 1638       | 3552        | 9203         | Sa.1899   | 5 | 8.0   |
| 41366  | Abenezra F  | 3780e  | 1677       | 3675        | 9148         | Sa.1913   | 3 | 3.8   |
| 41368  | Abenezra A  | 3779   | 1676       | 3876        | 9065         | Fr. 111   | 5 | 13.4  |
| 41370  |             |        | 1750       | 3027        | 9369         | Sa.1943   | 2 | 3.0   |

| Ref.   | Designation      | B&M   | $\xi$<br>+ | $\eta$<br>- | $\zeta$<br>+ | Authority | M | Diam. |
|--------|------------------|-------|------------|-------------|--------------|-----------|---|-------|
| 41370A |                  |       | 1705       | 3040        | 9373         | Sa.1927   | 1 | 2.1   |
| 41374  |                  |       | 1749       | 3404        | 9239         | Sa.1942   | 2 | 2.6   |
| 41375  | Abenezra G       | 3780f | 1793       | 3503        | 9193         | Sa.1954   | 3 | 2.9   |
| 41377  |                  |       | 1703       | 3733        | 9120         | Sa.1924   | 1 | 2.0   |
| 41392  | Geber D          | 3774a | 1944       | 3297        | 9239         | Sa.1993   | 2 | 2.8   |
| 41417  | Apianus G        | 3513a | 1180       | 4711        | 8741         | Sa.1737   | 2 | 2.9   |
| 41419  | Aliacensis A     | 3497  | 1127       | 4952        | 8614         | Sa.1724   | 1 | 7.9   |
| 41421  | Playfair C       | 3524b | 1261       | 4118        | 9025         | Sa.1761   | 3 | 3.0   |
| 41428  | Apianus E        | 3518  | 1254       | 4820        | 8672         | Sa.1758   | 3 | 5.0   |
| 41428A |                  |       | 1214       | 4823        | 8676         | Sa.1747   | 1 | 2.3   |
| 41434  | Apianus J        | 3513b | 1337       | 4431        | 8864         | Sa.1794   | 1 | 3.9   |
| 41436  | Apianus B        | 3515  | 1393       | 4600        | 8769         | Sa.1813   | 5 | 6.0   |
| 41437  | Apianus H        | 3515a | 1335       | 4712        | 8719         | Sa.1790   | 1 | 4.0   |
| 41439  | Poisson A        | 3502  | 1385       | 4957        | 8574         | Sa.1810   | 4 | 9.9   |
| 41446  | Apianus K        | 3515b | 1444       | 4612        | 8755         | Sa.1836   | 1 | 3.4   |
| 41458  |                  |       | 1514       | 4827        | 8626         | Sa.1860   | 1 | 2.1   |
| 41461  | Apianus M        | 3517a | 1627       | 4188        | 8934         | Sa.1895   | 3 | 4.0   |
| #41467 | Apianus C        | 3516  | 1608       | 4714        | 8672         | Sa.1890   | 5 | 11.7  |
| 41468  | Apianus L        | 3516a | 1651       | 4864        | 8580         | Sa.1901   | 3 | 2.9   |
| #41476 | Pontanus F       | 3815  | 1780       | 4675        | 8659         | Sa.1950   | 5 | 5.9   |
| 41479  | Poisson S        | 3501c | 1723       | 4998        | 8489         | Sa.1935   | 1 | 2.4   |
| 41487  | Pontanus Z       | 3815a | 1868       | 4717        | 8618         | Sa.1977   | 1 | (s)   |
| 41487A | Pontanus $\beta$ | 3818a | 1829       | 4779        | 8591         | Sa.1966   | 1 | (P)   |
| 41488  |                  |       | 1862       | 4855        | 8542         | Sa.1976   | 2 | 3.0   |
| 41493  | Pontanus K       | 3813a | 1980       | 4345        | 8787         | Sa.2007   | 4 | 5.5   |

| Ref.   | Designation           | B&M   | $\xi$ <sub>+</sub> | $\eta$ <sub>-</sub> | $\zeta$ <sub>+</sub> | Authority | M | Diam. |
|--------|-----------------------|-------|--------------------|---------------------|----------------------|-----------|---|-------|
| 41504  | Aliacensis D          | 3499  | 1002               | 5468                | 8313                 | Sa.1682   | 4 | 5.7   |
| 41507  | Kaiser E              | 3464c | 1024               | 5722                | 8137                 | Sa.1691   | 2 | 3.8   |
| 41509  | Kaiser A              | 3464a | 1024               | 5923                | 7992                 | Sa.1690   | 3 | 7.9   |
| 41515  | Poisson M             | 3507a | 1106               | 5580                | 8224                 | Sa.1719   | 3 | 4.1   |
| 41520  | Poisson R             | 3502a | 1271               | 5000                | 8566                 | Sa.1766   | 1 | 3.0   |
| 41520A |                       |       | 1273               | 5086                | 8515                 | Sa.1768   | 2 | 2.9   |
| 41521  | Poisson N             | 3501a | 1262               | 5111                | 8502                 | Sa.1762   | 1 | 2.3   |
| 41532  | Poisson P             | 3501b | 1309               | 5283                | 8389                 | Sa.1778   | 3 | 4.0   |
| 41537  | Poisson O             | 3506a | 1306               | 5737                | 8086                 | Sa.1777   | 2 | 2.5   |
| #41539 | Kaiser C              | 3463  | 1352               | 5954                | 7920                 | Sa.1797   | 4 | 7.2   |
| #41544 | Poisson K             | 3509a | 1404               | 5402                | 8297                 | Sa.1816   | 4 | 7.6   |
| 41548  | Gemma Frisius F       | 3823a | 1455               | 5849                | 7979                 | Sa.1841   | 3 | 5.1   |
| 41569  | Gemma Frisius EA      | 3824b | 1672               | 5975                | 7842                 | Sa.1910   | 3 | 7.7   |
| 41576  | Gemma Frisius M       | 3819b | 1784               | 5626                | 8073                 | Sa.1952   | 3 | 2.8   |
| 41582  | Gemma Frisius P       | 3819d | 1884               | 5261                | 8293                 | Sa.1983   | 1 | 2.6   |
| 41583  | Gemma Frisius O       | 3819c | 1879               | 5383                | 8216                 | Sa.1981   | 1 | 3.2   |
| 41586  | Gemma Frisius $\beta$ | 3830  | 1858               | 5622                | 8059                 | Sa.1974   | 1 | (P)   |
| 41590  | Pontanus J            | 3809a | 1969               | 5013                | 8426                 | Sa.2000   | 3 | 5.1   |
| 41594  | Goodacre A            | 3825a | 1960               | 5424                | 8170                 | Sa.1998   | 1 | 5.9   |
| 41600  | Kaiser D              | 3464d | 1028               | 6022                | 7917                 | Sa.1693   | 1 | 2.6   |
| 41605  | Stöfler M             | 3439  | 1065               | 6552                | 7479                 | Sa.1708   | 2 | 5.0   |
| 41613  | Stöfler T             | 3438a | 1101               | 6378                | 7623                 | Sa.1718   | 1 | 3.0   |
| 41624  | Stöfler U             | 3439a | 1281               | 6446                | 7537                 | Sa.1770   | 2 | 3.8   |
| 41629  | Faraday D             | 3432  | 1214               | 6911                | 7125                 | Sa.1748   | 4 | 7.8   |
| 41632  | Maurolycus E          | 3848a | 1326               | 6206                | 7729                 | Sa.1788   | 2 | 3.5   |

| Ref.   | Designation      | B&M   | $\xi$ <sub>+</sub> | $\eta$ <sub>-</sub> | $\zeta$ <sub>+</sub> | Authority | M | Diam. |
|--------|------------------|-------|--------------------|---------------------|----------------------|-----------|---|-------|
| 41632A |                  |       | 1366               | 6273                | 7668                 | Sa.1802   | 2 | 2.6   |
| 41637  | Faraday K        | 3451a | 1324               | 6776                | 7234                 | Sa.1785   | 3 | 3.5   |
| 41641  | Maurolycus H     | 3849a | 1420               | 6188                | 7726                 | Sa.1822   | 2 | 4.2   |
| 41642  | Maurolycus C     | 3849  | 1463               | 6247                | 7670                 | Sa.1843   | 3 | 5.0   |
| 41642A |                  |       | 1497               | 6297                | 7623                 | Sa.1855   | 2 | 2.8   |
| 41642B |                  |       | 1488               | 6202                | 7702                 | Sa.1852   | 1 | 2.7   |
| 41642C |                  |       | 1432               | 6287                | 7644                 | Sa.1828   | 1 | 2.3   |
| 41645  | Maurolycus T     | 3854a | 1492               | 6597                | 7366                 | Sa.1853   | 2 | 5.9   |
| 41650  | Gemma Frisius K  | 3824a | 1510               | 6082                | 7793                 | Sa.1858   | 5 | 6.0   |
| 41652  |                  |       | 1542               | 6241                | 7660                 | Sa.1869   | 1 | 2.7   |
| #41654 | Maurolycus B     | 3848  | 1557               | 6465                | 7469                 | Sa.1873   | 4 | 7.0   |
| 41664  | Maurolycus K     | 3854b | 1693               | 6428                | 7471                 | Sa.1921   | 1 | 5.5   |
| 41670  | Gemma Frisius E  | 3824  | 1761               | 6054                | 7762                 | Sa.1945   | 3 | 11.3  |
| 41671  | Maurolycus P     | 3850a | 1738               | 6170                | 7676                 | Sa.1939   | 1 | 3.2   |
| 41672  |                  |       | 1747               | 6220                | 7633                 | Sa.1941   | 1 | 3.1   |
| 41672A |                  |       | 1764               | 6245                | 7608                 | Sa.1946   | 2 | 2.7   |
| 41677  | Maurolycus J     | 3852  | 1776               | 6744                | 7167                 | Sa.1948   | 3 | 5.2   |
| #41678 | Maurolycus A     | 3847  | 1778               | 6874                | 7042                 | Sa.1949   | 3 | 9.2   |
| 41680  | Gemma Frisius EB | 3824c | 1845               | 6011                | 7776                 | Sa.1970   | 4 | 8.4   |
| 41685  | Maurolycus N     | 3854  | 1829               | 6551                | 7331                 | Sa.1965   | 1 | 4.3   |
| 41686  | Maurolycus L     | 3854c | 1853               | 6687                | 7201                 | Sa.1972   | 2 | 3.2   |
| 41700  | Licetus S        | 3414g | 1010               | 7097                | 6973                 | Sa.1684   | 2 | 6.4   |
| 41701  | Licetus W        | 3414h | 1034               | 7183                | 6880                 | Sa.1695   | 1 | 4.3   |
| 41705  |                  |       | 1061               | 7552                | 6469                 | Sa.1706   | 2 | 4.5   |
| 41708  | Cuvier K         | 3404c | 1066               | 7896                | 6043                 | Sa.1709   | 2 | 4.8   |

| Ref.    | Designation  | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam. |
|---------|--------------|-------|--------|--------|--------|-----------|---|-------|
| 41713   | Licetus Q    | 3414i | 1147   | 7335   | 6699   | Sa.1731   | 2 | 4.7   |
| 41715   | Cuvier L     | 3404d | 1118   | 7531   | 6483   | Sa.1721   | 1 | 7.4   |
| 41718   | Cuvier F     | 3410  | 1191   | 7899   | 6016   | Sa.1743   | 3 | 9.2   |
| 41720   | Faraday H    | 3435a | 1264   | 7075   | 6953   | Sa.1763   | 3 | 8.0   |
| 41721   | Faraday G    | 3435  | 1222   | 7179   | 6853   | Sa.1754   | 5 | 17.7  |
| 41728   | Cuvier O     | 3404e | 1298   | 7844   | 6065   | Sa.1774   | 1 | 5.8   |
| 41729   | Cuvier A     | 3405  | 1266   | 7922   | 5970   | Sa.1764   | 2 | 10.4  |
| 41731   |              |       | 1385   | 7152   | 6851   | Sa.1809   | 2 | 4.0   |
| 41733   | Clairaut G   | 3886  | 1376   | 7337   | 6654   | Sa.1805   | 2 | 3.6   |
| 41735   | Clairaut H   | 3880a | 1382   | 7555   | 6404   | Sa.1808   | 2 | 5.0   |
| 41735A  |              |       | 1337   | 7550   | 6420   | Sa.1793   | 2 | 5.0   |
| 41736   | Cuvier C     | 3407  | 1314   | 7652   | 6302   | Sa.1780   | 5 | 5.0   |
| 41736A  |              |       | 1386   | 7610   | 6338   | Sa.1811   | 1 | 2.6   |
| 41739   | Cuvier E     | 3409  | 1366   | 7914   | 5959   | Sa.1803   | 5 | 11.0  |
| 41740   | Maurolycus G | 3846a | 1430   | 7004   | 6993   | Sa.1827   | 2 | 4.3   |
| 41746   | Cuvier P     | 3407a | 1414   | 7664   | 6266   | Sa.1820   | 2 | 6.4   |
| 41747   | Cuvier R     | 3406a | 1434   | 7771   | 6129   | Sa.1829   | 1 | 3.9   |
| #41748  | Cuvier B     | 3406  | 1485   | 7836   | 6033   | Sa.1851   | 5 | 9.8   |
| 41751   | Clairaut J   | 3884a | 1544   | 7161   | 6807   | Sa.1870   | 1 | 7.9   |
| #41754  | Clairaut C   | 3881  | 1549   | 7432   | 6509   | Sa.1871   | 5 | 9.5   |
| 41756   | Clairaut K   | 3878a | 1557   | 7627   | 6278   | Sa.1872   | 1 | 7.2   |
| 41757   |              |       | 1596   | 7702   | 6175   | Sa.1886   | 1 | 2.6   |
| 41762   | Clairaut M   | 3877a | 1653   | 7218   | 6720   | Sa.1902   | 2 | 3.7   |
| 41767   | Baco C       | 3888a | 1607   | 7749   | 6113   | Sa.1889   | 1 | 7.8   |
| *41767A |              |       | 1661   | 7758   | 6088   | Sa.1904   | 1 | 3.6   |

| Ref.    | Designation | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam. |
|---------|-------------|-------|--------|--------|--------|-----------|---|-------|
| *41767B |             |       | 1657   | 7731   | 6123   | Sa.1903   | 1 | 2.8   |
| 41768   |             |       | 1673   | 7816   | 6009   | Sa.1911   | 1 | 2.6   |
| 41770   |             |       | 1773   | 7022   | 6896   | Sa.1947   | 1 | 3.7   |
| 41778   | Baco D      | 3888b | 1746   | 7838   | 5959   | Sa.1940   | 2 | 4.7   |
| 41785   | Baco L      | 3879a | 1873   | 7598   | 6227   | Sa.1979   | 2 | 4.2   |
| 41786   | Baco B      | 3879  | 1857   | 7614   | 6212   | Sa.1973   | 2 | 24.4  |
| 41790   |             |       | 1969   | 7017   | 6848   | Sa.2001   | 1 | 2.9   |
| 41795   |             |       | 1975   | 7545   | 6258   | Sa.2004   | 1 | 2.7   |
| 41795A  |             |       | 1985   | 7575   | 6219   | Sa.2009   | 1 | 2.9   |
| 41796   | Baco F      | 3888c | 1941   | 7695   | 6085   | Sa.1992   | 1 | 3.4   |
| 41800   | Lilius X    | 3394e | 1023   | 8044   | 5852   | Sa.1688   | 1 | 2.4   |
| 41802   |             |       | 1053   | 8294   | 5487   | Sa.1705   | 1 | 4.1   |
| 41803   | Jacobi K    | 3375a | 1035   | 8361   | 5387   | Sa.1696   | 1 | 5.5   |
| 41804   |             |       | 1028   | 8475   | 5207   | Sa.1692   | 2 | 4.6   |
| 41807   | Kinau G     | 3374a | 1052   | 8788   | 4655   | Sa.1703   | 5 | 14.6  |
| 41808   | Kinau F     | 3374b | 1093   | 8843   | 4540   | Sa.1714   | 1 | 5.9   |
| 41809   | Pentland D  | 3366  | 1097   | 8916   | 4393   | Sa.1717   | 1 | 19.8  |
| 41810   | Cuvier M    | 3405a | 1128   | 8019   | 5867   | Sa.1726   | 3 | 3.5   |
| 41812   | Jacobi O    | 3375d | 1163   | 8258   | 5518   | Sa.1734   | 2 | 9.6   |
| 41812A  |             |       | 1113   | 8224   | 5579   | Sa.1720   | 2 | 4.0   |
| 41813   | Jacobi N    | 3375c | 1128   | 8322   | 5429   | Sa.1725   | 2 | 4.6   |
| 41814   | Jacobi M    | 3375b | 1125   | 8465   | 5204   | Sa.1723   | 1 | 5.7   |
| 41814A  |             |       | 1150   | 8488   | 5161   | Sa.1733   | 2 | 5.0   |
| 41820   | Cuvier N    | 3405b | 1254   | 8033   | 5822   | Sa.1759   | 1 | 2.4   |
| 41820A  |             |       | 1298   | 8085   | 5740   | Sa.1776   | 1 | 2.4   |

| Ref.   | Designation | B&M   | ξ <sub>+</sub> | η    | ζ <sub>+</sub> | Authority | M | Diam. |
|--------|-------------|-------|----------------|------|----------------|-----------|---|-------|
| 41824  | Jacobi P    | 3375e | 1298           | 8416 | 5244           | Sa.1775   | 4 | 8.9   |
| 41832  | Jacobi R    | 3375f | 1358           | 8225 | 5523           | Sa.1798   | 2 | 3.1   |
| 41832A |             |       | 1368           | 8263 | 5464           | Sa.1804   | 2 | 2.5   |
| 41832B |             |       | 1379           | 8299 | 5405           | Sa.1807   | 1 | 1.8   |
| 41834  | Jacobi S    | 3382a | 1379           | 8432 | 5196           | Sa.1806   | 1 | 2.6   |
| 41839  | Pentland N  | 3366b | 1321           | 8954 | 4253           | Sa.1783   | 2 | 14.5  |
| #41841 | Jacobi B    | 3377  | 1404           | 8135 | 5644           | Sa.1817   | 4 | 8.0   |
| 41842  | Jacobi T    | 3375g | 1470           | 8289 | 5397           | Sa.1847   | 2 | 3.5   |
| 41845  | Jacobi A    | 3376  | 1445           | 8524 | 5025           | Sa.1838   | 4 | 15.8  |
| 41849  | Pentland O  | 3366c | 1436           | 8920 | 4287           | Sa.1830   | 2 | 8.5   |
| 41849A | Manzinus F  | 3910a | 1479           | 8985 | 4134           | Sa.1849   | 2 | 10.1  |
| 41852  | Jacobi L    | 3377a | 1512           | 8227 | 5481           | Sa.1859   | 1 | 5.3   |
| 41857  | Kinau B     | 3371a | 1567           | 8791 | 4502           | Sa.1879   | 2 | 4.8   |
| 41859  | Manzinus K  | 3910b | 1562           | 8926 | 4228           | Sa.1876   | 2 | 7.0   |
| 41864  | Tannerus A  | 3894a | 1686           | 8427 | 5113           | Sa.1917   | 2 | 3.1   |
| 41865  | Kinau K     | 3374d | 1625           | 8527 | 4964           | Sa.1893   | 3 | 5.7   |
| 41865A | Kinau L     | 3374e | 1644           | 8589 | 4850           | Sa.1900   | 2 | 6.2   |
| 41871  | Baco G      | 3890a | 1722           | 8127 | 5567           | Sa.1934   | 2 | 4.9   |
| 41872  | Tannerus D  | 3896  | 1732           | 8273 | 5345           | Sa.1936   | 5 | 18.3  |
| 41876  | Kinau H     | 3374c | 1704           | 8636 | 4746           | Sa.1926   | 2 | 3.4   |
| 41876A | Kinau E     | 3373a | 1718           | 8672 | 4673           | Sa.1931   | 2 | 4.0   |
| 41879  | Manzinus M  | 3910d | 1734           | 8945 | 4120           | Sa.1937   | 1 | 3.4   |
| 41883  | Tannerus E  | 3897  | 1877           | 8300 | 5252           | Sa.1980   | 4 | 14.6  |
| 41884  | Tannerus B  | 3894b | 1804           | 8451 | 5033           | Sa.1959   | 2 | 8.2   |
| 41889  | Mutus H     | 3899a | 1818           | 8956 | 4061           | Sa.1962   | 2 | 11.8  |

| Ref.    | Designation   | B&M   | ξ <sub>+</sub> | η    | ζ <sub>+</sub> | Authority                           | M   | Diam. |
|---------|---------------|-------|----------------|------|----------------|-------------------------------------|-----|-------|
| 41891   | Baco J        | 3890b | 1906           | 8163 | 5454           | Sa.1987                             | 3   | 10.8  |
| 41894   | Mutus K       | 3903a | 1957           | 8459 | 4962           | Sa.1997                             | 2   | 4.0   |
| 41898   | Mutus L       | 3902a | 1989           | 8811 | 4291           | Sa.2010                             | 4   | 11.4  |
| 41900   | Pentland J    | 3365a | 1097           | 9024 | 4168           | Sa.1715                             | 2   | 4.9   |
| 41903   | Simpelius F   | 3348  | 1053           | 9316 | 3479           | Sa.1704                             | 1   | 16.8  |
| 41910   | Pentland C    | 3365  | 1190           | 9065 | 4051           | Sa.1742                             | 1   | 21.1  |
| 41915   | Schomberger D | 3337  | 1185           | 9587 | 2585           | Sa.1738                             | 1   | 13.7  |
| 41920   | Pentland M    | 3365d | 1272           | 9021 | 4124           | Sa.1767                             | 2   | 3.9   |
| 41921   | Pentland K    | 3365b | 1211           | 9191 | 3750           | Sa.1746                             | 2   | 6.9   |
| 41921A  | Pentland L    | 3365c | 1257           | 9114 | 3918           | Sa.1760                             | 2   | 13.4  |
| 41923   |               |       | 1205           | 9309 | 3449           | Sa.1744                             | 2   | 7.5   |
| 41934   | Simpelius N   | 3349a | 1317           | 9473 | 2922           | Sa.1782                             | 2   | 4.3   |
| #41945  | Boguslawsky H | 3919a | 1452           | 9556 | 2563           | Sa.1840                             | 1   | 11.0  |
| 41945A  | Boguslawsky J | 3919b | 1476           | 9519 | 2687           | Sa.1848                             | 2   | 20.4  |
| 41951   | Manzinus J    | 3908b | 1599           | 9159 | 3681           | Sa.1887                             | 3   | 6.7   |
| 41953   | Manzinus G    | 3908a | 1526           | 9374 | 3130           | Sa.1865                             | 1   | 9.0   |
| #41953A | Manzinus E    | 3912a | 1537           | 9332 | 3247           | Sa.1868                             | 2   | 10.2  |
| 41954   | Boguslawsky C | 3919  | 1518           | 9450 | 2898           | Sa.1862                             | 1   | 20.7  |
| 41960   | Manzinus L    | 3910c | 1669           | 9009 | 4008           | Sa.1908                             | 1   | 11.5  |
| 41964   | Manzinus N    | 3908c | 1627           | 9409 | 2971           | Sa.1894                             | 1   | 7.9   |
| 41967   | Demonax       | 3915  | 1685           | 9795 | 1101           | Fr. <sup>151</sup> / <sub>155</sub> | 2,2 | 68.4  |
| 41968   | Demonax A     | 3915a | 1697           | 9825 | 0768           | Fr. 152                             | 2   | 9.1   |
| 41970   | Manzinus O    | 3908d | 1798           | 9056 | 3842           | Sa.1956                             | 2   | 3.0   |
| 41972   | Manzinus      | 3908  | 1708           | 9249 | 3397           | Fr. <sup>167</sup> / <sub>168</sub> | 2,2 | 56.5  |
| 41982   | Manzinus P    | 3908e | 1851           | 9259 | 3294           | Sa.1971                             | 1   | 3.6   |

| Ref.   | Designation    | B&M   | ξ <sub>+</sub> | η <sub>-</sub> | ζ <sub>+</sub> | Authority | M | Diam. |
|--------|----------------|-------|----------------|----------------|----------------|-----------|---|-------|
| 41984  | Boguslawsky G  | 3917a | 1805           | 9485           | 2605           | Sa.1960   | 2 | 12.3  |
| 42016  | Saunder A      | 3687  | 2124           | 0698           | 9747           | Sa.2062   | 3 | 4.1   |
| 42023  | Theon Junior B | 3651a | 2299           | 0378           | 9725           | Sa.2130   | 2 | 4.2   |
| 42052  | Theon Senior C | 3650a | 2508           | 0243           | 9677           | Sa.2202   | 3 | 3.2   |
| 42054  | Theon Junior C | 3651b | 2527           | 0411           | 9667           | Sa.2210   | 1 | 2.5   |
| 42059  | Taylor C       | 3688b | 2538           | 0980           | 9623           | Sa.2217   | 1 | 2.6   |
| 42060  | Theon Senior A | 3649  | 2659           | 0031           | 9640           | Sa.2257   | 4 | 3.0   |
| #42061 | Theon Senior   | 3648  | 2663           | 0139           | 9638           | Sa.2258   | 5 | 10.5  |
| 42069  | Taylor D       | 3688c | 2699           | 0929           | 9584           | Sa.2267   | 4 | 4.2   |
| #42074 | Theon Junior   | 3651  | 2726           | 0418           | 9612           | Sa.2275   | 5 | 10.7  |
| 42094  | Delambre C     | 3656a | 2924           | 0462           | 9552           | Sa.2331   | 1 | 3.0   |
| 42108  | Anděl D        | 3729b | 2000           | 1871           | 9618           | Sa.2014   | 2 | 3.5   |
| 42108A | Anděl G        | 3729d | 2097           | 1895           | 9592           | Sa.2048   | 1 | 2.1   |
| 42114  | Dollond D      | 3726  | 2150           | 1425           | 9662           | Sa.2071   | 4 | 4.9   |
| 42115  | Dollond L      | 3725d | 2152           | 1525           | 9646           | Sa.2072   | 3 | 3.0   |
| 42128  | Anděl α        | 3734a | 2270           | 1849           | 9562           | Sa.2124   | 1 | (F)   |
| 42129  |                |       | 2253           | 1950           | 9546           | Sa.2117   | 1 | 2.0   |
| 42146  | Dollond γ      | 3731a | 2446           | 1634           | 9558           | Sa.2184   | 1 | (F)   |
| #42148 | Dollond        | 3722  | 2456           | 1818           | 9522           | Sa.2186   | 5 | 6.4   |
| 42156  | Dollond ε      | 3731b | 2528           | 1610           | 9540           | Sa.2211   | 1 | (F)   |
| 42167  | Dollond E      | 3727  | 2668           | 1778           | 9472           | Sa.2261   | 4 | 3.3   |
| 42179  | Descartes C    | 3718  | 2764           | 1908           | 9419           | Sa.2283   | 3 | 2.2   |
| 42187  | Dollond M      | 3730  | 2870           | 1754           | 9418           | Sa.2315   | 3 | 3.3   |
| 42196  |                |       | 2932           | 1644           | 9418           | Sa.2334   | 1 | 2.1   |
| 42198  | Kant P         | 3699b | 2937           | 1873           | 9374           | Sa.2337   | 3 | 3.1   |

| Ref.    | Designation | B&M   | ξ <sub>+</sub> | η <sub>-</sub> | ζ <sub>+</sub> | Authority | M | Diam. |
|---------|-------------|-------|----------------|----------------|----------------|-----------|---|-------|
| *42198A | Kant Z      | 3730a | 2948           | 1803           | 9384           | Sa.2340   | 2 | (s)   |
| 42198B  |             |       | 2936           | 1802           | 9388           | Sa.2336   | 1 | 1.9   |
| 42200   | Anděl E     | 3729c | 2075           | 2079           | 9559           | Sa.2044   | 2 | 3.6   |
| 42202   | Abulfeda Q  | 3735a | 2070           | 2222           | 9528           | Sa.2041   | 2 | 1.8   |
| 42206   | Abulfeda N  | 3743  | 2048           | 2611           | 9433           | Sa.2032   | 2 | 8.1   |
| 42207   | Abulfeda M  | 3742  | 2016           | 2794           | 9388           | Sa.2021   | 2 | 5.9   |
| 42212   | Abulfeda R  | 3735b | 2195           | 2211           | 9502           | Sa.2092   | 4 | 4.2   |
| #42217  | Abulfeda F  | 3744  | 2181           | 2788           | 9353           | Sa.2084   | 4 | 11.2  |
| 42221   | Abulfeda S  | 3735c | 2253           | 2124           | 9509           | Sa.2116   | 1 | 3.0   |
| 42222   |             |       | 2233           | 2210           | 9494           | Sa.2112   | 3 | 3.1   |
| 42231   | Abulfeda W  | 3735f | 2341           | 2169           | 9477           | Sa.2141   | 1 | 3.0   |
| 42232   | Abulfeda U  | 3735e | 2329           | 2247           | 9462           | Sa.2137   | 1 | 3.4   |
| 42232A  | Abulfeda Y  | 3735h | 2375           | 2208           | 9460           | Sa.2159   | 2 | 3.1   |
| 42234   | Abulfeda α  | 3745  | 2346           | 2408           | 9418           | Sa.2144   | 3 | (CP)  |
| 42235   | Abulfeda T  | 3735d | 2301           | 2561           | 9389           | Sa.2131   | 3 | 3.9   |
| 42235A  | Abulfeda X  | 3735g | 2344           | 2592           | 9370           | Sa.2142   | 1 | 3.9   |
| 42237   | Almanon F   | 3751b | 2376           | 2739           | 9319           | Sa.2160   | 3 | 3.0   |
| 42243   |             |       | 2417           | 2303           | 9426           | Sa.2174   | 1 | 2.0   |
| 42250   | Descartes A | 3717  | 2570           | 2092           | 9435           | Sa.2233   | 5 | 8.8   |
| 42255   | Abulfeda Z  | 3735i | 2544           | 2540           | 9332           | Sa.2221   | 2 | 2.9   |
| 42257   | Almanon K   | 3751e | 2564           | 2727           | 9273           | Sa.2229   | 1 | 3.6   |
| 42257A  |             |       | 2523           | 2706           | 9290           | Sa.2207   | 2 | 3.1   |
| 42263   | Abulfeda BC | 3738b | 2653           | 2381           | 9343           | Sa.2254   | 1 | 2.3   |
| 42264   | Abulfeda BB | 3738a | 2602           | 2460           | 9337           | Sa.2241   | 1 | 2.4   |
| #42267  | Almanon C   | 3754  | 2651           | 2783           | 9232           | Sa.2252   | 5 | 9.5   |

| Ref.    | Designation    | B&M    | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam.  |
|---------|----------------|--------|--------|--------|--------|-----------|---|--------|
| 42275   | Abulfeda B     | 3737   | 2742   | 2504   | 9285   | Sa.2279   | 4 | 8.8    |
| 42280   | Kant O         | 3699a  | 2893   | 2078   | 9344   | Sa.2321   | 1 | 4.0    |
| 42285   | Abulfeda BA    | 3738   | 2806   | 2536   | 9257   | Sa.2299   | 3 | 7.4    |
| 42289   | Tacitus F      | 3759a  | 2889   | 2936   | 9113   | Sa.2320   | 2 | 5.5    |
| 42291   |                |        | 2910   | 2109   | 9332   | Sa.2326   | 1 | 3.0    |
| 42299   | Tacitus G      | 3759b  | 2991   | 2998   | 9059   | Sa.2348   | 1 | 3.6    |
| 42305   | Abenezra H     | 3780g  | 2062   | 3598   | 9099   | Sa.2035   | 1 | 2.3    |
| 42312   | Geber B        | 3773   | 2118   | 3259   | 9214   | Sa.2058   | 3 | 11.0   |
| 42314   | Geber F        | 3774c  | 2145   | 3411   | 9152   | Sa.2070   | 1 | 2.9    |
| 42315   | Geber E        | 3774b  | 2107   | 3507   | 9125   | Sa.2051   | 3 | 3.4    |
| 42317   | Azophi C       | 3784b  | 2101   | 3710   | 9046   | Sa.2049   | 2 | 3.1    |
| 42319   | Azophi E       | 3784d  | 2192   | 3981   | 8908   | Sa.2090   | 2 | 3.0    |
| 42320   | Almanon E      | 3751a  | 2247   | 3070   | 9248   | Sa.2113   | 1 | 3.1    |
| 42323   | Geber          | 3771   | 2268   | 3331   | 9152   | Sa.2123   | 2 | 26.3   |
| 42327   | Azophi F       | 3784e  | 2220   | 3792   | 8983   | Sa.2107   | 2 | 3.7    |
| 42338   | Sacrobosco K   | 3788b  | 2344   | 3891   | 8909   | Sa.2143   | 3 | 3.4    |
| 42340   | Almanon G      | 3751c  | 2404   | 3077   | 9206   | Sa.2169   | 1 | 2.8    |
| 42342   | Almanon H      | 3751d  | 2488   | 3258   | 9121   | Sa.2193   | 1 | 3.2    |
| 42350   | Almanon A      | 3752   | 2524   | 3054   | 9182   | Sa.2208   | 4 | 6.1    |
| 42351   | Almanon B (CP) | (3753) | 2505   | 3137   | 9159   | Sa.2199   | 2 | (14.2) |
| 42351A  | Almanon D      | 3755   | 2547   | 3188   | 9130   | Sa.2223   | 3 | 3.1    |
| 42356   | Sacrobosco O   | 3794a  | 2582   | 3613   | 8960   | Sa.2238   | 1 | 3.2    |
| *#42359 | Sacrobosco C   | 3791   | 2515   | 3903   | 8857   | Sa.2204   | 5 | 7.7    |
| 42366   | Sacrobosco F   | 3794   | 2695   | 3610   | 8928   | Sa.2266   | 3 | 10.3   |
| 42371   |                |        | 2785   | 3102   | 9090   | Sa.2291   | 1 | 3.0    |

| Ref.   | Designation  | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam. |
|--------|--------------|-------|--------|--------|--------|-----------|---|-------|
| 42372  | Almanon L    | 3751f | 2705   | 3252   | 9061   | Sa.2270   | 2 | 3.8   |
| 42372A |              |       | 2781   | 3288   | 9025   | Sa.2288   | 1 | 2.8   |
| 42375  | Sacrobosco P | 3794b | 2794   | 3534   | 8928   | Sa.2295   | 1 | 3.0   |
| 42399  |              |       | 2923   | 3964   | 8703   | Sa.2330   | 2 | 5.9   |
| #42403 | Pontanus D   | 3813  | 2063   | 4372   | 8754   | Sa.2036   | 5 | 11.5  |
| 42407  | Pontanus L   | 3809b | 2043   | 4792   | 8536   | Sa.2031   | 2 | 3.5   |
| 42409  |              |       | 2005   | 4997   | 8427   | Sa.2018   | 1 | 3.3   |
| 42411  | Pontanus N   | 3814a | 2178   | 4174   | 8822   | Sa.2082   | 4 | 5.9   |
| 42411A | Azophi D     | 3784c | 2118   | 4116   | 8864   | Sa.2056   | 4 | 5.1   |
| 42413  | Pontanus O   | 3813b | 2194   | 4394   | 8711   | Sa.2091   | 3 | 5.9   |
| 42419  | Pontanus M   | 3809c | 2121   | 4947   | 8428   | Sa.2059   | 1 | 3.1   |
| 42419A |              |       | 2168   | 4940   | 8420   | Sa.2079   | 1 | 2.0   |
| 42426  | Pontanus Q   | 3809d | 2215   | 4602   | 8597   | Sa.2103   | 1 | 3.1   |
| 42429  | Pontanus P   | 3812a | 2206   | 4993   | 8379   | Sa.2099   | 2 | 1.9   |
| 42430  | Sacrobosco J | 3788a | 2306   | 4001   | 8870   | Sa.2133   | 2 | 2.9   |
| 42433  | Sacrobosco L | 3788c | 2359   | 4319   | 8705   | Sa.2147   | 4 | 5.0   |
| 42436  |              |       | 2333   | 4662   | 8534   | Sa.2139   | 2 | 3.0   |
| 42437  | Pontanus R   | 3809e | 2379   | 4724   | 8487   | Sa.2161   | 1 | 3.8   |
| 42448  | Pontanus T   | 3809f | 2490   | 4882   | 8364   | Sa.2195   | 1 | 4.7   |
| 42450  | Sacrobosco A | 3789  | 2539   | 4076   | 8772   | Sa.2218   | 4 | 10.2  |
| 42452  | Sacrobosco M | 3788d | 2539   | 4266   | 8681   | Sa.2219   | 1 | 3.8   |
| 42453  |              |       | 2543   | 4331   | 8648   | Sa.2220   | 1 | 2.8   |
| 42455  | Sacrobosco N | 3788e | 2546   | 4553   | 8532   | Sa.2222   | 3 | 3.5   |
| 42455A |              |       | 2511   | 4584   | 8525   | Sa.2203   | 2 | 3.0   |
| 42455B |              |       | 2580   | 4502   | 8549   | Sa.2237   | 1 | 3.1   |

| Ref.   | Designation     | B&M   | $\xi$<br>+ | $\eta$<br>- | $\zeta$<br>+ | Authority | M | Diam. |
|--------|-----------------|-------|------------|-------------|--------------|-----------|---|-------|
| 42460  | Sacrobosco B    | 3790  | 2658       | 4068        | 8740         | Sa.2256   | 4 | 8.3   |
| 42468  | Pontanus W      | 3809h | 2642       | 4869        | 8326         | Sa.2250   | 2 | 4.0   |
| 42469  | Pontanus U      | 3809g | 2623       | 4924        | 8299         | Sa.2247   | 1 | 3.0   |
| 42478  |                 |       | 2735       | 4852        | 8305         | Sa.2278   | 1 | 2.7   |
| 42490  | Sacrobosco H    | 3795a | 2940       | 4022        | 8671         | Sa.2338   | 2 | 7.5   |
| 42502  | Goodacre B      | 3825b | 2011       | 5282        | 8250         | Sa.2020   | 3 | 5.2   |
| 42503  | Goodacre C      | 3825c | 2068       | 5336        | 8201         | Sa.2038   | 2 | 3.0   |
| 42503A |                 |       | 2065       | 5389        | 8167         | Sa.2037   | 1 | (P)   |
| 42508  | Gemma Frisius Q | 3820a | 2072       | 5846        | 7844         | Sa.2043   | 1 | 5.2   |
| 42508A |                 |       | 2054       | 5811        | 7875         | Sa.2034   | 1 | 5.4   |
| 42512  |                 |       | 2137       | 5299        | 8207         | Sa.2065   | 1 | 2.6   |
| 42515  | Goodacre D      | 3825d | 2173       | 5508        | 8059         | Sa.2081   | 2 | 4.6   |
| 42517  | Gemma Frisius S | 3820c | 2124       | 5769        | 7887         | Sa.2061   | 1 | 3.3   |
| 42521  | Pontanus A      | 3810  | 2258       | 5171        | 8256         | Sa.2119   | 1 | 6.7   |
| 42524  | Goodacre E      | 3825e | 2249       | 5445        | 8080         | Sa.2115   | 1 | 3.6   |
| 42536  | Gemma Frisius U | 3821a | 2382       | 5677        | 7880         | Sa.2164   | 2 | 4.9   |
| 42537  | Gemma Frisius T | 3820d | 2325       | 5725        | 7863         | Sa.2136   | 2 | 4.6   |
| 42541  |                 |       | 2494       | 5135        | 8211         | Sa.2197   | 1 | 3.0   |
| 42542  | Pontanus S      | 3817a | 2467       | 5226        | 8161         | Sa.2188   | 1 | 3.9   |
| 42544  | Zagut O         | 4048a | 2411       | 5454        | 8028         | Sa.2172   | 2 | 6.8   |
| 42544A |                 |       | 2444       | 5405        | 8051         | Sa.2183   | 1 | 6.5   |
| 42553  | Zagut P         | 4048b | 2530       | 5362        | 8053         | Sa.2214   | 4 | 8.8   |
| #42559 | Büsching E      | 3845  | 2534       | 5975        | 7608         | Sa.2215   | 5 | 8.6   |
| 42560  | Zagut F         | 4051a | 2605       | 5048        | 8230         | Sa.2244   | 3 | 4.8   |
| 42573  | Zagut B         | 4048  | 2723       | 5316        | 8020         | Sa.2274   | 1 | 18.2  |

| Ref.   | Designation     | B&M   | $\xi$<br>+ | $\eta$<br>- | $\zeta$<br>+ | Authority | M | Diam. |
|--------|-----------------|-------|------------|-------------|--------------|-----------|---|-------|
| 42576  | Celsius B       | 4041a | 2774       | 5684        | 7746         | Sa.2286   | 1 | 3.2   |
| 42579  | Rabbi Levi H    | 4039a | 2781       | 5939        | 7550         | Sa.2289   | 2 | 4.5   |
| 42582  | Zagut D         | 4050  | 2827       | 5220        | 8047         | Sa.2304   | 2 | 8.8   |
| 42584  |                 |       | 2886       | 5432        | 7884         | Sa.2319   | 2 | 4.9   |
| 42584A |                 |       | 2858       | 5459        | 7876         | Sa.2310   | 2 | 3.1   |
| 42585  | Celsius H       | 4041  | 2864       | 5566        | 7798         | Sa.2314   | 2 | 3.3   |
| 42588  | Rabbi Levi F    | 4039  | 2840       | 5890        | 7566         | Sa.2306   | 3 | 7.1   |
| 42589  |                 |       | 2898       | 5945        | 7501         | Sa.2322   | 1 | 3.0   |
| 42592  |                 |       | 2935       | 5200        | 8021         | Sa.2335   | 1 | 3.0   |
| 42594  | Celsius A       | 4045a | 2945       | 5442        | 7856         | Sa.2339   | 2 | 7.9   |
| 42595  | Celsius C       | 4041b | 2990       | 5574        | 7745         | Sa.2346   | 1 | 2.7   |
| 42610  | Gemma Frisius R | 3820b | 2108       | 6037        | 7688         | Sa.2053   | 1 | 2.9   |
| 42612  |                 |       | 2185       | 6279        | 7470         | Sa.2086   | 1 | 3.3   |
| 42613  | Buch D          | 3834b | 2189       | 6379        | 7383         | Sa.2088   | 3 | 4.0   |
| 42615  | Maurolycus R    | 3846b | 2118       | 6547        | 7256         | Sa.2057   | 1 | 2.6   |
| 42616  | Maurolycus S    | 3846c | 2179       | 6696        | 7101         | Sa.2083   | 2 | 3.8   |
| 42622  | Buch E          | 3834c | 2217       | 6288        | 7453         | Sa.2104   | 1 | 3.6   |
| 42631  | Buch B          | 3836  | 2309       | 6139        | 7549         | Sa.2134   | 4 | 3.9   |
| 42632  |                 |       | 2365       | 6222        | 7463         | Sa.2152   | 1 | 2.7   |
| 42637  |                 |       | 2385       | 6741        | 6991         | Sa.2165   | 2 | 7.4   |
| 42647  | Barocius M      | 3863a | 2469       | 6743        | 6960         | Sa.2190   | 5 | 9.6   |
| 42648  | Barocius N      | 3863b | 2472       | 6838        | 6865         | Sa.2192   | 2 | 6.0   |
| 42654  |                 |       | 2578       | 6455        | 7189         | Sa.2235   | 1 | 2.5   |
| 42657  |                 |       | 2569       | 6783        | 6884         | Sa.2231   | 1 | 2.6   |
| 42658  |                 |       | 2519       | 6870        | 6816         | Sa.2206   | 1 | 2.7   |

| Ref.   | Designation | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam. |
|--------|-------------|-------|--------|--------|--------|-----------|---|-------|
| 42660  | Büsching C  | 3843  | 2667   | 6055   | 7498   | Sa.2260   | 1 | 4.2   |
| 42667  |             |       | 2603   | 6702   | 6950   | Sa.2243   | 2 | 3.3   |
| 42669  | Barocius R  | 3869b | 2653   | 6926   | 6708   | Sa.2253   | 1 | 8.1   |
| 42671  | Büsching A  | 3840a | 2743   | 6198   | 7353   | Sa.2280   | 2 | 3.3   |
| 42673  | Büsching F  | 3844a | 2782   | 6305   | 7246   | Sa.2290   | 1 | 3.6   |
| 42677  | Barocius S  | 3867a | 2751   | 6750   | 6847   | Sa.2281   | 1 | 4.4   |
| 42678  | Nicolai G   | 4010  | 2790   | 6801   | 6780   | Sa.2293   | 3 | 6.2   |
| 42680  | Büsching H  | 3840b | 2860   | 6077   | 7409   | Sa.2313   | 1 | 2.7   |
| 42681  |             |       | 2846   | 6192   | 7319   | Sa.2308   | 1 | 3.1   |
| 42682  |             |       | 2807   | 6273   | 7264   | Sa.2300   | 1 | 2.7   |
| 42683  | Büsching G  | 3844b | 2836   | 6365   | 7172   | Sa.2305   | 1 | 4.3   |
| 42683A |             |       | 2816   | 6391   | 7157   | Sa.2302   | 1 | 2.9   |
| 42685  | Nicolai J   | 4013a | 2858   | 6510   | 7032   | Sa.2311   | 1 | 4.8   |
| 42693  | Büsching J  | 3844c | 2921   | 6359   | 7144   | Sa.2329   | 1 | 3.9   |
| #42697 | Nicolai A   | 4004  | 2959   | 6746   | 6762   | Sa.2341   | 5 | 8.1   |
| 42703  | Breislak A  | 3861a | 2040   | 7306   | 6516   | Sa.2030   | 2 | 4.1   |
| #42705 | Baco S      | 3890d | 2070   | 7589   | 6175   | Sa.2040   | 3 | 10.1  |
| 42705A | Baco M      | 3879b | 2022   | 7568   | 6216   | Sa.2023   | 2 | 4.2   |
| 42708  | Baco H      | 3888d | 2004   | 7874   | 5830   | Sa.2017   | 1 | 3.7   |
| 42708A | Baco O      | 3888e | 2097   | 7884   | 5783   | Sa.2047   | 4 | 5.3   |
| 42709  | Baco U      | 3889b | 2023   | 7920   | 5761   | Sa.2024   | 1 | 3.7   |
| 42709A | Baco A      | 3889  | 2089   | 7973   | 5664   | Sa.2046   | 2 | 22.5  |
| 42713  | Breislak B  | 3861b | 2105   | 7383   | 6408   | Sa.2050   | 1 | 4.1   |
| 42714  | Breislak D  | 3861d | 2145   | 7426   | 6344   | Sa.2069   | 1 | 2.7   |
| 42714A | Breislak E  | 3861e | 2195   | 7405   | 6352   | Sa.2093   | 2 | 4.4   |

| Ref.   | Designation | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam. |
|--------|-------------|-------|--------|--------|--------|-----------|---|-------|
| 42715  | Breislak C  | 3861c | 2127   | 7533   | 6224   | Sa.2063   | 2 | 3.3   |
| 42717  | Baco P      | 3888f | 2124   | 7754   | 5947   | Sa.2060   | 1 | 2.8   |
| 42721  | Barocius D  | 3860a | 2285   | 7191   | 6563   | Sa.2128   | 1 | 4.8   |
| 42722  |             |       | 2270   | 7223   | 6533   | Sa.2125   | 2 | 3.2   |
| 42723  | Breislak G  | 3861g | 2242   | 7304   | 6450   | Sa.2114   | 1 | 9.0   |
| 42723A |             |       | 2218   | 7337   | 6423   | Sa.2105   | 1 | 2.4   |
| 42723B |             |       | 2261   | 7381   | 6357   | Sa.2121   | 2 | 2.8   |
| 42724  | Breislak F  | 3861f | 2209   | 7477   | 6262   | Sa.2101   | 2 | 4.2   |
| 42730  | Barocius K  | 3869a | 2374   | 7089   | 6642   | Sa.2158   | 2 | 8.5   |
| #42735 | Baco R      | 3890c | 2339   | 7564   | 6108   | Sa.2140   | 5 | 10.6  |
| 42736  | Ideler A    | 3864a | 2398   | 7671   | 5951   | Sa.2168   | 1 | 6.4   |
| 42738  |             |       | 2359   | 7830   | 5755   | Sa.2149   | 2 | 2.6   |
| 42739  | Asclepi A   | 3986a | 2353   | 7981   | 5547   | Sa.2145   | 1 | 8.1   |
| 42743  | Barocius EA | 3865a | 2426   | 7312   | 6376   | Sa.2178   | 3 | 8.4   |
| 42747  | Ideler B    | 3864b | 2410   | 7734   | 5863   | Sa.2171   | 2 | 6.5   |
| 42747A | Ideler C    | 3864c | 2469   | 7794   | 5758   | Sa.2191   | 2 | 3.8   |
| 42747B |             |       | 2450   | 7717   | 5870   | Sa.2185   | 1 | 3.2   |
| 42748  |             |       | 2426   | 7810   | 5755   | Sa.2177   | 1 | 2.3   |
| 42748A |             |       | 2423   | 7828   | 5732   | Sa.2176   | 1 | 2.5   |
| 42752  | Barocius EB | 3865b | 2536   | 7269   | 6383   | Sa.2216   | 4 | 6.2   |
| 42754  | Barocius EC | 3865c | 2557   | 7446   | 6166   | Sa.2227   | 4 | 4.5   |
| 42758  | Asclepi E   | 3986e | 2508   | 7893   | 5605   | Sa.2201   | 1 | 3.8   |
| 42761  | Barocius O  | 3866a | 2613   | 7154   | 6480   | Sa.2246   | 2 | 2.9   |
| 42762  | Barocius ED | 3865d | 2649   | 7230   | 6380   | Sa.2251   | 2 | 4.3   |
| 42772  |             |       | 2758   | 7211   | 6356   | Sa.2282   | 1 | 2.0   |



| Ref.   | Designation   | B&M          | 5<br>+ | 7<br>- | 5<br>+ | Authority | M | Diam. |
|--------|---------------|--------------|--------|--------|--------|-----------|---|-------|
| 42773  | Barocius EE   | 3865e        | 2701   | 7372   | 6194   | Sa.2268   | 2 | 4.7   |
| 42779  |               |              | 2768   | 7974   | 5362   | Sa.2284   | 1 | 3.8   |
| #42783 | Pitiscus G    | 3997a        | 2873   | 7387   | 6098   | Sa.2316   | 4 | 8.9   |
| 42783A |               |              | 2803   | 7320   | 6210   | Sa.2298   | 1 | 2.9   |
| 42785  | Ideler M      | 3871         | 2841   | 7532   | 5933   | Sa.2307   | 3 | 11.2  |
| 42792  | Spallanzani A | 4008b        | 2994   | 7224   | 6233   | Sa.2349   | 2 | 3.6   |
| 42794  | Pitiscus J    | 3995a        | 2970   | 7448   | 5976   | Sa.2344   | 1 | 4.1   |
| 42795  | Pitiscus D    | 3872<br>3995 | 2931   | 7547   | 5869   | Sa.2333   | 3 | 12.6  |
| 42800  | Baco T        | 3889a        | 2003   | 8066   | 5561   | Sa.2016   | 2 | 3.0   |
| 42801  | Tannerus M    | 3898d        | 2050   | 8184   | 5369   | Sa.2033   | 1 | 3.4   |
| 42802  | Tannerus K    | 3898b        | 2002   | 8241   | 5299   | Sa.2015   | 2 | 4.8   |
| 42803  | Tannerus      | 3894         | 2071   | 8320   | 5146   | Sa.2042   | 4 | 16.5  |
| 42804  | Tannerus L    | 3898c        | 2037   | 8426   | 4985   | Sa.2028   | 2 | 3.9   |
| 42810  | Baco W        | 3889c        | 2154   | 8013   | 5581   | Sa.2075   | 2 | 5.0   |
| 42814  | Mutus O       | 3903c        | 2160   | 8453   | 4888   | Sa.2076   | 1 | 7.8   |
| 42815  | Mutus M       | 3903b        | 2115   | 8577   | 4686   | Sa.2055   | 1 | 11.6  |
| 42818  | Mutus N       | 3902b        | 2152   | 8864   | 4098   | Sa.2073   | 1 | 6.1   |
| #42819 | Mutus B       | 3901         | 2167   | 8973   | 3846   | Sa.2078   | 3 | 9.5   |
| 42821  | Tannerus H    | 3896a        | 2264   | 8108   | 5398   | Sa.2122   | 1 | 11.5  |
| 42822  | Tannerus N    | 3898e        | 2295   | 8268   | 5136   | Sa.2129   | 1 | 5.9   |
| #42825 | Mutus P       | 3903d        | 2220   | 8574   | 4643   | Sa.2106   | 3 | 9.4   |
| 42830  | Asclepi C     | 3986c        | 2371   | 8024   | 5477   | Sa.2155   | 1 | 6.1   |
| 42830A | Asclepi B     | 3986b        | 2369   | 8096   | 5371   | Sa.2153   | 1 | 10.7  |
| 42831  |               |              | 2373   | 8152   | 5283   | Sa.2157   | 1 | 5.2   |
| 42836  | Hommel M      | 3988a        | 2320   | 8638   | 4472   | Sa.2135   | 2 | 4.0   |

| Ref.   | Designation   | B&M   | 5<br>+ | 7<br>- | 5<br>+ | Authority                           | M   | Diam. |
|--------|---------------|-------|--------|--------|--------|-------------------------------------|-----|-------|
| 42838  | Mutus Q       | 3899b | 2363   | 8853   | 4004   | Sa.2151                             | 2   | 4.4   |
| 42839  | Mutus A       | 3900  | 2332   | 8973   | 3748   | Sa.2138                             | 1   | 7.9   |
| 42840  | Asclepi D     | 3986d | 2428   | 8038   | 5430   | Sa.2180                             | 1   | 10.3  |
| 42845  | Hommel N      | 3988b | 2461   | 8597   | 4476   | Sa.2187                             | 3   | 8.2   |
| 42845A | Hommel O      | 3988c | 2468   | 8533   | 4593   | Sa.2189                             | 1   | 3.4   |
| 42850  |               |       | 2502   | 8023   | 5419   | Sa.2198                             | 1   | 3.1   |
| #42852 | Hommel K      | 3985b | 2570   | 8237   | 5055   | Sa.2232                             | 5   | 9.3   |
| 42856  |               |       | 2548   | 8643   | 4338   | Sa.2224                             | 1   | 2.4   |
| 42857  |               |       | 2598   | 8726   | 4136   | Sa.2240                             | 2   | 3.2   |
| #42862 | Hommel L      | 3985c | 2609   | 8297   | 4935   | Sa.2245                             | 4   | 10.2  |
| 42865  | Hommel E      | 3986f | 2655   | 8569   | 4419   | Sa.2255                             | 4   | 7.9   |
| 42867  | Nearch E      | 3954a | 2678   | 8782   | 3963   | Sa.2264                             | 1   | 6.4   |
| #42870 | Hommel J      | 3985a | 2787   | 8029   | 5269   | Sa.2292                             | 4   | 10.4  |
| 42873  |               |       | 2721   | 8350   | 4782   | Sa.2271                             | 1   | 3.7   |
| 42875  | Hommel F      | 3987  | 2773   | 8522   | 4437   | Sa.2285                             | 1   | 11.8  |
| 42878  | Nearch C      | 3953  | 2730   | 8835   | 3807   | Sa.2276                             | 1   | 23.6  |
| 42889  | Nearch G      | 3954c | 2881   | 8934   | 3448   | Sa.2317                             | 1   | 3.1   |
| 42889A | Nearch F      | 3954b | 2802   | 8905   | 3584   | Sa.2297                             | 1   | 4.6   |
| 42900  |               |       | 2029   | 9084   | 3657   | Sa.2026                             | 1   | 3.8   |
| 42901  | Manzinus R    | 3908f | 2038   | 9131   | 3531   | Sa.2029                             | 1   | 9.8   |
| 42903  | Manzinus U    | 3908g | 2069   | 9308   | 3013   | Sa.2039                             | 1   | 12.3  |
| 42905  | Boguslawsky   | 3916  | 2009   | 9563   | 2124   | Fr. <sup>157</sup> / <sub>162</sub> | 2,2 | 56.0  |
| 42906  | Boguslawsky F | 3916a | 2017   | 9668   | 1570   | Sa.2022                             | 1   | 17.4  |
| #42915 | Boguslawsky D | 3919c | 2185   | 9555   | 1982   | Sa.2085                             | 2   | 13.5  |
| 42916  | Boguslawsky E | 3918a | 2198   | 9615   | 1648   | Sa.2096                             | 1   | 8.2   |

| Ref.    | Designation    | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority                           | M   | Diam. |
|---------|----------------|-------|--------|--------|--------|-------------------------------------|-----|-------|
| 42922   | Mutus G        | 3905a | 2230   | 9220   | 3165   | Sa.2111                             | 1   | 9.6   |
| 42933   | Boussingault P | 3924a | 2304   | 9325   | 2782   | Sa.2132                             | 1   | 9.4   |
| 42951   |                |       | 2550   | 9181   | 3033   | Sa.2225                             | 1   | 11.9  |
| 42954   |                |       | 2561   | 9443   | 2067   | Sa.2228                             | 1   | 3.1   |
| #42973  | Boussingault K | 3936a | 2791   | 9327   | 2283   | Sa.2294                             | 1   | 16.9  |
| 42974   | Boussingault   | 3923  | 2739   | 9418   | 1949   | Fr. <sup>161</sup> / <sub>165</sub> | 3,2 | 75.4  |
| 42984   | Boussingault N | 3935  | 2806   | 9482   | 1489   | Fr.1069                             | 2   | 8.4   |
| 43001   | Delambre D     | 3656b | 3018   | 0193   | 9532   | Sa.2353                             | 2   | 3.0   |
| 43021   | Delambre F     | 3659  | 3299   | 0183   | 9438   | Sa.2444                             | 2   | 2.7   |
| 43028   | Alfraganus E   | 3681a | 3251   | 0801   | 9423   | Sa.2425                             | 1   | 2.1   |
| #43029  | Alfraganus     | 3680  | 3242   | 0945   | 9413   | Sa.2421                             | 5   | 12.0  |
| 43039   |                |       | 3337   | 0982   | 9376   | Sa.2455                             | 1   | 1.8   |
| 43040   | Hypatia E      | 3670  | 3490   | 0056   | 9371   | Sa.2505                             | 4   | 3.4   |
| 43047   | Alfraganus D   | 3684  | 3438   | 0703   | 9364   | Sa.2492                             | 4   | 4.7   |
| 43056   | Alfraganus F   | 3681b | 3556   | 0613   | 9326   | Sa.2520                             | 4   | 5.0   |
| 43063   |                |       | 3624   | 0345   | 9314   | Sa.2536                             | 1   | 2.1   |
| 43064   | Alfraganus G   | 3681c | 3619   | 0462   | 9311   | Sa.2533                             | 3   | 3.3   |
| 43067   | Hypatia F      | 3671  | 3652   | 0718   | 9282   | Sa.2549                             | 2   | 4.5   |
| 43068   | Hypatia B      | 3666a | 3624   | 0811   | 9285   | Sa.2537                             | 1   | 2.9   |
| 43073   |                |       | 3749   | 0390   | 9262   | Sa.2568                             | 1   | 2.1   |
| #43078  | Hypatia A      | 3666  | 3772   | 0851   | 9222   | Sa.2575                             | 4   | 8.8   |
| 43084   | Hypatia G      | 3669a | 3897   | 0467   | 9198   | Sa.2608                             | 1   | 2.9   |
| *43085  | Hypatia D      | 3669  | 3855   | 0546   | 9211   | Sa.2597                             | 3   | 3.3   |
| *43085A | Hypatia DA     | 3669  | 3886   | 0553   | 9198   | Sa.2605                             | 1   | 2.7   |
| 43089   |                |       | 3824   | 0951   | 9191   | Sa.2586                             | 1   | 1.8   |

| Ref.   | Designation  | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam. |
|--------|--------------|-------|--------|--------|--------|-----------|---|-------|
| 43091  | Moltke A     | 3667a | 3935   | 0181   | 9191   | Sa.2613   | 1 | 2.4   |
| 43091A |              |       | 3984   | 0123   | 9171   | Sa.2623   | 1 | 2.0   |
| #43100 | Alfraganus C | 3683  | 3094   | 1064   | 9450   | Sa.2370   | 4 | 6.2   |
| 43108  | Kant δ       | 3714  | 3040   | 1888   | 9338   | Sa.2361   | 1 | (F)   |
| 43127  | Kant R       | 3707a | 3230   | 1750   | 9301   | Sa.2418   | 1 | 2.4   |
| 43135  | Kant U       | 3702a | 3398   | 1592   | 9269   | Sa.2477   | 1 | 3.0   |
| 43137  | Kant N       | 3707  | 3330   | 1722   | 9271   | Sa.2451   | 1 | 5.4   |
| 43139  | Kant T       | 3699e | 3376   | 1960   | 9207   | Sa.2466   | 1 | 2.6   |
| 43145  |              |       | 3492   | 1567   | 9239   | Sa.2507   | 1 | 4.0   |
| #43148 | Kant         | 3695  | 3404   | 1840   | 9221   | Sa.2478   | 3 | 18.2  |
| 43150  | Zöllner J    | 3704  | 3517   | 1077   | 9299   | Sa.2511   | 4 | 5.8   |
| 43151  | Zöllner K    | 3704a | 3537   | 1134   | 9285   | Sa.2516   | 4 | 4.1   |
| 43151A |              |       | 3582   | 1198   | 9259   | Sa.2528   | 1 | 2.1   |
| 43153  |              |       | 3523   | 1368   | 9258   | Sa.2513   | 1 | 2.7   |
| 43155  | Kant H       | 3703  | 3519   | 1590   | 9224   | Sa.2512   | 1 | 3.8   |
| 43162  | Zöllner A    | 3704b | 3638   | 1230   | 9233   | Sa.2545   | 1 | 3.8   |
| 43170  |              |       | 3715   | 1095   | 9220   | Sa.2560   | 1 | 2.1   |
| 43178  |              |       | 3770   | 1839   | 9078   | Sa.2573   | 1 | 1.8   |
| 43183  |              |       | 3817   | 1314   | 9149   | Sa.2585   | 1 | 2.2   |
| 43209  |              |       | 3021   | 2974   | 9057   | Sa.2355   | 1 | 2.7   |
| 43212  | Kant Q       | 3699c | 3136   | 2258   | 9223   | Sa.2382   | 2 | 2.9   |
| 43212A |              |       | 3116   | 2286   | 9223   | Sa.2375   | 2 | 3.0   |
| 43215  |              |       | 3151   | 2588   | 9131   | Sa.2389   | 1 | 2.1   |
| 43219  | Tacitus N    | 3765  | 3193   | 2917   | 9017   | Sa.2401   | 4 | 4.1   |
| 43220  |              |       | 3286   | 2008   | 9229   | Sa.2438   | 1 | 1.8   |

| Ref.   | Designation | B&M   | ξ <sub>+</sub> | η <sub>?</sub> | ζ <sub>+</sub> | Authority | M | Diam. |
|--------|-------------|-------|----------------|----------------|----------------|-----------|---|-------|
| 43223  | Tacitus C   | 3763  | 3297           | 2366           | 9140           | Sa.2443   | 4 | 5.8   |
| 43225  | Tacitus J   | 3761a | 3260           | 2568           | 9098           | Sa.2431   | 1 | 3.0   |
| 43226  |             |       | 3266           | 2647           | 9074           | Sa.2433   | 1 | 2.4   |
| 43230  | Kant S      | 3699d | 3314           | 2002           | 9220           | Sa.2447   | 1 | 2.9   |
| 43232  | Tacitus K   | 3764a | 3338           | 2273           | 9148           | Sa.2456   | 1 | 2.0   |
| #43234 | Tacitus B   | 3761  | 3397           | 2426           | 9087           | Sa.2476   | 4 | 7.4   |
| 43234A | Tacitus E   | 3762  | 3348           | 2409           | 9110           | Sa.2461   | 4 | 5.1   |
| 43244  | Tacitus L   | 3764b | 3464           | 2482           | 9047           | Sa.2499   | 1 | 3.2   |
| 43245  |             |       | 3452           | 2595           | 9019           | Sa.2495   | 1 | 2.0   |
| 43246  |             |       | 3462           | 2643           | 9002           | Sa.2498   | 1 | 2.2   |
| 43249  | Catharina E | 4171a | 3473           | 2950           | 8902           | Sa.2501   | 1 | 3.9   |
| 43251  | Cyrillus C  | 4179  | 3583           | 2140           | 9087           | Sa.2529   | 2 | 7.0   |
| 43254  | Tacitus M   | 3764c | 3556           | 2410           | 9030           | Sa.2519   | 1 | 3.4   |
| 43254A |             |       | 3548           | 2495           | 9011           | Sa.2518   | 1 | 2.9   |
| 43257  |             |       | 3572           | 2708           | 8939           | Sa.2525   | 1 | 2.1   |
| 43260  | Cyrillus B  | 4178  | 3625           | 2021           | 9098           | Sa.2539   | 1 | 17.3  |
| 43264  | Tacitus O   | 3764d | 3624           | 2407           | 9004           | Sa.2538   | 2 | 2.7   |
| 43267  |             |       | 3675           | 2765           | 8880           | Sa.2552   | 1 | 1.8   |
| 43267A |             |       | 3698           | 2779           | 8866           | Sa.2558   | 1 | 2.0   |
| #43283 | Cyrillus A  | 4177  | 3814           | 2378           | 8933           | Sa.2582   | 4 | 8.8   |
| 43292  |             |       | 3978           | 2263           | 8892           | Sa.2622   | 2 | (P)   |
| 43293  | Cyrillus α  | 4168  | 3992           | 2300           | 8876           | Sa.2625   | 2 | (P)   |
| 43300  | Tacitus H   | 3759c | 3031           | 3061           | 9025           | Sa.2356   | 1 | 3.8   |
| 43316  |             |       | 3189           | 3677           | 8736           | Sa.2399   | 1 | 2.8   |
| 43317  | Fermat F    | 3801a | 3199           | 3764           | 8695           | Sa.2403   | 1 | 2.9   |

| Ref.   | Designation | B&M   | ξ <sub>+</sub> | η <sub>?</sub> | ζ <sub>+</sub> | Authority | M | Diam. |
|--------|-------------|-------|----------------|----------------|----------------|-----------|---|-------|
| 43323  | Fermat G    | 3805a | 3233           | 3330           | 8858           | Sa.2420   | 1 | 4.6   |
| 43324  | Fermat E    | 3805  | 3205           | 3411           | 8837           | Sa.2404   | 4 | 4.6   |
| 43329  |             |       | 3253           | 3930           | 8601           | Sa.2428   | 2 | 2.9   |
| 43330  | Tacitus A   | 3760  | 3346           | 3001           | 8933           | Sa.2459   | 4 | 5.9   |
| 43330A |             |       | 3332           | 3090           | 8908           | Sa.2453   | 1 | 3.0   |
| 43339  | Fermat B    | 3802  | 3322           | 3919           | 8579           | Sa.2448   | 2 | 6.0   |
| 43354  | Catharina A | 4168  | 3566           | 3453           | 8681           | Sa.2522   | 4 | 8.0   |
| 43356  |             |       | 3506           | 3645           | 8627           | Sa.2509   | 1 | 3.3   |
| 43358  | Polybius G  | 4110a | 3567           | 3827           | 8522           | Sa.2524   | 1 | 2.8   |
| 43363  | Catharina F | 4170a | 3696           | 3339           | 8671           | Sa.2557   | 2 | 5.4   |
| 43366  | Polybius H  | 4112b | 3607           | 3617           | 8597           | Sa.2530   | 3 | 4.7   |
| 43368  | Polybius J  | 4110b | 3680           | 3873           | 8453           | Sa.2553   | 2 | 5.8   |
| 43370  | Catharina δ | 4173a | 3794           | 3050           | 8735           | Sa.2578   | 1 | (P)   |
| 43384  | Catharina K | 4170b | 3810           | 3429           | 8586           | Sa.2580   | 1 | 4.2   |
| 43385  | Catharina L | 4170c | 3837           | 3576           | 8515           | Sa.2590   | 1 | 2.7   |
| 43388  |             |       | 3810           | 3855           | 8404           | Sa.2581   | 1 | 2.8   |
| 43392  |             |       | 3965           | 3277           | 8576           | Sa.2621   | 1 | 3.2   |
| 43399  |             |       | 3963           | 3965           | 8281           | Sa.2620   | 1 | 2.0   |
| 43405  | Pons A      | 4097  | 3056           | 4594           | 8340           | Sa.2364   | 3 | 7.0   |
| 43416  | Pons L      | 4097a | 3172           | 4621           | 8282           | Sa.2392   | 2 | 4.1   |
| #43418 | Pons B      | 4098  | 3114           | 4812           | 8195           | Sa.2373   | 4 | 8.0   |
| 43427  | Pons G      | 4102a | 3214           | 4754           | 8190           | Sa.2407   | 3 | 3.6   |
| 43430  | Pons F      | 4102  | 3313           | 4030           | 8531           | Sa.2445   | 2 | 7.4   |
| 43435  | Pons H      | 4102b | 3379           | 4536           | 8247           | Sa.2468   | 1 | 6.9   |
| 43442  | Pons J      | 4102c | 3420           | 4208           | 8402           | Sa.2486   | 3 | 3.1   |

| Ref.   | Designation   | B&M   | ₪<br>+ | ₪<br>- | ₪<br>+ | Authority | M | Diam. |
|--------|---------------|-------|--------|--------|--------|-----------|---|-------|
| 43445  | Pons K        | 4102d | 3441   | 4598   | 8187   | Sa.2494   | 1 | 4.0   |
| 43465  | Pons M        | 4102e | 3638   | 4567   | 8118   | Sa.2546   | 2 | 6.5   |
| 43466  |               |       | 3618   | 4659   | 8075   | Sa.2532   | 1 | 2.1   |
| 43468  |               |       | 3621   | 4826   | 7975   | Sa.2534   | 4 | 3.2   |
| 43471  | Polybius K    | 4112c | 3760   | 4127   | 8296   | Sa.2571   | 2 | 8.6   |
| 43473  |               |       | 3744   | 4378   | 8174   | Sa.2566   | 1 | 2.3   |
| 43476  |               |       | 3745   | 4623   | 8037   | Sa.2567   | 1 | 2.2   |
| 43477  | Rothmann C    | 4055  | 3718   | 4791   | 7951   | Sa.2562   | 3 | 11.4  |
| 43481  |               |       | 3815   | 4107   | 8282   | Sa.2583   | 1 | 3.4   |
| #43483 | Polybius B    | 4109  | 3896   | 4312   | 8138   | Sa.2607   | 4 | 7.4   |
| 43483A |               |       | 3845   | 4344   | 8145   | Sa.2593   | 3 | 4.7   |
| 43486  |               |       | 3853   | 4620   | 7988   | Sa.2595   | 1 | 2.2   |
| 43495  | Piccolomini N | 4083d | 3938   | 4591   | 7963   | Sa.2614   | 2 | 5.9   |
| 43500  | Zagut H       | 4051b | 3082   | 5009   | 8088   | Sa.2368   | 2 | 3.5   |
| 43500A |               |       | 3048   | 5026   | 8090   | Sa.2362   | 2 | 3.0   |
| 43500B |               |       | 3020   | 5057   | 8082   | Sa.2354   | 2 | 3.7   |
| 43501  | Zagut R       | 4047a | 3040   | 5124   | 8032   | Sa.2360   | 1 | 2.7   |
| 43510  |               |       | 3187   | 5046   | 8024   | Sa.2397   | 2 | 3.1   |
| #43513 | Zagut A       | 4047  | 3135   | 5303   | 7877   | Sa.2381   | 4 | 6.8   |
| 43516  | Rabbi Levi A  | 4033  | 3187   | 5637   | 7620   | Sa.2398   | 3 | 7.0   |
| 43517  | Rabbi Levi D  | 4037  | 3165   | 5795   | 7511   | Sa.2390   | 3 | 5.8   |
| 43520  | Zagut L       | 4051c | 3251   | 5049   | 7996   | Sa.2426   | 3 | 7.1   |
| 43522  | Zagut K       | 4051d | 3216   | 5261   | 7873   | Sa.2409   | 2 | 4.0   |
| 43525  | Zagut S       | 4046a | 3227   | 5506   | 7699   | Sa.2416   | 3 | 3.7   |
| #43526 | Rabbi Levi L  | 4033a | 3219   | 5692   | 7566   | Sa.2410   | 4 | 7.3   |

| Ref.   | Designation  | B&M   | ₪<br>+ | ₪<br>- | ₪<br>+ | Authority | M | Diam. |
|--------|--------------|-------|--------|--------|--------|-----------|---|-------|
| 43527  | Rabbi Levi M | 4037a | 3220   | 5772   | 7504   | Sa.2411   | 3 | 6.1   |
| 43529  | Rabbi Levi N | 4037b | 3226   | 5943   | 7367   | Sa.2415   | 2 | 4.5   |
| 43529A |              |       | 3205   | 5912   | 7401   | Sa.2405   | 2 | 4.5   |
| 43530  |              |       | 3313   | 5057   | 7965   | Sa.2446   | 2 | 5.0   |
| 43531  | Zagut M      | 4051e | 3336   | 5116   | 7918   | Sa.2454   | 1 | 3.2   |
| 43531A |              |       | 3370   | 5104   | 7912   | Sa.2464   | 2 | 3.4   |
| 43541  | Zagut N      | 4051f | 3416   | 5193   | 7834   | Sa.2485   | 2 | 5.0   |
| 43545  | Lindenau A   | 4052a | 3476   | 5505   | 7591   | Sa.2502   | 1 | 3.2   |
| 43548  | Rabbi Levi O | 4032a | 3441   | 5833   | 7358   | Sa.2493   | 1 | 3.9   |
| 43548A |              |       | 3428   | 5881   | 7326   | Sa.2488   | 1 | 3.1   |
| 43549  | Riccius T    | 4017a | 3407   | 5925   | 7300   | Sa.2479   | 1 | 3.8   |
| 43556  | Rabbi Levi P | 4037c | 3577   | 5665   | 7424   | Sa.2526   | 2 | 8.4   |
| 43557  |              |       | 3567   | 5724   | 7384   | Sa.2523   | 1 | 4.1   |
| 43560  | Lindenau D   | 4056  | 3647   | 5066   | 7813   | Sa.2548   | 1 | 5.8   |
| 43565  | Rabbi Levi Q | 4037d | 3625   | 5552   | 7485   | Sa.2540   | 1 | 5.1   |
| 43579  | Riccius O    | 4026d | 3755   | 5905   | 7144   | Sa.2569   | 1 | 5.1   |
| 43582  | Lindenau E   | 4057  | 3803   | 5246   | 7617   | Sa.2579   | 2 | 4.4   |
| 43584  | Lindenau G   | 4058a | 3842   | 5480   | 7430   | Sa.2592   | 4 | 5.9   |
| 43585  |              |       | 3863   | 5584   | 7341   | Sa.2600   | 1 | 4.2   |
| 43586  | Rabbi Levi R | 4037e | 3884   | 5621   | 7302   | Sa.2604   | 4 | 6.6   |
| 43588  | Riccius P    | 4026e | 3825   | 5841   | 7159   | Sa.2587   | 1 | 6.5   |
| 43598  | Riccius Y    | 4020a | 3953   | 5853   | 7079   | Sa.2618   | 2 | 5.2   |
| 43601  | Rabbi Levi J | 4038a | 3059   | 6104   | 7307   | Sa.2366   | 1 | 4.0   |
| 43602  | Büsching B   | 3842  | 3014   | 6295   | 7162   | Sa.2351   | 2 | 9.9   |
| 43610  |              |       | 3177   | 6025   | 7322   | Sa.2394   | 1 | 2.8   |

| Ref.   | Designation | B&M   | ξ    | η    | ζ    | Authority | M | Diam. |
|--------|-------------|-------|------|------|------|-----------|---|-------|
| 43610A |             |       | 3174 | 6092 | 7267 | Sa.2393   | 1 | 2.6   |
| 43610B |             |       | 3193 | 6075 | 7274 | Sa.2400   | 1 | 2.9   |
| 43617  |             |       | 3149 | 6701 | 6722 | Sa.2388   | 2 | 2.3   |
| 43618  | Nicolai B   | 4005  | 3119 | 6840 | 6594 | Sa.2376   | 3 | 7.6   |
| 43619  | Nicolai I   | 4006a | 3108 | 6973 | 6459 | Sa.2371   | 1 | 7.3   |
| 43620  |             |       | 3276 | 6063 | 7246 | Sa.2434   | 1 | 2.5   |
| 43622  | Riccus G    | 4024  | 3243 | 6229 | 7120 | Sa.2423   | 3 | 7.4   |
| 43625  | Nicolai E   | 4003b | 3244 | 6513 | 6860 | Sa.2424   | 1 | 7.2   |
| 43626  | Nicolai D   | 4003a | 3228 | 6657 | 6727 | Sa.2417   | 2 | 3.7   |
| 43627  | Nicolai     | 4003  | 3225 | 6745 | 6642 | Sa.2413   | 5 | 24.2  |
| 43633  | Riccus K    | 4026b | 3360 | 6313 | 6989 | Sa.2463   | 1 | 3.4   |
| 43633A |             |       | 3330 | 6376 | 6947 | Sa.2449   | 1 | 2.6   |
| 43635  | Riccus J    | 4026a | 3330 | 6523 | 6809 | Sa.2450   | 3 | 7.6   |
| 43636  | Riccus L    | 4026c | 3379 | 6623 | 6687 | Sa.2467   | 1 | 4.5   |
| #43644 | Riccus E    | 4022  | 3415 | 6416 | 6868 | Sa.2484   | 3 | 12.6  |
| 43645  | Riccus N    | 4022a | 3491 | 6580 | 6673 | Sa.2506   | 4 | 7.6   |
| 43645A |             |       | 3452 | 6552 | 6719 | Sa.2496   | 2 | 3.3   |
| #43651 | Riccus M    | 4026  | 3525 | 6135 | 7066 | Sa.2514   | 3 | 7.8   |
| 43653  |             |       | 3558 | 6330 | 6875 | Sa.2521   | 1 | 3.7   |
| 43657  | Nicolai M   | 4006b | 3580 | 6752 | 6449 | Sa.2527   | 1 | 6.2   |
| 43664  | Riccus D    | 4021  | 3687 | 6476 | 6669 | Sa.2554   | 4 | 9.8   |
| 43664A |             |       | 3692 | 6404 | 6735 | Sa.2556   | 2 | 4.5   |
| 43666  |             |       | 3647 | 6615 | 6554 | Sa.2547   | 1 | 3.5   |
| 43679  | Lockyer A   | 4482a | 3706 | 6953 | 6158 | Sa.2559   | 2 | 5.9   |
| 43686  | Riccus R    | 4026f | 3832 | 6612 | 6450 | Sa.2589   | 1 | 4.0   |

| Ref.     | Designation    | B&M    | ξ    | η    | ζ    | Authority | M | Diam.  |
|----------|----------------|--------|------|------|------|-----------|---|--------|
| 43691    | Wöhler A       | 4064a  | 3995 | 6116 | 6829 | Sa.2626   | 1 | 4.2    |
| 43718    | Pitiscus H     | 3997b  | 3133 | 7882 | 5297 | Sa.2380   | 2 | 5.9    |
| *43726   | Pitiscus (CP)  | (3991) | 3271 | 7693 | 5488 | Fr.1159   | 2 | (47.4) |
| *#43726A | Pitiscus A     | 3992   | 3278 | 7681 | 5500 | Sa.2436   | 3 | 5.9    |
| 43729    | Hommel R       | 3983b  | 3289 | 7939 | 5114 | Sa.2440   | 2 | 6.0    |
| 43732    |                |        | 3384 | 7266 | 5980 | Sa.2474   | 1 | 3.4    |
| 43742    | Pitiscus K     | 3997c  | 3437 | 7231 | 5992 | Sa.2491   | 2 | 9.4    |
| 43743    | Pitiscus B     | 3993   | 3409 | 7397 | 5802 | Sa.2481   | 2 | 14.1   |
| 43747    | Pitiscus L     | 3997d  | 3467 | 7791 | 5223 | Sa.2500   | 2 | 5.0    |
| 43768    | Vlacq E        | 3972   | 3636 | 7882 | 4965 | Sa.2543   | 1 | 6.4    |
| #43770   | Lockyer HA     | (4480) | 3773 | 7067 | 5985 | Sa.2576   | 3 | 7.4    |
| 43773    | Dove A         | 4002a  | 3771 | 7300 | 5700 | Sa.2574   | 2 | 7.2    |
| 43777    | Vlacq K        | 3972a  | 3743 | 7794 | 5025 | Sa.2564   | 2 | 6.8    |
| #43781   | Lockyer G      | 4482   | 3848 | 7148 | 5840 | Sa.2594   | 3 | 13.5   |
| 43784    | Vlacq H        | 3972b  | 3840 | 7415 | 5502 | Sa.2591   | 2 | 6.6    |
| 43795    | Vlacq D        | 3971   | 3904 | 7507 | 5329 | Sa.2610   | 2 | 19.5   |
| 43797    | Vlacq A        | 3968   | 3943 | 7791 | 4874 | Sa.2616   | 2 | 10.1   |
| #43819   | Boussingault S | 3936c  | 3198 | 8993 | 2983 | Sa.2402   | 1 | 9.3    |
| #43819A  | Boussingault T | 3936d  | 3110 | 8906 | 3320 | Sa.2372   | 1 | 11.4   |
| 43819B   | Boussingault D | 3936e  | 3146 | 8947 | 3171 | Sa.2386   | 1 | 5.4    |
| 43820    |                |        | 3278 | 8045 | 4954 | Sa.2435   | 1 | 7.7    |
| 43826    | Nearch A       | 3951   | 3214 | 8671 | 3807 | Sa.2408   | 1 | 24.6   |
| 43846    | Rosenberger E  | 3962   | 3487 | 8602 | 3721 | Sa.2504   | 1 | 6.6    |
| 43862    | Rosenberger F  | 3957a  | 3638 | 8287 | 4254 | Sa.2544   | 1 | 3.5    |
| 43867    | Hagecius C     | 3944   | 3607 | 8716 | 3320 | Ar.       | 1 | 13.1   |

| Ref.    | Designation       | B&M   | $\xi$<br>+ | $\eta$<br>- | $\zeta$<br>+ | Authority | M | Diam. |
|---------|-------------------|-------|------------|-------------|--------------|-----------|---|-------|
| *#43870 | Vlacq $\alpha$    | 3977  | 3717       | 8010        | 4693         | Sa.2561   | 2 | (CP)  |
| 43890   | Rosenberger G     | 3965a | 3907       | 8080        | 4409         | Sa.2612   | 1 | 5.0   |
| 43894   | Hagecius D        | 3945  | 3969       | 8403        | 3693         | Ar.       | 1 | 9.8   |
| 43897   | Hagecius L        | 3948a | 3938       | 8793        | 2679         | Sa.2615   | 1 | 4.3   |
| 43904   | Neumayer          | 3931  | 3058       | 9464        | 1034         | Fr.1068   | 2 | 46.3  |
| 43904A  | Neumayer M        | 3931a | 3098       | 9496        | 0476         | Fr. 163   | 2 | 17.9  |
| #43910  | Boussingault C    | 3937  | 3137       | 9066        | 2923         | Sa.2383   | 1 | 13.9  |
| #43920  | Boussingault R    | 3936b | 3260       | 9013        | 2851         | Sa.2429   | 1 | 7.1   |
| #43921  | Helmholtz D       | 3927  | 3260       | 9162        | 2331         | Sa.2430   | 1 | 26.3  |
| #43930  | Helmholtz A       | 3925  | 3382       | 9018        | 2690         | Sa.2472   | 1 | 9.2   |
| 43952   | Helmholtz B       | 3932a | 3512       | 9255        | 1420         | Sa.2510   | 1 | 5.5   |
| 43990   | Helmholtz H       | 3930  | 3905       | 9019        | 1845         | Sa.2611   | 1 | 10.1  |
| #43990A | Helmholtz J       | 3930a | 3957       | 9047        | 1582         | Sa.2619   | 1 | 12.8  |
| #44001  | Moltke            | 3667  | 4096       | 0100        | 9122         | Sa.2642   | 3 | 3.7   |
| 44007   | Hypatia H         | 3665a | 4066       | 0778        | 9103         | Sa.2638   | 1 | 2.9   |
| 44016   |                   |       | 4194       | 0621        | 9057         | Sa.2660   | 2 | 3.4   |
| 44021   | Moltke B          | 3667b | 4258       | 0181        | 9047         | Sa.2675   | 1 | 2.8   |
| 44023   |                   |       | 4268       | 0312        | 9038         | Sa.2678   | 1 | 2.0   |
| 44025   |                   |       | 4267       | 0579        | 9026         | Sa.2677   | 3 | 4.2   |
| 44026   |                   |       | 4233       | 0629        | 9038         | Sa.2668   | 1 | 3.0   |
| 44027   |                   |       | 4247       | 0701        | 9026         | Sa.2671   | 2 | 3.6   |
| 44029   |                   |       | 4244       | 0940        | 9006         | Sa.2670   | 1 | 2.3   |
| 44032   |                   |       | 4352       | 0274        | 8999         | Sa.2694   | 1 | 1.8   |
| #44034  | Torricelli C      | 4227  | 4378       | 0470        | 8979         | Sa.2696   | 5 | 6.4   |
| 44038   | Torricelli $\eta$ | 4232a | 4309       | 0862        | 8983         | Sa.2685   | 1 | (P)   |

| Ref.   | Designation          | B&M   | $\xi$<br>+ | $\eta$<br>- | $\zeta$<br>+ | Authority | M | Diam. |
|--------|----------------------|-------|------------|-------------|--------------|-----------|---|-------|
| 44039  |                      |       | 4386       | 0997        | 8931         | Sa.2698   | 1 | 2.1   |
| 44052  | Torricelli G         | 4228a | 4528       | 0247        | 8913         | Sa.2710   | 1 | 2.0   |
| *44053 | Torricelli D         | 4227a | 4528       | 0312        | 8911         | Sa.2709   | 1 | (S)   |
| 44059  |                      |       | 4511       | 0910        | 8878         | Sa.2707   | 1 | 1.8   |
| 44062  | Torricelli $\zeta$   | 4233a | 4614       | 0229        | 8869         | Sa.2719   | 1 | (P)   |
| 44067  |                      |       | 4607       | 0739        | 8845         | Sa.2718   | 1 | 1.9   |
| 44068  |                      |       | 4626       | 0846        | 8825         | Sa.2721   | 1 | 1.9   |
| 44081  |                      |       | 4823       | 0177        | 8758         | Sa.2740   | 1 | 2.3   |
| 44084  | Torricelli B         | 4226  | 4868       | 0452        | 8724         | Sa.2745   | 3 | 4.0   |
| #44097 | Torricelli A         | 4225  | 4951       | 0788        | 8653         | Sa.2755   | 2 | 6.1   |
| 44111  |                      |       | 4160       | 1162        | 9019         | Sa.2655   | 1 | 2.1   |
| 44118  | Theophilus B         | 4220  | 4187       | 1835        | 8894         | Sa.2658   | 2 | 5.0   |
| 44160  |                      |       | 4661       | 1024        | 8788         | Sa.2728   | 1 | 2.0   |
| 44186  | Mädler A             | 4222a | 4899       | 1648        | 8560         | Sa.2749   | 1 | 2.8   |
| #44189 | Mädler               | 4222  | 4874       | 1907        | 8521         | Sa.2746   | 1 | 16.0  |
| 44202  |                      |       | 4048       | 2268        | 8858         | Sa.2634   | 2 | (P)   |
| #44217 | Cyrillus E           | 4181  | 4119       | 2737        | 8692         | Sa.2649   | 3 | 6.0   |
| #44229 | Beaumont D           | 4158  | 4222       | 2935        | 8577         | Sa.2665   | 5 | 6.6   |
| 44230  | Theophilus $\alpha$  | 4196  | 4330       | 2012        | 8787         | Sa.2692   | 1 | (P)   |
| 44231  |                      |       | 4320       | 2171        | 8753         | Ar.       | 1 | 4.0   |
| #44236 | Cyrillus G           | 4183  | 4324       | 2697        | 8604         | Sa.2688   | 3 | 4.2   |
| 44259  | Beaumont H           | 4157b | 4540       | 2963        | 8403         | Sa.2713   | 1 | 4.0   |
| 44284  | Beaumont L           | 4157d | 4846       | 2489        | 8386         | Sa.2742   | 1 | 2.6   |
| 44301  | Catharina $\epsilon$ | 4174a | 4032       | 3169        | 8585         | Sa.2632   | 1 | (P)   |
| 44303  | Catharina H          | 4167a | 4050       | 3304        | 8525         | Sa.2635   | 1 | 3.5   |

| Ref.   | Designation   | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam.   |
|--------|---------------|-------|--------|--------|--------|-----------|---|---------|
| 44307  |               |       | 4055   | 3722   | 8349   | Sa.2637   | 1 | 2.4     |
| 44321  | Beaumont F    | 4158b | 4255   | 3144   | 8486   | Sa.2674   | 1 | 5.9     |
| #44322 | Beaumont B    | 4156  | 4277   | 3207   | 8451   | Sa.2679   | 4 | 9.4     |
| 44324  | Beaumont G    | 4157a | 4283   | 3477   | 8341   | Sa.2681   | 3 | 4.7     |
| 44324A |               |       | 4202   | 3409   | 8410   | Sa.2661   | 2 | 3.5     |
| 44325  | Polybius δ    | 4112e | 4232   | 3572   | 8327   | Sa.2667   | 1 | (P)     |
| 44337  | Polybius L    | 4112d | 4383   | 3743   | 8172   | Sa.2697   | 2 | 4.1     |
| #44339 | Polybius A    | 4108  | 4325   | 3910   | 8125   | Sa.2689   | 4 | 9.7     |
| 44344  | Beaumont C    | 4156a | 4401   | 3458   | 8287   | Sa.2701   | 2 | 3.8     |
| 44346  | Polybius ε    | 4112f | 4470   | 3670   | 8158   | Sa.2704   | 1 | (P)     |
| 44370  | Beaumont K    | 4157c | 4773   | 3003   | 8259   | Sa.2738   | 1 | 3.3     |
| 44401  | Polybius E    | 4112  | 4023   | 4133   | 8169   | Sa.2630   | 3 | 5.1     |
| 44409  | Rothmann A    | 4053a | 4045   | 4916   | 7712   | Sa.2633   | 1 | 4.2     |
| 44415  | Polybius D    | 4111  | 4181   | 4519   | 7880   | Sa.2657   | 4 | 5.2     |
| 44418  | Rothmann F    | 4055c | 4110   | 4878   | 7701   | Sa.2647   | 1 | 4.4     |
| 44432  |               |       | 4396   | 4255   | 7910   | Sa.2699   | 2 | 3.2     |
| #44443 | Piccolomini K | 4083a | 4473   | 4334   | 7824   | Sa.2705   | 2 | 4.3     |
| 44454  | Piccolomini O | 4083e | 4548   | 4495   | 7688   | Sa.2714   | 1 | 6.3     |
| #44466 | Piccolomini M | 4083  | 4670   | 4677   | 7505   | Sa.2731   | 2 | 14.3    |
| 44469  | Piccolomini δ | 4088  | 4621   | 4947   | 7360   | Fr. 230   | 3 | (CP)    |
| 44474  | Piccolomini E | 4079  | 4735   | 4403   | 7629   | Sa.2735   | 1 | 10.9    |
| #44475 | Piccolomini D | 4078  | 4765   | 4528   | 7536   | Sa.2736   | 3 | 9.7     |
| #44494 | Piccolomini L | 4083b | 4994   | 4401   | 7462   | Sa.2757   | 3 | 7.0     |
| 44502  | Rothmann B    | 4054  | 4053   | 5273   | 7468   | Sa.2636   | 1 | 13.0    |
| 44509  | Wöhler C      | 4064c | 4085   | 5981   | 6895   | Sa.2641   | 1 | 5.6x7.8 |

| Ref.   | Designation   | B&M          | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam. |
|--------|---------------|--------------|--------|--------|--------|-----------|---|-------|
| 44514  | Rothmann E    | 4055b        | 4106   | 5443   | 7316   | Sa.2645   | 1 | 6.7   |
| 44538  | Stiborius F   | 4064d        | 4356   | 5847   | 6844   | Sa.2695   | 1 | 4.8   |
| *44572 |               |              | 4796   | 5231   | 7046   | Ar.       | 1 | 14.2  |
| 44600  | Wöhler B      | 4064b        | 4082   | 6052   | 6835   | Sa.2640   | 1 | 4.7   |
| 44611  | Wöhler        | 4064         | 4100   | 6192   | 6697   | Sa.2644   | 2 | 15.1  |
| 44618  | Janssen B     | 4489a        | 4129   | 6837   | 6018   | Sa.2651   | 3 | 12.8  |
| 44628  | Janssen C     | 4488a        | 4204   | 6802   | 6004   | Sa.2662   | 1 | 3.8   |
| 44630  | Stiborius B   | 4063a        | 4397   | 6061   | 6628   | Sa.2700   | 2 | 5.6   |
| #44636 | Janssen M     | 4487a        | 4326   | 6676   | 6060   | Sa.2690   | 3 | 9.1   |
| 44655  | Brenner F     | 4465b        | 4579   | 6524   | 6039   | Sa.2716   | 3 | 8.0   |
| 44660  | Stiborius A   | 4063         | 4655   | 6001   | 6506   | Sa.2725   | 2 | 18.6  |
| 44660A | Stiborius G   | 4064e        | 4659   | 6056   | 6451   | Sa.2726   | 3 | 5.5   |
| 44671  |               |              | 4720   | 6113   | 6352   | Ar.       | 1 | 4.9   |
| 44694  | Brenner A     | 4462         | 4901   | 6478   | 5832   | Sa.2750   | 2 | 18.1  |
| 44697  | Fabricius     | 4469         | 4903   | 6797   | 5455   | Sa.2751   | 1 | 44.9  |
| 44703  | Lockyer F     | 3974<br>4481 | 4018   | 7374   | 5430   | Sa.2628   | 1 | 11.4  |
| 44712  | Lockyer       | 4479         | 4129   | 7223   | 5548   | Sa.2652   | 2 | 19.8  |
| 44725  | Janssen E     | 4485         | 4228   | 7524   | 5052   | Sa.2666   | 3 | 14.4  |
| 44741  |               |              | 4429   | 7150   | 5409   | Ar.       | 1 | 3.7   |
| 44748  | Rosenberger B | 3959         | 4444   | 7874   | 4271   | Sa.2703   | 1 | 19.1  |
| #44761 | Janssen K     | 4488         | 4660   | 7199   | 5144   | Sa.2727   | 3 | 9.0   |
| 44766  | Watt A        | 4499a        | 4631   | 7692   | 4403   | Sa.2722   | 1 | 5.5   |
| 44771  |               |              | 4784   | 7183   | 5052   | Ar.       | 1 | 6.9   |
| 44776  | Watt B        | 4499b        | 4770   | 7672   | 4288   | Sa.2737   | 1 | 3.4   |
| #44791 | Fabricius J   | 4471a        | 4943   | 7168   | 4917   | Sa.2752   | 3 | 9.3   |

| Ref.   | Designation    | B&M   | ξ <sub>+</sub> | η <sub>-</sub> | ζ <sub>+</sub> | Authority | M | Diam.   |
|--------|----------------|-------|----------------|----------------|----------------|-----------|---|---------|
| 44811  | Rosenberger H  | 3965b | 4167           | 8177           | 3971           | Sa.2656   | 1 | 7.0     |
| 44821  | Rosenberger K  | 3965c | 4295           | 8136           | 3919           | Sa.2683   | 1 | 10.5    |
| #44828 | Helmholtz G    | 3929  | 4280           | 8800           | 2060           | Sa.2680   | 1 | 22.4    |
| #44861 | Biela C        | 4514  | 4697           | 8110           | 3487           | Sa.2733   | 1 | 14.8    |
| 44874  | Pontécoulant A | 4518  | 4760           | 8446           | 2451           | Fr. 174   | 3 | 10.7    |
| 44876  | Pontécoulant D | 4521  | 4717           | 8681           | 1548           | Fr.1162   | 1 | 5.9     |
| 44886  | Hanno E        | 4530  | 4875           | 8601           | 1501           | Fr.1095   | 1 | 10.5    |
| 45019  |                |       | 5131           | 0991           | 8526           | Ar.       | 1 | 3.0x5.0 |
| 45023  | Censorinus B   | 4237  | 5213           | 0350           | 8527           | Sa.2778   | 1 | 4.5     |
| 45029  |                |       | 5279           | 0923           | 8443           | Ar.       | 1 | 3.9     |
| #45030 | Censorinus     | 4235  | 5399           | 0069           | 8417           | Sa.2795   | 1 | (s)     |
| 45036  | Isidorus H     | 4294b | 5381           | 0685           | 8401           | Sa.2794   | 1 | 4.1     |
| 45039  | Isidorus E     | 4295  | 5366           | 0936           | 8386           | Sa.2791   | 3 | 8.7     |
| 45040  | Censorinus A   | 4236  | 5445           | 0073           | 8387           | Sa.2802   | 1 | 3.8     |
| 45053  | Censorinus H   | 4243a | 5546           | 0321           | 8315           | Sa.2810   | 1 | 5.0     |
| #45057 | Isidorus D     | 4286  | 5588           | 0742           | 8260           | Sa.2813   | 4 | 8.8     |
| 45059  |                |       | 5566           | 0963           | 8252           | Ar.       | 1 | 3.7     |
| 45083  | Censorinus D   | 4239  | 5862           | 0331           | 8095           | Sa.2823   | 1 | 5.9     |
| 45096  |                |       | 5979           | 0631           | 7991           | Ar.       | 1 | 6.7     |
| 45097  | Capella M      | 4289  | 5996           | 0773           | 7966           | Sa.2831   | 1 | 6.7     |
| 45099  | Capella C      | 4285  | 5906           | 0999           | 8008           | Sa.2824   | 1 | 4.9     |
| 45121  | Isidorus G     | 4294a | 5214           | 1112           | 8460           | Sa.2779   | 1 | 4.5     |
| #45143 | Isidorus A     | 4292  | 5419           | 1393           | 8289           | Sa.2799   | 2 | 6.8     |
| 45145  | Isidorus K     | 4294c | 5430           | 1547           | 8254           | Sa.2801   | 1 | 4.1     |
| *45148 | Daguerre B     | 4145b | 5449           | 1872           | 8173           | Sa.2803   | 1 | (s)     |

| Ref.   | Designation    | B&M   | ξ <sub>+</sub> | η <sub>-</sub> | ζ <sub>+</sub> | Authority | M | Diam. |
|--------|----------------|-------|----------------|----------------|----------------|-----------|---|-------|
| 45152  |                |       | 5580           | 1200           | 8211           | Ar.       | 1 | 3.3   |
| 45155  | Isidorus F     | 4295a | 5560           | 1524           | 8171           | Sa.2811   | 1 | 11.8  |
| 45163  | Capella α      | 4276  | 5679           | 1312           | 8126           | Sa.2817   | 2 | (CP)  |
| 45170  |                |       | 5737           | 1042           | 8124           | Ar.       | 1 | 4.2   |
| 45175  | Capella F      | 4285a | 5719           | 1595           | 8047           | Sa.2819   | 2 | 7.8   |
| 45181  |                |       | 5895           | 1105           | 8002           | Ar.       | 1 | 5.1   |
| 45186  | Capella J      | 4284a | 5805           | 1642           | 7975           | Sa.2822   | 2 | 5.8   |
| 45191  | Capella G      | 4285b | 5960           | 1189           | 7942           | Sa.2828   | 1 | 7.1   |
| 45193  | Capella A      | 4283  | 5991           | 1331           | 7895           | Sa.2830   | 2 | 7.7   |
| 45196  | Capella B      | 4284  | 5911           | 1640           | 7897           | Sa.2825   | 1 | 4.6   |
| 45202  |                |       | 5003           | 2234           | 8365           | Ar.       | 1 | 1.7   |
| 45203  |                |       | 5044           | 2313           | 8319           | Ar.       | 1 | 1.6   |
| 45204  |                |       | 5029           | 2451           | 8289           | Ar.       | 1 | 2.0   |
| 45230  | Mädler ζ       | 4223  | 5345           | 2031           | 8204           | Sa.2787   | 1 | (P)   |
| 45244  |                |       | 5494           | 2418           | 7998           | Ar.       | 1 | 1.9   |
| 45255  |                |       | 5504           | 2568           | 7944           | Ar.       | 1 | 2.0   |
| 45263  |                |       | 5621           | 2396           | 7916           | Ar.       | 1 | 2.0   |
| 45265  |                |       | 5635           | 2598           | 7842           | Ar.       | 1 | 1.8   |
| 45271  |                |       | 5714           | 2109           | 7931           | Ar.       | 1 | 3.0   |
| 45319  | Fracastorius N | 4127c | 5137           | 3943           | 7620           | Sa.2772   | 1 | 6.2   |
| #45340 | Rosse          | 4143  | 5453           | 3073           | 7799           | Sa.2804   | 3 | 6.9   |
| 45365  | Fracastorius J | 4126b | 5673           | 3552           | 7430           | Sa.2816   | 1 | 7.1   |
| 45368  | Fracastorius B | 4119  | 5602           | 3836           | 7342           | Sa.2814   | 1 | 15.4  |
| 45411  | Fracastorius C | 4120  | 5161           | 4160           | 7487           | Sa.2774   | 2 | 10.0  |



| Ref.   | Designation    | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam. |
|--------|----------------|-------|--------|--------|--------|-----------|---|-------|
| 45415  | Weinek A       | 4419a | 5187   | 4529   | 7251   | Sa.2776   | 1 | 5.7   |
| 45417  | Neander C      | 4421  | 5158   | 4792   | 7102   | Sa.2773   | 2 | 11.4  |
| 45436  | Weinek         | 4419  | 5350   | 4622   | 7072   | Sa.2788   | 1 | 18.6  |
| 45441  | Fracastorius A | 4118  | 5417   | 4131   | 7321   | Sa.2798   | 1 | 10.5  |
| 45455  | Weinek B       | 4419b | 5530   | 4524   | 6997   | Sa.2809   | 1 | 6.0   |
| 45471  |                |       | 5765   | 4163   | 7031   | Ar.       | 1 | 3.8   |
| 45477  |                |       | 5783   | 4755   | 6629   | Ar.       | 1 | 3.3   |
| 45480  |                |       | 5831   | 4079   | 7026   | Ar.       | 1 | 5.2   |
| 45488  |                |       | 5846   | 4879   | 6482   | Ar.       | 1 | 4.9   |
| 45497  |                |       | 5946   | 4751   | 6486   | Ar.       | 1 | 5.1   |
| 45498  | Reichenbach K  | 4417a | 5916   | 4829   | 6457   | Sa.2826   | 1 | 6.4   |
| 45500  | Piccolomini P  | 4083f | 5063   | 5075   | 6972   | Sa.2763   | 3 | 6.0   |
| 45507  | Neander M      | 4427d | 5019   | 5707   | 6499   | Sa.2760   | 1 | 6.1   |
| 45513  | Neander N      | 4427b | 5116   | 5366   | 6711   | Sa.2769   | 1 | 9.1   |
| 45518  | Neander O      | 4427c | 5125   | 5824   | 6310   | Sa.2771   | 1 | 7.4   |
| 45524  | Neander R      | 4427e | 5220   | 5495   | 6523   | Sa.2780   | 2 | 6.7   |
| 45541  | Neander        | 4418  | 5488   | 5197   | 6548   | Sa.2807   | 1 | 30.1  |
| 45541A | Neander A      | 4418a | 5472   | 5141   | 6605   | Fr.1151   | 2 | 7.1   |
| 45562  |                |       | 5696   | 5204   | 6362   | Ar.       | 1 | 11.9  |
| 45564  |                |       | 5601   | 5425   | 6261   | Ar.       | 1 | 5.1   |
| 45565  | Neander λ      | 4428a | 5671   | 5519   | 6114   | Sa.2815   | 1 | (P)   |
| 45574  |                |       | 5787   | 5497   | 6024   | Ar.       | 1 | 10.8  |
| 45577  |                |       | 5708   | 5751   | 5860   | Ar.       | 1 | 5.5   |
| 45591  |                |       | 5902   | 5179   | 6192   | Ar.       | 1 | 9.9   |

| Ref.   | Designation     | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam. |
|--------|-----------------|-------|--------|--------|--------|-----------|---|-------|
| 45602  | Brenner E       | 4465a | 5053   | 6281   | 5917   | Sa.2762   | 1 | 8.1   |
| 45604  |                 |       | 5066   | 6469   | 5700   | Ar.       | 1 | 4.1   |
| #45618 | Fabricius B     | 4471  | 5124   | 6887   | 5129   | Sa.2770   | 1 | 10.0  |
| 45623  |                 |       | 5228   | 6385   | 5648   | Ar.       | 1 | 4.5   |
| 45623A |                 |       | 5281   | 6303   | 5690   | Ar.       | 1 | 5.6   |
| 45644  | Metius G        | 4465c | 5422   | 6474   | 5356   | Sa.2800   | 2 | 5.3   |
| 45651  | Rheita P        | 4442a | 5531   | 6148   | 5622   | Fr.1170   | 1 | 6.1   |
| 45657  | Metius D        | 4465  | 5513   | 6767   | 4881   | Sa.2808   | 1 | 6.2   |
| 45671  |                 |       | 5799   | 6158   | 5334   | Ar.       | 1 | 5.9   |
| 45673  |                 |       | 5778   | 6300   | 5188   | Ar.       | 1 | 5.8   |
| 45678  | Young D         | 4445  | 5712   | 6877   | 4481   | Ar.       | 1 | 26.6  |
| 45685  |                 |       | 5880   | 6569   | 4719   | Ar.       | 2 | 7.3   |
| 45692  |                 |       | 5940   | 6274   | 5035   | Ar.       | 1 | 3.9   |
| #45711 | Steinheil H     | 4506  | 5107   | 7157   | 4764   | Sa.2767   | 1 | 11.2  |
| #45731 | Steinheil G     | 4505  | 5356   | 7149   | 4495   | Sa.2789   | 2 | 11.0  |
| 45736  | Watt E          | 4502a | 5315   | 7620   | 3699   | Fr.1187   | 2 | 5.7   |
| 45750  | Young F         | 4504  | 5571   | 7048   | 4392   | Fr. 205   | 4 | 13.1  |
| 45769  | Hanno B         | 4528  | 5662   | 7941   | 2211   | Fr.1093   | 1 | 20.5  |
| 45769A | Hanno F         | 4528a | 5680   | 7909   | 2277   | Sa.2818   | 1 | 5.0   |
| #45775 | Reimarus H      | 4503a | 5770   | 7568   | 3071   | Sa.2820   | 1 | 5.9   |
| 45781  |                 |       | 5828   | 7197   | 3774   | Ar.       | 1 | 24.0  |
| 45805  | Hanno D         | 4530a | 5026   | 8582   | 1041   | Fr.1094   | 2 | 10.2  |
| *45814 |                 |       | 5166   | 8446   | 1407   | Fr. 175   | 3 | 32.4  |
| 45871  | Mare Australe L | 4531b | 5778   | 8126   | 0762   | Fr.1353   | 2 | 40.5  |

| Ref.   | Designation        | B&M   | $\xi$<br>+ | $\eta$<br>- | $\zeta$<br>+ | Authority | M | Diam.  |
|--------|--------------------|-------|------------|-------------|--------------|-----------|---|--------|
| 46001  |                    |       | 6092       | 0171        | 7928         | Ar.       | 1 | 5.4    |
| 46005  | Censorinus F       | 4241  | 6071       | 0553        | 7927         | Sa.2836   | 2 | 7.4    |
| 46035  |                    |       | 6353       | 0500        | 7706         | Ar.       | 1 | 4.0    |
| 46036  | Lubbock G          | 4264  | 6321       | 0642        | 7723         | Sa.2849   | 1 | 6.0    |
| 46038  |                    |       | 6305       | 0859        | 7714         | Ar.       | 1 | 3.7    |
| 46038A |                    |       | 6384       | 0843        | 7650         | Ar.       | 1 | 4.0    |
| 46066  | Lubbock            | 4261  | 6644       | 0681        | 7442         | Ar.       | 1 | 8.4    |
| 46081  |                    |       | 6898       | 0135        | 7239         | Ar.       | 1 | 2.7    |
| 46104  | Capella H          | 4285c | 6012       | 1418        | 7864         | Sa.2833   | 1 | 4.9    |
| 46109  | Gaudibert C        | 4314a | 6008       | 1996        | 7741         | Sa.2832   | 1 | 4.9    |
| #46115 | Gutenberg B        | 4313  | 6126       | 1580        | 7745         | Sa.2840   | 1 | 8.9    |
| #46119 | Gaudibert J        | 4320  | 6195       | 1935        | 7608         | Sa.2846   | 2 | 5.8    |
| 46121  | Gutenberg $\eta$   | 4308a | 6254       | 1114        | 7723         | Sa.2847   | 1 | (P)    |
| 46130  | Gutenberg G (CP)   |       | 6397       | 1069        | 7612         | Ar.       | 1 | (17.8) |
| 46130A | Gutenberg G        | 4318  | 6394       | 1056        | 7617         | Ar.       | 1 | 17.8   |
| #46135 | Gutenberg A        | 4312  | 6342       | 1567        | 7572         | Sa.2851   | 3 | 8.5    |
| 46142  |                    |       | 6481       | 1253        | 7512         | Ar.       | 1 | 3.5    |
| 46167  |                    |       | 6664       | 1767        | 7244         | Ar.       | 1 | 3.8    |
| 46169  | Gutenberg D        | 4315  | 6677       | 1901        | 7197         | Fr.1092   | 2 | 11.7   |
| 46197  | Goclenius $\alpha$ | 4327  | 6928       | 1723        | 7002         | Ar.       | 1 | (P)    |
| 46215  | Bohnenberger F     | 4365  | 6175       | 2534        | 7447         | Sa.2843   | 2 | 5.3    |
| 46217  | Bohnenberger       | 4357  | 6188       | 2793        | 7342         | Sa.2845   | 1 | 19.0   |
| #46219 | Bohnenberger G     | 4359  | 6155       | 2950        | 7308         | Sa.2841   | 2 | 7.0    |
| 46225  |                    |       | 6257       | 2559        | 7369         | Ar.       | 2 | 2.9    |
| 46247  | Colombo E          | 4350  | 6486       | 2721        | 7108         | Ar.       | 1 | 9.7    |

| Ref.   | Designation      | B&M   | $\xi$<br>+ | $\eta$<br>- | $\zeta$<br>+ | Authority | M | Diam.  |
|--------|------------------|-------|------------|-------------|--------------|-----------|---|--------|
| 46249  | Bohnenberger E   | 4363  | 6402       | 2998        | 7073         | Ar.       | 1 | 6.7    |
| 46250  |                  |       | 6564       | 2018        | 7269         | Ar.       | 1 | 3.0    |
| 46274  | Colombo A        | 4348  | 6794       | 2442        | 6919         | Ar.       | 1 | 23.8   |
| 46280  | Magelhaens       | 4335  | 6808       | 2061        | 7029         | Ar.       | 1 | 22.2   |
| 46281  | Magelhaens A     | 4336  | 6898       | 2199        | 6898         | Fr.1144   | 2 | 17.6   |
| 46288  | Colombo B        | 4349  | 6810       | 2824        | 6756         | Fr.1073   | 2 | 9.0    |
| 46290  |                  |       | 6982       | 2048        | 6860         | Ar.       | 1 | (P)    |
| 46295  | Colombo (CP)     |       | 6944       | 2597        | 6711         | Ar.       | 2 | (45.0) |
| 46297  |                  |       | 6946       | 2731        | 6655         | Ar.       | 1 | 2.6    |
| 46321  |                  |       | 6245       | 3120        | 7160         | Ar.       | 2 | 5.6    |
| 46322  |                  |       | 6261       | 3278        | 7075         | Ar.       | 2 | 8.2    |
| 46334  |                  |       | 6383       | 3487        | 6863         | Ar.       | 2 | 5.5    |
| 46341  | Bohnenberger D   | 4362  | 6438       | 3146        | 6975         | Ar.       | 2 | 8.0    |
| 46342  |                  |       | 6459       | 3279        | 6894         | Ar.       | 1 | 5.4    |
| 46346  |                  |       | 6478       | 3672        | 6675         | Ar.       | 1 | 5.0    |
| 46355  | Santbech $\beta$ | 4390  | 6509       | 3540        | 6716         | Fr.1173   | 2 | (CP)   |
| 46357  | Santbech E       | 4387a | 6519       | 3798        | 6564         | Ar.       | 1 | 6.3    |
| 46372  |                  |       | 6743       | 3238        | 6637         | Ar.       | 1 | 4.8    |
| 46392  | Monge            | 4375  | 6974       | 3293        | 6366         | Ar.       | 1 | 21.3   |
| 46397  | Biot A           | 4397  | 6979       | 3778        | 6084         | Fr.1064   | 2 | 8.4    |
| #46401 | Santbech B       | 4385  | 6038       | 4179        | 6788         | Sa.2835   | 1 | 9.0    |
| 46403  | Santbech F       | 4388a | 6037       | 4318        | 6701         | Fr.1175   | 1 | 7.4    |
| 46404  |                  |       | 6038       | 4460        | 6607         | Ar.       | 1 | 6.7    |
| 46412  |                  |       | 6166       | 4264        | 6618         | Ar.       | 1 | 4.7    |
| 46415  |                  |       | 6103       | 4553        | 6482         | Ar.       | 1 | 5.0    |

| Ref.   | Designation       | B&M   | $\xi$<br>+ | $\eta$<br>- | $\zeta$<br>+ | Authority | M | Diam. |
|--------|-------------------|-------|------------|-------------|--------------|-----------|---|-------|
| 46451  |                   |       | 6566       | 4149        | 6298         | Ar.       | 1 | 3.7   |
| 46455  |                   |       | 6593       | 4539        | 5994         | Ar.       | 1 | 9.5   |
| 46455A |                   |       | 6523       | 4534        | 6074         | Ar.       | 1 | 6.8   |
| 46456  |                   |       | 6509       | 4614        | 6028         | Ar.       | 1 | 7.0   |
| 46467  | Reichenbach A     | 4411  | 6637       | 4735        | 5791         | Fr.1164   | 2 | 19.5  |
| 46468  | Reichenbach H     | 4411a | 6676       | 4827        | 5668         | Fr.1168   | 1 | 6.4   |
| 46484  |                   |       | 6886       | 4467        | 5712         | Ar.       | 1 | 5.7   |
| 46485  |                   |       | 6855       | 4596        | 5647         | Ar.       | 1 | 9.6   |
| 46492  |                   |       | 6980       | 4237        | 5773         | Ar.       | 2 | 6.2   |
| 46495  |                   |       | 6919       | 4505        | 5642         | Ar.       | 1 | 10.9  |
| 46496  |                   |       | 6908       | 4694        | 5500         | Ar.       | 1 | 6.9   |
| 46504  |                   |       | 6093       | 5437        | 5771         | Ar.       | 1 | 7.4   |
| 46512  |                   |       | 6101       | 5293        | 5896         | Ar.       | 1 | 8.5   |
| 46517  | Rheita F          | 4416  | 6103       | 5792        | 5404         | Fr.1166   | 2 | 8.0   |
| 46537  | Stevinus D        | 4610  | 6371       | 5706        | 5183         | Fr.1190   | 2 | 12.4  |
| 46542  | Reichenbach G     | 4412a | 6458       | 5264        | 5530         | Fr.1167   | 1 | 8.9   |
| 46547  | Stevinus E        | 4611  | 6470       | 5778        | 4975         | Fr.1191   | 2 | 9.1   |
| 46562  | Stevinus A        | 4607  | 6669       | 5277        | 5261         | Fr. 228   | 7 | 4.7   |
| 46565  | Stevinus C        | 4609  | 6649       | 5506        | 5048         | Fr.1189   | 2 | 11.0  |
| *46583 | Stevinus $\alpha$ | 4603  | 6847       | 5366        | 4931         | Fr.1188   | 2 | (CP)  |
| *46601 | Rheita A          | 4442  | 6046       | 6171        | 5037         | Fr.1169   | 2 | 9.5   |
| 46613  | Rheita B          | 4443  | 6180       | 6301        | 4701         | Fr. 218   | 5 | 12.0  |
| 46614  | Rheita G          | 4443a | 6174       | 6499        | 4432         | Fr.1171   | 1 | 8.4   |
| 46631  |                   |       | 6324       | 6100        | 4775         | Ar.       | 1 | 5.6   |
| 46660  | Furnerius D       | 4579  | 6612       | 6022        | 4474         | Fr.1088   | 2 | 9.3   |

| Ref.    | Designation        | B&M   | $\xi$<br>+ | $\eta$<br>- | $\zeta$<br>+ | Authority                         | M   | Diam.   |
|---------|--------------------|-------|------------|-------------|--------------|-----------------------------------|-----|---------|
| 46662   | Fraunhofer G       | 4567  | 6669       | 6227        | 4092         | Fr. 219                           | 9   | 6.3     |
| 46663   | Fraunhofer         | 4560  | 6625       | 6358        | 3961         | Ar.                               | 1   | 32.8    |
| 46694   |                    |       | 6934       | 6451        | 3209         | Ar.                               | 1   | 13.6    |
| 46698   | Oken A             | 4545a | 6902       | 6850        | 2331         | Fr.1086                           | 3   | 20.5    |
| *46706  |                    |       | 6078       | 7664        | 2079         | Fr. 188                           | 2   | 32.2    |
| 46713   | Vega A             | 4536a | 6168       | 7342        | 2839         | Fr.1196                           | 1   | 7.3     |
| *46718  | Mare Australe H    | 4540c | 6100       | 7818        | 1291         | Fr. <sup>183</sup> <sub>187</sub> | 2,2 | 36.0    |
| *#46721 | Vega               | 4532  | 6284       | 7117        | 3140         | Ar.                               | 1   | 43.5    |
| 46734   | Peirescius G       | 4544  | 6350       | 7439        | 2086         | Fr. 194                           | 2   | 24.5    |
| 46752   | Peirescius C       | 4541  | 6561       | 7221        | 2193         | Fr. 198                           | 2   | 20.9    |
| 46760   | Peirescius A       | 4543  | 6671       | 7097        | 2264         | Fr. 204                           | 4   | 8.5     |
| 46773   | Peirescius $\beta$ | 4534  | 6716       | 7398        | 0414         | Fr. 196                           | 4   | (P)     |
| 47010   |                    |       | 7126       | 0027        | 7017         | Ar.                               | 1   | 3.3     |
| 47015   |                    |       | 7107       | 0583        | 7011         | Ar.                               | 2   | 3.0     |
| #47023  | W. Pickering       | 4255  | 7299       | 0348        | 6827         | Sa.2866                           | 3   | 9.1x6.3 |
| 47026   | Messier D          | 4257  | 7221       | 0622        | 6890         | Fr.1150                           | 2   | 4.6     |
| #47033  | Messier            | 4254  | 7385       | 0328        | 6735         | Sa.2867                           | 2   | 8.8x5.2 |
| *#47041 | Messier B          | 4256  | 7430       | 0153        | 6691         | Sa.2868                           | 1   | 3.7     |
| 47079   |                    |       | 7708       | 0926        | 6303         | Ar.                               | 1   | 2.5     |
| 47099   | Messier G          | 4258a | 7937       | 0938        | 6010         | Fr. 97                            | 6   | 7.4     |
| #47162  | Goclenius A        | 4326  | 7648       | 1207        | 6329         | Sa.2872                           | 1   | 6.7     |
| 47164   |                    |       | 7657       | 1485        | 6259         | Ar.                               | 1   | 2.3     |
| 47175   |                    |       | 7715       | 1531        | 6175         | Ar.                               | 1   | 3.1     |
| 47177   |                    |       | 7703       | 1734        | 6137         | Ar.                               | 1   | 4.5     |
| 47194   |                    |       | 7997       | 1478        | 5819         | Ar.                               | 1   | 2.2     |

| Ref.   | Designation | B&M   | ξ <sub>+</sub> | η <sub>-</sub> | ζ <sub>+</sub> | Authority        | M      | Diam. |
|--------|-------------|-------|----------------|----------------|----------------|------------------|--------|-------|
| 47213  |             |       | 7195           | 2339           | 6539           | Ar.              | 1      | 4.2   |
| 47221  | Bellot      | 4338  | 7280           | 2152           | 6512           | {Fr. 84<br>Ar.}  | 5<br>2 | 9.4   |
| 47234  |             |       | 7369           | 2411           | 6315           | Ar.              | 1      | 6.5   |
| 47236  |             |       | 7313           | 2662           | 6282           | Ar.              | 1      | 5.0   |
| 47246  | McClure     | 4344  | 7422           | 2642           | 6160           | {Fr.1074<br>Ar.} | 2<br>1 | 13.7  |
| 47249  | Cook B      | 4377  | 7491           | 2967           | 5923           | {Fr.1076<br>Ar.} | 2<br>2 | 5.2   |
| 47252  |             |       | 7578           | 2212           | 6138           | Ar.              | 1      | 3.1   |
| 47253  | Crozier     | 4341  | 7534           | 2339           | 6145           | Fr.1145          | 2      | 12.9  |
| 47255  | McClure D   | 4345  | 7598           | 2554           | 5979           | Fr.1075          | 1      | 12.5  |
| 47261  |             |       | 7678           | 2191           | 6021           | Ar.              | 1      | 2.7   |
| 47271  | Crozier B   | 4343  | 7731           | 2169           | 5961           | Ar.              | 1      | 4.6   |
| 47274  |             |       | 7710           | 2446           | 5880           | Ar.              | 1      | 4.7   |
| 47294  |             |       | 7986           | 2401           | 5519           | Ar.              | 1      | 2.3   |
| 47296  |             |       | 7972           | 2678           | 5411           | Ar.              | 1      | 2.7   |
| 47297  |             |       | 7900           | 2732           | 5489           | Ar.              | 1      | 3.3   |
| 47310  | Cook        | 4373  | 7184           | 3013           | 6270           | Ar.              | 1      | 26.9  |
| *47312 | Cook G      | 4374a | 7108           | 3237           | 6245           | {Fr. 236<br>Ar.} | 6<br>1 | 6.3   |
| 47314  | Biot B      | 4398  | 7142           | 3485           | 6070           | Ar.              | 1      | 16.4  |
| #47318 | Biot        | 4396  | 7180           | 3852           | 5797           | Sa.2865          | 1      | 7.4   |
| 47320  | Cook A      | 4376  | 7212           | 3049           | 6220           | Ar.              | 1      | 3.3   |
| 47327  |             |       | 7215           | 3754           | 5818           | Ar.              | 1      | 4.6   |
| 47336  |             |       | 7392           | 3662           | 5652           | Ar.              | 1      | 2.6   |
| 47338  |             |       | 7367           | 3836           | 5569           | Ar.              | 1      | 3.1   |
| 47341  |             |       | 7417           | 3117           | 5939           | Ar.              | 1      | 2.7   |
| 47358  |             |       | 7522           | 3835           | 5358           | Ar.              | 1      | 2.7   |

| Ref.   | Designation  | B&M   | ξ <sub>+</sub> | η <sub>-</sub> | ζ <sub>+</sub> | Authority        | M      | Diam. |
|--------|--------------|-------|----------------|----------------|----------------|------------------|--------|-------|
| 47359  | Wrottesley A | 4653a | 7505           | 3988           | 5270           | Ar.              | 1      | 5.5   |
| 47371  |              |       | 7783           | 3155           | 5429           | Ar.              | 1      | 3.0   |
| 47380  | Cook F       | 4377a | 7846           | 3017           | 5416           | {Fr.1077<br>Ar.} | 1<br>1 | 4.1   |
| 47383  | Petavius B   | 4647  | 7897           | 3396           | 5109           | Fr.1157          | 2      | 19.2  |
| 47401  |              |       | 7018           | 4109           | 5819           | Ar.              | 1      | 5.4   |
| 47401A |              |       | 7047           | 4175           | 5737           | Ar.              | 1      | 4.4   |
| 47403  |              |       | 7058           | 4343           | 5596           | Ar.              | 1      | 3.9   |
| 47411  |              |       | 7196           | 4113           | 5595           | Ar.              | 1      | 3.9   |
| 47413  |              |       | 7125           | 4329           | 5522           | Ar.              | 1      | 5.9   |
| 47416  | Snellius A   | 4614  | 7158           | 4602           | 5252           | Fr.1186          | 2      | 21.3  |
| 47460  | Wrottesley Y | 4654  | 7642           | 4025           | 5040           | Fr.1156          | 2      | (CP)  |
| 47466  | Petavius C   | 4648  | 7672           | 4645           | 4423           | Fr.1158          | 3      | 6.0   |
| *47478 | Hase A       | 4623  | 7784           | 4847           | 3990           | Fr.1096          | 2      | 8.1   |
| *47479 | Hase         | 4622  | 7730           | 4909           | 4019           | Ar.              | 1      | 47.9  |
| 47505  | Furnerius C  | 4578  | 7042           | 5551           | 4427           | Fr.1087          | 2      | 12.7  |
| #47515 | Furnerius A  | 4576  | 7159           | 5524           | 4270           | Sa.2864          | 1      | 7.1   |
| 47537  | Furnerius J  | 4583  | 7387           | 5707           | 3586           | Ar.              | 1      | 14.1  |
| *47561 | Hase         | 4622  | 7662           | 5158           | 3833           | Ar.              | 1      | 32.4  |
| #47572 | Adams B      | 4724  | 7785           | 5231           | 3470           | Sa.2873          | 1      | 16.2  |
| 47577  |              |       | 7750           | 5730           | 2665           | Ar.              | 1      | 11.8  |
| *47589 | Marinus E    | 4558  | 7849           | 5917           | 1839           | Fr. 222          | 6      | 10.0  |
| 47592  | Adams        | 4726  | 7918           | 5269           | 3089           | Ar.              | 1      | 38.1  |
| 47601  |              |       | 7047           | 6134           | 3565           | Ar.              | 1      | 5.9   |
| 47609  | Oken         | 4545  | 7007           | 6911           | 1773           | Fr. 208          | 2      | 44.7  |
| 47611  | Furnerius G  | 4582  | 7151           | 6153           | 3317           | Ar.              | 1      | 19.0  |

| Ref.   | Designation | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam. |
|--------|-------------|-------|--------|--------|--------|-----------|---|-------|
| 47631  | Furnerius K | 4585  | 7303   | 6156   | 2961   | Ar.       | 1 | 20.9  |
| *47634 | Marinus A   | 4554  | 7342   | 6423   | 2199   | Fr. 215   | 3 | 15.5  |
| 47637  | Marinus K   | 4559a | 7307   | 6787   | 0739   | Fr. 212   | 3 | 35.2  |
| 47640  | Furnerius H | 4584  | 7435   | 6099   | 2743   | Ar.       | 1 | 25.2  |
| 47644  | Marinus G   | 4558a | 7410   | 6477   | 1772   | Ar.       | 1 | 12.3  |
| 47651  | Marinus C   | 4556  | 7562   | 6146   | 2246   | Ar.       | 1 | 21.4  |
| 47672  | Marinus D   | 4557  | 7713   | 6204   | 1423   | Fr. 220   | 3 | 29.4  |
| 48026  |             |       | 8299   | 0695   | 5535   | Ar.       | 1 | 2.7   |
| 48027  |             |       | 8241   | 0734   | 5617   | Ar.       | 1 | 3.0   |
| 48028  |             |       | 8291   | 0815   | 5531   | Ar.       | 1 | 3.3   |
| 48028A |             |       | 8228   | 0837   | 5621   | Ar.       | 1 | 2.7   |
| 48048  | Langrenus B | 4687  | 8434   | 0810   | 5311   | Fr.1119   | 2 | 20.6  |
| #48061 | Webb        | 4656  | 8654   | 0162   | 5008   | Sa.2882   | 2 | 13.3  |
| 48063  | Webb H      | 4657  | 8606   | 0365   | 5080   | Fr.1122   | 1 | 6.0   |
| #48069 | Langrenus C | 4688  | 8625   | 0975   | 4965   | Sa.2881   | 1 | 7.6   |
| 48100  |             |       | 8045   | 1019   | 5851   | Ar.       | 1 | 3.2   |
| 48101  |             |       | 8058   | 1141   | 5811   | Ar.       | 1 | 3.6   |
| 48113  |             |       | 8147   | 1326   | 5645   | Ar.       | 1 | 2.0   |
| 48118  | Langrenus D | 4691  | 8129   | 1810   | 5535   | Ar.       | 1 | 4.8   |
| 48119  |             |       | 8120   | 1989   | 5487   | Ar.       | 1 | 3.2   |
| *48120 | Langrenus F | 4692  | 8276   | 1012   | 5522   | Fr.1121   | 2 | 26.7  |
| 48121  |             |       | 8232   | 1134   | 5563   | Ar.       | 1 | 2.7   |
| 48122  |             |       | 8279   | 1296   | 5457   | Ar.       | 1 | 3.0   |
| 48130  |             |       | 8353   | 1066   | 5394   | Ar.       | 1 | 4.7   |
| 48140  | Langrenus K | 4689  | 8414   | 1014   | 5309   | Fr.1124   | 2 | 17.6  |

| Ref.   | Designation  | B&M   | ξ<br>+ | η<br>- | ζ<br>+ | Authority          | M | Diam. |
|--------|--------------|-------|--------|--------|--------|--------------------|---|-------|
| 48141  |              |       | 8445   | 1157   | 5229   | Ar.                | 1 | 3.4   |
| 48165  | Langrenus    | 4677  | 8634   | 1547   | 4802   | Fr.1117            | 1 | 76.3  |
| 48194  | Langrenus J  | 4694a | 8965   | 1439   | 4190   | Fr.1123            | 2 | 8.9   |
| 48202  |              |       | 8043   | 2267   | 5493   | Ar.                | 1 | 2.7   |
| 48209  |              |       | 8008   | 2971   | 5200   | Ar.                | 1 | 2.9   |
| 48211  |              |       | 8194   | 2185   | 5299   | Ar.                | 1 | 2.7   |
| 48216  |              |       | 8173   | 2652   | 5116   | Ar.                | 1 | 3.0   |
| 48220  |              |       | 8252   | 2058   | 5260   | Ar.                | 1 | 3.3   |
| 48229  |              |       | 8210   | 2910   | 4912   | Ar.                | 1 | 4.3   |
| 48243  | Lohse        | 4697  | 8434   | 2366   | 4823   | Fr.1197            | 2 | 24.1  |
| 48246  | Vendelinus H | 4704  | 8470   | 2630   | 4613   | {Fr.1202<br>Ar. 2} | 2 | 4.2   |
| 48250  |              |       | 8527   | 2073   | 4795   | Ar.                | 1 | 7.4   |
| 48261  |              |       | 8610   | 2181   | 4595   | Ar.                | 1 | 7.0   |
| 48263  |              |       | 8653   | 2327   | 4440   | Ar.                | 1 | 3.6   |
| 48265  |              |       | 8604   | 2583   | 4393   | Ar.                | 1 | 3.9   |
| 48273  |              |       | 8759   | 2301   | 4241   | Ar.                | 1 | 4.7   |
| 48275  | Vendelinus C | 4699  | 8730   | 2539   | 4164   | Ar.                | 1 | 48.6  |
| 48281  | Langrenus X  | 4706  | 8833   | 2138   | 4173   | Fr.1201            | 2 | 14.2  |
| 48284  | Vendelinus J | 4705  | 8830   | 2470   | 3991   | Ar.                | 1 | 11.8  |
| #48287 | Vendelinus M | 4699b | 8826   | 2724   | 3831   | Sa.2883            | 1 | 7.5   |
| 48324  |              |       | 8241   | 3480   | 4469   | Ar.                | 1 | 9.0   |
| 48324A |              |       | 8299   | 3454   | 4382   | Ar.                | 1 | 3.4   |
| 48330  | Vendelinus E | 4701  | 8320   | 3079   | 4615   | Fr.1199            | 1 | 12.0  |
| 48330A | Vendelinus L | 4701a | 8395   | 3018   | 4519   | Ar.                | 1 | 9.8   |
| 48332  | Holden       | 4698  | 8380   | 3277   | 4363   | Fr.1198            | 1 | 27.1  |

| Ref.    | Designation       | B&M   | $\xi$ <sub>+</sub> | $\eta$ <sub>-</sub> | $\zeta$ <sub>+</sub> | Authority | M | Diam. |
|---------|-------------------|-------|--------------------|---------------------|----------------------|-----------|---|-------|
| 48340   |                   |       | 8435               | 3008                | 4450                 | Ar.       | 1 | 4.9   |
| 48351   | Vendelinus F      | 4702  | 8594               | 3171                | 4011                 | Fr.1200   | 2 | 17.5  |
| 48352   |                   |       | 8512               | 3252                | 4119                 | Ar.       | 1 | 4.2   |
| 48415   | Palitzsch A       | 4631  | 8126               | 4532                | 3665                 | Fr.1152   | 2 | 17.8  |
| 48428   | Legendre          | 4715  | 8235               | 4826                | 2982                 | Ar.       | 1 | 45.4  |
| 48434   | Palitzsch B       | 4632  | 8330               | 4446                | 3293                 | Fr.1153   | 2 | 22.2  |
| #48455  | Phillips A        | 4742  | 8543               | 4556                | 2502                 | Sa.2880   | 1 | 7.7   |
| 48475   | Humboldt          | 4729  | 8778               | 4573                | 1425                 | Fr.1106   | 2 | 115.9 |
| *48475A | Humboldt $\alpha$ | 4730  | 8780               | 4586                | 1374                 | Fr.1107   | 3 | (CP)  |
| 48483   | Humboldt N        | 4739  | 8859               | 4395                | 1486                 | Fr.1110   | 3 | 6.5   |
| 48522   | Legendre D        | 4725  | 8237               | 5226                | 2200                 | Ar.       | 1 | 33.4  |
| 48523   | Legendre $\delta$ | 4722  | 8264               | 5366                | 1709                 | Fr.1112   | 3 | (P)   |
| 48560   |                   |       | 8620               | 5030                | 0628                 | Ar.       | 1 | 69.0  |
| 49004   | Maclaurin R       | 4669  | 9027               | 0484                | 4276                 | Fr.1137   | 2 | 7.0   |
| 49006   | Maclaurin E       | 4664  | 9095               | 0607                | 4113                 | Fr.1131   | 2 | 11.4  |
| 49023   | Maclaurin         | 4660  | 9268               | 0328                | 3742                 | Fr.1128   | 1 | 29.0  |
| 49025   | Maclaurin A       | 4661  | 9234               | 0532                | 3800                 | Fr.1129   | 2 | 18.2  |
| 49026   | Maclaurin N       | 4668  | 9282               | 0663                | 3662                 | Fr.1135   | 2 | 16.5  |
| 49033   | Maclaurin J       | 4666  | 9353               | 0379                | 3520                 | Fr.1133   | 2 | 17.5  |
| 49038   | Maclaurin M       | 4667  | 9326               | 0836                | 3511                 | Fr.1134   | 2 | 26.5  |
| 49061   | Kästner P         | 4788a | 9688               | 0138                | 2474                 | Fr.1136   | 2 | 11.0  |
| 49063   | Kästner S         | 4788b | 9683               | 0304                | 2480                 | Fr.1138   | 2 | 8.6   |
| 49072   | Kästner N         | 4788  | 9761               | 0217                | 2162                 | Fr.1140   | 2 | 17.0  |
| 49073   | Kästner M         | 4787  | 9792               | 0320                | 2001                 | Fr.1141   | 5 | 18.0  |
| 49074   | Kästner D         | 4785  | 9709               | 0445                | 2354                 | Fr.1139   | 2 | 8.2   |

| Ref.   | Designation             | B&M   | $\xi$ <sub>+</sub> | $\eta$ <sub>-</sub> | $\zeta$ <sub>+</sub> | Authority                         | M | Diam. |
|--------|-------------------------|-------|--------------------|---------------------|----------------------|-----------------------------------|---|-------|
| 49082  | Mare Smythii $\theta$   | 4789g | 9871               | 0291                | 1572                 | Fr.1247                           | 3 | (P)   |
| 49091  | Mare Smythii $\epsilon$ | 4789d | 9998               | 0169                | 0055                 | Fr.1237                           | 2 | (P)   |
| 49092  | Mare Smythii $\delta$   | 4789c | 9938               | 0276                | 1077                 | Fr.1236                           | 2 | (P)   |
| 49093  | Mare Smythii $\gamma$   | 4789b | 9947               | 0334                | 0969                 | Fr.1235                           | 2 | (P)   |
| 49096  | Kästner $\beta$         | 4780  | 9980               | 0619                | 0096                 | Fr.1234                           | 2 | (P)   |
| 49099  | Mare Smythii $\alpha$   | 4789a | 9946               | 0951                | 0400                 | Fr.1233                           | 1 | (P)   |
| 49105  | Langrenus N             | 4690a | 9004               | 1555                | 4062                 | Fr.1125                           | 2 | 6.8   |
| #49106 | Langrenus M             | 4690  | 9030               | 1698                | 3946                 | Sa.2884                           | 2 | 9.8   |
| 49108  | Langrenus A             | 4686  | 9061               | 1836                | 3812                 | Fr.1118                           | 2 | 24.6  |
| *49128 | La Pérouse B            | 4769  | 9270               | 1862                | 3256                 | Fr.1126                           | 2 | 28.4  |
| 49132  | Maclaurin D             | 4663  | 9317               | 1226                | 3418                 | Fr.1130                           | 2 | 5.0   |
| 49143  | Maclaurin F             | 4665  | 9417               | 1348                | 3082                 | Fr.1132                           | 2 | 20.0  |
| *49156 | La Pérouse A            | 4768  | 9527               | 1603                | 2581                 | Fr. 243                           | 5 | (s)   |
| 49158  | La Pérouse              | 4767  | 9558               | 1849                | 2285                 | Fr. <sup>239</sup> <sub>242</sub> | 3 | 44.7  |
| 49167  | La Pérouse E            | 4772  | 9650               | 1767                | 1939                 | Fr.1127                           | 2 | 16.0  |
| 49176  | Kästner F               | 4786a | 9736               | 1601                | 1626                 | Fr.1116                           | 2 | 9.2   |
| *49183 | Mare Smythii $\zeta$    | 4789e | 9896               | 1357                | 0484                 | Fr.1243                           | 3 | ---   |
| *49191 | Mare Smythii $\eta$     | 4789f | 9933               | 1115                | 0318                 | Fr.1242                           | 2 | (P)   |
| 49214  | Ansgarius A             | 4761  | 9185               | 2446                | 3107                 | Fr.1059                           | 2 | 16.6  |
| 49216  | Behaim A                | 4754  | 9109               | 2676                | 3141                 | Fr.1062                           | 2 | 22.6  |
| 49235  | Ansgarius C             | 4762a | 9337               | 2552                | 2511                 | Fr.1063                           | 2 | 7.9   |
| 49248  | Behaim                  | 4753  | 9431               | 2852                | 1709                 | Fr.1061                           | 1 | 32.2  |
| 49252  | Ansgarius               | 4760  | 9593               | 2203                | 1766                 | Fr.1058                           | 1 | 53.8  |
| 49301  | Hecataeus E             | 4751a | 9055               | 3171                | 2819                 | Fr.1098                           | 2 | 7.3   |
| 49316  | Hecataeus               | 4745  | 9151               | 3630                | 1757                 | Ar.                               | 1 | 73.2  |

| Ref.    | Designation | B&M   | §<br>+ | η<br>- | ζ<br>+ | Authority | M | Diam. |
|---------|-------------|-------|--------|--------|--------|-----------|---|-------|
| 49322   |             |       | 9270   | 3253   | 1867   | Ar.       | 1 | 11.0  |
| *49322A | Hecataeus € | 4746a | 9263   | 3298   | 1825   | Fr.1099   | 2 | (P)   |
| 49325   | Hecataeus α | 4746  | 9210   | 3578   | 1542   | Fr.1097   | 3 | (P)   |
| 49341   | Hecataeus D | 4752  | 9441   | 3159   | 0942   | Ar.       | 1 | 46.6  |
| 49342   |             |       | 9441   | 3288   | 0238   | Ar.       | 1 | 31.1  |
| 49403   | Humboldt γ  | 4732  | 9008   | 4328   | 0354   | Fr.1108   | 2 | (P)   |

## APPENDIX I

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| Ref.   | Remark  | Ref.   | Remark   |
|--------|---|--------|--|
| 10429  | Nature doubtful.  | 21161  | Irrègular.   |
| 11532  | Designation changed from L to $\lambda$ .                           | 21164  | Incomplete ring.   |
| 11560  | This is a peak.   | 21168  | N. component of 2.   |
| 11858  | Designation changed from E to F to avoid duplication. See 11837.    | 21168A | E. component of 2.   |
| 11880  | W. component of 2.  | 21184  | E. component of 2.   |
| 11908  | Ring partly obliterated on N.                                       | 21445A | Mistake in lat. Fr. 567.   |
| 11908A | Large ring enclosing Euctemon J.                                    | 21608  | Not capable of precise measurement.  |
| 11957  | Shallow ring.   | 21705  | Doublet.   |
| 12936  | On E. rim of Petermann.   | 21929  | Mistake in lat. Fr. 729.   |
| 12940  | Gap between two hills appears as crater under certain illumination. | 22026B | Irregular.   |
| 12983  | W. component of 2.  | 22114  | S.E. component of 2.   |
| 12995A | On far rim of Cusanus. E. component of 2.                           | 22128A | S. component of 2.   |
| 13808  | Ring; most E. and distinct of 2.                                    | 22128B | N. component of 2.   |
| 13837  | Ruined ring surrounding Gärtner E.                                  | 22128C | N. component of 2.   |
| 13845  | Mistake in longt. Fr. 532.  | 22168  | S.E. component of 2.   |
| 13846  | Ruin.   | 22262  | Middle crater.   |
| 13855  | Ruin.   | 22263  | S.E. crater.   |
| 13866  | Mistake in lat. Fr. 534.  | 22274  | S. component of doublet.   |
| 13874  | Ruin.   | 22274A | N. component of doublet.   |
| 13972  | Mistake in longt. Fr. 511.  | 22284A | Oval.  |
| 14516  | Misprint in longt. Fr. 488.   | 22287  | S. component of 2.   |
| 14806  | Doublet.  | 22292  | Pit in groove.   |
| 14808  | N.E. component of 2.  | 22293  | W. component of 2.   |
| 14817  | S.W. component of 2.  | 22404A | Central crater of Timocharis.  |
| 14819  | Middle of 3.  | 22618  | W'most of group.   |
| 14849  | Ring beyond Strabo G.   | 22694A | Pit in Helicon.  |
| 14920A | Mistake in lat. Fr. 513.  | 22749  | W'most of group.   |
| 16186  | Meridionally elongated.   | 23020A | S. component of 2.   |
| 16280  | N. component of doublet.  | 23194  | Oval.  |
| 16689A | Designation changed from E to G to avoid duplication.               | 23325  | Mistake in lat. Fr. 752.   |
| 16708  | Middle of 3.  | 23373  | S. component of 2.   |
| 17262  | End of headland.  | 23384  | W. component of 2.   |
| 17290  | End of headland.  | 23408  | W. component of 2.   |
| 17347  | End of headland.  | 23497  | S. component of 3.   |
| 18098A | End of headland.  | 23722A | E. of group.   |
| 18148A | End of headland.  | 23874  | Robinson J (B&M) does not exist, its position being the result of an error in conversion of South B's coordinates. |
| 18168  | End of headland.  | 23902  | Middle of 3.   |
| 18271  | End of headland.  | 23903  | N.E. component of 3.   |
| 18355  | End of headland.  | 23910  | S.W. component of 3.   |
| 18369  | Designation changed from Oriani C to Plutarch C.                    | 24096  | E. component of 2.   |
| 18373  | End of headland.  | 24128  | N.E. of group.   |
| 19017  | Very irregular.   | 24133  | Most southern of Beta.   |
| 19079  | Mistake in longt. Fr. 470.  | 24144  | S. end.  |
| 19080  | Wrong sign in lat. Fr. 1143.  | 24146  | N. end.  |
| 19327  | Mistake in longt. Fr. 481. (S. end)                                 | 24174  | Summit.  |
| 20333  | Mistake in longt. and lat. Fr. 667.                                 | 24174A | S. end.  |
| 21011  | Dome.   | 24174B | S. peak.   |
|        |   | 24175  | N. end.  |
|        |   | 24198  | W. component of 3.   |



APPENDIX I—*continued*

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| Ref.   | Remark   | Ref.   | Remark   |
|--------|--|--------|--|
| 24201  | Oval.  | 33668  | Mistake in lat. Fr. 898.   |
| 24208  | Elongated.   | 33815  | Mistake in longt. Fr. 1039.  |
| 24213  | S. component of 2.                                     | 33850  | Mistake in lat. Fr. 1022.  |
| 24270  | S. component of 2.                                     | 34224  | Mistake in longt. Fr. 985.   |
| 24271  | N. component of 2.                                     | 34881  | Fr. called this E and the error was carried over by B&M. Coords rather inaccurate. |
| 24335  | W. component of 2.                                     | 35391  | This is Neison's m. B&M call it N and incorrectly identify it with Neison's n.     |
| 24407  | N. component of 2.                                     | 35636  | N. component of 2.   |
| 24449  | S. component of 2.                                     | 35735  | Mistake in lat. Fr. 1003.  |
| 24449A | N. component of 2.                                     | 36351  | Mistake in longt. Fr. 52. This is a crater despite designation.                    |
| 24546  | S. component of 2.                                     | 36474  | N. component of doublet.   |
| 24753  | Mistake in longt. Fr. 127.                             | 36497  | Mistake in longt. Fr. 879.   |
| 25534  | Mistake in longt. Fr. 601.                             | 36643  | Mistake in lat. Fr. 971.   |
| 25805  | Mistake in longt. Fr. 805.                             | 36697  | Position rather rough.   |
| 26454  | Mistake in lat. Fr. 570.                               | 37016  | Peak despite designation.  |
| 26745  | Mistake in lat. Fr. 771.                               | 37089  | Error in B&M. This is not Flamsteed H but is smaller crater to N.E.                |
| 27461  | Small crater at center.                                | 37334  | N. component of doublet.   |
| 28106  | Designation changed from $\alpha$ to X.                | 37500  | Doublet in Fourier.  |
| 28142  | Center of dark elliptical area in Reiner $\gamma$ .    | 37514  | This position is of doubtful value.  |
| 29159  | Fr. positions not in agreement with orthographic grid. | 37587  | Mistake in lat. Fr. 961.   |
| 29162  |  | 37626  | Mistake in lat. Fr. 904.   |
| 30157  | Not Saunder's spot. Sa. 1184.                          | 38180  | This is a crater, not a valley as in B&M.  |
| 30168  | N. component.  | 38302  | E. component of 2.   |
| 30192  | Middle of 3.   | 38313  | Mistakes in longt. and lat. Fr. 861.   |
| 30736  | N. component of 2.                                     | 38490  | Crater. Designation changed from $\eta$ to E.                                      |
| 30736A | Middle of 3.   | 39032  | N. component of 2.   |
| 30736B | S. component of 2.                                     | 39037  | N. component of 2.   |
| 30754  | S. component of 3.                                     | 39220  | On E. wall of another.   |
| 30754A | Middle of 3.   | 40123  | Leader at W. end of row of 4.  |
| 30764A | W. component of 2.                                     | 40142  | Longest diameter given.  |
| 30835  | N. component of 2.                                     | 40618  | S. component.  |
| 30835A | S. component of 2.                                     | 40818A | End of row of 4.   |
| 30835B | N. component of 2.                                     | 41151  | Mistake in lat. Fr. 1101.  |
| 30835C | S. component of 2.                                     | 41330  | Position may be unreliable.  |
| 30972  | Mistake in longt. Fr. 896.                             | 41767A | S.W. component of 2.   |
| 31032A | S.W. component of 2.                                   | 41767B | N.E. component of 2.   |
| 31115A | N. component of 2.                                     | 42198A | Craterlet 1.9 in center.   |
| 31275  | Crater 1.0 at center.                                  | 42359  | Mistake in longt. Fr. 125.   |
| 31347  | At S. end of rille.                                    | 43085  | E. component } of pair.  |
| 31400  | Largest of 3.  | 43085A | W. component }   |
| 31443  | S.W. component of 3.                                   | 43726  | Mistake in longt. Fr. 1159.  |
| 31443A | N.E. component of 3.                                   | 43726A | Mistake in longt. Fr. 1159b.   |
| 31748  | Mistake in longt. and lat. Fr. 852.                    | 43870  | Longt. Fr. 181 doubtful.   |
| 31847  | Doublet.   | 44053  | A peak. Spot corresponds to outline of base of peak at full.                       |
| 31908  | Mistake in lat. Fr. 845.                               | 44572  | Two coalescent craters.  |
| 32176  | Mistake in longt. Fr. 105.                             | 45148  | May be a peak.   |
| 32214  | Measured as a spot.                                    | 45814  | B&M call this Hanno, but incorrectly.  |
| 32446  | Middle of 3.   |        |  |
| 32518  | Mistake in longt. Fr. 1053.                            |        |  |
| 32818  | Mistake in longt. Fr. 1018.                            |        |  |
| 32836  | Mistake in lat. Fr. 1017.                              |        |  |
| 32846  | E. component of 2.                                     |        |  |
| 32993  | Mistake in lat. Fr. 813.                               |        |  |
| 33154  | Centroid.  |        |  |
| 33194A | Summit.  |        |  |

APPENDIX I—*continued*

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| Ref.   | Remark  |
|--------|---|
| 46583  | Mistake in lat. Fr. 1188.   |
| 46601  | Doublet. Long axis given.   |
| 46706  | Fr. 188 is not Brisbane and is immediately south of it. Brisbane is not a standard point. |
| 46718  | This may be a ring diam. 35.97 at +608, -782 in the Orthographic Atlas.                   |
| 46721  | Fr. 210 refers to N. end.   |
| 47041  | Mistake in lat. Fr. 1149.   |
| 47312  | Mistakes in longt. and lat. Fr. 236.  |
| 47478  | Mistake in lat. Fr. 1096.   |
| 47479  | N. component.   |
| 47561  | S. component.   |
| 47589  | Fr. incorrectly numbers this as 216 in the Randlandschaften. Misprint in lat. of Fr. 222. |
| 47634  | Two coalescent craters. Mistakes in longt. and lat. Fr. 215.                              |
| 48120  | Position of doubtful value. Fr. identified S. terrace as S. rim.                          |
| 48475A | Not very measurable, position of doubtful value.  |
| 49128  | Mistake in lat. Fr. 1126.   |
| 49156  | Craterlet in center.  |
| 49183  | End of bay.   |
| 49191  | Headland.   |
| 49322A | W. wall of 49322. This position not reliable.   |

## APPENDIX II

## Rejected Saunder Points.

190,199,319,353,544,659,669,693,705,719,737,771,779,894,972,  
 1149,1184,1198,1224,1294,1301,1330,1343,1348,1349,1362,1376,  
 1573,1602,1812,1906,1916,2469,2515,2617.

APPENDIX III

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| Sa. | Ref.  | Sa. | Ref.   | Sa. | Ref.  | Sa. | Ref.   |
|-----|-------|-----|--------|-----|-------|-----|--------|
| 1   | 39202 | 51  | 25091  | 101 | 24496 | 151 | 24544  |
| 2   | 38278 | 52  | 25396A | 102 | 34695 | 152 | 34043  |
| 3   | 28178 | 53  | 35694  | 103 | 34591 | 153 | 34544  |
| 4   | 28270 | 54  | 25285  | 104 | 24197 | 154 | 24241  |
| 5   | 38057 | 55  | 25182  | 105 | 34490 | 155 | 34745  |
| 6   | 38049 | 56  | 25286  | 106 | 24296 | 156 | 34235  |
| 7   | 38243 | 57  | 25082  | 107 | 34599 | 157 | 24532  |
| 8   | 38041 | 58  | 35385  | 108 | 34290 | 158 | 34339  |
| 9   | 38313 | 59  | 25479  | 109 | 34794 | 159 | 34531A |
| 10  | 28112 | 60  | 25072  | 110 | 24499 | 160 | 34438  |
| 11  | 37089 | 61  | 35573  | 111 | 24089 | 161 | 24336  |
| 12  | 27086 | 62  | 35675  | 112 | 24682 | 162 | 34630  |
| 13  | 27078 | 63  | 35367  | 113 | 34182 | 163 | 24239  |
| 14  | 37235 | 64  | 35263  | 114 | 34386 | 164 | 34638  |
| 15  | 37432 | 65  | 35368  | 115 | 34784 | 165 | 34631  |
| 16  | 37323 | 66  | 25365  | 116 | 34586 | 166 | 34532  |
| 17  | 37019 | 67  | 35356  | 117 | 34682 | 167 | 34531  |
| 18  | 37016 | 68  | 35456  | 118 | 34082 | 168 | 34233  |
| 19  | 27214 | 69  | 35650  | 119 | 34282 | 169 | 34433  |
| 20  | 27208 | 70  | 35556  | 120 | 34188 | 170 | 24022  |
| 21  | 37005 | 71  | 35151  | 121 | 24783 | 171 | 24620  |
| 22  | 27002 | 72  | 35544  | 122 | 34681 | 172 | 34126  |
| 23  | 27201 | 73  | 35342  | 123 | 34673 | 173 | 24221  |
| 24  | 36294 | 74  | 35243  | 124 | 24671 | 174 | 24526  |
| 25  | 36097 | 75  | 25635  | 125 | 24770 | 175 | 34527  |
| 26  | 26199 | 76  | 25534  | 126 | 24272 | 176 | 24029  |
| 27  | 36180 | 77  | 25035  | 127 | 34074 | 177 | 24020  |
| 28  | 36285 | 78  | 25232  | 128 | 24566 | 178 | 24224  |
| 29  | 36373 | 79  | 35337  | 129 | 24468 | 179 | 34224  |
| 30  | 36173 | 80  | 35433  | 130 | 24266 | 180 | 34428  |
| 31  | 36278 | 81  | 35531  | 131 | 24769 | 181 | 24229  |
| 32  | 36368 | 82  | 25426  | 132 | 24161 | 182 | 24227  |
| 33  | 26157 | 83  | 25325  | 133 | 34568 | 183 | 34322  |
| 34  | 36258 | 84  | 35520  | 134 | 34168 | 184 | 34620  |
| 35  | 36144 | 85  | 35520A | 135 | 34662 | 185 | 24825  |
| 36  | 26040 | 86  | 25126  | 136 | 34567 | 186 | 34324  |
| 37  | 36645 | 87  | 25325A | 137 | 34564 | 187 | 34121  |
| 38  | 26520 | 88  | 25010  | 138 | 34664 | 188 | 24123  |
| 39  | 26323 | 89  | 35617  | 139 | 24366 | 189 | 34225  |
| 40  | 36528 | 90  | 25616  | 140 | 24365 | 191 | 34511  |
| 41  | 26124 | 91  | 35619  | 141 | 24256 | 192 | 34211  |
| 42  | 26219 | 92  | 35517  | 142 | 34452 | 193 | 24719  |
| 43  | 36113 | 93  | 35013  | 143 | 24753 | 194 | 34017  |
| 44  | 36219 | 94  | 35408  | 144 | 34550 | 195 | 24014  |
| 45  | 26104 | 95  | 25304  | 145 | 24751 | 196 | 34713  |
| 46  | 35190 | 96  | 25007  | 146 | 34651 | 197 | 24017  |
| 47  | 25094 | 97  | 25401  | 147 | 34040 | 198 | 24219  |
| 48  | 35391 | 98  | 35005  | 148 | 24349 | 200 | 34414  |
| 49  | 25396 | 99  | 25508  | 149 | 24140 | 201 | 34011  |
| 50  | 25097 | 100 | 35003  | 150 | 24543 | 202 | 24110  |

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| Sa. | Ref.   | Sa. | Ref.   | Sa. | Ref.   | Sa. | Ref.   |
|-----|--------|-----|--------|-----|--------|-----|--------|
| 203 | 24201  | 253 | 23160  | 303 | 33640  | 355 | 33014  |
| 204 | 24203  | 254 | 23068  | 304 | 23140A | 356 | 33214  |
| 205 | 24707  | 255 | 23268  | 305 | 33349  | 357 | 23216  |
| 206 | 34100  | 256 | 33660  | 306 | 23140  | 358 | 33815  |
| 207 | 24202  | 257 | 33666  | 307 | 23146  | 359 | 33510  |
| 208 | 24802  | 258 | 33053  | 308 | 33437  | 360 | 23517  |
| 209 | 34500  | 259 | 23056  | 309 | 23835  | 361 | 23310  |
| 210 | 33493  | 260 | 33650  | 310 | 33438  | 362 | 33819  |
| 211 | 23298  | 261 | 23551  | 311 | 23535  | 363 | 33718  |
| 212 | 23793  | 262 | 23553  | 312 | 33731A | 364 | 33210  |
| 213 | 23098  | 263 | 23057  | 313 | 23232  | 365 | 33719  |
| 214 | 23099  | 264 | 33056  | 314 | 23739  | 366 | 23110  |
| 215 | 33388  | 265 | 33154  | 315 | 33836  | 367 | 23816  |
| 216 | 33283  | 266 | 23759  | 316 | 23035  | 368 | 23213  |
| 217 | 33285  | 267 | 23257  | 317 | 33731  | 369 | 23218  |
| 218 | 23283  | 268 | 33756  | 318 | 23038  | 370 | 23411  |
| 219 | 23883  | 269 | 33758  | 320 | 23836  | 371 | 23817  |
| 220 | 33586  | 270 | 33154A | 321 | 33139  | 372 | 23112  |
| 221 | 23181  | 271 | 23553A | 322 | 23136  | 373 | 23110A |
| 222 | 23083  | 272 | 33556  | 323 | 33236  | 374 | 33710  |
| 223 | 33781  | 273 | 33059  | 324 | 33734  | 375 | 33715  |
| 224 | 33288  | 274 | 33054  | 325 | 23130  | 376 | 33311  |
| 225 | 33582  | 275 | 23855  | 326 | 33033  | 377 | 23311  |
| 226 | 33470  | 276 | 33254  | 327 | 23032  | 378 | 33518  |
| 227 | 23476  | 277 | 33653  | 328 | 33338  | 379 | 33505  |
| 228 | 23874  | 278 | 23350  | 329 | 33325  | 380 | 23302  |
| 229 | 33176  | 279 | 33052  | 330 | 23820A | 381 | 23307  |
| 230 | 23370  | 280 | 23057A | 331 | 23120  | 382 | 33107  |
| 231 | 33376  | 281 | 33351  | 332 | 33623  | 383 | 33503  |
| 232 | 23173  | 282 | 33651  | 333 | 33122  | 384 | 23709  |
| 233 | 33079  | 283 | 23059  | 334 | 23020  | 385 | 23500  |
| 234 | 23170  | 284 | 33150  | 335 | 23424  | 386 | 33803  |
| 235 | 23276  | 285 | 23249  | 336 | 33727  | 387 | 33705  |
| 236 | 33773  | 286 | 33549  | 337 | 23025  | 388 | 33301  |
| 237 | 23170A | 287 | 33547  | 338 | 23325A | 389 | 33308  |
| 238 | 23775  | 288 | 23447  | 339 | 23629  | 390 | 23708  |
| 239 | 33478  | 289 | 23543  | 340 | 23024  | 391 | 23800  |
| 240 | 23875  | 290 | 33049  | 341 | 33428  | 392 | 23806  |
| 241 | 23067  | 291 | 33642  | 342 | 23224  | 393 | 23407  |
| 242 | 23266  | 292 | 33741  | 343 | 23820  | 394 | 23005  |
| 243 | 33067  | 293 | 23048  | 344 | 33621  | 395 | 33703  |
| 244 | 23767  | 294 | 23245  | 345 | 33724  | 396 | 23102  |
| 245 | 33369  | 295 | 23444  | 346 | 33622  | 397 | 33008  |
| 246 | 23067A | 296 | 23247  | 347 | 23328  | 398 | 33507  |
| 247 | 33760  | 297 | 33146  | 348 | 23423  | 399 | 22895  |
| 248 | 33069  | 298 | 23344  | 349 | 33020  | 400 | 32590  |
| 249 | 33563  | 299 | 23446  | 350 | 23029  | 401 | 22297  |
| 250 | 33668  | 300 | 33249  | 351 | 23021  | 402 | 22099  |
| 251 | 23567  | 301 | 23243  | 352 | 33524  | 403 | 22191  |
| 252 | 23065  | 302 | 23541  | 354 | 33623A | 404 | 22898  |

| Sa. | Ref.   | Sa. | Ref.   | Sa. | Ref.   | Sa. | Ref.   |
|-----|--------|-----|--------|-----|--------|-----|--------|
| 405 | 22694  | 455 | 22280  | 505 | 22166A | 556 | 22251  |
| 406 | 32099  | 456 | 32089  | 506 | 22264  | 557 | 32654  |
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| 1440 | 40821  | 1490 | 10841  | 1540 | 40155  | 1591 | 40872  |
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| 1447 | 40621  | 1497 | 40142  | 1547 | 40752  | 1598 | 10778  |
| 1448 | 40825  | 1498 | 40249  | 1548 | 10951  | 1599 | 40370  |
| 1449 | 40721  | 1499 | 40047  | 1549 | 40652  | 1600 | 40775A |
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| 1452 | 10626  | 1502 | 10442  | 1552 | 40963  | 1604 | 40274  |
| 1453 | 40823  | 1503 | 40841  | 1553 | 40962  | 1605 | 40772  |
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| 1455 | 10328  | 1505 | 40840  | 1555 | 40961  | 1607 | 40975  |
| 1456 | 40826  | 1506 | 10840  | 1556 | 40161  | 1608 | 40174  |
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| 1458 | 40937  | 1508 | 40944  | 1558 | 40861  | 1610 | 40177  |
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| 1468 | 40337  | 1518 | 10750  | 1568 | 40968A | 1620 | 40687  |
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| 1835 | 11347  | 1885 | 11956  | 1937 | 41879  | 1987 | 41891  |
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| 1843 | 41642  | 1893 | 41865  | 1945 | 41670  | 1995 | 11695  |
| 1844 | 41342  | 1894 | 41964  | 1946 | 41672A | 1996 | 41191  |
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| 1847 | 41842  | 1897 | 41061  | 1949 | 41678  | 1999 | 41193  |
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| 1860 | 41458  | 1911 | 41768  | 1962 | 41889  | 2012 | 11896  |
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| 1870 | 41751  | 1922 | 41064  | 1972 | 41686  | 2022 | 42906  |
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| 1875 | 41357  | 1927 | 41370A | 1977 | 41487  | 2027 | 12503  |
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| 2055 | 42815  | 2105 | 42723A | 2155 | 42830  | 2205 | 12654  |
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| 2057 | 42615  | 2107 | 42327  | 2157 | 42831  | 2207 | 42257A |
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| 2062 | 42016  | 2112 | 42222  | 2162 | 12136  | 2212 | 12454  |
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| 2064 | 12812  | 2114 | 42723  | 2164 | 42536  | 2214 | 42553  |
| 2065 | 42512  | 2115 | 42524  | 2165 | 42637  | 2215 | 42559  |
| 2066 | 12310  | 2116 | 42221  | 2166 | 12836  | 2216 | 42752  |
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| 2070 | 42314  | 2120 | 12721  | 2170 | 12940  | 2220 | 42453  |
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| 2073 | 42818  | 2123 | 42323  | 2173 | 12945  | 2223 | 42351A |
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| 2077 | 12110  | 2127 | 12921  | 2177 | 42748  | 2227 | 42754  |
| 2078 | 42819  | 2128 | 42721  | 2178 | 42743  | 2228 | 42954  |
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| 2439 | 13023  | 2490 | 13745  | 2541 | 13260  | 2591 | 43784  | 2642 | 44001  | 2692 | 44230  | 2742 | 44284 | 2792 | 15338  |
| 2440 | 43729  | 2491 | 43742  | 2542 | 13160  | 2592 | 43584  | 2643 | 14718  | 2693 | 14732A | 2743 | 14285 | 2793 | 15338A |
| 2441 | 13626  | 2492 | 43047  | 2543 | 43768  | 2593 | 43483A | 2644 | 44611  | 2694 | 44032  | 2744 | 14189 | 2794 | 45036  |
| 2442 | 13827  | 2493 | 43548  | 2544 | 43862  | 2594 | 43781  | 2645 | 44514  | 2695 | 44538  | 2745 | 44084 | 2795 | 45030  |
| 2443 | 43223  | 2494 | 43445  | 2545 | 43162  | 2595 | 43486  | 2646 | 14815  | 2696 | 44034  | 2746 | 44189 | 2796 | 15149  |
| 2444 | 43021  | 2495 | 43245  | 2546 | 43465  | 2596 | 13585  | 2647 | 44418  | 2697 | 44337  | 2747 | 14588 | 2797 | 15548  |
| 2445 | 43430  | 2496 | 43645A | 2547 | 43666  | 2597 | 43085  | 2648 | 14318  | 2698 | 44039  | 2748 | 14480 | 2798 | 45441  |
| 2446 | 43530  | 2497 | 13641  | 2548 | 43560  | 2598 | 13483  | 2649 | 44217  | 2699 | 44432  | 2749 | 44186 | 2799 | 45143  |
| 2447 | 43230  | 2498 | 43246  | 2549 | 43067  | 2599 | 13085  | 2650 | 14516  | 2700 | 44630  | 2750 | 44694 | 2800 | 45644  |
| 2448 | 43339  | 2499 | 43244  | 2550 | 13066  | 2600 | 43585  | 2651 | 44618  | 2701 | 44344  | 2751 | 44697 | 2801 | 45145  |
| 2449 | 43633A | 2500 | 43747  | 2551 | 13167  | 2601 | 13281  | 2652 | 44712  | 2702 | 14148  | 2752 | 44791 | 2802 | 45040  |
| 2450 | 43635  | 2501 | 43249  | 2552 | 43267  | 2602 | 13286  | 2653 | 14118  | 2703 | 44748  | 2753 | 14095 | 2803 | 45148  |
| 2451 | 43137  | 2502 | 43545  | 2553 | 43368  | 2603 | 13286A | 2654 | 14614  | 2704 | 44346  | 2754 | 14390 | 2804 | 45340  |
| 2452 | 13032  | 2503 | 13640  | 2554 | 43664  | 2604 | 43586  | 2655 | 44111  | 2705 | 44443  | 2755 | 44097 | 2805 | 15645A |
| 2453 | 43330A | 2504 | 43846  | 2555 | 13666  | 2605 | 43085A | 2656 | 44811  | 2706 | 14044  | 2756 | 14490 | 2806 | 15547  |
| 2454 | 43531  | 2505 | 43040  | 2556 | 43664A | 2606 | 13081  | 2657 | 44415  | 2707 | 44059  | 2757 | 44494 | 2807 | 45541  |
| 2455 | 43039  | 2506 | 43645  | 2557 | 43363  | 2607 | 43483  | 2658 | 44118  | 2708 | 14254  | 2758 | 15003 | 2808 | 45657  |
| 2456 | 43232  | 2507 | 43145  | 2558 | 43267A | 2608 | 43084  | 2659 | 14512  | 2709 | 44053  | 2759 | 15503 | 2809 | 45455  |
| 2457 | 13835  | 2508 | 13243  | 2559 | 43679  | 2609 | 13189  | 2660 | 44016  | 2710 | 44052  | 2760 | 45507 | 2810 | 45053  |
| 2458 | 13730  | 2509 | 43356  | 2560 | 43170  | 2610 | 43795  | 2661 | 44324A | 2711 | 14750  | 2761 | 15201 | 2811 | 45155  |
| 2459 | 43330  | 2510 | 43952  | 2561 | 43870  | 2611 | 43990  | 2662 | 44628  | 2712 | 14459  | 2762 | 45602 | 2812 | 15354  |
| 2460 | 13637  | 2511 | 43150  | 2562 | 43477  | 2612 | 43890  | 2663 | 14022  | 2713 | 44259  | 2763 | 45500 | 2813 | 45057  |
| 2461 | 43234A | 2512 | 43155  | 2563 | 13772  | 2613 | 43091  | 2664 | 14527  | 2714 | 44454  | 2764 | 15106 | 2814 | 45368  |
| 2462 | 13234  | 2513 | 43153  | 2564 | 43777  | 2614 | 43495  | 2665 | 44229  | 2715 | 14558  | 2765 | 15610 | 2815 | 45565  |
| 2463 | 43633  | 2514 | 43651  | 2565 | 13676  | 2615 | 43897  | 2666 | 44725  | 2716 | 44655  | 2766 | 15017 | 2816 | 45365  |
| 2464 | 43531A | 2516 | 43151  | 2566 | 43473  | 2616 | 43797  | 2667 | 44325  | 2717 | 14257  | 2767 | 45711 | 2817 | 45163  |
| 2465 | 13030  | 2517 | 13056  | 2567 | 43476  | 2618 | 43598  | 2668 | 44026  | 2718 | 44067  | 2768 | 15512 | 2818 | 45769A |
| 2466 | 43139  | 2518 | 43254A | 2568 | 43073  | 2619 | 43990A | 2669 | 14229  | 2719 | 44062  | 2769 | 45513 | 2819 | 45175  |
| 2467 | 43636  | 2519 | 43254  | 2569 | 43579  | 2620 | 43399  | 2670 | 44029  | 2720 | 14366  | 2770 | 45618 | 2820 | 45775  |
| 2468 | 43435  | 2520 | 43056  | 2570 | 13577  | 2621 | 43392  | 2671 | 44027  | 2721 | 44068  | 2771 | 45518 | 2821 | 15284  |
| 2470 | 13139  | 2521 | 43653  | 2571 | 43471  | 2622 | 43292  | 2672 | 14627  | 2722 | 44766  | 2772 | 45319 | 2822 | 45186  |
| 2471 | 13138  | 2522 | 43354  | 2572 | 13072  | 2623 | 43091A | 2673 | 14525  | 2723 | 14361  | 2773 | 45417 | 2823 | 45083  |
| 2472 | 43930  | 2523 | 43557  | 2573 | 43178  | 2624 | 13292  | 2674 | 44321  | 2724 | 14163  | 2774 | 45411 | 2824 | 45099  |
| 2473 | 13838  | 2524 | 43358  | 2574 | 43773  | 2625 | 43293  | 2675 | 44021  | 2725 | 44660  | 2775 | 15115 | 2825 | 45196  |
| 2474 | 43732  | 2525 | 43257  | 2575 | 43078  | 2626 | 43691  | 2676 | 14629  | 2726 | 44660A | 2776 | 45415 | 2826 | 45498  |
| 2475 | 13631  | 2526 | 43556  | 2576 | 43770  | 2627 | 14704  | 2677 | 44025  | 2727 | 44761  | 2777 | 15223 | 2827 | 15498  |
| 2476 | 43234  | 2527 | 43657  | 2577 | 13172  | 2628 | 44703  | 2678 | 44023  | 2728 | 44160  | 2778 | 45023 | 2828 | 45191  |
| 2477 | 43135  | 2528 | 43151A | 2578 | 43370  | 2629 | 14002  | 2679 | 44322  | 2729 | 14169  | 2779 | 45121 | 2829 | 15091  |
| 2478 | 43148  | 2529 | 43251  | 2579 | 43582  | 2630 | 44401  | 2680 | 44828  | 2730 | 14263  | 2780 | 45524 | 2830 | 45193  |
| 2479 | 43549  | 2530 | 43366  | 2580 | 43384  | 2631 | 14108  | 2681 | 44324  | 2731 | 44466  | 2781 | 15329 | 2831 | 45097  |
| 2480 | 13842  | 2531 | 13266  | 2581 | 43388  | 2632 | 44301  | 2682 | 14224  | 2732 | 14267  | 2782 | 15330 | 2832 | 46109  |
| 2481 | 43743  | 2532 | 43466  | 2582 | 43283  | 2633 | 44409  | 2683 | 44821  | 2733 | 44861  | 2783 | 15038 | 2833 | 46104  |

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| Sa.  | Ref.  | Sa.  | Ref.  |
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| 2834 | 16300 | 2884 | 49106 |
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| 2837 | 16313 |      |       |
| 2838 | 16018 |      |       |
| 2839 | 16315 |      |       |
| 2840 | 46115 |      |       |
| 2841 | 46219 |      |       |
| 2842 | 16116 |      |       |
| 2843 | 46215 |      |       |
| 2844 | 16214 |      |       |
| 2845 | 46217 |      |       |
| 2846 | 46119 |      |       |
| 2847 | 46121 |      |       |
| 2848 | 16229 |      |       |
| 2849 | 46036 |      |       |
| 2850 | 16530 |      |       |
| 2851 | 46135 |      |       |
| 2852 | 16137 |      |       |
| 2853 | 16542 |      |       |
| 2854 | 16049 |      |       |
| 2855 | 16541 |      |       |
| 2856 | 16046 |      |       |
| 2857 | 16446 |      |       |
| 2858 | 16253 |      |       |
| 2859 | 16065 |      |       |
| 2860 | 16066 |      |       |
| 2861 | 16476 |      |       |
| 2862 | 16485 |      |       |
| 2863 | 17207 |      |       |
| 2864 | 47515 |      |       |
| 2865 | 47318 |      |       |
| 2866 | 47023 |      |       |
| 2867 | 47033 |      |       |
| 2868 | 47041 |      |       |
| 2869 | 17152 |      |       |
| 2870 | 17053 |      |       |
| 2871 | 17060 |      |       |
| 2872 | 47162 |      |       |
| 2873 | 47572 |      |       |
| 2874 | 17081 |      |       |
| 2875 | 17080 |      |       |
| 2876 | 17285 |      |       |
| 2877 | 18004 |      |       |
| 2878 | 18013 |      |       |
| 2879 | 18419 |      |       |
| 2880 | 48455 |      |       |
| 2881 | 48069 |      |       |
| 2882 | 48061 |      |       |
| 2883 | 48287 |      |       |

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## Appendix IV

## Rejected Franz Points.

158,176,179,182,185,186,189,199,193,197,202,206,214,217,223,  
 225,238,244,245,247,248,249,250,252,253,254,255,256,257,258,  
 259,261,262,265,266,267,268,269,270,272,274,275,276,277,278,  
 279,280,284,290,291,292,339,361,373,380,390,391,392,393,394,  
 395,403,410,411,412,433,434,435,464,468,469,504,514,520,521,  
 524,525,531,547,550,552,553,554,556,565,595,596,597,598,632,  
 633,634,684,716,719,720,724,725,730,731,732,736,747,749,750,  
 751,761,768,769,770,774,780,781,803,811,814,819,820,823,824,  
 825,826,893,894,895,903,907,909,912,913,914,915,916,917,920,  
 921,923,924,925,926,928,930,931,932,933,934,935,938,940,941,  
 942,946,947,949,951,952,953,1010,1013,1099,1109,1111,1147,  
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 1336,1337,1338,1339,1340,1341,1342,1343,1344,1345,1346,1347,  
 1348,1349,1350,1351,1352.

## APPENDIX V

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| Fr. | Ref.   | Fr. | Ref.   | Fr. | Ref.   | Fr. | Ref.   |
|-----|--------|-----|--------|-----|--------|-----|--------|
| 1   | 41278  | 51  | 32022  | 101 | 31043  | 151 | 41967  |
| 2   | 42217  | 52  | 36351  | 102 | 30043  | 152 | 41968  |
| 3   | 41268  | 53  | 35243  | 103 | 42697  | 153 | 40988  |
| 4   | 41229  | 54  | 36278  | 104 | 16253  | 154 | 40997  |
| 5   | 40370  | 55  | 36258  | 105 | 32176  | 155 | 41967  |
| 6   | 43029  | 56  | 32255  | 106 | 21608  | 156 | 40997  |
| 7   | 43100  | 57  | 31290  | 107 | 44494  | 157 | 42905  |
| 8   | 30243  | 58  | 46135  | 108 | 44475  | 159 | 41945  |
| 9   | 13047  | 59  | 19233  | 109 | 44466  | 160 | 42915  |
| 10  | 10470  | 60  | 24707  | 110 | 44443  | 161 | 42974  |
| 11  | 20497  | 61  | 32633  | 111 | 41368  | 162 | 42905  |
| 12  | 10950  | 62  | 14732A | 112 | 14229  | 163 | 43904A |
| 13  | 26470  | 63  | 30058  | 113 | 13286A | 164 | 42973  |
| 14  | 41365  | 64  | 32550  | 114 | 43483  | 165 | 42974  |
| 15  | 44229  | 65  | 34339  | 115 | 43418  | 166 | 40913  |
| 16  | 25285  | 66  | 41142  | 116 | 14512  | 167 | 41972  |
| 17  | 12387  | 67  | 41025  | 117 | 17207  | 168 | 41972  |
| 18  | 13421  | 68  | 41028  | 118 | 30114  | 169 | 43921  |
| 19  | 37243  | 69  | 11103  | 119 | 23899  | 170 | 43990A |
| 20  | 20141  | 70  | 44001  | 120 | 28112  | 171 | 42819  |
| 21  | 20115  | 71  | 14148  | 121 | 27078  | 172 | 44828  |
| 22  | 20155  | 72  | 26104  | 122 | 10093  | 173 | 40894  |
| 23  | 11185  | 73  | 31047  | 123 | 11012  | 174 | 44874  |
| 24  | 23759  | 74  | 31161  | 124 | 13138  | 175 | 45814  |
| 25  | 42559  | 75  | 31019  | 125 | 42359  | 177 | 40861  |
| 26  | 38411  | 76  | 22484  | 126 | 18419  | 178 | 44861  |
| 27  | 34416  | 77  | 25010  | 127 | 24753  | 180 | 42870  |
| 28  | 45057  | 78  | 49106  | 128 | 24783  | 181 | 43870  |
| 29  | 23535  | 79  | 11486  | 129 | 12110  | 183 | 46718  |
| 30  | 11606  | 80  | 38081  | 130 | 12122  | 184 | 41748  |
| 31  | 45030  | 81  | 33285  | 131 | 38243  | 187 | 46718  |
| 32  | 15645A | 82  | 16313  | 132 | 10002  | 188 | 46706  |
| 33  | 22891  | 83  | 16315  | 133 | 12195  | 191 | 42705  |
| 34  | 38049  | 84  | 47221  | 134 | 13113  | 192 | 42735  |
| 35  | 31231  | 85  | 31709  | 135 | 13218  | 194 | 46734  |
| 36  | 12094  | 86  | 24671  | 136 | 13234  | 195 | 41754  |
| 37  | 12066  | 87  | 17053  | 137 | 17152  | 196 | 46773  |
| 38  | 24496  | 88  | 35356  | 138 | 13868  | 198 | 46752  |
| 39  | 35675  | 89  | 45340  | 139 | 30376  | 199 | 40731  |
| 40  | 14853  | 90  | 27201  | 140 | 31338  | 200 | 44791  |
| 41  | 12731  | 91  | 22767  | 141 | 32307  | 201 | 45711  |
| 42  | 34182  | 92  | 24256  | 142 | 42074  | 203 | 45731  |
| 43  | 25365  | 93  | 36392  | 143 | 42061  | 204 | 46760  |
| 44  | 44761  | 94  | 36373  | 144 | 16446  | 205 | 45750  |
| 45  | 36097  | 95  | 47033  | 145 | 10067  | 207 | 40653  |
| 46  | 36533  | 96  | 47023  | 146 | 10016  | 208 | 47609  |
| 47  | 44339  | 97  | 47099  | 147 | 10123  | 209 | 45618  |
| 48  | 15610  | 98  | 24197  | 148 | 35520A | 210 | 46721  |
| 49  | 28178  | 99  | 31001  | 149 | 15330  | 211 | 41678  |
| 50  | 23021  | 100 | 30095  | 150 | 40455  | 212 | 47637  |
|     |        |     |        |     |        | 213 | 40667  |

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| Fr. | Ref.  | Fr.  | Ref.   | Fr.  | Ref.   | Fr.  | Ref.   |
|-----|-------|------|--------|------|--------|------|--------|
| 215 | 47634 | 303  | 12868  | 354  | 13772  | 417  | 14732  |
| 216 | 43644 | 304  | 11839A | 355  | 10664  | 418  | 14737  |
| 218 | 46613 | 305  | 11839  | 356  | 14681  | 419  | 14726  |
| 219 | 46662 | 306  | 12910  | 357  | 17418  | 420  | 16615  |
| 220 | 47672 | 307  | 12970  | 358  | 17435  | 421  | 16608  |
| 221 | 41539 | 308  | 13901  | 359  | 17460  | 422  | 15678  |
| 222 | 47589 | 309  | 19217  | 360  | 19211  | 423  | 16609  |
| 224 | 47515 | 310  | 18298  | 362  | 19135  | 424  | 15772  |
| 226 | 41544 | 311  | 18098  | 363  | 19144  | 425g | 15750  |
| 227 | 43513 | 312  | 18035  | 364  | 12815  | 426  | 16709  |
| 228 | 46562 | 313  | 18057  | 365  | 13900  | 427  | 16708  |
| 229 | 47572 | 314  | 18087  | 366  | 12037  | 428  | 15799  |
| 230 | 44469 | 315  | 18150  | 367  | 10797  | 429  | 15779A |
| 231 | 48455 | 316  | 18096  | 368  | 11746  | 430  | 15779  |
| 232 | 41467 | 317h | 18065  | 369  | 10765  | 431  | 15851  |
| 233 | 40414 | 318  | 18019  | 370  | 18420  | 432  | 15832  |
| 234 | 42403 | 319  | 18111  | 371  | 18318  | 436  | 16116  |
| 235 | 47318 | 320  | 18094  | 372  | 15811  | 437  | 12418  |
| 236 | 47312 | 321  | 10387  | 374  | 14855  | 438  | 12510  |
| 237 | 43283 | 322  | 10951  | 375  | 15749  | 439  | 12503  |
| 239 | 49158 | 323  | 12097  | 376  | 14786  | 440  | 16365  |
| 240 | 44189 | 324  | 12058  | 377  | 15840  | 441  | 16381  |
| 241 | 43148 | 325  | 11796  | 378  | 15727  | 442  | 16398  |
| 242 | 49158 | 326  | 12931  | 379  | 14815  | 443  | 11350  |
| 243 | 49156 | 327  | 11991A | 381  | 11927  | 444  | 11270  |
| 246 | 43078 | 328  | 12912  | 382  | 11918  | 445  | 11212  |
| 251 | 48061 | 329  | 12902  | 383  | 11938A | 446  | 10279  |
| 260 | 19083 | 330  | 12995  | 384  | 11938  | 447  | 14608  |
| 263 | 19037 | 331  | 12994A | 385  | 11907  | 448  | 16722  |
| 264 | 18077 | 332  | 13904  | 386  | 10978  | 449  | 16744  |
| 271 | 18182 | 333  | 12956  | 387  | 10958A | 450  | 16733  |
| 273 | 19185 | 334  | 12956A | 388  | 10958  | 451  | 15783  |
| 281 | 10336 | 335  | 12965  | 389  | 10959  | 452  | 16743  |
| 282 | 17378 | 336  | 12964  | 396  | 18190  | 453  | 16721A |
| 283 | 18369 | 337  | 12915  | 397c | 19102  | 454  | 16721  |
| 285 | 17475 | 338  | 12915A | 398b | 19103  | 455  | 16730  |
| 286 | 16530 | 340  | 14782  | 399  | 15672  | 456  | 15785  |
| 287 | 16541 | 341  | 15731  | 400  | 15548  | 457  | 16680  |
| 288 | 16549 | 342  | 15722  | 401  | 12895  | 458  | 16685  |
| 289 | 16625 | 343  | 18187  | 402  | 17589  | 459  | 17604  |
| 293 | 11718 | 344  | 13745  | 404  | 17633  | 460  | 16694  |
| 294 | 12812 | 345  | 10924  | 405  | 17643  | 461  | 17602  |
| 295 | 10872 | 346  | 17509  | 406  | 17597  | 462  | 16665  |
| 296 | 11863 | 347  | 17620  | 407  | 17505  | 463  | 16645  |
| 297 | 12874 | 348  | 17557  | 408  | 16504  | 465  | 11956  |
| 298 | 12824 | 349  | 17548  | 409  | 10909  | 466  | 11947A |
| 299 | 10845 | 350  | 17574  | 413  | 11064  | 467  | 11947  |
| 300 | 11845 | 351  | 13326  | 414  | 18532  | 470  | 19079  |
| 301 | 12836 | 352  | 13405  | 415  | 18552  | 471  | 19162  |
| 302 | 12857 | 353  | 12353  | 416  | 19224  | 472  | 18490  |

| Fr.              | Ref.   | Fr.              | Ref.   | Fr. | Ref.   | Fr. | Ref.   |
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| 473              | 17285  | 529              | 17060  | 587 | 29018  | 645 | 22681  |
| 474              | 17361  | 530              | 18004  | 588 | 24839  | 646 | 21663  |
| 475 <sup>a</sup> | 17353  | 532              | 13845  | 589 | 24848  | 647 | 22617  |
| 476              | 17272  | 533              | 13838  | 590 | 24839A | 648 | 24620  |
| 477              | 17247  | 534              | 13866  | 591 | 24910  | 649 | 27309  |
| 478              | 18126  | 535              | 13940  | 592 | 24839B | 650 | 27336  |
| 479              | 13637  | 536              | 13950  | 593 | 24853  | 651 | 27389  |
| 480              | 13666  | 537              | 16485  | 599 | 23140  | 652 | 28319  |
| 481              | 19327  | 538              | 20955  | 600 | 22162  | 653 | 29024  |
| 482              | 19327A | 539              | 20935  | 601 | 25534  | 654 | 28075  |
| 483              | 14534  | 540              | 10917  | 602 | 24543  | 655 | 23835  |
| 484              | 14614  | 541              | 23910  | 603 | 24526  | 656 | 23875  |
| 485              | 13640  | 542              | 23902  | 604 | 24532  | 657 | 23855  |
| 486              | 13544  | 543              | 23903  | 605 | 25426  | 658 | 22898  |
| 487              | 15503  | 544              | 22982  | 606 | 25097  | 659 | 22888  |
| 488              | 14516  | 545              | 22973  | 607 | 25094  | 660 | 23806  |
| 489              | 13419  | 546              | 22956  | 608 | 26040  | 661 | 22895  |
| 490              | 13585  | 548              | 22946  | 609 | 26088  | 662 | 23836  |
| 491              | 16229  | 549              | 22965  | 610 | 26048  | 663 | 22970  |
| 492              | 17232  | 551              | 22985  | 611 | 25091  | 664 | 24161  |
| 493              | 13021  | 555              | 23924  | 612 | 21295  | 665 | 25007  |
| 494              | 15368  | 557              | 22992  | 613 | 21331  | 666 | 24140  |
| 495              | 15338  | 558              | 23902A | 614 | 21342  | 667 | 20333  |
| 496              | 15329  | 559              | 23829  | 615 | 25325  | 668 | 25182  |
| 497              | 13281  | 560              | 22915  | 616 | 25396  | 669 | 26157  |
| 498              | 19084  | 561              | 21978  | 617 | 21849  | 670 | 26124  |
| 499              | 19082  | 562              | 21996  | 618 | 21902  | 671 | 20673  |
| 500              | 16639  | 563              | 22906  | 619 | 22900  | 672 | 29218  |
| 501              | 10957  | 564 <sup>g</sup> | 22907  | 620 | 28270  | 673 | 29239  |
| 502              | 10928A | 566              | 21445  | 621 | 28254  | 674 | 29217  |
| 503              | 10928  | 567              | 21445A | 622 | 28175  | 675 | 29226  |
| 505              | 13888  | 568              | 20522  | 623 | 22003  | 676 | 29218A |
| 506              | 14839  | 569              | 26463  | 624 | 22005  | 677 | 23447  |
| 507              | 13970  | 570              | 26454  | 625 | 32042  | 678 | 22793  |
| 508              | 13932  | 571              | 26456  | 626 | 22003A | 679 | 27671  |
| 509              | 13952  | 572              | 26376  | 627 | 23232  | 680 | 27660  |
| 510              | 13951  | 573              | 26473  | 628 | 23249  | 681 | 27653  |
| 511              | 13972  | 574              | 26219  | 629 | 23350  | 682 | 27645  |
| 512              | 14920  | 575              | 26238  | 630 | 26790  | 683 | 27635  |
| 513              | 14920A | 576              | 26257  | 631 | 26782  | 685 | 27680  |
| 515              | 16760  | 577              | 26323  | 635 | 26688  | 686 | 27690  |
| 516              | 16689  | 578              | 25286  | 636 | 27634  | 687 | 27582  |
| 517              | 16760A | 579              | 20281  | 637 | 26690  | 688 | 27458  |
| 518              | 16689A | 580              | 20251  | 638 | 26652  | 689 | 27534  |
| 519              | 16699  | 581              | 28434  | 639 | 24719  | 690 | 27517  |
| 522              | 17627  | 582              | 28437  | 640 | 23883  | 691 | 25616  |
| 523              | 16678  | 583              | 29222  | 641 | 24802  | 692 | 24682  |
| 526              | 11393  | 584              | 23500  | 642 | 24769  | 693 | 25508  |
| 527              | 16084  | 585              | 22534  | 643 | 24870  | 694 | 25650  |
| 528              | 16049  | 586              | 22511  | 644 | 23874  | 695 | 25635  |

| Fr. | Ref.   | Fr. | Ref.   | Fr.  | Ref.   | Fr. | Ref.   |
|-----|--------|-----|--------|------|--------|-----|--------|
| 696 | 25685  | 759 | 27028  | 821  | 34847  | 874 | 34282  |
| 697 | 25751  | 760 | 25880  | 822  | 34846  | 875 | 36173  |
| 698 | 20235  | 761 | 25872  | 827  | 33756  | 876 | 36180  |
| 699 | 20239  | 762 | 25732  | 828  | 33773  | 877 | 37019  |
| 700 | 20284  | 763 | 25747  | 829  | 33819A | 878 | 37005  |
| 701 | 20265  | 764 | 25766  | 830  | 33910  | 879 | 36497  |
| 702 | 27250  | 766 | 26718A | 831  | 33900  | 880 | 37514  |
| 703 | 27208  | 767 | 26718  | 832  | 36294  | 881 | 36458  |
| 704 | 27214  | 771 | 26745  | 833  | 37225  | 882 | 33059  |
| 705 | 26199  | 772 | 26741  | 834  | 32299  | 883 | 36310  |
| 706 | 24221  | 773 | 26716  | 835  | 38440  | 884 | 36216  |
| 707 | 24241  | 775 | 26763  | 836  | 38339  | 885 | 36225  |
| 708 | 24227  | 776 | 28355  | 837  | 38459  | 886 | 36285  |
| 709 | 25126  | 777 | 28307  | 838  | 38476  | 887 | 35337  |
| 710 | 24883  | 778 | 24751  | 839  | 31978  | 888 | 31567  |
| 711 | 25820  | 779 | 22220  | 840  | 34433  | 889 | 39049  |
| 712 | 29162  | 782 | 28455  | 841  | 33556  | 890 | 39035  |
| 713 | 29164  | 783 | 28492  | 842  | 33621  | 891 | 38074  |
| 714 | 29151  | 784 | 28398  | 843  | 31955  | 892 | 39006  |
| 715 | 29159  | 785 | 28447  | 844  | 31946  | 896 | 30972  |
| 717 | 29085  | 786 | 21782  | 845  | 31908  | 897 | 32240  |
| 718 | 29066  | 787 | 20808  | 846  | 37432  | 898 | 33668  |
| 721 | 20140  | 788 | 22404  | 847  | 32574  | 899 | 34620  |
| 722 | 21913  | 789 | 22441  | 848  | 33505  | 900 | 34638  |
| 723 | 21912  | 790 | 21486  | 849  | 32590  | 901 | 37700  |
| 726 | 21918  | 791 | 28533  | 850  | 31834  | 902 | 37627  |
| 727 | 21928  | 792 | 28515  | 851  | 31738  | 904 | 37626  |
| 728 | 21928A | 793 | 28532  | 852  | 31748  | 905 | 37617  |
| 729 | 21929  | 794 | 27588  | 853  | 31864  | 906 | 37617A |
| 733 | 20646  | 795 | 28534  | 854  | 38278  | 908 | 37607  |
| 734 | 21648  | 796 | 29264  | 855  | 39209  | 910 | 36697  |
| 735 | 21638  | 797 | 29249  | 856  | 38249  | 911 | 36699  |
| 737 | 21749  | 798 | 26520  | 857  | 30941  | 918 | 34895  |
| 738 | 21779  | 799 | 25479  | 858  | 30900  | 919 | 34896  |
| 739 | 21766  | 800 | 26428  | 859  | 38181  | 922 | 35871  |
| 740 | 20768  | 801 | 26562  | 859+ | 38175  | 927 | 34876  |
| 741 | 20822  | 802 | 24896  | 860  | 40807A | 929 | 34884  |
| 742 | 20755  | 804 | 24896A | 861  | 38313  | 936 | 35843  |
| 743 | 20708  | 805 | 25805  | 862  | 38332  | 937 | 35850  |
| 744 | 21768  | 806 | 25834  | 863  | 38325  | 939 | 35843A |
| 745 | 24825  | 807 | 31216  | 864  | 38326  | 943 | 32465  |
| 746 | 24835  | 808 | 30320  | 865  | 38316  | 944 | 34490  |
| 748 | 24900  | 809 | 33903  | 866  | 35433  | 945 | 36723  |
| 752 | 23325  | 810 | 33923  | 867  | 35650  | 948 | 36716  |
| 753 | 23344  | 812 | 33952  | 868  | 35691  | 950 | 36707  |
| 754 | 27039  | 813 | 32993  | 869  | 39308  | 954 | 33437  |
| 755 | 27086  | 815 | 33951  | 870  | 38385  | 955 | 33428  |
| 756 | 27037  | 816 | 33899  | 871  | 38490  | 956 | 32980  |
| 757 | 27002  | 817 | 33990  | 872  | 36113  | 957 | 32973  |
| 758 | 28105  | 818 | 34828  | 873  | 34290  | 958 | 31932  |

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| Fr.  | Ref.  | Fr.  | Ref.   | Fr.  | Ref.   | Fr.   | Ref.   | Fr.  | Ref.   | Fr.  | Ref.   |
|------|-------|------|--------|------|--------|-------|--------|------|--------|------|--------|
| 959  | 37583 | 1009 | 34550  | 1060 | 44322  | 1113  | 41841  | 1164 | 46467  | 1234 | 49096  |
| 960  | 37542 | 1011 | 39061  | 1061 | 49248  | 1114  | 45143  | 1166 | 46517  | 1235 | 49093  |
| 961  | 37587 | 1012 | 29061  | 1062 | 49216  | 1116  | 49176  | 1167 | 46542  | 1236 | 49092  |
| 962  | 37489 | 1014 | 39063  | 1063 | 49235  | 1117  | 48165  | 1168 | 46468  | 1237 | 49091  |
| 963  | 37487 | 1015 | 39065  | 1064 | 46397  | 1118  | 49108  | 1169 | 46601  | 1242 | 49191  |
| 964  | 37499 | 1016 | 30609  | 1065 | 46219  | 1119  | 48048  | 1170 | 45651  | 1243 | 49183  |
| 965  | 37575 | 1017 | 32836  | 1066 | 43930  | 1120  | 48069  | 1171 | 46614  | 1247 | 49082  |
| 966  | 37670 | 1018 | 32818  | 1067 | 43910  | 1121  | 48120  | 1172 | 43651  | 1270 | 19254  |
| 967  | 31055 | 1019 | 35752  | 1068 | 43904  | 1122  | 48063  | 1173 | 46355  | 1280 | 18098A |
| 968  | 34074 | 1020 | 36628  | 1069 | 42984  | 1123  | 48194  | 1174 | 46401  | 1289 | 19021  |
| 969  | 35005 | 1021 | 36648  | 1070 | 43920  | 1124  | 48140  | 1175 | 46403  | 1299 | 19017  |
| 970  | 36528 | 1022 | 34745  | 1071 | 43819  | 1125  | 49105  | 1176 | 40988A | 1353 | 45871  |
| 971  | 36643 | 1022 | 33850  | 1072 | 43819A | 1126  | 49128  | 1177 | 40948  |      |        |
| 972  | 36665 | 1023 | 34713  | 1073 | 46288  | 1127  | 49167  | 1178 | 40937  |      |        |
| 973  | 36645 | 1024 | 33885  | 1074 | 47246  | 1128  | 49023  | 1179 | 40917  |      |        |
| 974  | 36662 | 1025 | 30936A | 1075 | 47255  | 1129  | 49025  | 1180 | 40937A |      |        |
| 975  | 36672 | 1026 | 38233  | 1076 | 47249  | 1130  | 49132  | 1181 | 40928  |      |        |
| 976  | 36690 | 1027 | 31774  | 1077 | 47380  | 1131  | 49006  | 1182 | 40928A |      |        |
| 977  | 37620 | 1028 | 31333  | 1078 | 40923  | 1132  | 49143  | 1183 | 40948A |      |        |
| 978  | 36211 | 1029 | 31648  | 1079 | 44217  | 1133  | 49033  | 1184 | 40969  |      |        |
| 979  | 36149 | 1030 | 34591  | 1080 | 44236  | 1134  | 49038  | 1185 | 40976  |      |        |
| 980  | 37116 | 1031 | 35544  | 1081 | 42148  | 1135  | 49026  | 1186 | 47416  |      |        |
| 981  | 30586 | 1032 | 35408  | 1082 | 41194  | 1136  | 49061  | 1187 | 45736  |      |        |
| 982  | 32705 | 1033 | 35766  | 1083 | 43781  | 1137  | 49004  | 1188 | 46583  |      |        |
| 983  | 39020 | 1034 | 35783  | 1084 | 44636  | 1138  | 49063  | 1189 | 46565  |      |        |
| 984  | 38041 | 1035 | 35778  | 1085 | 43770  | 1139  | 49074  | 1190 | 46537  |      |        |
| 985  | 34224 | 1036 | 35768  | 1086 | 46698  | 1140  | 49072  | 1191 | 46547  |      |        |
| 986  | 33288 | 1037 | 35777  | 1087 | 47505  | 1141  | 49073  | 1192 | 43234  |      |        |
| 987  | 33351 | 1038 | 35787  | 1088 | 46660  | 1142  | 19070  | 1193 | 44097  |      |        |
| 988  | 33254 | 1039 | 33815  | 1089 | 47162  | 1143  | 19080  | 1194 | 44034  |      |        |
| 989  | 30755 | 1040 | 32760  | 1090 | 46115  | 1144  | 46281  | 1195 | 45775  |      |        |
| 990  | 34500 | 1041 | 32688  | 1091 | 46119  | 1145  | 47253  | 1196 | 46713  |      |        |
| 991  | 37335 | 1042 | 32656  | 1092 | 46169  | 1146  | 41953A | 1197 | 48243  |      |        |
| 992  | 36368 | 1043 | 32618  | 1093 | 45769  | 1148  | 41654  | 1198 | 48332  |      |        |
| 993  | 36451 | 1044 | 33710  | 1094 | 45805  | 1149  | 47041  | 1199 | 48330  |      |        |
| 994  | 31024 | 1045 | 33731  | 1095 | 44886  | 1150  | 47026  | 1200 | 48351  |      |        |
| 995  | 30651 | 1046 | 32629  | 1096 | 47478  | 1151  | 45541A | 1201 | 48281  |      |        |
| 996  | 30683 | 1047 | 32916  | 1097 | 49325  | 1152  | 48415  | 1202 | 48246  |      |        |
| 997  | 34851 | 1048 | 31983  | 1098 | 49301  | 1153  | 48434  | 1203 | 48287  |      |        |
| 998  | 34881 | 1049 | 32925  | 1100 | 40053  | 1154  | 40982  | 1204 | 40415  |      |        |
| 999  | 34794 | 1050 | 32945  | 1101 | 41151  | 1155  | 40898  | 1207 | 18271  |      |        |
| 1000 | 35820 | 1051 | 32954  | 1102 | 41061  | 1156  | 47460  | 1210 | 18168  |      |        |
| 1001 | 34892 | 1052 | 32965  | 1103 | 42852  | 1157  | 47383  | 1212 | 18148A |      |        |
| 1002 | 35708 | 1053 | 32518  | 1104 | 42862  | 1158  | 47466  | 1219 | 17290  |      |        |
| 1003 | 35735 | 1054 | 33867  | 1105 | 42825  | 1159  | 43726  | 1220 | 17189  |      |        |
| 1004 | 34882 | 1055 | 33898  | 1106 | 48475  | 1159b | 43726A | 1221 | 17262  |      |        |
| 1005 | 37600 | 1056 | 40570  | 1107 | 48475A | 1160  | 42783  | 1224 | 17347  |      |        |
| 1006 | 37518 | 1057 | 42267  | 1108 | 49403  | 1161  | 41476  | 1229 | 18373  |      |        |
| 1007 | 30465 | 1058 | 49252  | 1110 | 48483  | 1162  | 44876  | 1230 | 18355  |      |        |
| 1008 | 34544 | 1059 | 49214  | 1112 | 48523  | 1163  | 43526  | 1233 | 49099  |      |        |

## APPENDIX VI

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| Designation   | Reference      | Designation | Reference      |
|---------------|----------------|-------------|----------------|
| Abenezra      | A 41368        | Airy        | P 41247        |
| "             | B 41365        | "           | R 41343        |
| "             | D 41357        | "           | S 41259        |
| "             | F 41366        | Albategnius | A 40155        |
| "             | G 41375        | "           | B 40167        |
| "             | H 42305        | "           | C 40167A       |
| Abulfeda      | A 41278        | "           | E 41202        |
| "             | B 42275        | "           | G 40136        |
| "             | BA 42285       | "           | H 40186        |
| "             | BB 42264       | "           | J 41109        |
| "             | BC 42263       | "           | K 40137        |
| "             | C 41282        | "           | L 41200        |
| "             | E 41268        | "           | M 40175        |
| "             | F 42217        | "           | N 40177        |
| "             | G 41252        | "           | O 40272        |
| "             | H 41263        | "           | P 40272A       |
| "             | J 41266        | "           | R 40291        |
| "             | K 41275        | "           | S 41203        |
| "             | L 41284        | "           | T 41201        |
| "             | M 42207        | Alexander   | A 11695        |
| "             | N 42206        | "           | B 11694        |
| "             | O 41286        | "           | $\beta$ 12665  |
| "             | P 41296        | Alfraganus  | 43029          |
| "             | Q 42202        | Alfraganus  | C 43100        |
| "             | R 42212        | "           | D 43047        |
| "             | S 42221        | "           | E 43028        |
| "             | T 42235        | "           | F 43056        |
| "             | U 42232        | "           | G 43064        |
| "             | W 42231        | Alhazen     | 19217          |
| "             | X 42235A       | Alhazen     | $\gamma$ 18298 |
| "             | Y 42232A       | Aliacensis  | A 41419        |
| "             | Z 42255        | "           | D 41504        |
| "             | $\alpha$ 42234 | "           | E 40530        |
| Adams         | 47592          | "           | F 40553        |
| Adams         | B 47572        | "           | G 40564        |
| Agatharchides | A 34339        | "           | H 40582        |
| "             | B 34386        | "           | K 40592        |
| "             | G 34324        | "           | $\alpha$ 40570 |
| "             | O 34322        | Almanon     | A 42350        |
| Agrippa       | B 11160        | "           | B (CP) 42351   |
| "             | E 11048        | "           | C 42267        |
| "             | F 11097        | "           | D 42351A       |
| "             | A 41229        | "           | E 42320        |
| Airy          | F 41321        | "           | F 42237        |
| "             | H 40392        | "           | G 42340        |
| "             | J 41302        | "           | H 42342        |
| "             | L 41324        | "           | K 414257       |
| "             | M 41322        | "           | L 42372        |
| "             | N 41330        | Alpetragius | 30277          |
| "             | O 41238        | Alpetragius | B 31216        |

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| Designation | Reference      | Designation | Reference       |
|-------------|----------------|-------------|-----------------|
| Alpetragius | C 31203        | Apianus     | H 41437         |
| "           | G 31301        | "           | J 41434         |
| "           | H 31300        | "           | K 41446         |
| "           | J 30390        | "           | L 41468         |
| Alphonsus   | A 30235        | "           | M 41461         |
| "           | G 30251        | Apollonius  | 18077           |
| "           | H 30206        | Apollonius  | C 18035         |
| "           | $\alpha$ 30243 | "           | D 18057         |
| "           | $\xi$ 30294    | "           | E 18087         |
| Alps        | A 20708        | "           | G 18096         |
| "           | B 20711        | "           | H 18065         |
| Anaxagoras  | 20955          | "           | K 18019         |
| Anaxagoras  | A 20935        | "           | L 18111         |
| Anaximander | (SW) 23910     | "           | N 18098         |
| "           | 23902          | "           | P 18150         |
| "           | (NE) 23903     | "           | W 18094         |
| Anaximander | A 22982        | Arago       | 13160           |
| "           | C 23924        | Arago       | B 13056         |
| "           | H 22970        | "           | C 13066         |
| "           | S 22992        | "           | D 13172         |
| "           | T 23902A       | "           | E 13184         |
| "           | U 23829        | Aratus      | 10470           |
| Anaximenes  | 22915          | Aratus      | A 10387         |
| Anaximenes  | A 21978        | "           | C 11450         |
| "           | B 22923        | "           | $\alpha$ 10470A |
| "           | C 22907        | "           | $\beta$ 10492   |
| "           | E 22901        | Archimedes  | A 20497         |
| "           | F 21996        | "           | C 20522         |
| "           | H 22906        | "           | D 20533         |
| Andel       | A 41198        | "           | E 21412         |
| "           | B 41172        | "           | F 21420         |
| "           | C 41195        | "           | G 21428         |
| "           | D 42108        | "           | H 21410         |
| "           | E 42200        | "           | $\gamma$ 20452  |
| "           | F 41194        | Archytas    | 10845           |
| "           | G 42108A       | Argelander  | (CP) 40298      |
| "           | H 41191        | Argelander  | A 41218         |
| "           | J 41193        | "           | B 40286         |
| "           | K 41190        | "           | C 40297         |
| "           | $\alpha$ 42128 | "           | D 40370         |
| Angstrom    | 25479          | Ariadaeus   | 12097           |
| Mare Anguis | $\xi$ 18373    | Ariadaeus   | A 13008         |
| Ansgarius   | 49252          | "           | B 12058         |
| Ansgarius   | A 49214        | "           | D 12098         |
| "           | C 49235        | "           | F 13007         |
| Apianus     | B 41436        | Aristarchus | 26470           |
| "           | C 41467        | Aristarchus | A 26463         |
| "           | E 41428        | "           | B 26454         |
| "           | F 40497        | "           | C 26456         |
| "           | G 41417        | "           | F 26376         |

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| Designation   | Reference       | Designation | Reference  |
|---------------|-----------------|-------------|------------|
| Aristarchus   | Z 26473         | Baco        | B 41786    |
| Aristillus    | 10515           | "           | C 41767    |
| Aristillus    | A 10565         | "           | D 41778    |
| "             | B 20527         | "           | F 41796    |
| Aristoteles   | 11796           | "           | G 41871    |
| Aristoteles   | D 11773         | "           | H 42708    |
| "             | M 12870         | "           | J 41891    |
| "             | N 12779         | "           | L 41785    |
| "             | $\gamma$ 11880A | "           | M 42705A   |
| "             | $\zeta$ 11786   | "           | O 42708A   |
| "             | $\theta$ 11796A | "           | P 42717    |
| Arnold        | 12931           | "           | R 42735    |
| Arnold        | C 12940         | "           | S 42705    |
| "             | D 12915A        | "           | T 42800    |
| "             | F 12912         | "           | U 42709    |
| "             | G 12902         | "           | W 42810    |
| "             | H 12915         | Baillaud    | 11966      |
| "             | J 12921         | Baillaud    | B 11965    |
| Arzachel      | A 30320         | "           | E 11956    |
| "             | B 30249         | Bailly      | A 33903    |
| "             | C 30360         | "           | B 33923    |
| "             | H 30331         | "           | D 33990    |
| "             | K 30321         | "           | E 34828    |
| Asclepi       | A 42739         | "           | F 33952    |
| "             | B 42830A        | "           | G 33951    |
| "             | C 42830         | "           | H 33899    |
| "             | D 42840         | "           | N 34847    |
| "             | E 42758         | "           | O 32993    |
| Atlas         | 14782           | "           | P 34846    |
| Atlas         | A 15731         | Baily       | A 13745    |
| "             | D 14786         | "           | B 13767    |
| "             | $\alpha$ 15722  | Ball        | (CP) 31518 |
| "             | $\gamma$ 14772  | Ball        | E 31519    |
| Mare Australe | H 46718         | "           | F 31610    |
| "             | L 45871         | Cape Banat  | 24229      |
| Autolycus     | 10521           | Barocius    | D 42721    |
| Autolycus     | A 10531         | "           | EA 42743   |
| "             | B 10429         | "           | EB 42752   |
| Auwers        | A 13203         | "           | EC 42754   |
| Auzout        | 18187           | "           | ED 42762   |
| Auzout        | $\alpha$ 18271  | "           | EE 42773   |
| "             | $\delta$ 18148A | "           | K 42730    |
| "             | $\gamma$ 18168  | "           | M 42647    |
| Azophi        | C 42317         | "           | N 42648    |
| "             | D 42411A        | "           | O 42761    |
| "             | E 42319         | "           | R 42669    |
| "             | F 42327         | "           | S 42677    |
| Babbage       | A 24825         | Barrow      | A 10924    |
| "             | C 24835         | Bayer       | 33758      |
| Baco          | A 42709A        | Bayer       | A 33718    |
|               |                 | "           | B 33715    |

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| Designation | Reference       | Designation  | Reference |
|-------------|-----------------|--------------|-----------|
| Bayer       | D 33734         | Billy        | A 36294   |
| "           | F 33719         | "            | C 37227   |
| "           | K 33756         | "            | D 37225   |
| "           | L 33773         | "            | E 37235   |
| "           | M 33727         | Biot         | 47318     |
| "           | N 33724         | Biot         | A 46397   |
| Beaumont    | B 44322         | "            | B 47314   |
| "           | C 44344         | Birmingham   | B 20889   |
| "           | D 44229         | "            | H 20970   |
| "           | F 44321         | Birt         | A 31338   |
| "           | G 44324         | Birt         | A 31338A  |
| "           | H 44259         | "            | B 31367   |
| "           | K 44370         | "            | D 31355A  |
| "           | L 44284         | "            | E 31355   |
| Beer        | 21445           | Blagg        | 10022     |
| Beer        | A 21435         | Blancanus    | B 31983   |
| "           | B 21443         | "            | C 31981   |
| Behaim      | 49248           | "            | D 31829   |
| Behaim      | A 49216         | "            | F 31990   |
| Bellot      | 47221           | "            | G 31899   |
| Bernouilli  | A 17509         | "            | H 31961   |
| "           | B 17620         | "            | J 31848   |
| "           | C 17557         | "            | K 31897   |
| "           | D 17548         | Blanchinus   | B 40422   |
| Berosus     | A 17574         | "            | D 40462   |
| Berzelius   | 16529           | "            | K 40471   |
| Berzelius   | A 16509         | Bode         | 20141     |
| "           | F 16504         | Bode         | A 20115   |
| Bessarion   | 25285           | "            | B 20155   |
| Bessarion   | A 26219         | "            | C 20281   |
| "           | B 26238         | "            | E 20251   |
| "           | C 26257         | "            | G 20161   |
| "           | D 26323         | "            | H 21211   |
| "           | E 25286         | "            | K 20136   |
| Bessel      | 12387           | "            | L 20069   |
| Bessel      | A 13421         | Boguslawsky  | 42905     |
| "           | D 13405         | "            | C 41954   |
| "           | E 12353         | "            | D 42915   |
| "           | F 12326         | "            | E 42916   |
| "           | G 12336         | "            | F 42906   |
| "           | H 13403         | "            | G 41984   |
| Bettinus    | 33819           | "            | H 41945   |
| Bettinus    | A 33910         | "            | J 41945A  |
| "           | D 33900         | Bohnenberger | 46217     |
| "           | $\gamma$ 33819A | Bohnenberger | D 46341   |
| Bianchini   | 23775           | "            | E 46249   |
| Bianchini   | A 23767         | "            | F 46215   |
| "           | D 23793         | "            | G 46219   |
| Biela       | 44861           | G. Bond      | 15503     |
| Billy       | 37243           |              |           |

| Designation  | Reference | Designation | Reference |
|--------------|-----------|-------------|-----------|
| G. Bond      | A 15512   | Briggs      | B 28437   |
| "            | K 14558   | "           | C 28432   |
| W. Bond      | B 10950   | Brown       | A 31794   |
| "            | C 10951   | "           | B 31790   |
| "            | D 10829   | "           | C 31793   |
| Bonpland     | C 32197   | "           | D 31791   |
| "            | D 33107   | Bruce       | 10002     |
| "            | E 33176   | Buch        | B 42631   |
| "            | F 33122   | "           | D 42613   |
| "            | G 33210   | "           | E 42622   |
| "            | γ 33146   | Bullialdus  | B 33349   |
| Boscovich    | A 12116   | "           | E 33376   |
| "            | B 11157   | "           | F 33388   |
| "            | α 11185   | "           | G 33369   |
| Bouguer      | 23759     | "           | H 33308   |
| Bouguer      | A 23739   | Bürg        | 13730     |
| "            | B 23820   | Bürg        | 13772     |
| Boussingault | 42974     | Burnham     | A 41215   |
| Boussingault | C 43910   | "           | B 41226   |
| "            | D 43819B  | "           | F 41214   |
| "            | K 42973   | Büsching    | A 42671   |
| "            | N 42984   | "           | B 43602   |
| "            | P 42933   | "           | C 42660   |
| "            | R 43920   | "           | E 42559   |
| "            | S 43819   | "           | F 42673   |
| "            | T 43819A  | "           | G 42683   |
| Bouvard      | C 37670   | "           | H 42680   |
| "            | D 37627   | "           | J 42693   |
| "            | E 37626   | Byrgius     | A 38411   |
| "            | F 37617A  | "           | D 38440   |
| "            | G 37617   | "           | E 38339   |
| "            | K 37607   | "           | G 38476   |
| Brayley      | 25365     | Calippus    | A 11600   |
| Brayley      | B 25325   | "           | B 11548   |
| "            | C 25396A  | "           | D 11559   |
| "            | D 25304   | Campanus    | 34416     |
| "            | E 25396   | Campanus    | A 34433   |
| "            | F 25325A  | "           | B 34428   |
| Breislak     | A 42703   | "           | β 34438   |
| "            | B 42713   | "           | γ 34414   |
| "            | C 42715   | Capella     | A 45193   |
| "            | D 42714   | "           | B 45196   |
| "            | E 42714A  | "           | C 45099   |
| "            | F 42724   | "           | F 45175   |
| "            | G 42723   | "           | G 45191   |
| Brenner      | A 44694   | "           | H 46104   |
| "            | E 45602   | "           | J 45186   |
| "            | F 44655   | "           | M 45097   |
| Briggs       | 28434     | "           | α 45163   |
| Briggs       | A 28455   | Capuanus    | A 33556   |

| Designation | Reference | Designation | Reference |
|-------------|-----------|-------------|-----------|
| Capuanus    | B 33586   | Caucasus    | ξ 11505   |
| "           | C 33547   | Cauchy      | 16116     |
| "           | E 33660   | Cauchy      | A 16201   |
| "           | F 33650   | "           | D 16137   |
| "           | H 33653   | Cavalerius  | 29018     |
| "           | K 33651   | Cavendish   | A 37420   |
| "           | L 33642   | "           | E 37432   |
| "           | M 33640   | "           | F 37424   |
| Cardanus    | 29222     | Cayley      | 12066     |
| Cardanus    | C 29159   | Celsius     | A 42594   |
| Carlini     | 23535     | "           | B 42576   |
| "           | 23567     | "           | C 42595   |
| "           | B 23500   | "           | H 42585   |
| "           | C 23517   | Censorinus  | 45030     |
| "           | D 22534   | Censorinus  | A 45040   |
| "           | G 23553A  | "           | B 45023   |
| "           | H 23543   | "           | D 45083   |
| "           | K 23541   | "           | F 46005   |
| Carpenter   | 22973     | "           | H 45053   |
| Carpenter   | D 22956   | Cepheus     | 15645     |
| "           | F 22946   | Cepheus     | A 15645A  |
| "           | G 22965   | Chacornac   | A 14459   |
| "           | J 22985   | Challis     | 10928A    |
| Carrington  | 16639     | Chevallier  | B 15750   |
| Casatus     | C 31955   | "           | F 15772   |
| "           | G 31978   | Chladni     | 10016     |
| "           | J 31946   | Cichus      | A 33507   |
| Cassini     | A 10664   | "           | B 32574   |
| "           | B 10654   | "           | C 33505   |
| "           | C 11606   | "           | F 33518   |
| "           | E 10698   | "           | H 33524   |
| "           | F 10695   | "           | J 33503   |
| "           | G 10760   | "           | K 32579   |
| "           | K 10750   | "           | N 33510   |
| "           | L 10659   | Clairaut    | C 41754   |
| "           | M 10646   | "           | G 41733   |
| "           | κ 10619   | "           | H 41735   |
| "           | λ 10696   | "           | J 41751   |
| J. Cassini  | E 21913   | "           | K 41756   |
| Catharina   | A 43354   | "           | M 41762   |
| "           | E 43249   | Clausius    | 35650     |
| "           | F 43363   | Clausius    | C 35517   |
| "           | H 44303   | "           | F 34599   |
| "           | K 43384   | Clavius     | B 30893   |
| "           | L 43385   | "           | BA 31802  |
| "           | δ 43370   | "           | BB 30881  |
| "           | ε 44301   | "           | C 31834   |
| Caucasus    | η 11545   | "           | CA 31833  |
| "           | λ 11532   | "           | CB 31813  |



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| Designation | Reference      | Designation  | Reference           |
|-------------|----------------|--------------|---------------------|
| Claavius    | D 31815        | Copernicus   | C 22162             |
| "           | DA 31836       | "            | D 24201             |
| "           | DB 31826B      | "            | E 23181             |
| "           | E 31738        | "            | F 23170             |
| "           | F 32812        | "            | G 23160             |
| "           | G 31748        | "            | H 23112             |
| "           | J 31864        | "            | K 22290             |
| "           | JA 31865       | "            | L 22283             |
| "           | JB 31874       | "            | P 22177             |
| "           | K 31866        | "            | $\beta$ (ECP) 23146 |
| "           | KA 31886       | "            | $\beta$ (WCP) 23136 |
| "           | L 31885        | Mare Crisium | E 17247             |
| "           | LA 31883       | "            | $\theta$ 17347      |
| "           | MA 31832       | "            | $\varphi$ 17262     |
| "           | MB 31832A      | Crozier      | 47253               |
| "           | MC 31801       | Crozier      | B 47271             |
| "           | N 31854        | Crüger       | 38278               |
| "           | O 31853        | Crüger       | A 38257             |
| "           | R 31850        | "            | B 39209             |
| "           | T 31826        | "            | C 38249             |
| "           | TA 31847       | "            | E 38360             |
| "           | TB 31826A      | Curtius      | A 40913             |
| "           | W 31852        | "            | B 40839             |
| "           | X 31856        | "            | C 40923             |
| "           | Y 31844        | "            | F 40911             |
| "           | $\theta$ 31825 | "            | G 40921             |
| Cleomedes   | A 17418        | "            | H 40953             |
| "           | B 17435        | "            | K 40963             |
| "           | F 17378        | "            | L 40962             |
| "           | G 17460        | "            | M 40961             |
| Cleostratus | A 24839        | "            | $\theta$ 40921A     |
| "           | B 24839A       | Cusanus      | 12995               |
| "           | C 24910        | Cusanus      | A 12994A            |
| "           | D 24839B       | "            | B 13904             |
| "           | E 24858        | Cuvier       | A 41729             |
| Colombo     | (CP) 46295     | "            | B 41748             |
| Colombo     | A 46274        | "            | C 41736             |
| "           | B 46288        | "            | D 40788             |
| "           | E 46247        | "            | E 41739             |
| Condorcet   | 19211          | "            | F 41718             |
| Condorcet   | F 19144        | "            | G 40787             |
| "           | P 19135        | "            | H 40795             |
| Conon       | 10336          | "            | J 40795A            |
| Conon       | A 10373        | "            | K 41708             |
| Cook        | 47310          | "            | L 41715             |
| Cook        | A 47320        | "            | M 41810             |
| "           | B 47249        | "            | N 41820             |
| "           | F 47380        | "            | O 41728             |
| "           | G 47312        | "            | P 41746             |
| Copernicus  | B 23173        | "            | R 41747             |

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| Designation | Reference      | Designation | Reference        |
|-------------|----------------|-------------|------------------|
| Cyrillus    | A 43283        | Deluc       | E 30836          |
| "           | B 43260        | "           | G 40807A         |
| "           | C 43251        | "           | H 30821A         |
| "           | E 44217        | "           | L 30857          |
| "           | G 44236        | "           | N 40807          |
| "           | $\alpha$ 43293 | "           | O 30838          |
| Cysatus     | 30941          | "           | P 30835          |
| Cysatus     | A 30900        | "           | Q 30835B         |
| "           | B 30911        | "           | S 40808          |
| "           | D 30940        | "           | T 30822          |
| "           | F 30829        | "           | U 30825          |
| "           | G 30901        | "           | V 40818          |
| "           | H 40901        | "           | W 30817          |
| "           | J 40809        | "           | $\gamma$ 40804   |
| Daguerre    | B 45148        | Dembowski   | A 11015          |
| Damoiseau   | A 38180        | Democritus  | 12868            |
| "           | C 38175        | Democritus  | A 12857          |
| "           | D 38181        | "           | B 12836          |
| "           | E 38049        | "           | C 12815          |
| "           | F 38173        | "           | D 12839          |
| "           | G 38024        | Demonax     | 41967            |
| "           | L 38057        | Demonax     | A 41968          |
| Daniell     | 14527          | De Morgan   | 12055            |
| Daniell     | D 13640        | Descartes   | A 42250          |
| Darney      | 33285          | "           | C 42179          |
| Darney      | C 34224        | Deseilligny | 13326            |
| "           | D 34235        | De Vico     | 38313            |
| "           | E 34211        | De Vico     | C 38325          |
| "           | J 33254        | "           | D 38326          |
| "           | $\alpha$ 33283 | "           | E 38316          |
| D'Arrest    | A 12033        | "           | F 38332          |
| "           | B 12031        | Dionysius   | 12094            |
| Darwin      | C 38385        | Dionysius   | A 13002          |
| Davy        | A 31231        | Diophantus  | 24496            |
| "           | B 31158        | Diophantus  | A 25426          |
| "           | C 31119        | "           | B 24468          |
| "           | G 30187        | Dollond     | 42148            |
| Dawes       | 14229          | Dollond     | D 42114          |
| Dechen      | 26741          | "           | E 42167          |
| De Gasparis | 36493          | "           | L 42115          |
| Delambre    | C 42094        | "           | M 42187          |
| "           | D 43001        | "           | $\gamma$ 42146   |
| "           | F 43021        | "           | $\epsilon$ 42156 |
| De la Rue   | D 13893        | Donati      | A 40373          |
| "           | J 14815        | "           | B 40394          |
| Delaunay    | A 40337        | "           | C 40354          |
| Delisle     | 24499          | "           | $\alpha$ 40385   |
| Delmotte    | 17475          | Doppelmayer | B 36510          |
| Deluc       | C 40718        | "           | J 35491          |
| "           | D 30823        | "           | K 35490          |

| Designation  | Reference | Designation  | Reference   |
|--------------|-----------|--------------|-------------|
| Doppelmayer  | L 35490A  | Eratosthenes | F 21360     |
| Dove         | A 43773   | "            | K 21252     |
| Draper       | 23350     | "            | Z 22233     |
| Draper       | A 23370   | "            | 7 22245A    |
| "            | C 23249   | "            | κ 21246     |
| Drebbel      | 35675     | Euclides     | 34182       |
| Drebbel      | B 35681   | Euclides     | B 34290     |
| "            | C 35614   | "            | C 34282     |
| "            | D 35691   | "            | D 34126     |
| "            | F 35617   | "            | E 34121     |
| "            | G 35619   | "            | F 35151     |
| "            | H 35636   | "            | K 34017     |
| "            | J 36605   | "            | M 34168     |
| "            | L 35694   | "            | o 34188     |
| "            | M 34695   | Euctemon     | 11927       |
| Dunthorne    | 34550     | Euctemon     | C 11947A    |
| Egede        | A 11718   | "            | D 11947     |
| "            | B 10797   | "            | F 11938A    |
| "            | C 11746   | "            | G 11938     |
| "            | E 11716   | "            | H 11907     |
| "            | F 11738   | "            | J 11918     |
| "            | G 10778   | Eudoxus      | A 12731     |
| Eichstadt    | 39308     | "            | B 12701     |
| Eichstadt    | E 38490   | "            | D 11668     |
| Eimmart      | 18420     | "            | E 12659     |
| Eimmart      | C 18318   | "            | G 12721     |
| "            | δ 18355   | "            | 7 12657     |
| Encke        | 25097     | Euler        | 24349       |
| Encke        | B 25094   | "            | (CP) 24349A |
| "            | C 25091   | Euler        | E 25401     |
| "            | E 26040   | "            | F 24336     |
| "            | ρ 25082   | "            | P 24384     |
| "            | σ 25072   | "            | δ 24365     |
| Endymion     | 14890     | "            | π 24366     |
| Endymion     | A 15811   | Fabricius    | 44697       |
| "            | C 14855   | Fabricius    | B 45618     |
| "            | D 15749   | "            | J 44791     |
| "            | E 15840   | Faraday      | D 41629     |
| "            | F 14893   | "            | G 41721     |
| "            | G 14853   | "            | H 41720     |
| "            | H 15727   | "            | K 41637     |
| Epigenes     | A 20902   | Fauth        | 23140       |
| Epimenides   | B 33666   | Fauth        | A 23140A    |
| Eratosthenes | 21295     | "            | B 23120     |
| Eratosthenes | A 21331   | "            | C 23029     |
| "            | B 21342   | "            | D 23110     |
| "            | C 22209   | "            | E 23059     |
| "            | D 21289   | Faye         | (CP) 40366  |
| "            | E 21370   | Faye         | A 40356     |
|              |           | "            | B 40378     |

| Designation | Reference | Designation  | Reference |
|-------------|-----------|--------------|-----------|
| Fermat      | B 43339   | Fracastorius | A 45441   |
| "           | E 43324   | "            | B 45368   |
| "           | F 43317   | "            | C 45411   |
| "           | G 43323   | "            | J 45365   |
| Fernelius   | B 40650   | "            | N 45319   |
| "           | C 40652   | Fra Mauro    | A 33059   |
| "           | D 40681   | "            | B 33067   |
| "           | E 40692   | "            | C 33069   |
| Feuillée    | 21445A    | "            | D 33008   |
| Firmicus    | 18182     | "            | E 32180   |
| Firmicus    | B 19102   | "            | F 32181   |
| "           | C 19103   | "            | G 32083   |
| "           | D 18190   | "            | H 32067A  |
| "           | M 19017   | "            | δ 32044   |
| "           | ε 18098A  | "            | λ 33056   |
| Flammarion  | A 30043   | "            | μ 33154   |
| "           | B 30077   | "            | ν 33054   |
| "           | C 30063   | "            | ο 33150   |
| "           | D 30085   | "            | τ 33049   |
| Flamsteed   | 36097     | Franklin     | 15672     |
| Flamsteed   | A 36173   | Franklin     | C 15568   |
| "           | B 36180   | "            | F 15680   |
| "           | C 37019   | Fraunhofer   | 46663     |
| "           | D 37005   | Fraunhofer   | G 46662   |
| "           | E 37016   | Cape Fresnel | φ 11407   |
| "           | F 36058   | Furnerius    | A 47515   |
| Fontana     | 38207     | "            | C 47505   |
| Fontana     | A 37296   | "            | D 46660   |
| "           | G 38227   | "            | G 47611   |
| Fontenelle  | 21849     | "            | H 47640   |
| Fontenelle  | A 21902   | "            | J 47537   |
| "           | B 21888   | "            | K 47631   |
| "           | C 21990   | Galilaei     | 28178     |
| "           | D 21888A  | Galilaei     | A 28270   |
| "           | F 22900   | "            | D 28175   |
| "           | G 21856   | "            | E 28254   |
| "           | H 21859   | Galle        | 12812     |
| "           | K 20993   | Galle        | A 12820   |
| "           | L 21911   | "            | B 11872   |
| "           | M 22819   | "            | C 12824   |
| "           | N 22819A  | Gambart      | 22061     |
| "           | α 21858   | Gambart      | A 23021   |
| Foucault    | 24707     | "            | B 22003   |
| Fourier     | 36580     | "            | C 22005   |
| Fourier     | A 36550   | "            | D 23005   |
| "           | C 36497   | "            | E 22091   |
| "           | D 36552   | "            | F 22090   |
| "           | E 36478   | "            | G 22003A  |
| "           | F 36498   | "            | H 21085   |
| "           | β 37514   | "            | K 22046   |

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| Designation | Reference | Designation | Reference     |          |        |
|-------------|-----------|-------------|---------------|----------|--------|
| Gambart     | L         | 22065       | Geber         | D        | 41392  |
| "           | M         | 22009       | "             | E        | 42315  |
| "           | N         | 32050       | "             | F        | 42314  |
| "           | $\alpha$  | 22071       | Geminus       | C        | 17505  |
| Gärtner     | A         | 12897       | "             | D        | 16530  |
| "           | D         | 12895       | "             | G        | 16541  |
| "           | E         | 13827       | "             | H        | 16542  |
| "           | F         | 12874       | Gemma Frisius | E        | 41670  |
| Gassendi    |           | 36310       | "             | EA       | 41569  |
| Gassendi    | A         | 36216       | "             | EB       | 41680  |
| "           | B         | 36225       | "             | F        | 41548  |
| "           | F         | 36285       | "             | K        | 41650  |
| "           | G         | 36278       | "             | M        | 41576  |
| "           | J         | 35356       | "             | O        | 41583  |
| "           | L         | 36324       | "             | P        | 41582  |
| "           | M         | 35391       | "             | Q        | 42508  |
| "           | O         | 35337       | "             | R        | 42610  |
| "           | R         | 35367       | "             | S        | 42517  |
| "           | T         | 35342       | "             | T        | 42537  |
| "           | Y         | 35385       | "             | U        | 42536  |
| "           | $\alpha$  | 36351       | "             | $\beta$  | 41586  |
| "           | $\beta$   | 36219       | Gerard        | A        | 26790  |
| "           | $\zeta$   | 36258       | "             | B        | 26782  |
| Gaudibert   | C         | 46109       | Gioja         |          | 10909  |
| "           | J         | 46119       | Glaisher      |          | 17232  |
| Gauricus    | D         | 31567       | Goclenius     | A        | 47162  |
| "           | E         | 31573       | "             | $\alpha$ | 46197  |
| "           | G         | 31555       | Godin         | A        | 11064  |
| "           | H         | 31681       | "             | B        | 11071  |
| "           | J         | 31573A      | "             | C        | 11042  |
| "           | K         | 32504       | "             | D        | 11041  |
| "           | L         | 31595       | "             | E        | 12012  |
| "           | M         | 31596       | Goldschmidt   | A        | 20915  |
| "           | N         | 31583       | Goodacre      | A        | 41594  |
| "           | P         | 31577       | "             | B        | 42502  |
| "           | R         | 31587       | "             | C        | 42503  |
| Gauss       |           | 17589       | "             | D        | 42515  |
| Gauss       | C         | 17633       | "             | E        | 42524  |
| "           | D         | 17643       | Gould         | A        | 32372  |
| "           | E         | 17597       | "             | B        | 32395  |
| Gay-Lussac  | A         | 23232       | "             | P        | 32372A |
| "           | B         | 23247       | Grimaldi      | A        | 39049  |
| "           | C         | 23266       | "             | B        | 39035  |
| "           | D         | 23245       | "             | C        | 38074  |
| "           | F         | 23224       | "             | E        | 39006  |
| "           | G         | 23213       | "             | J        | 39045  |
| "           | H         | 23283       | Grove         |          | 14614  |
| "           | $\gamma$  | 23276       | Gruemberger   | A        | 30972  |
| Geber       |           | 42323       | "             | C        | 31901  |
| Geber       | B         | 42312       | "             | D        | 30992  |

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| Designation | Reference | Designation | Reference |            |        |
|-------------|-----------|-------------|-----------|------------|--------|
| Gruemberger | E         | 30859       | Hall      | J          | 14588  |
| "           | F         | 30849       | Halley    | B          | 40174  |
| Gruithuisen |           | 25534       | "         | C          | 41117  |
| Gruithuisen | B         | 25508       | Hanno     | E          | 44886  |
| "           | E         | 25650       | "         | B          | 45769  |
| Guericke    | A         | 32199       | "         | D          | 45805  |
| "           | B         | 32255       | "         | F          | 45769A |
| "           | C         | 31290       | Hansen    |            | 19224  |
| "           | D         | 32240       | Hansen    | A          | 19233  |
| "           | E         | 32107       | "         | B          | 19254  |
| "           | G         | 32254       | Hansteen  |            | 37179  |
| "           | H         | 32241       | Hansteen  | A          | 37262  |
| "           | J         | 32128       | Harding   |            | 26688  |
| "           | K         | 32226       | Harding   | A          | 27634  |
| "           | L         | 32214       | "         | D          | 26677  |
| Gutenberg   | A         | 46135       | "         | H          | 26685  |
| "           | B         | 46115       | Harpalus  |            | 24719  |
| "           | D         | 46169       | Harpalus  | B          | 23883  |
| "           | G         | 46130A      | "         | C          | 24802  |
| "           | G (CP)    | 46130       | "         | E          | 24769  |
| "           | $\eta$    | 46121       | "         | H          | 24870  |
| Gylden      | C         | 40110       | Hase      | (S)        | 47561  |
| Hadley      | A         | 11402       | "         | (N)        | 47479  |
| "           | B         | 10476       | Hase      | A          | 47478  |
| Hagecius    | C         | 43867       | Hausen    |            | 34896  |
| "           | D         | 43894       | Hausen    | A          | 34895  |
| "           | L         | 43897       | "         | B          | 34884  |
| Hahn        | A         | 18419       | "         | D          | 35843A |
| "           | B         | 18532       | "         | E          | 35843  |
| "           | C         | 18552       | "         | F          | 34876  |
| Haidinger   |           | 33623       | Hecataeus |            | 49316  |
| Haidinger   | A         | 33622       | Hecataeus | D          | 49341  |
| "           | B         | 33623A      | "         | E          | 49301  |
| "           | G         | 32693       | "         | $\alpha$   | 49325  |
| "           | J         | 33621       | "         | $\epsilon$ | 49322A |
| Hainzel     | A         | 33668       | Heinsius  | A          | 32633  |
| "           | B         | 34631       | "         | D          | 32672  |
| "           | D         | 33781       | "         | E          | 32661  |
| "           | E         | 33760       | "         | F          | 32654  |
| "           | F         | 33731       | "         | G          | 31691  |
| "           | H         | 34630       | "         | H          | 32650  |
| "           | J         | 34681       | "         | K          | 32642  |
| "           | K         | 34620       | "         | L          | 32635  |
| "           | L         | 34651       | "         | M          | 31695  |
| "           | M         | 33731A      | "         | N          | 32600  |
| "           | O         | 34682       | "         | O          | 31692  |
| "           | P         | 33741       | Heis      |            | 24543  |
| "           | R         | 34662       | Heis      | A          | 24544  |
| "           | T         | 34664       | "         | D          | 24532  |
| Hall        | C         | 14586       | Helicon   |            | 22694  |

| Designation     | Reference | Designation | Reference |
|-----------------|-----------|-------------|-----------|
| Helicon         | B 22681   | J. Herschel | K 22888   |
| "               | C 23634   | "           | L 23817   |
| Hell            | 31513     | "           | M 22894   |
| Hell            | B 30580   | "           | N 22876   |
| "               | E 30586   | "           | P 22849   |
| "               | G 31510   | "           | R 22838   |
| "               | J 31409   | Hesiodus    | A 32550   |
| "               | K 30575   | "           | B 32465   |
| Helmholtz       | A 43930   | "           | D 32448   |
| "               | B 43952   | "           | E 32436   |
| "               | D 43921   | Hevelius    | A 29024   |
| "               | G 44828   | "           | D 28075   |
| "               | H 43990   | Hind        | 41123     |
| "               | J 43990A  | Hind        | C 41125   |
| Henry (Paul)    | 37460     | Hippalus    | A 34490   |
| Henry (Prosper) | 37389     | "           | B 34452   |
| Heraclitus      | A 40755   | Hipparchus  | B 40132A  |
| "               | C 40775   | "           | C 41142   |
| "               | E 40776   | "           | D 40037   |
| Hercules        | 14732     | "           | E 40037A  |
| Hercules        | A 14737   | "           | F 40047   |
| "               | B 14704   | "           | G 41028   |
| "               | C 14627   | "           | H 40049   |
| "               | D 14750   | "           | J 40153   |
| "               | E 14731   | "           | K 40132   |
| "               | F 14726   | "           | L 41151   |
| "               | G 14732A  | "           | N 40088   |
| "               | H 14718   | "           | P 40048   |
| "               | J 14629   | "           | Q 40154   |
| "               | K 14639   | "           | T 40162   |
| Herigonius      | 35243     | "           | U 40161   |
| Herigonius      | E 35263   | "           | W 41038   |
| Hermann         | 38041     | "           | Z 41154   |
| Hermann         | A 28040   | Holden      | 48332     |
| Herodotus       | 27309     | Hommel      | E 42865   |
| Herodotus       | A 27336   | "           | F 42875   |
| "               | B 27358   | "           | J 42870   |
| Herschel        | 30039     | "           | K 42852   |
| Herschel        | C 30058   | "           | L 42862   |
| "               | F 30170   | "           | M 42836   |
| "               | G 30141   | "           | N 42845   |
| "               | H 30150   | "           | O 42845A  |
| "               | J 30171   | "           | R 43729   |
| C. Herschel     | 24526     | Hooke       | 16615     |
| C. Herschel     | C 24620   | Hooke       | D 16625   |
| "               | E 24566   | Horrebow    | 23835     |
| J. Herschel     | B 23816   | Horrebow    | B 23855   |
| "               | C 22898   | "           | G 23836   |
| "               | D 23806   | Horrocks    | 41006     |
| "               | F 22895   | Horrocks    | M 41037   |

| Designation      | Reference | Designation   | Reference |
|------------------|-----------|---------------|-----------|
| Hortensius       | 24161     | Isidorus      | G 45121   |
| Hortensius       | A 25007   | "             | H 45036   |
| "                | B 24089   | "             | K 45145   |
| "                | C 24140   | Jacobi        | A 41845   |
| "                | E 24029   | "             | B 41841   |
| "                | δ 24110   | "             | C 40896   |
| "                | ε 24123   | "             | D 40887   |
| Huggins          | A 30624   | "             | H 40895   |
| Humboldt         | 48475     | "             | J 40894   |
| Humboldt         | N 48483   | "             | K 41803   |
| "                | α 48475A  | "             | L 41852   |
| "                | γ 49403   | "             | M 41814   |
| M. Humboldtianum | A 16709   | "             | N 41813   |
| "                | B 16708   | "             | O 41812   |
| "                | C 15799   | "             | P 41824   |
| "                | D 15779A  | "             | R 41832   |
| "                | E 15779   | "             | S 41834   |
| "                | F 15851   | "             | T 41842   |
| "                | G 15832   | Jansen        | 14263     |
| Huygens          | A 20333   | Jansen        | B 14148   |
| "                | ε 20350   | "             | C 14267   |
| Hyginus          | 11103     | "             | D 14257   |
| Hyginus          | A 10191   | "             | E 14254   |
| "                | B 10183   | "             | F 15201   |
| "                | C 11143   | "             | G 14136   |
| "                | D 10179   | "             | H 14169   |
| "                | E 11145   | "             | K 14189   |
| "                | F 11143A  | "             | L 14285   |
| "                | G 11109   | "             | δ 15223   |
| "                | H 11120   | Janssen       | B 44618   |
| Hypatia          | A 43078   | "             | C 44628   |
| "                | B 43068   | "             | E 44725   |
| "                | D 43085   | "             | K 44761   |
| "                | DA 43085A | "             | M 44636   |
| "                | E 43040   | Julius Ceasar | B 12136   |
| "                | F 43067   | "             | C 12162   |
| "                | G 43084   | "             | D 12182   |
| "                | H 44007   | "             | ε 12119   |
| Ideler           | A 42736   | "             | ζ 12251   |
| "                | B 42747   | Kaiser        | A 41509   |
| "                | C 42747A  | "             | B 40579   |
| "                | M 42785   | "             | C 41539   |
| Inghirami        | 36723     | "             | D 41600   |
| Inghirami        | C 36699   | "             | E 41507   |
| "                | D 37700   | Kane          | 11899     |
| "                | F 36716   | Kane          | A 12817   |
| Isidorus         | A 45143   | "             | F 11896   |
| "                | D 45057   | Kant          | 43148     |
| "                | E 45039   | Kant          | H 43155   |
| "                | F 45155   | "             | N 43137   |

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| Designation | Reference | Designation  | Reference |
|-------------|-----------|--------------|-----------|
| Kant        | O         | Krafft       | E         |
| "           | P         | "            | H         |
| "           | Q         | Krieger      | B         |
| "           | R         | Krusenstern  | A         |
| "           | S         | Kunowsky     | D         |
| "           | T         | Kunowsky     | D         |
| "           | U         | La Caille    | A         |
| "           | Z         | "            | B         |
| "           | $\delta$  | "            | D         |
| Kästner     | D         | "            | F         |
| "           | F         | "            | G         |
| "           | M         | "            | H         |
| "           | N         | La Condamine | 22880     |
| "           | P         | La Condamine | A         |
| "           | S         | "            | B         |
| "           | $\beta$   | "            | C         |
| Kepler      |           | "            | D         |
| Kepler      | A         | "            | E         |
| "           | C         | "            | F         |
| "           | F         | "            | G         |
| Kies        | A         | "            | H         |
| "           | B         | "            | K         |
| "           | C         | "            | L         |
| "           | D         | "            | M         |
| "           | E         | "            | N         |
| Kinau       | B         | "            | O         |
| "           | E         | "            | P         |
| "           | F         | "            | R         |
| "           | G         | "            | $\rho$    |
| "           | H         | "            | T         |
| "           | K         | "            | $\nu$     |
| "           | L         | Lacroix      | 36671     |
| Kirch       |           | Lacroix      | A         |
| Kirch       | E         | "            | B         |
| "           | F         | "            | F         |
| Kircher     | B         | "            | H         |
| "           | C         | "            | J         |
| "           | E         | "            | Z         |
| Kirchhoff   | C         | Lade         | M         |
| Klaproth    | A         | Lagalla      | M         |
| "           | C         | "            | N         |
| "           | D         | "            | P         |
| Klein       | A         | Lagrange     | A         |
| "           | B         | "            | B         |
| "           | C         | "            | C         |
| König       |           | "            | D         |
| Krafft      |           | "            | C         |
| Krafft      | A         | "            | F         |
| "           | C         | "            | G         |
| "           | D         | "            | H         |
| "           |           | "            | H         |
| "           |           | "            | J         |

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| Designation | Reference | Designation | Reference |
|-------------|-----------|-------------|-----------|
| La Hire     |           | Lassell     | 31236     |
| La Hire     | A         | Lassell     | B         |
| "           | B         | "           | C         |
| Lalande     |           | "           | D         |
| Lalande     | A         | "           | E         |
| "           | B         | "           | F         |
| "           | C         | "           | G         |
| "           | D         | "           | H         |
| "           | G         | Lavoisier   | 27671     |
| "           | N         | Lavoisier   | A         |
| Lambert     |           | "           | B         |
| Lambert     | A         | "           | C         |
| "           | B         | "           | D         |
| "           | $\gamma$  | "           | E         |
| "           | $\delta$  | "           | F         |
| Lamech      |           | "           | G         |
| Lansberg    |           | Legendre    | 48428     |
| Lansberg    | A         | Legendre    | D         |
| "           | B         | "           | $\delta$  |
| "           | C         | Le Gentil   | A         |
| "           | D         | "           | G         |
| "           | E         | "           | G         |
| "           | F         | Lehmann     | C         |
| "           | $\alpha$  | "           | D         |
| "           | $\beta$   | "           | H         |
| "           | $\gamma$  | Le Monnier  | B         |
| Langrenus   |           | "           | C         |
| Langrenus   | A         | Lepaute     | 34564     |
| "           | B         | Letronne    | A         |
| "           | C         | "           | B         |
| "           | D         | "           | F         |
| "           | F         | "           | $\eta$    |
| "           | J         | Le Verrier  | 22664     |
| "           | K         | Le Verrier  | A         |
| "           | M         | "           | B         |
| "           | N         | "           | D         |
| "           | X         | "           | E         |
| La Pérouse  |           | "           | T         |
| La Pérouse  | A         | Lexell      | (CP)      |
| "           | B         | Lexell      | A         |
| "           | E         | "           | (CP)      |
| Pr. Laplace | A         | "           | B         |
| "           | B         | "           | F         |
| "           | C         | "           | G         |
| "           | D         | "           | H         |
| "           | F         | "           | K         |
| "           | H         | "           | L         |
| "           | L         | Licetus     | A         |
| "           | M         | "           | B         |
| "           | $\beta$   | "           | C         |
| "           |           | "           | D         |

| Designation | Reference | Designation | Reference     |          |       |
|-------------|-----------|-------------|---------------|----------|-------|
| Licetus     | F         | 40711       | Linné         | E        | 12454 |
| "           | G         | 40629       | "             | F        | 12503 |
| "           | H         | 40731       | "             | G        | 11588 |
| "           | J         | 40639       | "             | H        | 11595 |
| "           | K         | 40701       | Lippershey    |          | 31463 |
| "           | L         | 40713       | Lippershey    | R        | 31454 |
| "           | M         | 40722       | "             | T        | 31472 |
| "           | N         | 40721       | Littrow       | B        | 14366 |
| "           | Q         | 41713       | "             | D        | 14490 |
| "           | RR        | 40740       | "             | $\beta$  | 14480 |
| "           | S         | 41700       | Lockyer       |          | 44712 |
| "           | T         | 40781       | Lockyer       | A        | 43679 |
| "           | U         | 40782       | "             | F        | 44703 |
| "           | W         | 41701       | "             | G        | 43781 |
| Lichtenberg |           | 27582       | "             | HA       | 43770 |
| Lichtenberg | A         | 27458       | Lohrmann      |          | 39020 |
| "           | B         | 27534       | Lohrmann      | A        | 38081 |
| Lick        | D         | 17272       | "             | B        | 39031 |
| Liebig      |           | 36471       | "             | D        | 39000 |
| Liebig      | A         | 36471A      | Lohse         |          | 48243 |
| "           | B         | 36462       | Longomontanus | A        | 32749 |
| "           | F         | 36451       | "             | C        | 31890 |
| "           | G         | 36444       | "             | E        | 31798 |
| Lilius      | A         | 40882       | "             | G        | 32705 |
| "           | B         | 40749       | "             | L        | 32765 |
| "           | G         | 40706       | "             | M        | 32764 |
| "           | H         | 40707       | "             | N        | 32777 |
| "           | J         | 40813       | "             | Q        | 32718 |
| "           | K         | 40820       | "             | R        | 32769 |
| "           | L         | 40821       | "             | S        | 32763 |
| "           | M         | 40823       | "             | T        | 32762 |
| "           | N         | 40735       | "             | U        | 32738 |
| "           | O         | 40832       | "             | W        | 32743 |
| "           | P         | 40832A      | "             | X        | 31789 |
| "           | R         | 40841       | "             | 7        | 32745 |
| "           | S         | 40769       | "             | $\kappa$ | 32726 |
| "           | T         | 40872       | Lubbock       |          | 46066 |
| "           | U         | 40870       | Lubbock       | G        | 46036 |
| "           | W         | 40880       | Lubniezky     | D        | 33288 |
| "           | X         | 41800       | "             | F        | 33351 |
| "           | $\alpha$  | 40861       | "             | G        | 33236 |
| Lindenau    | A         | 43545       | "             | H        | 33249 |
| "           | D         | 43560       | Luther        |          | 13544 |
| "           | E         | 43582       | Luther        | $\alpha$ | 13515 |
| "           | G         | 43584       | "             | $\zeta$  | 12692 |
| Linné       |           | 11486       | Lyell         | A        | 16214 |
| Linné       | A         | 12418       | Maclaurin     |          | 49023 |
| "           | B         | 12510       | Maclaurin     | A        | 49025 |
| "           | C         | 11560       | "             | D        | 49132 |
| "           | D         | 12458       | "             | E        | 49006 |

| Designation | Reference | Designation | Reference  |   |        |
|-------------|-----------|-------------|------------|---|--------|
| Maclaurin   | F         | 49143       | Manilius   |   | 11254  |
| "           | J         | 49033       | Manilius   | A | 11350  |
| "           | M         | 49038       | "          | B | 11228  |
| "           | N         | 49026       | "          | C | 11270  |
| "           | R         | 49004       | "          | D | 11212  |
| Maclear     |           | 13138       | "          | F | 10279  |
| Maclear     | A         | 13109       | "          | G | 11266  |
| Macrobius   | A         | 16313       | "          | H | 11340  |
| "           | B         | 16315       | "          | K | 11280  |
| "           | C         | 16365       | Manners    |   | 13047  |
| "           | D         | 16381       | Manners    | A | 13028  |
| "           | F         | 16398       | Manzinius  |   | 41972  |
| Mädler      |           | 44189       | Manzinius  | E | 41953A |
| Mädler      | A         | 44186       | "          | F | 41849A |
| "           | $\zeta$   | 45230       | "          | G | 41953  |
| Maestlin    |           | 26048       | "          | J | 41951  |
| Maestlin    | H         | 26088       | "          | K | 41859  |
| Magelhaens  |           | 46280       | "          | L | 41960  |
| Magelhaens  | A         | 46281       | "          | M | 41879  |
| Maginus     | A         | 30755       | "          | N | 41964  |
| "           | CA        | 31738A      | "          | O | 41970  |
| "           | CB        | 31707       | "          | P | 41982  |
| "           | EA        | 30717       | "          | R | 42901  |
| "           | EB        | 30706       | "          | U | 42903  |
| "           | H         | 31709       | Maraldi    | A | 15354  |
| "           | J         | 30736A      | "          | B | 15284  |
| "           | L         | 31705       | "          | M | 16300  |
| "           | M         | 31706       | Marco Polo | A | 20235  |
| "           | N         | 31704       | "          | B | 20239  |
| "           | NA        | 31715A      | "          | C | 20284  |
| "           | O         | 31737       | "          | D | 20265  |
| "           | P         | 31727       | "          | F | 20277  |
| "           | Q         | 30727       | "          | G | 20238  |
| "           | R         | 31715       | "          | H | 20320  |
| "           | T         | 30779       | "          | K | 20321  |
| "           | U         | 30793       | Marinus    | A | 47634  |
| "           | V         | 30785       | "          | C | 47651  |
| "           | W         | 30785A      | "          | D | 47672  |
| "           | X         | 30787       | "          | E | 47589  |
| "           | Y         | 30798       | "          | G | 47644  |
| "           | Z         | 30746       | "          | K | 47637  |
| Main        |           | 10928       | Marius     |   | 27250  |
| Mairan      |           | 25616       | Marius     | A | 27201  |
| Mairan      | A         | 24682       | "          | B | 27208  |
| "           | D         | 25635       | "          | C | 27214  |
| "           | E         | 24671       | "          | D | 26199  |
| "           | G         | 25685       | "          | E | 27270  |
| Malapert    | C         | 40928A      | "          | F | 27340  |
| "           | E         | 40939       | "          | X | 28106  |
| "           | K         | 40928       | Marth      |   | 34511  |

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| Designation    | Reference | Designation | Reference |
|----------------|-----------|-------------|-----------|
| Marth $\alpha$ | 34531     | Mee F       | 34638     |
| Maskelyne      | 15003     | Menelaus    | 12268     |
| Maskelyne B    | 14083     | Menelaus A  | 12229     |
| " G            | 14044     | " C         | 12245     |
| " H            | 15038     | " D         | 12272     |
| " K            | 14095     | " $\alpha$  | 12273     |
| " M            | 14163     | Mercator A  | 34500     |
| " e            | 16018     | " B         | 33478     |
| " $\zeta$      | 15091     | Mercurius   | 16722     |
| Mason B        | 13666     | Mercurius A | 16744     |
| " C            | 14608     | " B         | 16733     |
| Maupertuis A   | 22767     | " F         | 16721     |
| " B            | 22788     | " G         | 16730     |
| " C            | 22766     | " H         | 15785     |
| Maurolycus A   | 41678     | " J         | 15783     |
| " B            | 41654     | " K         | 16743     |
| " C            | 41642     | " L         | 16721A    |
| " E            | 41632     | Mersenius B | 37335     |
| " G            | 41740     | " C         | 36373     |
| " H            | 41641     | " D         | 36369     |
| " J            | 41677     | " E         | 36368     |
| " K            | 41664     | " P         | 36394     |
| " L            | 41686     | " S         | 36392     |
| " N            | 41685     | Messala A   | 16549     |
| " P            | 41671     | " B         | 16680     |
| " R            | 42615     | " C         | 16685     |
| " S            | 42616     | " D         | 17604     |
| " T            | 41645     | " E         | 16694     |
| Maury          | 15610     | " F         | 17602     |
| Maury A        | 15548     | " J         | 16665     |
| " B            | 15547     | " K         | 16645     |
| " D            | 14681     | Messier     | 47033     |
| C. Mayer       | 11839     | Messier B   | 47041     |
| C. Mayer E     | 11837     | " D         | 47026     |
| " F            | 11858     | " G         | 47099     |
| " $\zeta$      | 11839A    | Metius D    | 45657     |
| T. Mayer       | 24266     | " G         | 45644     |
| T. Mayer A     | 24256     | Meton A     | 11945     |
| " B            | 24296     | " B         | 11904     |
| " C            | 24221     | Milichius   | 24197     |
| " D            | 24241     | Milichius A | 25126     |
| " E            | 24227     | " $\alpha$  | 24174B    |
| " F            | 24272     | " "         | 24174A    |
| " G            | 24239     | " "         | 24174     |
| " L            | 24202     | " "         | 24175     |
| " Z            | 24224     | " $\beta$   | 24144     |
| " $\kappa$     | 25232     | " $\beta$   | 24146     |
| " $\lambda$    | 24279     | Miller (CP) | 40613     |
| McClure        | 47246     | Miller B    | 40610     |
| McClure D      | 47255     | " D         | 40641     |

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| Designation     | Reference | Designation | Reference |
|-----------------|-----------|-------------|-----------|
| Miller E        | 40632     | Neper A     | 19037     |
| Mitchell A      | 12715     | " B         | 19079     |
| " B             | 12714     | " C         | 19162     |
| " E             | 12743     | Neumayer    | 43904     |
| Moigno          | 11991     | Neumayer M  | 43904A    |
| Moigno A        | 12910     | Newcomb H   | 15498     |
| " C             | 11991A    | Newton E    | 31908     |
| Moltke          | 44001     | " F         | 30985     |
| Moltke A        | 43091     | Nicolai     | 43627     |
| " B             | 44021     | Nicolai A   | 42697     |
| Monge           | 46392     | " B         | 43618     |
| Montanari D     | 32761     | " D         | 43626     |
| Moretus $\beta$ | 30934     | " E         | 43625     |
| Mösting         | 31001     | " G         | 42678     |
| Mösting A       | 30095     | " J         | 42685     |
| " B             | 31024     | " L         | 43619     |
| " C             | 31043     | " M         | 43657     |
| " D             | 30080     | Nicollet    | 32307     |
| Müller A        | 40134     | Nicollet B  | 32314     |
| " F             | 40123     | " $\beta$   | 32314A    |
| " O             | 40143     | Nöggerath F | 34784     |
| Mutus A         | 42839     | " G         | 34756     |
| " B             | 42819     | " J         | 34794     |
| " G             | 42922     | Nonius A    | 40577     |
| " H             | 41889     | " C         | 40517     |
| " K             | 41894     | " D         | 40528     |
| " L             | 41898     | " E         | 40539     |
| " M             | 42815     | " F         | 40558     |
| " N             | 42818     | " G         | 40586     |
| " O             | 42814     | Oenopides   | 24883     |
| " P             | 42825     | Oenopides A | 25820     |
| " Q             | 42838     | Oersted P   | 15628     |
| Nasmyth D       | 35735     | Oken        | 47609     |
| Naumann         | 27517     | Oken A      | 46698     |
| Naumann B       | 26690     | Olbers      | 29162     |
| Neander         | 45541     | Olbers A    | 29164     |
| Neander A       | 45541A    | " B         | 29151     |
| " C             | 45417     | " F         | 29066     |
| " M             | 45507     | " $\alpha$  | 29085     |
| " N             | 45513     | Opelt E     | 32299     |
| " O             | 45518     | " F         | 33301     |
| " R             | 45524     | " K         | 32283     |
| " $\lambda$     | 45565     | Oppolzer A  | 30000     |
| Nearch A        | 43826     | Orontius A  | 30633     |
| " C             | 42878     | " B         | 30644     |
| " E             | 42867     | " C         | 30651     |
| " F             | 42889A    | " D         | 30683     |
| " G             | 42889     | " E         | 30663     |
| Neison          | 11952     | Palisa A    | 31115A    |
| Neper           | 19185     | " C         | 31113     |

| Designation | Reference      | Designation  | Reference       |
|-------------|----------------|--------------|-----------------|
| Palisa      | D 31115        | Petermann    | 12956           |
| "           | P 31126        | Petermann    | A 12956A        |
| Palitzsch   | A 48415        | "            | B 12965         |
| "           | B 48434        | "            | C 12964         |
| Pallas      | A 20140        | "            | E 12945         |
| "           | B 20047        | Peters       | 11982           |
| "           | C 20017        | Phillips     | A 48455         |
| "           | D 20044        | Philolaus    | F 21912         |
| "           | N 10102        | "            | J 21918         |
| Palmieri    | A 36533        | "            | L 21928         |
| "           | E 36458        | "            | M 21928A        |
| Parrot      | L 40310        | "            | N 21929         |
| "           | M 40330        | Phocylides   | A 34851         |
| "           | N 40203        | "            | F 34881         |
| "           | O 40249        | "            | G 34787         |
| "           | P 40342        | "            | J 35820         |
| "           | Q 40216        | "            | M 34892         |
| "           | R 40253        | "            | N 35708         |
| "           | S 40267        | "            | S 34882         |
| "           | T 40267A       | Piazzi       | B 37620         |
| "           | U 40274        | "            | C 37600         |
| "           | W 40222        | "            | F 37518         |
| "           | X 40235        | Piazzi Smyth | 20646           |
| Parry       | A 32176        | Piazzi Smyth | B 20644         |
| "           | B 32125        | "            | $\alpha$ 20627A |
| "           | C 32111        | "            | $\beta$ 20645   |
| "           | E 32174        | "            | $\pi$ 20639     |
| "           | F 32153        | Picard       | 17285           |
| Peirce      | 17361          | Picard       | H 18126         |
| Peirce      | B 17353        | "            | $\alpha$ 17290  |
| Peirescius  | A 46760        | "            | $\gamma$ 17189  |
| "           | C 46752        | Piccolomini  | D 44475         |
| "           | G 46734        | "            | E 44474         |
| "           | $\beta$ 46773  | "            | K 44443         |
| Pentland    | A 40982A       | "            | L 44494         |
| "           | B 40991        | "            | M 44466         |
| "           | C 41910        | "            | N 43495         |
| "           | D 41809        | "            | O 44454         |
| "           | E 40982        | "            | P 45500         |
| "           | F 40898        | "            | $\delta$ 44469  |
| "           | J 41900        | E. Pickering | 41025           |
| "           | K 41921        | E. Pickering | A 41022         |
| "           | L 41921A       | "            | B 41023         |
| "           | M 41920        | W. Pickering | 47023           |
| "           | N 41839        | Pico         | B 21782         |
| "           | O 41849        | "            | C 20773         |
| "           | P 40992        | "            | D 21648         |
| "           | $\alpha$ 40980 | "            | E 21638         |
| Petavius    | B 47383        | "            | F 21637         |
| "           | C 47466        | "            | G 21722         |

| Designation | Reference         | Designation | Reference        |
|-------------|-------------------|-------------|------------------|
| Pico        | $\beta$ 21608     | Plato       | Q 20841          |
| Pictet      | A 30790           | "           | S 21850          |
| "           | C 30697           | "           | T 21811          |
| "           | F 30677           | "           | U 20786          |
| "           | N 31606           | "           | W 21863          |
| Pingré      | 35850             | "           | X 21756          |
| Pingre      | 35871             | "           | Y 21769B         |
| Pitatus     | A 31592           | "           | $\kappa$ 20775   |
| "           | C 31487           | "           | $\lambda$ 20744  |
| "           | D 31571A          | "           | $\nu$ 20881      |
| "           | F 31467           | Playfair    | B 41329          |
| "           | G 31479           | "           | C 41421          |
| "           | H 32530           | "           | E 41347          |
| "           | J 32404           | "           | F 41337          |
| "           | K 31530           | Plinius     | 13286            |
| "           | L 31438           | Plinius     | A 13292          |
| Pitiscus    | (CP) 43726        | "           | B 14224          |
| Pitiscus    | A 43726A          | "           | $\beta$ 13286A   |
| "           | B 43743           | "           | $\delta$ 13266   |
| "           | D 42795           | Plutarch    | 18490            |
| "           | G 42783           | Plutarch    | A 19327          |
| "           | H 43718           | "           | C 18369          |
| "           | J 42794           | "           | $\alpha$ 19327A  |
| "           | K 43742           | Poisson     | A 41439          |
| "           | L 43747           | "           | K 41544          |
| Piton       | A 20613           | "           | M 41515          |
| "           | B 20603           | "           | N 41521          |
| Plana       | C 13637           | "           | O 41537          |
| "           | D 13626           | "           | P 41532          |
| "           | E 13604           | "           | R 41520          |
| "           | F 13614           | "           | S 41479          |
| "           | $\beta$ 12693     | Polybius    | A 44339          |
| "           | $\gamma$ 12683    | "           | B 43483          |
| "           | $\delta$ 12693A   | "           | D 44415          |
| "           | $\epsilon$ 12692A | "           | E 44401          |
| Plato       | 20798             | "           | G 43358          |
| Plato       | A 21749           | "           | H 43366          |
| "           | B 21779           | "           | J 43368          |
| "           | C 21890           | "           | K 43471          |
| "           | D 21766           | "           | L 44337          |
| "           | E 21776           | "           | $\delta$ 44325   |
| "           | F 21788           | "           | $\epsilon$ 44346 |
| "           | G 20768           | Pons        | A 43405          |
| "           | H 20822           | "           | B 43418          |
| "           | J 20755           | "           | F 43430          |
| "           | K 20732           | "           | G 43427          |
| "           | L 20748           | "           | H 43435          |
| "           | M 21769           | "           | J 43442          |
| "           | O 21769A          | "           | K 43445          |
| "           | P 21768           |             |                  |



APPENDIX VI—continued

| Designation  | Reference      | Designation | Reference      | Designation   | Reference        | Designation | Reference      |
|--------------|----------------|-------------|----------------|---------------|------------------|-------------|----------------|
| Pons         | L 43416        | Ptolemaeus  | B 30113        | Rabbi Levi    | N 43529          | Reinhold    | $\pi$ 23025    |
| "            | M 43465        | "           | C 30157        | "             | O 43548          | "           | $\chi$ 23057A  |
| Pontanus     | A 42521        | "           | D 30144        | "             | P 43556          | Repsold     | D 25732        |
| "            | D 42403        | "           | G 40102        | "             | Q 43565          | "           | E 25747        |
| "            | F 41476        | "           | H 30192        | "             | R 43586          | "           | F 25766        |
| "            | J 41590        | "           | J 30196        | Ramsden       |                  | "           | H 26718A       |
| "            | K 41493        | "           | K 30184        | "             | 34544            | "           | J 26718        |
| "            | L 42407        | "           | L 30165        | "             | 34586            | "           | N 26745        |
| "            | M 42419        | "           | M 30156        | "             | E 34568          | "           | P 25751        |
| "            | N 42411        | "           | O 30162        | "             | G 34527          | "           | R 26716        |
| "            | O 42413        | "           | P 30159        | "             | $\gamma$ 34567   | "           | T 26763        |
| "            | P 42429        | "           | S 30108        | Réaumur       | A 40007          | "           | A 10093        |
| "            | Q 42426        | "           | T 40103        | "             | B 40017          | Rhaeticus   | B 11012        |
| "            | R 42437        | "           | U 40108        | "             | C 40006          | "           | D 11001        |
| "            | S 42542        | "           | X 40109        | "             | D 40040          | "           | D 41000        |
| "            | T 42448        | "           | Y 40116        | Regiomontanus | A 30416          | "           | E 46601        |
| "            | U 42469        | Puiseux     |                | "             | B 30458          | Rheita      | A 46613        |
| "            | W 42468        | "           | D 35433        | "             | C 30478          | "           | B 46517        |
| "            | Z 41487        | "           | F 35379        | "             | E 30497          | "           | F 46614        |
| "            | $\beta$ 41487A | Purbach     | A 30424        | "             | G 30457          | "           | G 45651        |
| Pontécoulant | A 44874        | "           | B 30465        | "             | H 30467          | "           | P 39063        |
| "            | D 44876        | "           | D 30328        | "             | K 30500          | Riccioli    | D 29061        |
| Posidonius   | A 14512        | "           | E 30316        | "             | L 40419          | "           | H 39065        |
| "            | B 14534        | "           | F 40401        | Regnault      |                  | "           | L 39061        |
| "            | F 13584        | "           | J 30466        | Regnault      | C 25872          | "           | $\alpha$ 43664 |
| "            | G 13577        | "           | K 30472        | Reichenbach   | A 46467          | Riccus      | D 43644        |
| "            | H 13518        | "           | N 30484        | "             | G 46542          | "           | E 43622        |
| "            | J 14525        | "           | O 30461        | "             | H 46468          | "           | G 43635        |
| "            | M 14516        | "           | P 30454A       | "             | K 45498          | "           | J 43633        |
| "            | N 13419        | "           | R 30454        | Reimarus      | H 45775          | "           | K 43651        |
| "            | P 13585        | "           | S 30435        | Reiner        |                  | "           | L 43645        |
| "            | $\gamma$ 13560 | "           | T 30411        | Reiner        | A 27078          | "           | M 43579        |
| Proclus      | 17207          | Pythagoras  | A 24848        | "             | B 27039          | "           | N 43588        |
| Proclus      | A 16253        | "           | D 24900        | "             | C 27086          | "           | O 43686        |
| "            | C 16272        | "           | $\alpha$ 23899 | "             | E 27063          | "           | P 43549        |
| "            | D 16229        | Pytheas     |                | "             | H 28105          | "           | R 43598        |
| "            | F 16294        | "           | A 23344        | (Reiner       | $\gamma$ ) 28142 | "           | T 41139        |
| "            | G 16262        | Pytheas     | B 23310        | Reinhold      | A 23067          | "           | Y 41250        |
| Proctor      | A 30783        | "           | C 23302        | "             | B 23067A         | Ritchey     | A 41158        |
| "            | B 30772        | "           | D 23325A       | "             | C 24017          | "           | B 41157        |
| "            | C 30773        | "           | E 23311        | "             | D 24014          | "           | C 41250        |
| "            | D 30771        | "           | F 23218        | "             | E 23099          | "           | D 41157        |
| "            | E 30761        | "           | G 22386        | "             | F 23065          | Ritter      |                |
| "            | F 30764        | Rabbi Levi  | A 43516        | "             | N 24022          | "           | B 13023        |
| "            | G 30753        | "           | D 43517        | "             | $\beta$ 23083    | "           | C 13025        |
| "            | H 30731        | "           | F 42588        | "             | $\gamma$ 23068   | "           | D 13026        |
| Protagoras   | 10872          | "           | H 42579        | "             | $\theta$ 23056   | Robinson    |                |
| Protagoras   | B 10853        | "           | J 43601        | "             | $\iota$ 23057    | "           | B 23875        |
| "            | E 10706        | "           | L 43526        | "             | $\lambda$ 23020  | Rocca       | B 39201        |
| Ptolemaeus   | A 30114        | "           | M 43527        | "             | $\mu$ 23035      | "           | E 39210        |
|              |                |             |                | "             | $\nu$ 23032      | Römer       |                |
|              |                |             |                |               |                  | "           | C 15432        |

| Designation | Reference | Designation | Reference         |         |        |
|-------------|-----------|-------------|-------------------|---------|--------|
| Römer       | D         | 15431       | Sacrobosco        | O       | 42356  |
| "           | J         | 15368       | "                 | P       | 42375  |
| "           | K         | 15338       | Santbech          | B       | 46401  |
| "           | L         | 15329       | "                 | E       | 46357  |
| Rosenberger | B         | 44748       | "                 | F       | 46403  |
| "           | E         | 43846       | "                 | $\beta$ | 46355  |
| "           | F         | 43862       | Sasserides        | B       | 31643  |
| "           | G         | 43890       | "                 | D       | 30589  |
| "           | H         | 44811       | "                 | E       | 31602  |
| "           | K         | 44821       | "                 | F       | 31634  |
| Ross        |           | 13260       | "                 | H       | 31643A |
| Ross        | B         | 13139       | "                 | J       | 31624  |
| "           | C         | 13210       | "                 | K       | 30692  |
| "           | D         | 13281       | "                 | L       | 30684  |
| "           | E         | 13189       | "                 | M       | 30691  |
| "           | F         | 14108       | "                 | N       | 30692A |
| "           | G         | 14118       | Saunder           | A       | 42016  |
| "           | H         | 13167       | "                 | B       | 41076  |
| Rosse       |           | 45340       | "                 | C       | 41084  |
| Rost        |           | 33803       | Saussure          | A       | 30609  |
| Rost        | M         | 32892       | "                 | B       | 30657  |
| Rothmann    | A         | 44409       | "                 | D       | 40703  |
| "           | B         | 44502       | "                 | F       | 30659  |
| "           | C         | 43477       | Scheiner          | A       | 32836  |
| "           | E         | 44514       | "                 | C       | 32856  |
| "           | F         | 44418       | "                 | F       | 32833  |
| Rünker      | E         | 26652       | "                 | G       | 32818  |
| Rutherford  |           | 31807       | "                 | H       | 32853  |
| Rutherford  | A         | 30898       | "                 | J (E)   | 32846  |
| "           | B         | 30898A      | "                 | K       | 32834  |
| "           | C         | 30888       | "                 | L       | 32931A |
| "           | D         | 30869       | "                 | M       | 32921  |
| "           | E         | 30868       | Schiaparelli      |         | 27389  |
| Sabine      |           | 13042       | Schiaparelli      | A       | 28319  |
| Sabine      | A         | 13032       | Schickard         | A       | 35752  |
| "           | B         | 13072       | "                 | B       | 35669  |
| "           | C         | 13081       | "                 | C       | 35771  |
| "           | D         | 14002       | "                 | G       | 36628  |
| "           | E         | 14022       | "                 | H       | 36648  |
| "           | $\alpha$  | 13030       | Schiller (S. end) |         | 33850  |
| Sacrobosco  | A         | 42450       | " (N. end)        |         | 34745  |
| "           | B         | 42460       | Schiller          | A       | 34713  |
| "           | C         | 42359       | Schmidt           |         | 13021  |
| "           | F         | 42366       | Schomberger       |         | 40997  |
| "           | H         | 42490       | Schomberger       | A       | 40988  |
| "           | J         | 42430       | "                 | D       | 41915  |
| "           | K         | 42338       | "                 | E       | 40988A |
| "           | L         | 42433       | "                 | F       | 40968  |
| "           | M         | 42452       | "                 | G       | 40937  |
| "           | N         | 42455       | "                 | H       | 40917  |

| Designation | Reference  | Designation | Reference    |            |        |
|-------------|------------|-------------|--------------|------------|--------|
| Schomberger | J          | 40968A      | Shuckburgh   | E          | 16609  |
| "           | K          | 40948       | Silberschlag |            | 12110  |
| "           | L          | 40948A      | Silberschlag | A          | 12122  |
| "           | M          | 40969       | "            | E          | 12019  |
| "           | N          | 40926       | Simpelius    |            | 40975  |
| Schröter    | A          | 21038       | Simpelius    | A          | 40994  |
| "           | B          | 20166       | "            | D          | 40944  |
| "           | C          | 21164       | "            | F          | 41903  |
| "           | D          | 21067       | "            | J          | 40937A |
| "           | E          | 21014       | "            | K          | 40976  |
| "           | G          | 21065       | "            | L          | 40934  |
| "           | H          | 21045       | "            | M          | 40994A |
| "           | J          | 21104       | "            | N          | 41934  |
| "           | K          | 21035       | Sinas        |            | 15115  |
| "           | L          | 21023       | Sinas        | A          | 15133  |
| Schubert    |            | 19084       | "            | E          | 15106  |
| Schubert    | A          | 19083       | Sirsalis     |            | 38241  |
| "           | B          | 19082       | Sirsalis     | B          | 38179  |
| "           | Y          | 19070       | "            | C          | 38187  |
| "           | Z          | 19080       | "            | F          | 38243  |
| Schwabe     |            | 13900       | "            | J          | 38233  |
| Schwabe     | F          | 13901       | Mare Smythii | $\alpha$   | 49099  |
| "           | G          | 12970       | "            | $\gamma$   | 49093  |
| Scoresby    |            | 10957       | "            | $\delta$   | 49092  |
| Scoresby    | A          | 10978       | "            | $\epsilon$ | 49091  |
| "           | L          | 10958A      | "            | $\zeta$    | 49183  |
| "           | M          | 10958       | "            | $\eta$     | 49191  |
| "           | N          | 10959       | "            | $\theta$   | 49082  |
| Secchi      |            | 16084       | Snellius     | A          | 47416  |
| Secchi      | A          | 16065       | Sosigenes    |            | 12195  |
| "           | B          | 16066       | Sosigenes    | A          | 13113  |
| Seeliger    |            | 40053       | "            | B          | 12194  |
| Seeliger    | A          | 40053A      | "            | C          | 13122  |
| Segner      |            | 33885       | South        | B          | 23874  |
| Seleucus    |            | 28355       | Spallanzani  | A          | 42792  |
| Seleucus    | A          | 28307       | Spitzbergen  | A          | 21503  |
| Sharp       |            | 24751       | "            | C          | 21524  |
| Sharp       | A          | 24753       | "            | D          | 21524A |
| "           | B          | 24783       | Spörer       | A          | 30035  |
| "           | D          | 24770       | Mare Spumans | P          | 19021  |
| Sheepshanks |            | 11845       | "            | Q          | 19013  |
| Sheepshanks | A          | 11866       | Stadius      | A          | 22158  |
| "           | B          | 11876       | "            | B          | 22220  |
| "           | C          | 11863       | "            | C          | 22116  |
| "           | $\epsilon$ | 11843       | "            | D          | 22157  |
| Short       |            | 30936       | "            | E          | 22261  |
| Short       | $\beta$    | 30936A      | "            | F          | 22262  |
| Shuckburgh  |            | 15687       | "            | G          | 22149  |
| Shuckburgh  | A          | 16608       | "            | H          | 22230  |
| "           | C          | 15678       | "            | J (SE)     | 22263  |

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| Designation | Reference | Designation    | Reference |
|-------------|-----------|----------------|-----------|
| Stadius K   | 22136     | O. Struve H    | 28492     |
| " L         | 22127     | Suess          | 27037     |
| " M         | 22275     | " D            | 27028     |
| " N         | 22166     | " F            | 27002     |
| Steinheil G | 45731     | Sulp. Gallus   | 11393     |
| " H         | 45711     | Sulp. Gallus A | 11347     |
| Stevinus A  | 46562     | " B            | 12310     |
| " C         | 46565     | " M            | 11344     |
| " D         | 46537     | " S            | 11346     |
| " E         | 46547     | Tacitus A      | 43330     |
| " α         | 46583     | " B            | 43234     |
| Stiborius A | 44660     | " C            | 43223     |
| " B         | 44630     | " E            | 43234A    |
| " F         | 44538     | " F            | 42289     |
| " G         | 44660A    | " G            | 42299     |
| Stöfler E   | 40679     | " H            | 43300     |
| " F         | 40667     | " J            | 43225     |
| " K         | 40653     | " K            | 43232     |
| " M         | 41605     | " L            | 43244     |
| " N         | 40686     | " M            | 43254     |
| " O         | 40618     | " N            | 43219     |
| " R         | 40627     | " O            | 43264     |
| " S         | 40770     | Tacquet        | 13218     |
| " T         | 41613     | Tacquet A      | 13234     |
| " U         | 41624     | Tacquet C      | 13243     |
| Strabo      | 13888     | Tannerus       | 42803     |
| Strabo A    | 14839     | Tannerus A     | 41864     |
| " B         | 13970     | " B            | 41884     |
| " C         | 13932     | " D            | 41872     |
| " E         | 13952     | " E            | 41883     |
| " F         | 13972     | " H            | 42821     |
| " G         | 14920     | " K            | 42802     |
| " J         | 13951     | " L            | 42804     |
| " K         | 14920A    | " M            | 42801     |
| St. Range B | 22704     | " N            | 42822     |
| " ε         | 22744     | Taruntius (CP) | 17029     |
| Street A    | 31703     | Taruntius A    | 17152     |
| " C         | 31774     | " C            | 17110     |
| " D         | 31745     | " E            | 16049     |
| " E         | 31733     | " F            | 16046     |
| " F         | 31794A    | " G            | 17053     |
| " G         | 31772     | " H            | 17060     |
| " H         | 31734     | " K            | 17081     |
| " J         | 31755     | " M            | 16172     |
| " K         | 31753     | " N            | 18004     |
| " L         | 31747     | " O            | 18013     |
| " N         | 31724     | " P            | 17080     |
| " P         | 31741     | Taylor C       | 42059     |
| O. Struve C | 28398     | " D            | 42069     |
| " E         | 28447     | Thales         | 13868     |

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| Designation    | Reference | Designation   | Reference |
|----------------|-----------|---------------|-----------|
| Thales A       | 13845     | Turner        | 32022     |
| " F            | 13846     | Turner F      | 32042     |
| " G            | 13838     | " H           | 32024     |
| " H            | 13866     | " K           | 32036     |
| " L            | 13940     | " L           | 32015     |
| " M            | 13842     | " M           | 32007     |
| " N            | 13950     | Tycho A (CP)  | 31653     |
| " W            | 13835     | " B           | 31679     |
| Theaetetus     | 10680     | " C           | 31669     |
| Theaetetus β   | 10661     | " H           | 31790A    |
| Thebit A       | 30376     | " J           | 31697     |
| " B            | 31307     | " K           | 31770     |
| " C            | 30366     | " P           | 31751     |
| " D            | 31333     | " γ           | 31648     |
| " E            | 30379     | " δ           | 31638     |
| " F            | 30389     | Ukert         | 10123     |
| Theon Junior   | 42074     | Ukert A       | 10125     |
| Theon Junior B | 42023     | " E           | 10105     |
| " C            | 42054     | Ulugh Beigh   | 28533     |
| Theon Senior   | 42061     | Ulugh Beigh A | 28515     |
| Theon Senior A | 42060     | " C           | 28532     |
| " B            | 12040     | " E           | 28534     |
| " C            | 42052     | Vasco da Gama | 29264     |
| Theophilus B   | 44118     | Vega          | 46721     |
| " α            | 44230     | Vega A        | 46713     |
| Timaeus        | 20808     | Vendelinus C  | 48275     |
| Timaeus (CP)   | 20808A    | " E           | 48330     |
| Timocharis     | 22404     | " F           | 48351     |
| Timocharis A   | 22441     | " J           | 48284     |
| " B            | 21486     | " H           | 48246     |
| " C            | 22421     | " L           | 48330A    |
| " D            | 22430     | " M           | 48287     |
| " E            | 22461     | Vieta         | 37428     |
| " F            | 22511     | Vieta A       | 37540     |
| Torricelli A   | 44097     | Vitello       | 35520     |
| " B            | 44084     | Vitello A     | 35556     |
| " C            | 44034     | " B           | 34591     |
| " D            | 44053     | " C           | 35573     |
| " G            | 44052     | " D           | 35544     |
| " S            | 44062     | " E           | 35408     |
| " 7            | 44038     | " P           | 35531     |
| Tralles A      | 16446     | " S           | 35520A    |
| " B            | 16485     | Vitruvius     | 14390     |
| " C            | 16476     | Vitruvius A   | 15330     |
| Triesnecker    | 10067     | " E           | 14361     |
| Triesnecker D  | 11006     | Vlacq A       | 43797     |
| " E            | 10049     | " D           | 43795     |
| " F            | 10087     | " E           | 43768     |
| Trouvelot      | 10765     | " H           | 43784     |
| Trouvelot H    | 10756     | " K           | 43777     |

| Designation | Reference | Designation | Reference   |   |        |
|-------------|-----------|-------------|-------------|---|--------|
| Vlacq       | α         | 43870       | Whewell     | B | 12048A |
| Vogel       | A         | 40294       | Wichmann    |   | 36113  |
| Wallace     | A         | 20392       | Wichmann    | α | 35190  |
| "           | B         | 20374       | Wilhelm     | A | 32760  |
| Walter      | A         | 40513       | "           | B | 32688  |
| "           | CA        | 30502       | "           | C | 32656  |
| "           | F         | 40534       | "           | D | 32626  |
| "           | G         | 30553       | "           | E | 32629  |
| "           | H         | 30562       | "           | N | 32629A |
| "           | J         | 30526       | "           | O | 32618  |
| "           | K         | 30515       | "           | Q | 32638  |
| "           | L         | 30512       | "           | R | 32676  |
| "           | M         | 30505A      | "           | S | 32676A |
| "           | N         | 30505       | "           | T | 32665  |
| "           | O         | 30508       | "           | U | 32666  |
| "           | P         | 40507       | "           | W | 32657  |
| "           | Q         | 40505       | "           | Z | 32740  |
| "           | R         | 40508       | Wilson      | A | 32954  |
| "           | S         | 40509       | "           | C | 32925  |
| "           | T         | 40525       | "           | E | 32945  |
| "           | U         | 40535       | "           | F | 32914  |
| Wargentín   |           | 35766       | Wöhler      |   | 44611  |
| Wargentín   | A         | 35783       | Wöhler      | A | 43691  |
| "           | B         | 35778       | "           | B | 44600  |
| "           | D         | 35777       | "           | C | 44509  |
| "           | E         | 35787       | Wolf        | A | 32397  |
| "           | F         | 35768       | Wolff       | A | 21227  |
| "           | G         | 36707       | "           | B | 21247  |
| Watt        | A         | 44766       | Wollaston   |   | 26520  |
| "           | B         | 44776       | Wollaston   | C | 26562  |
| "           | E         | 45736       | Wrottesley  | A | 47359  |
| Webb        |           | 48061       | "           | γ | 47460  |
| Webb        | H         | 48063       | Wurzelbauer | A | 32518  |
| Weigel      | A         | 33815       | "           | C | 32517  |
| "           | C         | 33836       | "           | D | 32549  |
| Weinek      |           | 45436       | "           | E | 32548  |
| Weinek      | A         | 45415       | "           | F | 32558  |
| "           | B         | 45455       | "           | G | 32566  |
| Weiss       | A         | 32570       | "           | H | 32547  |
| "           | D         | 32590       | "           | L | 32557  |
| "           | E         | 32581       | "           | M | 32533  |
| Werner      | A         | 40415       | "           | N | 32513  |
| "           | B         | 40414       | "           | O | 32508  |
| "           | D         | 40455       | "           | P | 32507  |
| "           | E         | 40415A      | Xenophanes  | A | 24896  |
| "           | F         | 40413       | "           | C | 24896A |
| "           | G         | 40416       | "           | D | 25805  |
| "           | α         | 40456       | "           | E | 25834  |
| Whewell     |           | 12037       | Young       | D | 45678  |
| Whewell     | A         | 12048       | "           | F | 45750  |

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|-------------|-----------|--------|
| Zach        | C         | 40815  |
| "           | D         | 40868  |
| "           | F         | 40826  |
| "           | G         | 40805  |
| "           | H         | 40825  |
| "           | J         | 40844  |
| "           | K         | 40854  |
| "           | L         | 40864  |
| "           | M         | 40864A |
| Zagut       | A         | 43513  |
| "           | B         | 42573  |
| "           | D         | 42582  |
| "           | F         | 42560  |
| "           | H         | 43500  |
| "           | K         | 43522  |
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| "           | M         | 43531  |
| "           | N         | 43541  |
| "           | O         | 42544  |
| "           | P         | 42553  |
| "           | R         | 43501  |
| "           | S         | 43525  |
| Zeno        | A         | 16760  |
| "           | B         | 16689  |
| "           | D         | 16760A |
| "           | F         | 17627  |
| "           | G         | 16689A |
| "           | J         | 16699  |
| "           | K         | 16678  |
| Zöllner     | A         | 43162  |
| "           | J         | 43150  |
| "           | K         | 43151  |
| Zucchius    | A         | 33898  |
| "           | F         | 33867  |
| Zupus       | D         | 37353  |