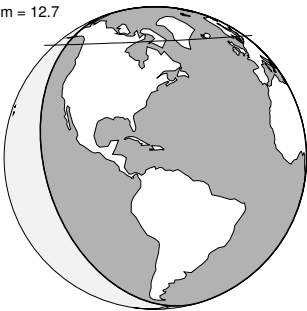
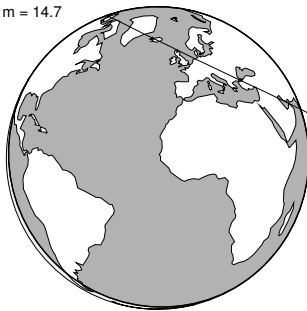
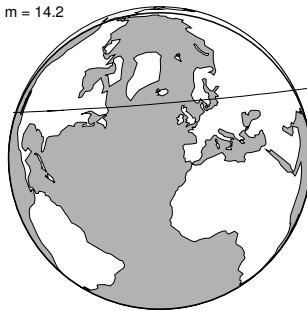
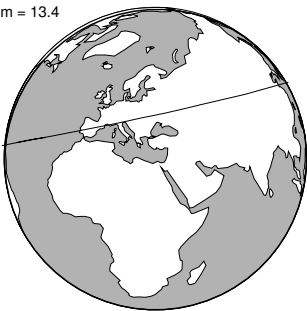
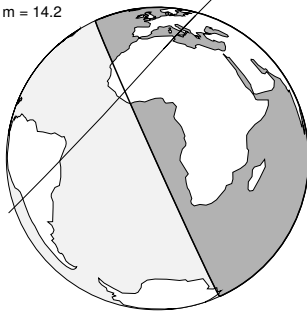
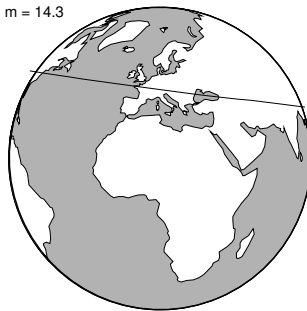
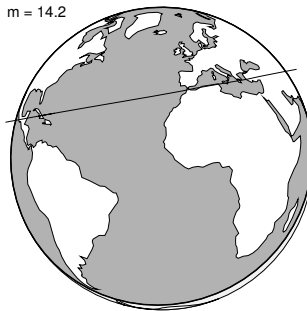
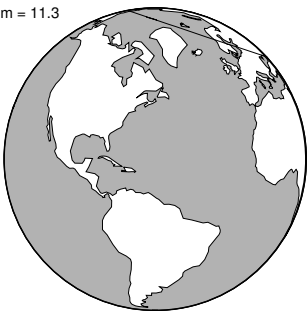
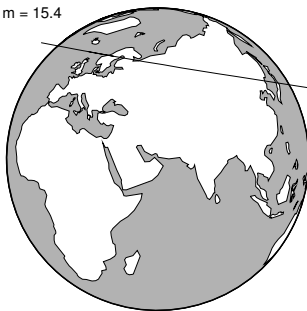
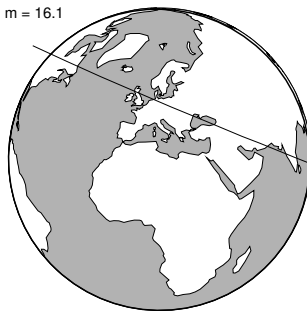
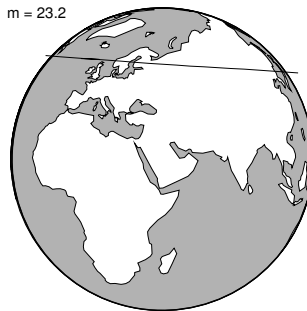
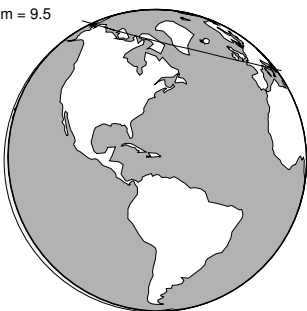
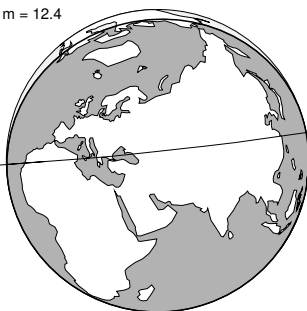
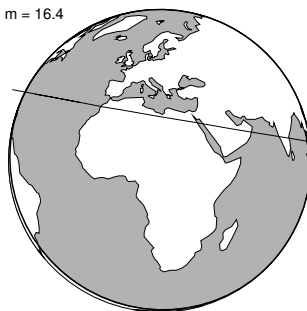
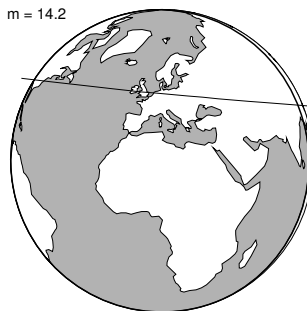


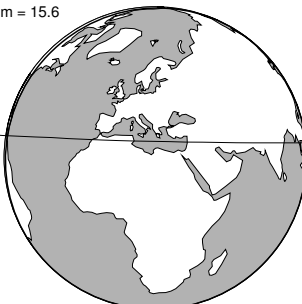
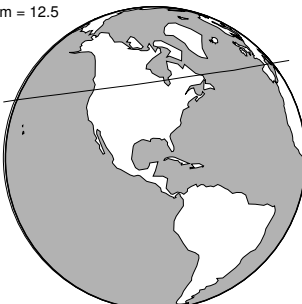
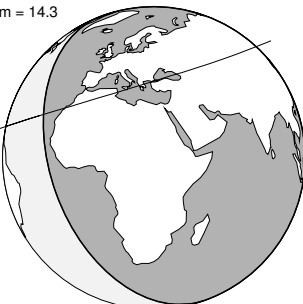
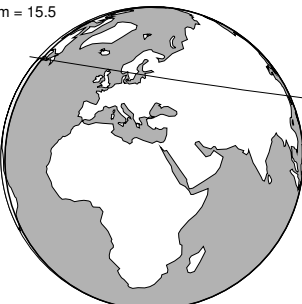
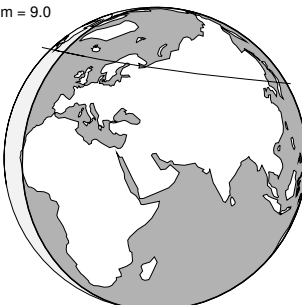
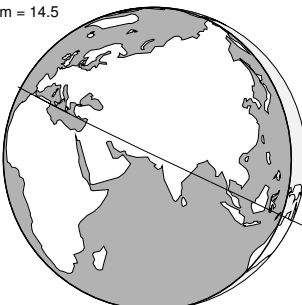
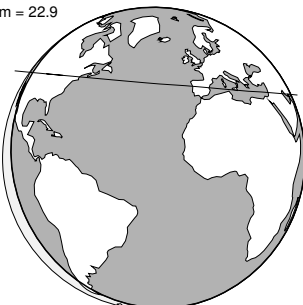
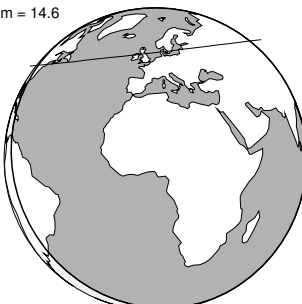
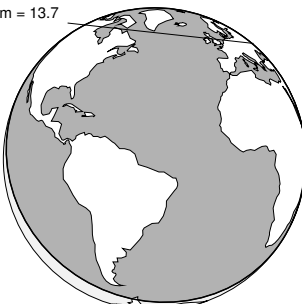
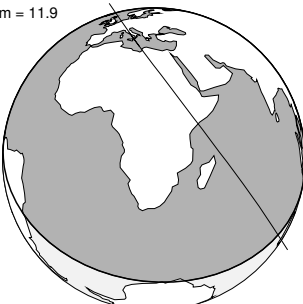
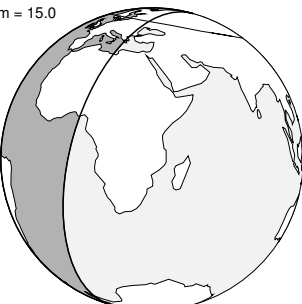
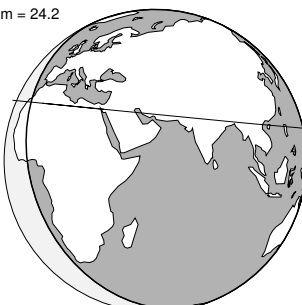
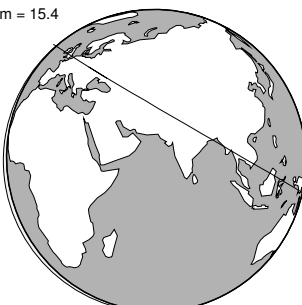
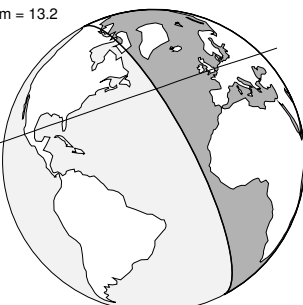
Occultations by major and minor planets – 2024

Region 3

2024 jan 1 1h50.8m A24_01010 65 Cybele TYC 1235–00035–1 Diam = 230.0 m = 12.1 m = 12.7  Dur = 27.9s Dmag = 1.1 Sun: 137° Moon: 100°	2024 jan 2 0h32.4m A24_01130 1428 Mombasa UCAC4 518–020321 Diam = 60.0 m = 12.3 m = 14.7  Dur = 4.4s Dmag = 2.5 Sun: 166° Moon: 77°	2024 jan 2 1h28.8m A24_01079 591 Irmgard UCAC4 647–040273 Diam = 54.7 m = 12.3 m = 14.2  Dur = 4.5s Dmag = 2.1 Sun: 163° Moon: 69°	2024 jan 2 1h29.2m A24_01095 704 Interamnia UCAC4 594–018021 Diam = 333.0 m = 11.6 m = 10.2  Dur = 26.1s Dmag = 0.3 Sun: 160° Moon: 86°
2024 jan 2 21h40.5m A24_01083 606 Brangäne TYC 2426–00071–1 Diam = 40.0 m = 11.2 m = 13.4  Dur = 3.7s Dmag = 2.3 Sun: 168° Moon: 82°	2024 jan 3 18h27.3m A24_01088 667 Denise UCAC4 364–001601 Diam = 83.5 m = 12.0 m = 14.2  Dur = 5.2s Dmag = 2.4 Sun: 90° Moon: 156°	2024 jan 3 22h58.4m A24_01098 738 Alagasta UCAC4 552–027113 Diam = 64.8 m = 10.9 m = 14.3  Dur = 5.0s Dmag = 3.4 Sun: 173° Moon: 94°	2024 jan 4 1h44.5m A24_01132 1596 Itzigsohn UCAC4 493–043885 Diam = 51.1 m = 12.1 m = 14.2  Dur = 4.2s Dmag = 2.2 Sun: 164° Moon: 81°
2024 jan 4 4h31.0m A24_01012 92 Undina TYC 1909–02524–1 Diam = 132.0 m = 10.2 m = 11.3  Dur = 8.8s Dmag = 1.4 Sun: 174° Moon: 85°	2024 jan 5 19h59.6m A24_01114 1180 Rita UCAC4 576–033961 Diam = 61.9 m = 11.8 m = 15.4  Dur = 3.5s Dmag = 3.6 Sun: 175° Moon: 113°	2024 jan 5 23h49.6m A24_01147 2260 Neoptolemus UCAC4 603–042449 Diam = 85.0 m = 12.4 m = 16.1  Dur = 4.8s Dmag = 3.8 Sun: 169° Moon: 105°	2024 jan 6 20h36.1m B24_01001 19255 1994VK8 UCAC5 570–029593 Diam = 170.6 m = 15.0 m = 23.2  Dur = 6.7s Dmag = 8.3 Sun: 172° Moon: 128°
2024 jan 7 3h51.3m A24_01002 5 Astraea TYC 1318–00335–1 Diam = 125.0 m = 11.8 m = 9.5  Dur = 14.5s Dmag = 0.1 Sun: 165° Moon: 136°	2024 jan 9 20h20.6m A24_01105 804 Hispania HIP 33738 Diam = 140.6 m = 9.0 m = 12.4  Dur = 9.8s Dmag = 3.4 Sun: 158° Moon: 159°	2024 jan 9 22h22.3m A24_01167 4902 Thessandrus TYC 0755–01367–1 Diam = 50.1 m = 11.5 m = 16.4  Dur = 3.0s Dmag = 4.9 Sun: 167° Moon: 159°	2024 jan 10 0h26.7m A24_01121 1240 Centenaria UCAC4 582–041611 Diam = 60.5 m = 12.4 m = 14.2  Dur = 4.2s Dmag = 2.0 Sun: 165° Moon: 148°

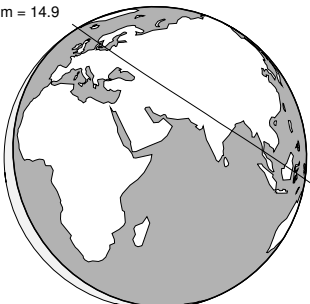
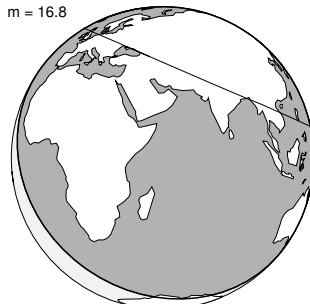
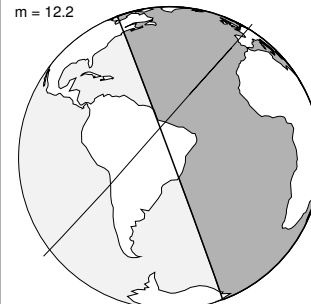
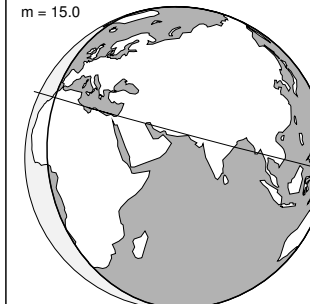
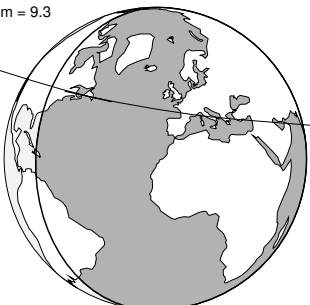
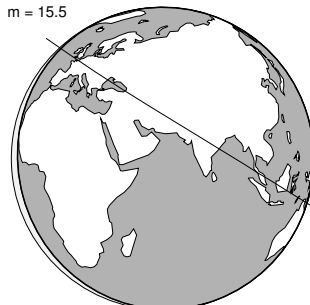
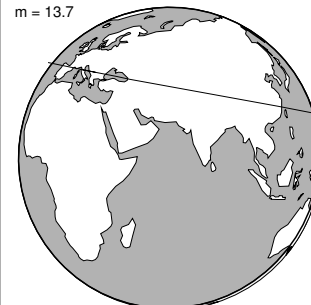
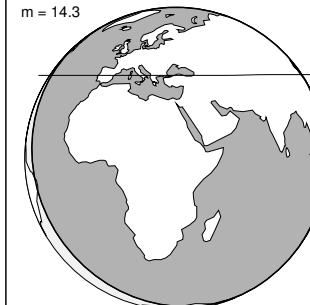
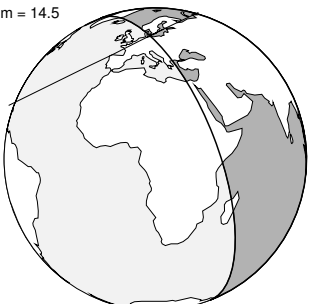
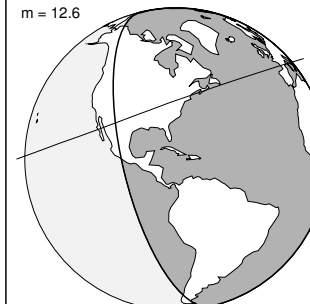
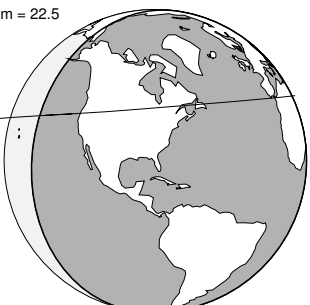
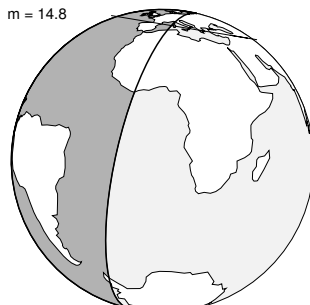
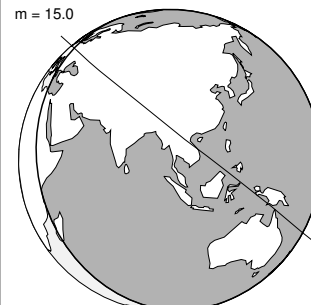
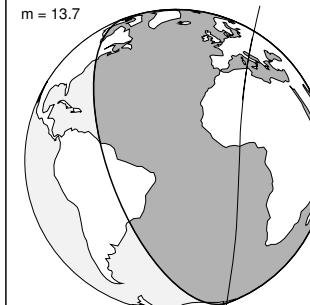
Occultations by major and minor planets – 2024

Region 3

2024 jan 12 22h12.3m A24_01142 1749 Telamon TYC 1907–00644–1 Diam = 115.0 m = 11.8 m = 15.6  Dur = 7.5s Dmag = 3.8 Sun: 169° Moon: 152°	2024 jan 13 5h20.6m A24_01059 476 Hedwig UCAC4 565–034034 Diam = 121.0 m = 11.6 m = 12.5  Dur = 8.9s Dmag = 1.3 Sun: 170° Moon: 146°	2024 jan 13 19h 8.0m A24_01087 663 Gerlinde TYC 0673–00315–1 Diam = 104.0 m = 11.6 m = 14.3  Dur = 15.9s Dmag = 2.8 Sun: 133° Moon: 102°	2024 jan 13 21h15.3m A24_01115 1180 Rita HIP 31982 Diam = 61.9 m = 6.5 m = 15.5  Dur = 3.7s Dmag = 9.0 Sun: 166° Moon: 133°
2024 jan 14 18h47.6m A24_01004 9 Metis PPMX 4986268 Diam = 231.2 m = 12.1 m = 9.0  Dur = 41.2s Dmag = 0.1 Sun: 151° Moon: 107°	2024 jan 14 21h20.2m A24_01099 769 Tatjana TYC 1959–00160–1 Diam = 102.0 m = 8.4 m = 14.5  Dur = 7.4s Dmag = 6.1 Sun: 154° Moon: 156°	2024 jan 15 0h40.6m A24_01178 2005VZ122 PPMX 7013328 Diam = 145.9 m = 12.2 m = 22.9  Dur = 6.2s Dmag = 10.7 Sun: 158° Moon: 111°	2024 jan 16 18h49.3m B24_01011 2000YY1 UCAC4 531–023794 Diam = 158.5 m = 14.7 m = 22.4  Dur = 7.1s Dmag = 7.7 Sun: 156° Moon: 86°
2024 jan 16 22h34.7m A24_01145 2152 Hannibal UCAC4 506–028272 Diam = 49.0 m = 11.5 m = 14.6  Dur = 4.5s Dmag = 3.2 Sun: 159° Moon: 89°	2024 jan 17 2h16.1m A24_01092 694 Ekard PPMX 8138663 Diam = 92.7 m = 12.4 m = 13.7  Dur = 6.4s Dmag = 1.5 Sun: 157° Moon: 94°	2024 jan 17 22h 7.5m A24_01071 582 Olympia TYC 5409–01999–1 Diam = 47.0 m = 12.0 m = 11.9  Dur = 3.8s Dmag = 0.7 Sun: 143° Moon: 94°	2024 jan 18 5h50.4m A24_01065 521 Brixia TYC 5623–00374–1 Diam = 103.0 m = 11.1 m = 15.0  Dur = 3.5s Dmag = 4.0 Sun: 57° Moon: 147°
2024 jan 19 18h 7.2m B24_01005 182223 2000YC2 UCAC4 501–016056 Diam = 127.6 m = 14.1 m = 24.2  Dur = 5.9s Dmag = 10.1 Sun: 145° Moon: 41°	2024 jan 19 18h59.2m A24_01166 4835 Asaeus UCAC4 527–038995 Diam = 45.7 m = 12.5 m = 15.4  Dur = 3.0s Dmag = 3.0 Sun: 166° Moon: 59°	2024 jan 19 19h11.7m A24_01082 602 Marianna TYC 1183–00432–1 Diam = 130.0 m = 11.7 m = 13.2  Dur = 4.6s Dmag = 1.7 Sun: 74° Moon: 37°	2024 jan 20 21h37.1m A24_01037 198 Ampella TYC 0810–00786–1 Diam = 58.7 m = 11.4 m = 12.2  Dur = 4.3s Dmag = 1.2 Sun: 165° Moon: 69°

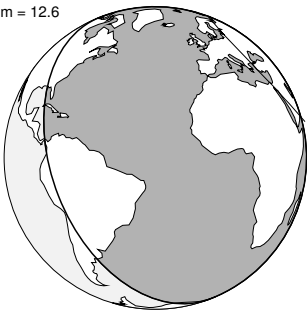
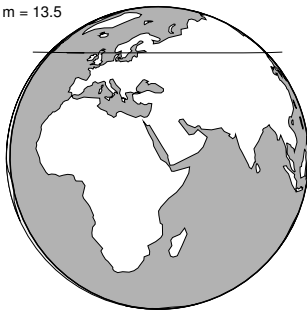
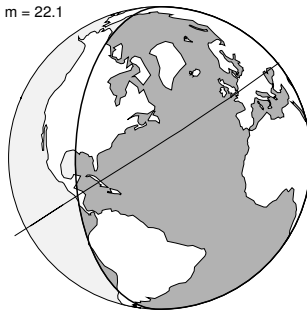
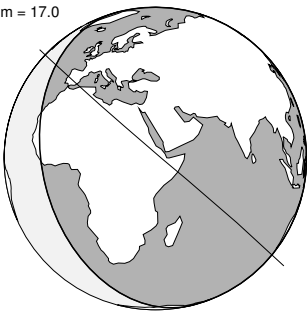
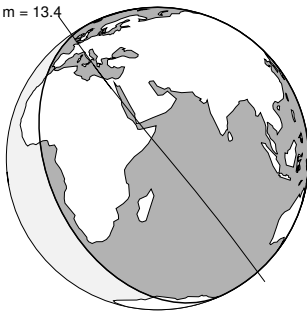
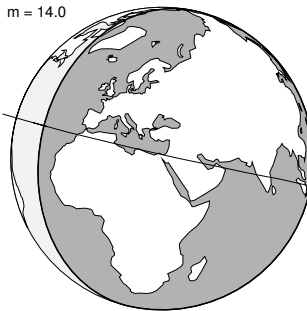
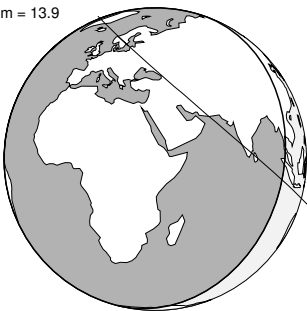
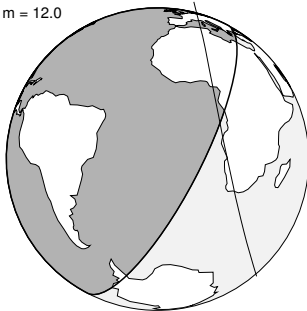
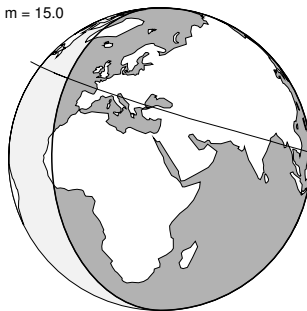
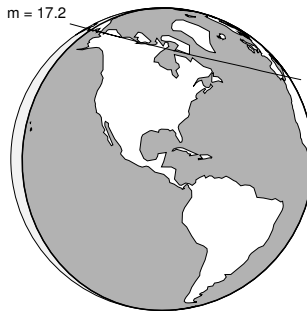
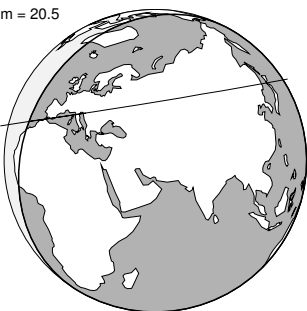
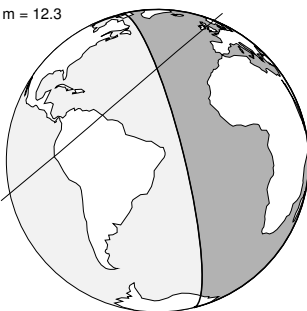
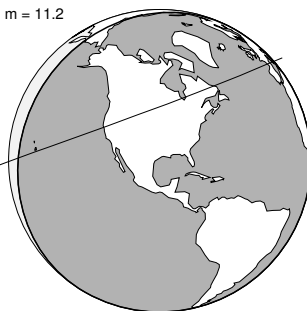
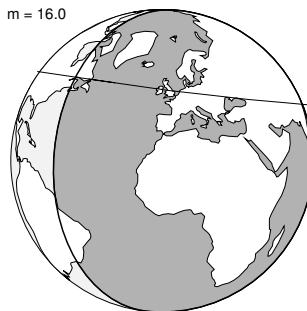
Occultations by major and minor planets – 2024

Region 3

2024 jan 21 19h16.6m A24_01118 1191 Alfaterna TYC 0751–01595–1 Diam = 45.6 m = 12.0 m = 14.9  Dur = 3.3s Dmag = 3.0 Sun: 157° Moon: 31°	2024 jan 21 19h28.9m A24_01151 2759 Idomeneus TYC 4814–01666–1 Diam = 73.3 m = 11.9 m = 16.8  Dur = 4.3s Dmag = 5.0 Sun: 152° Moon: 42°	2024 jan 21 21h31.0m A24_01023 148 Gallia TYC 5284–01054–1 Diam = 104.0 m = 11.0 m = 12.2  Dur = 4.7s Dmag = 1.5 Sun: 89° Moon: 55°	2024 jan 22 17h51.1m A24_01141 1731 Smuts HIP 28556 Diam = 56.2 m = 7.0 m = 15.0  Dur = 5.7s Dmag = 8.0 Sun: 147° Moon: 12°
2024 jan 22 22h29.6m A24_01005 9 Metis TYC 1873–00643–1 Diam = 231.2 m = 11.0 m = 9.3  Dur = 70.9s Dmag = 0.2 Sun: 142° Moon: 5°	2024 jan 23 18h59.2m A24_01165 4835 Asaeus UCAC4 529–038252 Diam = 45.7 m = 12.0 m = 15.5  Dur = 3.1s Dmag = 3.6 Sun: 162° Moon: 13°	2024 jan 23 20h28.7m A24_01043 248 Lameia TYC 0814–01538–1 Diam = 52.0 m = 11.9 m = 13.7  Dur = 4.5s Dmag = 2.0 Sun: 168° Moon: 33°	2024 jan 23 20h47.0m A24_01134 1596 Itzigsohn TYC 0749–02378–1 Diam = 51.1 m = 9.0 m = 14.3  Dur = 4.7s Dmag = 5.3 Sun: 158° Moon: 20°
2024 jan 24 15h26.8m A24_01051 334 Chicago TYC 4673–00124–1 Diam = 170.0 m = 10.1 m = 14.5  Dur = 6.3s Dmag = 4.4 Sun: 65° Moon: 102°	2024 jan 25 0h37.7m A24_01052 344 Desiderata UCAC4 656–052016 Diam = 138.0 m = 11.6 m = 13.1  Dur = 8.6s Dmag = 1.7 Sun: 152° Moon: 27°	2024 jan 26 4h59.5m A24_01026 165 Loreley TYC 5532–01000–1 Diam = 160.0 m = 10.1 m = 13.2  Dur = 22.4s Dmag = 3.2 Sun: 114° Moon: 62°	2024 jan 27 0h30.4m A24_01031 182 Elsa TYC 1239–00557–1 Diam = 45.3 m = 10.2 m = 12.6  Dur = 4.5s Dmag = 2.6 Sun: 110° Moon: 84°
2024 jan 27 3h13.2m A24_01177 612332 2002CW224 TYC 1876–02096–1 Diam = 155.6 m = 11.7 m = 22.5  Dur = 8.0s Dmag = 10.8 Sun: 144° Moon: 50°	2024 jan 27 6h48.8m A24_01086 640 Brambilla Gaia 068–0136540 Diam = 84.8 m = 6.2 m = 14.8  Dur = 3.2s Dmag = 8.6 Sun: 71° Moon: 91°	2024 jan 28 15h44.9m A24_01119 1191 Alfaterna TYC 0754–01375–1 Diam = 45.6 m = 11.5 m = 15.0  Dur = 3.6s Dmag = 3.5 Sun: 150° Moon: 61°	2024 jan 29 21h54.1m A24_01046 276 Adelheid UCAC4 447–006884 Diam = 127.0 m = 11.5 m = 13.7  Dur = 28.4s Dmag = 2.3 Sun: 116° Moon: 106°

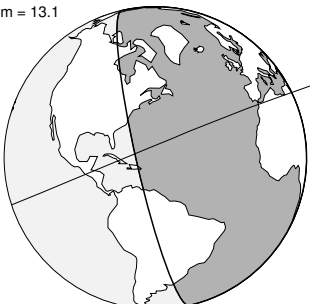
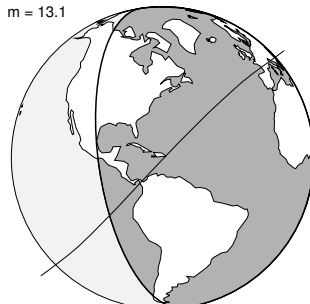
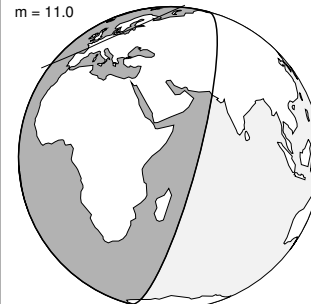
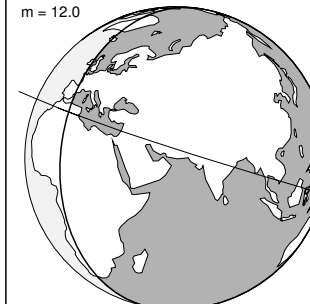
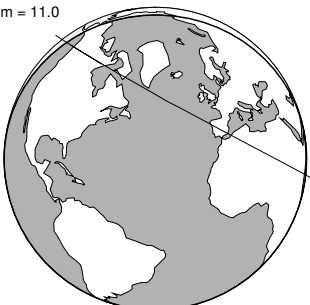
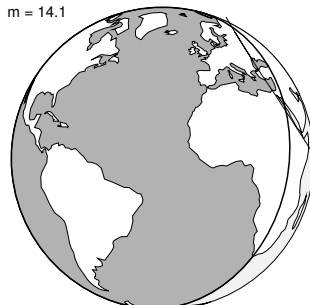
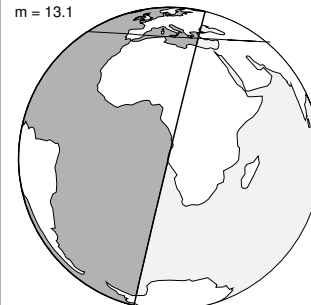
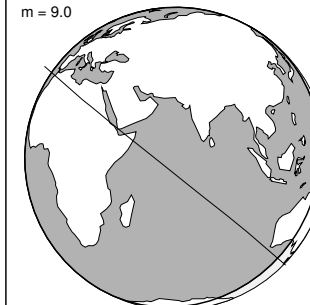
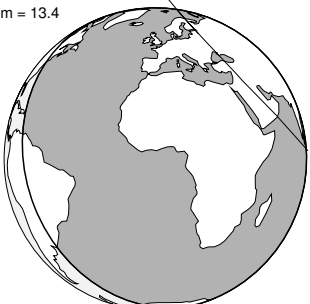
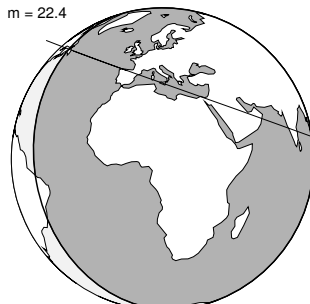
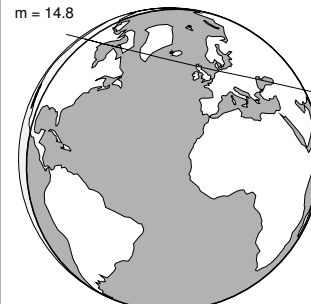
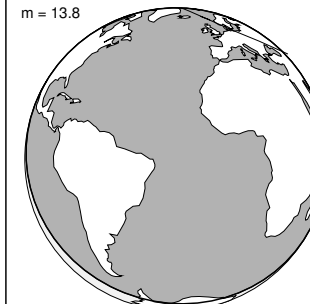
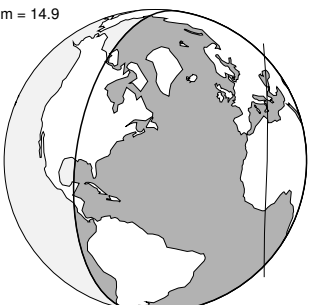
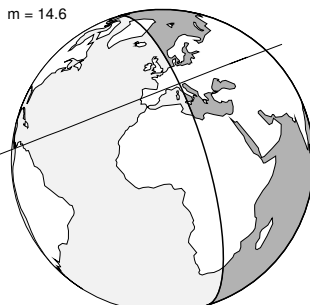
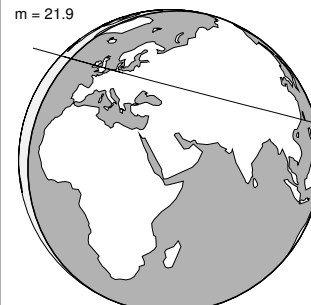
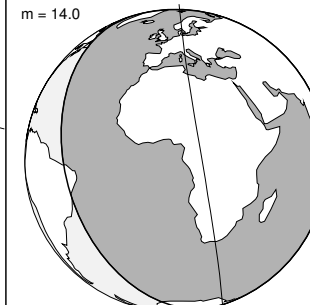
Occultations by major and minor planets – 2024

Region 3

2024 jan 29 23h16.8m A24_01044 258 Tyche TYC 0120–01315–1 Diam = 67.7 m = 11.6 m = 12.6  Dur = 11.5s Dmag = 1.4 Sun: 133° Moon: 90°	2024 jan 31 20h45.0m A24_01085 607 Jenny UCAC4 529–044511 Diam = 65.5 m = 12.2 m = 13.5  Dur = 5.2s Dmag = 1.6 Sun: 167° Moon: 79°	2024 jan 31 23h42.7m A24_01176 523620 2007RH283 UCAC5 618–017346 Diam = 80.2 m = 12.4 m = 22.1  Dur = 5.8s Dmag = 9.6 Sun: 123° Moon: 123°	2024 jan 31 23h42.8m B24_01008 523620 2007RH283 UCAC4 618–018060 Diam = 80.2 m = 12.6 m = 22.1  Dur = 5.8s Dmag = 9.4 Sun: 123° Moon: 123°
2024 feb 1 18h45.7m A24_02148 15440 Eioneus UCAC4 502–020266 Diam = 49.2 m = 11.2 m = 17.0  Dur = 3.2s Dmag = 5.8 Sun: 138° Moon: 115°	2024 feb 2 18h 4.6m A24_02081 491 Carina TYC 4784–02065–1 Diam = 101.0 m = 10.6 m = 13.4  Dur = 9.5s Dmag = 2.9 Sun: 136° Moon: 121°	2024 feb 2 18h47.5m A24_02134 1731 Smuts UCAC4 537–021443 Diam = 56.2 m = 12.3 m = 15.2  Dur = 8.8s Dmag = 3.0 Sun: 135° Moon: 131°	2024 feb 2 19h37.0m A24_02041 199 Byblis TYC 1892–00397–1 Diam = 63.0 m = 10.4 m = 14.0  Dur = 5.4s Dmag = 3.6 Sun: 144° Moon: 124°
2024 feb 2 23h47.4m A24_02077 479 Caprera TYC 0848–00958–1 Diam = 77.5 m = 11.2 m = 13.9  Dur = 7.7s Dmag = 2.8 Sun: 147° Moon: 59°	2024 feb 5 5h21.2m A24_02023 89 Julia TYC 6704–00890–1 Diam = 159.0 m = 12.1 m = 12.0  Dur = 14.3s Dmag = 0.7 Sun: 106° Moon: 44°	2024 feb 5 18h45.8m A24_02109 738 Alagasta TYC 1325–00631–1 Diam = 64.8 m = 11.6 m = 15.0  Dur = 12.0s Dmag = 3.5 Sun: 135° Moon: 166°	2024 feb 6 4h35.3m A24_02141 2932 Kempchinsky TYC 1369–01882–1 Diam = 48.7 m = 9.4 m = 17.2  Dur = 3.7s Dmag = 7.8 Sun: 157° Moon: 150°
2024 feb 6 18h40.9m B24_02003 341275 2007RG283 UCAC4 618–042354 Diam = 82.0 m = 14.3 m = 20.5  Dur = 4.0s Dmag = 6.2 Sun: 150° Moon: 163°	2024 feb 7 20h13.3m A24_02035 148 Gallia TYC 5289–00031–1 Diam = 104.0 m = 11.8 m = 12.3  Dur = 3.8s Dmag = 1.1 Sun: 79° Moon: 104°	2024 feb 8 5h10.3m A24_02019 71 Niobe UCAC5 592–040437 Diam = 87.3 m = 12.5 m = 11.2  Dur = 6.0s Dmag = 0.3 Sun: 156° Moon: 177°	2024 feb 9 21h35.8m A24_02123 1180 Rita UCAC4 579–027935 Diam = 61.9 m = 11.7 m = 16.0  Dur = 6.7s Dmag = 4.3 Sun: 135° Moon: 137°

Occultations by major and minor planets – 2024

Region 3

2024 feb 9 22h32.1m A24_02078 481 Erita TYC 1799–00913–1 Diam = 116.0 m = 13.1  Dur = 7.6s Dmag = 1.9 Sun: 97° Moon: 98°	2024 feb 10 0h21.3m A24_02037 159 Aemilia UCAC4 539–011263 Diam = 131.0 m = 12.4  Dur = 23.8s Dmag = 1.1 Sun: 115° Moon: 114°	2024 feb 10 2h10.7m A24_02009 6 Hebe UCAC4 447–057284 Diam = 186.0 m = 12.5  Dur = 15.1s Dmag = 0.2 Sun: 100° Moon: 103°	2024 feb 11 17h23.3m A24_02024 92 Undina TYC 1898–00351–1 Diam = 132.0 m = 11.9  Dur = 16.1s Dmag = 0.8 Sun: 139° Moon: 115°
2024 feb 12 2h47.0m A24_02072 451 Patientia UCAC4 612–044955 Diam = 230.0 m = 11.0  Dur = 17.6s Dmag = 0.3 Sun: 161° Moon: 141°	2024 feb 13 4h17.9m A24_02048 286 Iclea UCAC4 493–058349 Diam = 96.5 m = 12.3  Dur = 8.1s Dmag = 2.0 Sun: 146° Moon: 166°	2024 feb 14 5h10.2m A24_02016 56 Melete UCAC4 369–071201 Diam = 90.8 m = 12.4  Dur = 4.5s Dmag = 1.2 Sun: 89° Moon: 148°	2024 feb 16 20h55.7m A24_02005 3 Juno UCAC4 459–048227 Diam = 257.6 m = 12.5  Dur = 21.3s Dmag = 0.0 Sun: 159° Moon: 107°
2024 feb 16 22h27.1m A24_02057 329 Svea UCAC4 459–039692 Diam = 80.5 m = 13.4  Dur = 7.2s Dmag = 1.4 Sun: 149° Moon: 64°	2024 feb 17 21h 9.8m B24_02007 612208 2000YH2 UCAC4 488–044944 Diam = 113.8 m = 14.2  Dur = 5.6s Dmag = 8.2 Sun: 148° Moon: 48°	2024 feb 18 0h36.6m A24_02044 229 Adelinda PPMX 6173820 Diam = 96.0 m = 12.4  Dur = 6.8s Dmag = 2.5 Sun: 159° Moon: 53°	2024 feb 18 1h29.9m A24_02062 397 Vienna TYC 4900–00900–1 Diam = 46.0 m = 9.4  Dur = 3.1s Dmag = 4.4 Sun: 161° Moon: 74°
2024 feb 18 23h53.9m A24_02096 591 Irmgard UCAC5 626–030406 Diam = 54.7 m = 14.9  Dur = 8.2s Dmag = 2.6 Sun: 121° Moon: 8°	2024 feb 19 16h44.3m A24_02069 447 Valentine UCAC4 527–004841 Diam = 82.0 m = 12.0  Dur = 3.2s Dmag = 2.7 Sun: 73° Moon: 53°	2024 feb 21 19h46.9m B24_02010 2017YK3 UCAC4 549–046057 Diam = 175.4 m = 14.8  Dur = 7.9s Dmag = 7.0 Sun: 158° Moon: 8°	2024 feb 21 21h 0.8m A24_02128 1263 Varsavia UCAC4 442–037681 Diam = 50.7 m = 11.8  Dur = 3.4s Dmag = 2.3 Sun: 136° Moon: 29°

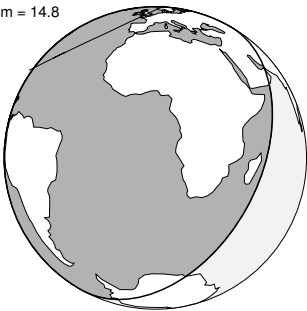
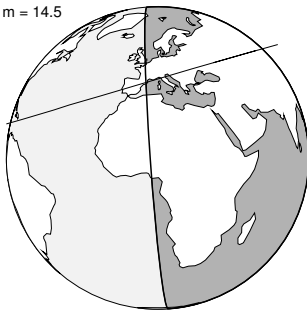
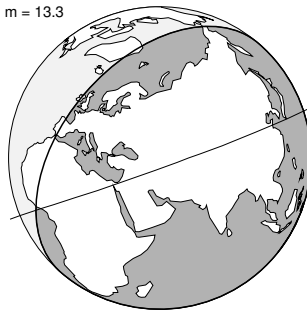
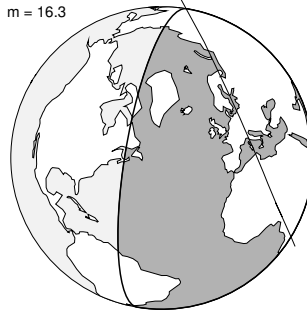
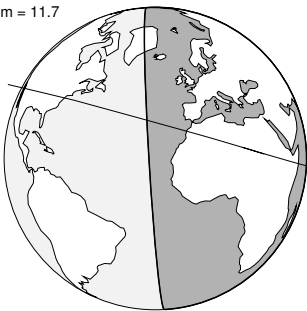
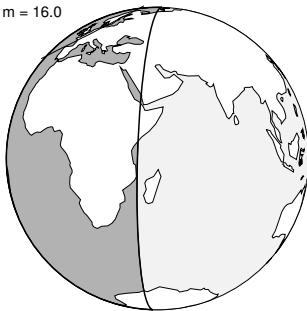
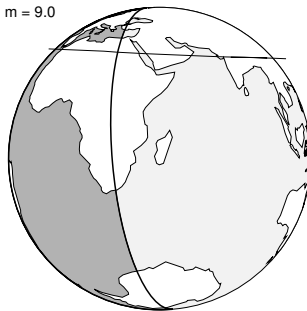
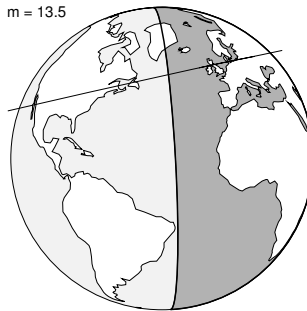
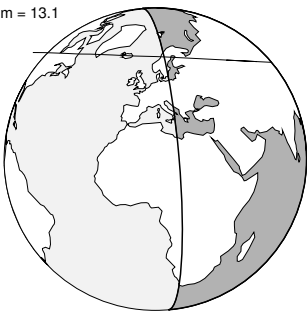
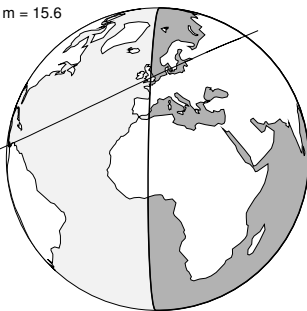
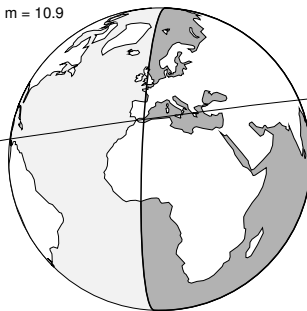
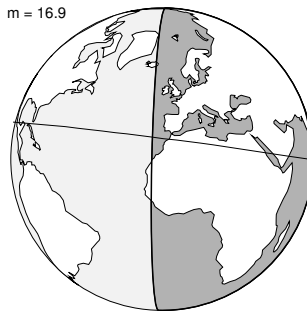
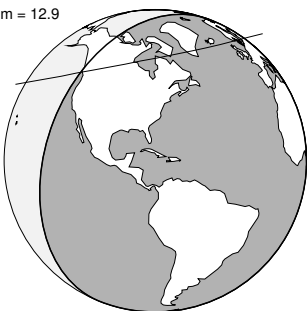
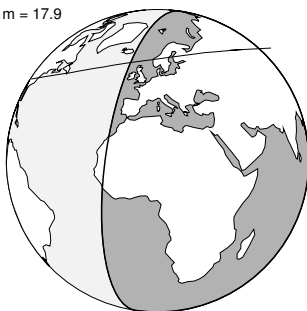
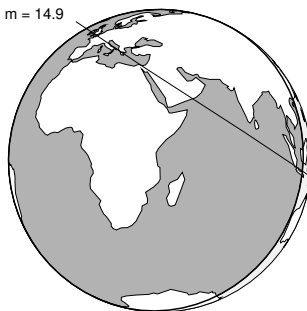
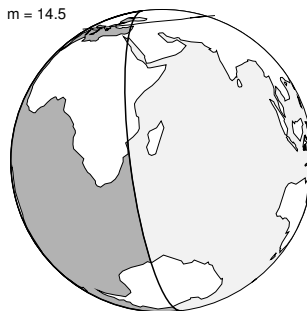
Occultations by major and minor planets – 2024

Region 3

2024 feb 23 17h22.9m A24_02070 448 Natalie UCAC4 618–046293 Diam = 49.7 m = 12.0 m = 15.9 Dur = 3.5s Dmag = 3.9 Sun: 151° Moon: 20°	2024 feb 23 20h49.2m A24_02102 663 Gerlinde UCAC4 502–007491 Diam = 104.0 m = 12.5 m = 14.9 Dur = 8.8s Dmag = 2.5 Sun: 93° Moon: 80°	2024 feb 24 5h23.9m A24_02071 449 Hamburga UCAC5 345–083695 Diam = 88.6 m = 12.4 m = 14.6 Dur = 4.0s Dmag = 2.3 Sun: 78° Moon: 104°	2024 feb 25 18h14.2m A24_02150 24835 1995SM55 UCAC4 646–016015 Diam = 487.5 m = 12.4 m = 20.6 Dur = 46.8s Dmag = 8.2 Sun: 85° Moon: 106°
2024 feb 28 17h50.7m A24_02085 503 Evelyn UCAC4 565–009421 Diam = 79.5 m = 11.9 m = 13.7 Dur = 3.8s Dmag = 2.0 Sun: 85° Moon: 141°	2024 feb 28 21h33.9m A24_02047 279 Thule UCAC5 565–039517 Diam = 135.0 m = 12.4 m = 14.8 Dur = 17.1s Dmag = 2.5 Sun: 138° Moon: 89°	2024 mar 1 3h58.2m A24_03122 859 Bouzaréah UCAC5 303–119714 Diam = 77.5 m = 12.4 m = 16.0 Dur = 3.8s Dmag = 3.6 Sun: 80° Moon: 38°	2024 mar 1 19h27.0m B24_03012 2008AU138 UCAC4 726–047188 Diam = 190.5 m = 13.1 m = 23.2 Dur = 7.5s Dmag = 10.1 Sun: 132° Moon: 92°
2024 mar 1 23h35.2m A24_03155 1524 Joensuu TYC 1415–00250–1 Diam = 45.8 m = 11.7 m = 15.9 Dur = 3.1s Dmag = 4.2 Sun: 163° Moon: 86°	2024 mar 3 1h15.8m A24_03160 1877 Marsden TYC 2479–00509–1 Diam = 50.3 m = 9.8 m = 17.8 Dur = 4.4s Dmag = 7.9 Sun: 128° Moon: 132°	2024 mar 3 20h52.4m A24_03035 105 Artemis UCAC4 416–049202 Diam = 123.0 m = 11.4 m = 12.0 Dur = 9.5s Dmag = 1.1 Sun: 149° Moon: 111°	2024 mar 4 18h25.7m A24_03173 4057 Demophon TYC 1872–01074–1 Diam = 50.1 m = 11.1 m = 16.8 Dur = 9.4s Dmag = 5.7 Sun: 106° Moon: 176°
2024 mar 4 22h49.5m A24_03179 15440 Eioneus TYC 0725–00421–1 Diam = 49.2 m = 11.2 m = 17.3 Dur = 4.4s Dmag = 6.2 Sun: 106° Moon: 164°	2024 mar 5 2h 3.9m A24_03152 1354 Botha TYC 6198–00629–1 Diam = 52.5 m = 11.5 m = 16.2 Dur = 4.6s Dmag = 4.7 Sun: 105° Moon: 34°	2024 mar 5 19h 9.5m B24_03011 2003UY291 UCAC4 584–016447 Diam = 150.7 m = 14.7 m = 23.9 Dur = 76.6s Dmag = 9.2 Sun: 96° Moon: 160°	2024 mar 5 20h30.8m A24_03009 5 Astraea UCAC4 554–022256 Diam = 125.0 m = 12.4 m = 10.7 Dur = 11.8s Dmag = 0.2 Sun: 106° Moon: 166°

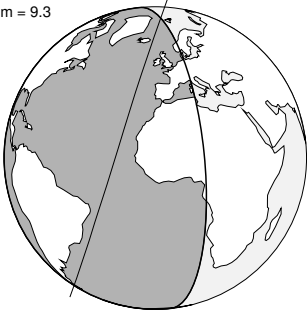
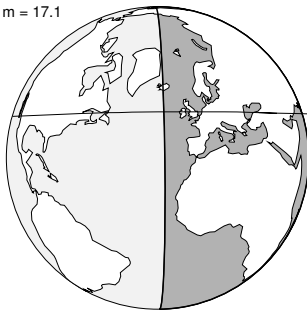
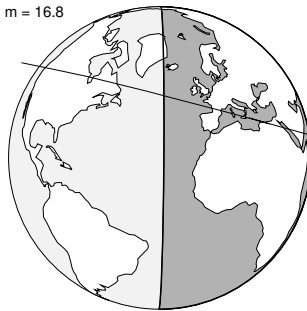
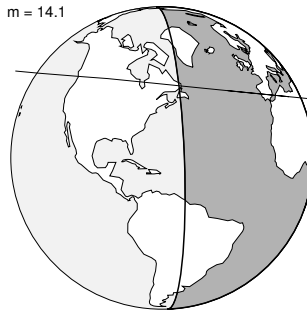
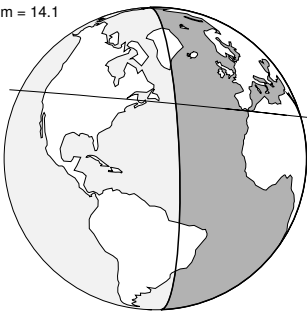
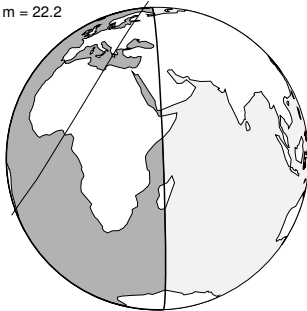
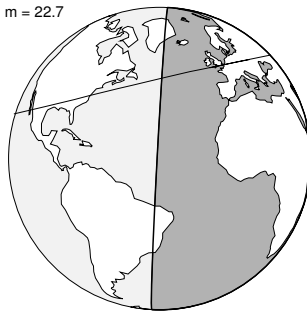
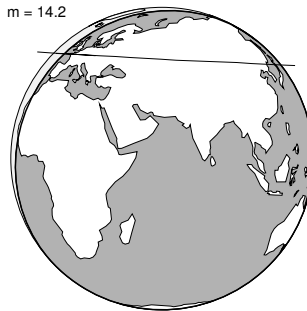
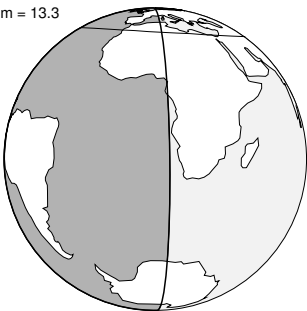
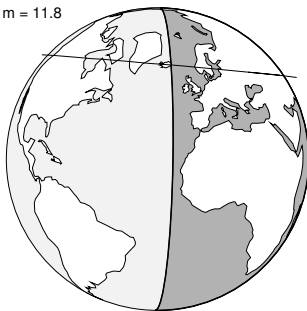
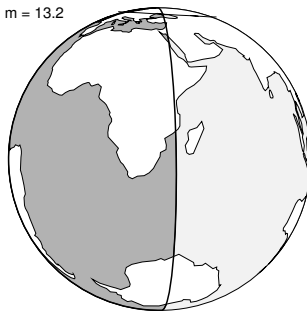
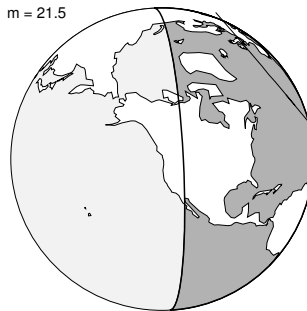
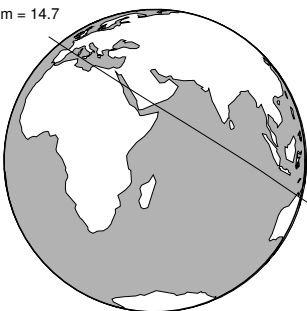
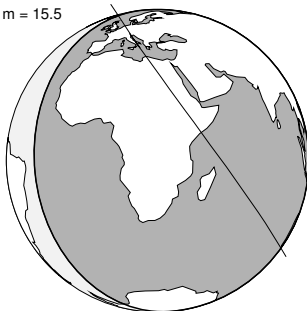
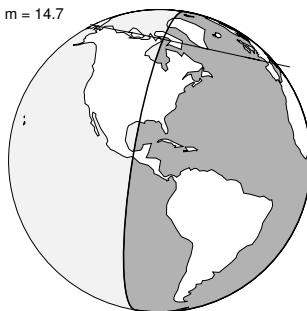
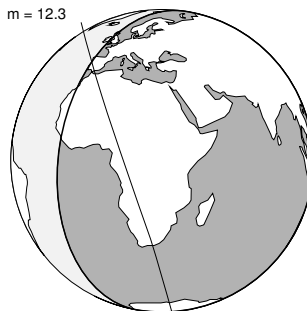
Occultations by major and minor planets – 2024

Region 3

2024 mar 6 2h34.4m A24_03141 1116 Catriona TYC 6131–00976–1 Diam = 40.7 m = 10.6 m = 14.8  Dur = 4.4s Dmag = 4.3 Sun: 133° Moon: 74°	2024 mar 8 17h45.3m A24_03051 205 Martha TYC 0708–01773–1 Diam = 83.5 m = 14.5  Dur = 5.4s Dmag = 4.3 Sun: 92° Moon: 115°	2024 mar 8 18h17.7m A24_03065 344 Desiderata UCAC4 663–054643 Diam = 138.0 m = 12.0 m = 13.3  Dur = 12.6s Dmag = 1.6 Sun: 130° Moon: 151°	2024 mar 8 22h 3.5m A24_03170 3540 Protesilaos TYC 3380–00707–1 Diam = 66.1 m = 12.3 m = 16.3  Dur = 6.0s Dmag = 4.0 Sun: 104° Moon: 124°
2024 mar 9 19h47.3m A24_03104 704 Interamnia TYC 1847–01471–1 Diam = 333.0 m = 11.7 m = 11.7  Dur = 21.3s Dmag = 0.8 Sun: 92° Moon: 100°	2024 mar 13 3h22.6m A24_03080 439 Ohio UCAC5 410–072110 Diam = 79.3 m = 12.5 m = 16.0  Dur = 3.6s Dmag = 3.5 Sun: 82° Moon: 119°	2024 mar 13 4h22.7m A24_03001 1 Ceres TYC 6859–00907–1 Diam = 952.5 m = 11.8 m = 9.0  Dur = 36.8s Dmag = 0.1 Sun: 71° Moon: 111°	2024 mar 16 20h24.0m A24_03047 159 Aemilia UCAC5 550–014009 Diam = 131.0 m = 12.4 m = 13.5  Dur = 6.6s Dmag = 1.5 Sun: 84° Moon: 8°
2024 mar 17 16h57.2m A24_03073 389 Industria UCAC4 566–014151 Diam = 81.0 m = 12.1 m = 13.1  Dur = 3.9s Dmag = 1.3 Sun: 80° Moon: 16°	2024 mar 18 18h10.1m A24_03118 850 Altona UCAC4 551–022675 Diam = 84.5 m = 12.1 m = 15.6  Dur = 6.6s Dmag = 3.5 Sun: 93° Moon: 17°	2024 mar 18 18h15.5m A24_03010 5 Astraea UCAC4 557–026758 Diam = 125.0 m = 12.4 m = 10.9  Dur = 8.2s Dmag = 0.2 Sun: 96° Moon: 14°	2024 mar 18 19h 5.0m A24_03174 4057 Demophon UCAC4 582–024533 Diam = 50.1 m = 12.1 m = 16.9  Dur = 4.2s Dmag = 4.8 Sun: 93° Moon: 15°
2024 mar 21 2h40.6m A24_03034 101 Helena HIP 45917 Diam = 68.3 m = 12.9  Dur = 9.1s Dmag = 5.4 Sun: 136° Moon: 2°	2024 mar 21 18h59.3m A24_03167 2932 Kempchinsky UCAC4 550–040996 Diam = 48.7 m = 12.2 m = 17.9  Dur = 11.7s Dmag = 5.7 Sun: 110° Moon: 32°	2024 mar 21 22h38.3m A24_03135 1023 Thomana UCAC4 411–055544 Diam = 60.2 m = 12.5 m = 14.9  Dur = 4.5s Dmag = 2.5 Sun: 160° Moon: 56°	2024 mar 22 3h45.2m A24_03060 283 Emma UCAC4 312–238032 Diam = 150.0 m = 11.2 m = 14.5  Dur = 6.4s Dmag = 3.3 Sun: 77° Moon: 136°

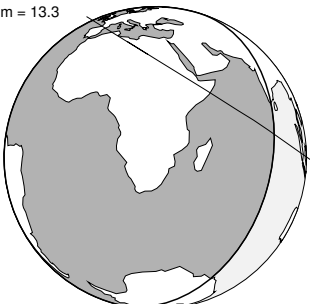
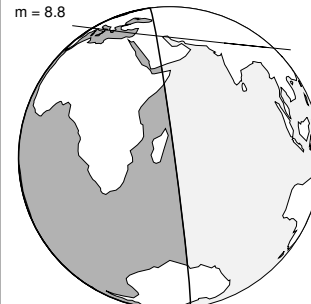
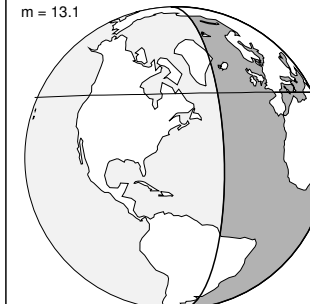
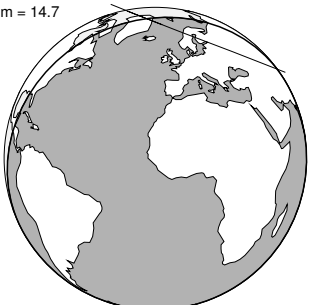
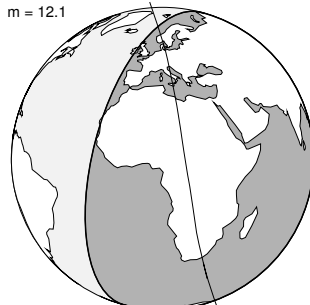
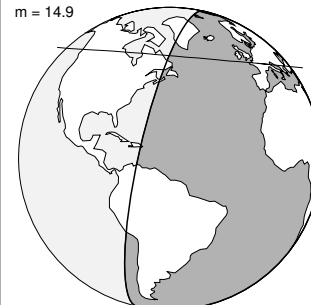
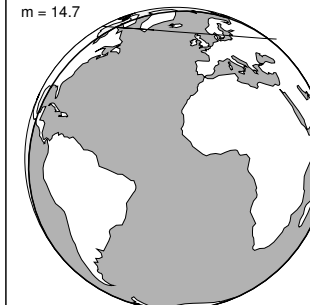
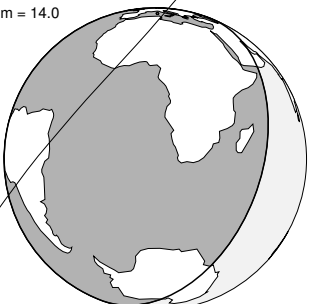
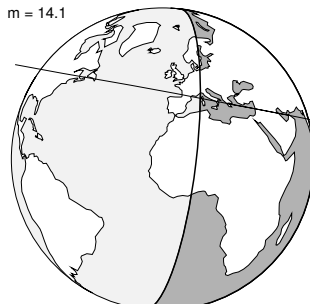
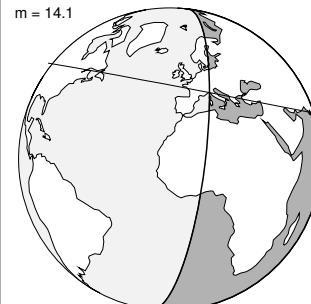
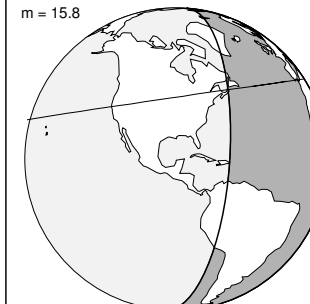
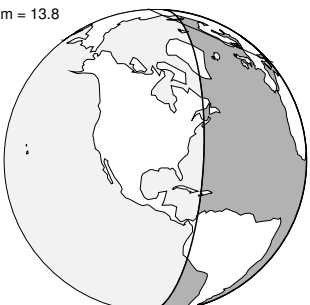
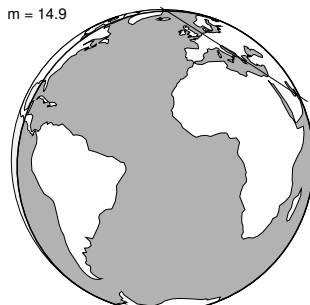
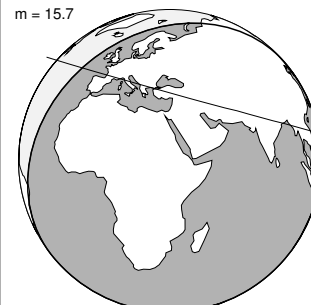
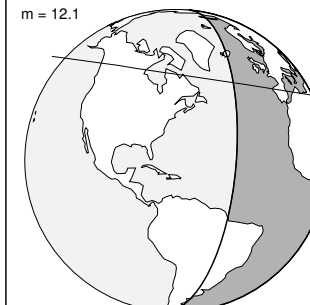
Occultations by major and minor planets – 2024

Region 3

2024 mar 22 5h24.1m A24_03003 2 Pallas TYC 0974–01559–1 Diam = 530.9 m = 11.1 m = 9.3  Dur = 28.9s Dmag = 0.2 Sun: 108° Moon: 95°	2024 mar 22 19h33.2m A24_03176 5027 Androgeos UCAC4 636–031080 Diam = 55.0 m = 11.6 m = 17.1  Dur = 4.4s Dmag = 5.5 Sun: 87° Moon: 66°	2024 mar 22 20h 3.3m A24_03162 2025 Nortia UCAC4 592–026162 Diam = 45.0 m = 12.5 m = 16.8  Dur = 3.0s Dmag = 4.3 Sun: 88° Moon: 65°	2024 mar 23 22h 3.0m A24_03078 407 Arachne UCAC4 572–018328 Diam = 97.0 m = 12.4 m = 14.1  Dur = 4.5s Dmag = 1.9 Sun: 81° Moon: 84°
2024 mar 24 21h 8.9m A24_03079 407 Arachne UCAC4 572–018475 Diam = 97.0 m = 11.9 m = 14.1  Dur = 4.4s Dmag = 2.3 Sun: 80° Moon: 95°	2024 mar 26 3h 3.0m B24_03009 523718 2014KZ101 UCAC4 421–078163 Diam = 208.9 m = 13.7 m = 22.2  Dur = 20.9s Dmag = 8.5 Sun: 92° Moon: 79°	2024 mar 26 20h53.1m A24_03182 2011UQ62 UCAC4 528–028262 Diam = 48.3 m = 11.9 m = 22.7  Dur = 6.7s Dmag = 10.8 Sun: 91° Moon: 106°	2024 mar 27 19h 4.4m A24_03159 1735 ITA TYC 0856–00757–1 Diam = 66.0 m = 11.3 m = 14.2  Dur = 4.7s Dmag = 3.0 Sun: 161° Moon: 46°
2024 mar 28 5h25.5m A24_03038 111 Ate UCAC4 311–166641 Diam = 139.0 m = 12.4 m = 13.3  Dur = 10.5s Dmag = 1.2 Sun: 95° Moon: 52°	2024 mar 28 19h30.4m A24_03018 37 Fides TYC 1885–00607–1 Diam = 112.0 m = 8.7 m = 11.8  Dur = 5.0s Dmag = 3.1 Sun: 84° Moon: 135°	2024 mar 29 3h32.8m A24_03039 111 Ate UCAC4 311–169254 Diam = 139.0 m = 12.4 m = 13.2  Dur = 10.8s Dmag = 1.2 Sun: 96° Moon: 41°	2024 mar 30 1h53.3m A24_03184 2013TP145 TYC 3378–01237–1 Diam = 57.5 m = 11.5 m = 21.5  Dur = 3.1s Dmag = 10.0 Sun: 81° Moon: 147°
2024 mar 31 21h14.5m A24_03136 1023 Thomania TYC 4964–00837–1 Diam = 60.2 m = 10.3 m = 14.7  Dur = 4.1s Dmag = 4.4 Sun: 171° Moon: 67°	2024 apr 2 19h54.4m A24_04153 2120 Tyumenia TYC 5494–00238–1 Diam = 43.0 m = 10.0 m = 15.5  Dur = 3.4s Dmag = 5.5 Sun: 144° Moon: 125°	2024 apr 5 0h26.6m A24_04099 607 Jenny UCAC4 526–044588 Diam = 65.5 m = 11.9 m = 14.7  Dur = 6.5s Dmag = 2.9 Sun: 100° Moon: 151°	2024 apr 5 18h59.7m A24_04025 57 Mnemosyne TYC 0237–00526–1 Diam = 116.0 m = 10.3 m = 12.3  Dur = 13.1s Dmag = 2.2 Sun: 133° Moon: 164°

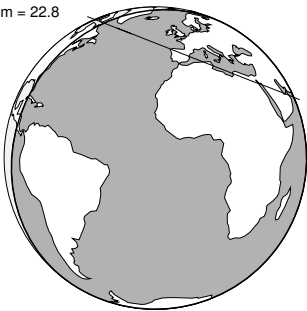
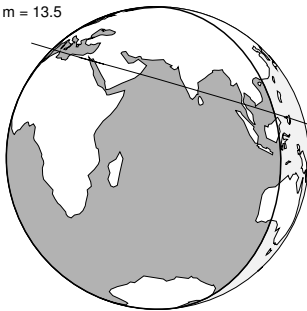
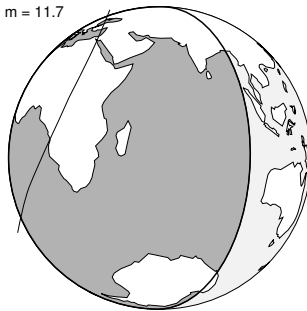
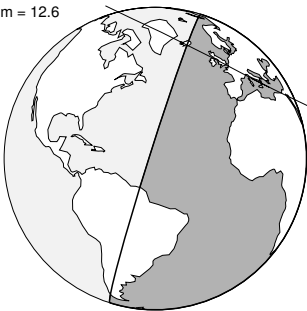
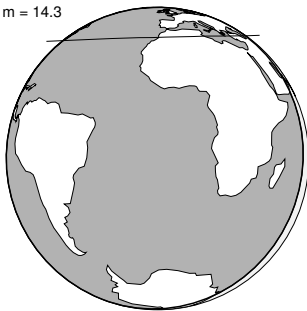
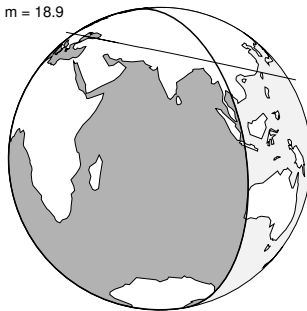
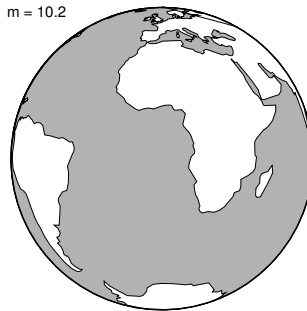
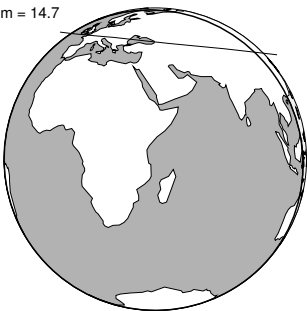
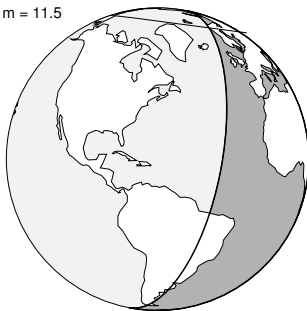
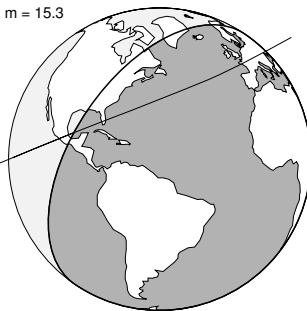
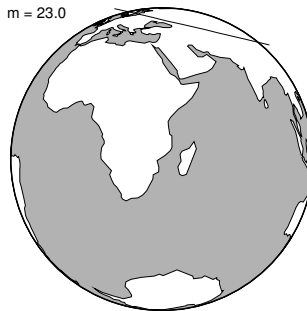
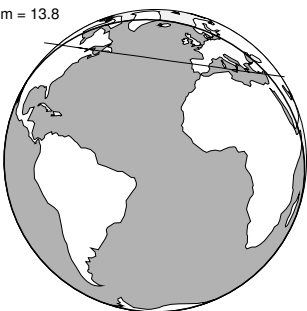
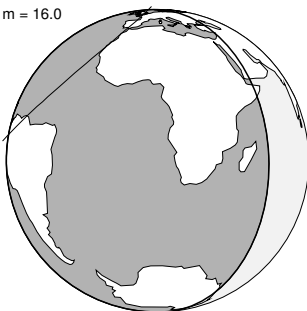
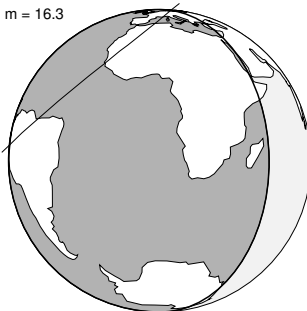
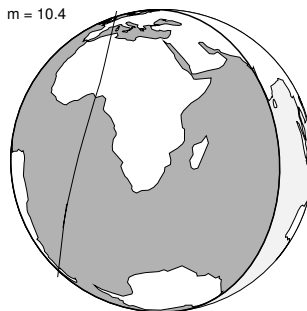
Occultations by major and minor planets – 2024

Region 3

2024 apr 6 0h47.0m A24_04113 712 Boliviana HIP 76216 Diam = 132.0 m = 8.1 m = 13.3  Dur = 15.7s Dmag = 5.2 Sun: 139° Moon: 102°	2024 apr 6 18h38.5m A24_04072 407 Arachne TYC 1863-00982-1 Diam = 97.0 m = 11.5 m = 14.2  Dur = 3.7s Dmag = 2.8 Sun: 71° Moon: 100°	2024 apr 9 2h43.1m A24_04002 1 Ceres TYC 6875-02132-1 Diam = 952.5 m = 10.7 m = 8.8  Dur = 61.2s Dmag = 0.2 Sun: 91° Moon: 97°	2024 apr 10 21h22.3m A24_04122 776 Berbericia PPMX 4019342 Diam = 121.3 m = 12.1 m = 13.1  Dur = 4.7s Dmag = 1.4 Sun: 71° Moon: 42°
2024 apr 12 0h 8.7m A24_04048 166 Rhodope TYC 0880-00535-1 Diam = 43.9 m = 11.6 m = 14.7  Dur = 3.3s Dmag = 3.1 Sun: 155° Moon: 114°	2024 apr 12 19h19.7m A24_04067 372 Palma HIP 46036 Diam = 195.0 m = 9.1 m = 12.1  Dur = 35.2s Dmag = 3.1 Sun: 117° Moon: 64°	2024 apr 12 22h49.4m A24_04057 248 Lameia UCAC4 522-045824 Diam = 52.0 m = 12.4 m = 14.9  Dur = 5.1s Dmag = 2.7 Sun: 101° Moon: 47°	2024 apr 14 0h25.2m A24_04154 2193 Jackson TYC 0292-00598-1 Diam = 51.5 m = 11.2 m = 14.7  Dur = 4.2s Dmag = 3.6 Sun: 161° Moon: 93°
2024 apr 16 2h18.1m A24_04094 546 Herodias TYC 7352-00074-1 Diam = 69.7 m = 9.6 m = 14.0  Dur = 8.4s Dmag = 4.4 Sun: 134° Moon: 131°	2024 apr 16 18h 6.2m A24_04084 476 Hedwig TYC 1352-01497-1 Diam = 121.0 m = 11.1 m = 14.1  Dur = 5.6s Dmag = 3.1 Sun: 77° Moon: 25°	2024 apr 17 18h 4.4m A24_04085 476 Hedwig TYC 1352-01573-1 Diam = 121.0 m = 11.9 m = 14.1  Dur = 5.5s Dmag = 2.3 Sun: 76° Moon: 36°	2024 apr 17 22h48.0m A24_04127 850 Altona UCAC4 558-030160 Diam = 84.5 m = 11.9 m = 15.8  Dur = 3.4s Dmag = 3.9 Sun: 69° Moon: 45°
2024 apr 22 23h 8.1m A24_04125 804 Hispania TYC 2442-01147-1 Diam = 140.6 m = 11.4 m = 13.8  Dur = 5.5s Dmag = 2.5 Sun: 71° Moon: 97°	2024 apr 23 0h15.6m A24_04132 1023 Thomana TYC 4953-01155-1 Diam = 60.2 m = 11.3 m = 14.9  Dur = 4.4s Dmag = 3.6 Sun: 161° Moon: 7°	2024 apr 24 20h17.0m A24_04141 1211 Bressole TYC 0885-00487-2 Diam = 41.6 m = 10.4 m = 15.7  Dur = 3.6s Dmag = 5.3 Sun: 147° Moon: 42°	2024 apr 26 21h20.1m A24_04018 37 Fides TYC 1899-01199-1 Diam = 112.0 m = 12.1 m = 12.1  Dur = 3.6s Dmag = 0.8 Sun: 66° Moon: 147°

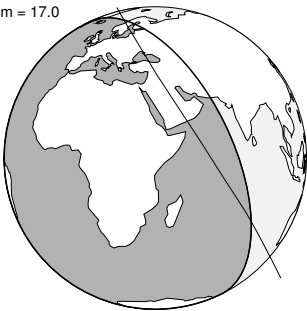
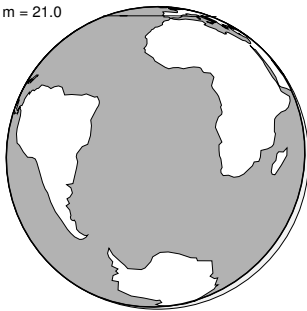
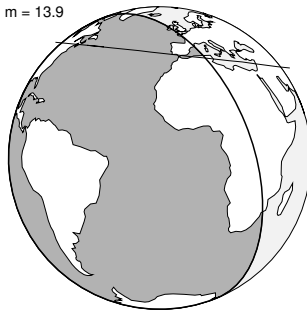
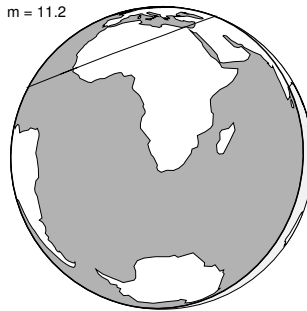
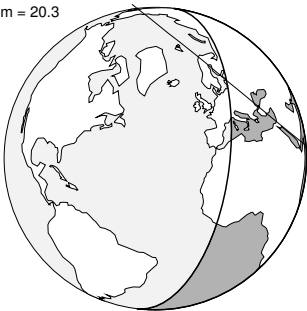
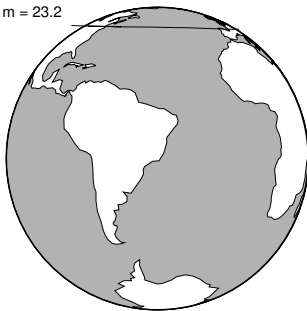
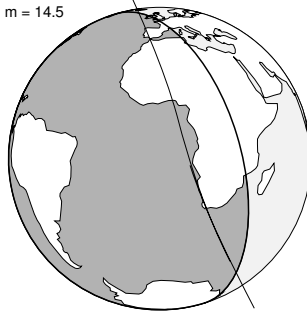
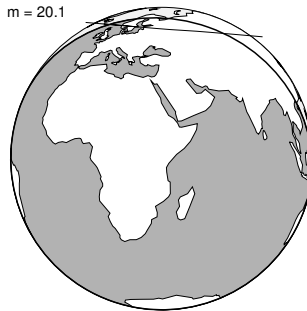
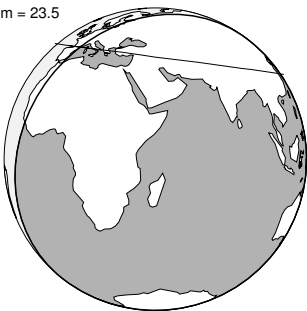
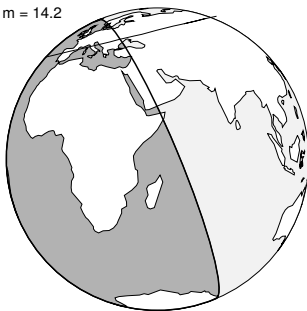
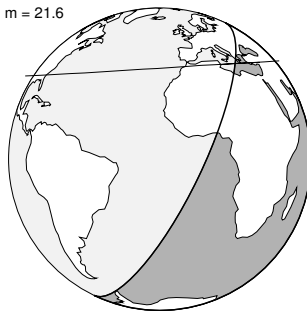
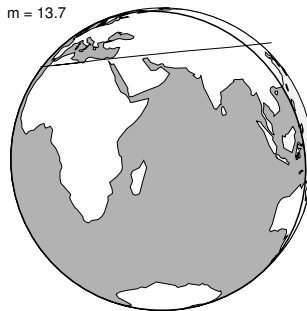
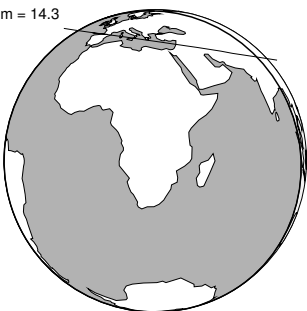
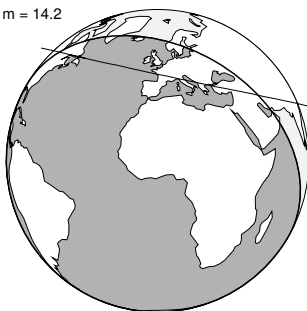
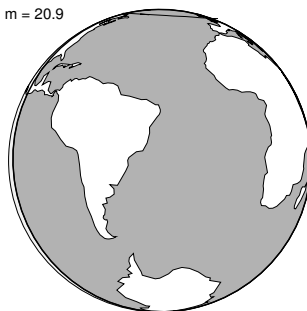
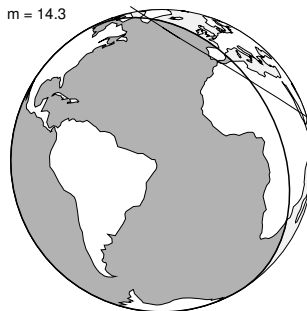
Occultations by major and minor planets – 2024

Region 3

2024 apr 26 23h51.5m B24_04003 82157 2001FM185 UCAC4 438-056991 Diam = 162.9 m = 14.0 m = 22.8  Dur = 7.1s Dmag = 8.8 Sun: 158° Moon: 56°	2024 apr 27 22h 8.2m A24_04023 53 Kalyppo UCAC4 375-078849 Diam = 119.0 m = 12.4 m = 13.5  Dur = 13.0s Dmag = 1.5 Sun: 144° Moon: 16°	2024 apr 29 23h34.5m A24_04013 22 Kalliope UCAC5 314-149410 Diam = 187.0 m = 12.4 m = 11.7  Dur = 34.0s Dmag = 0.5 Sun: 126° Moon: 18°	2024 may 2 23h37.6m A24_05094 521 Brixia TYC 5638-00725-1 Diam = 103.0 m = 10.8 m = 13.7  Dur = 7.8s Dmag = 2.9 Sun: 154° Moon: 86°
2024 may 3 21h37.5m A24_05056 192 Nausikaa TYC 1401-01950-1 Diam = 107.0 m = 11.7 m = 12.6  Dur = 7.5s Dmag = 1.3 Sun: 92° Moon: 150°	2024 may 4 1h42.9m A24_05155 1424 Sundmania TYC 6778-00595-1 Diam = 74.0 m = 11.3 m = 14.3  Dur = 6.0s Dmag = 3.1 Sun: 163° Moon: 108°	2024 may 4 22h53.5m B24_05006 50000 Quaoar UCAC4 375-137636 Diam = 1110.0 m = 14.2 m = 18.9  Dur = 88.8s Dmag = 4.7 Sun: 124° Moon: 82°	2024 may 8 23h37.2m A24_05013 27 Euterpe TYC 5590-00805-1 Diam = 124.0 m = 11.2 m = 10.2  Dur = 10.3s Dmag = 0.4 Sun: 175° Moon: 163°
2024 may 9 21h59.1m A24_05143 1075 Helina UCAC5 408-062941 Diam = 40.5 m = 12.4 m = 14.7  Dur = 3.2s Dmag = 2.4 Sun: 164° Moon: 159°	2024 may 11 20h56.7m A24_05004 5 Astraea UCAC4 555-042197 Diam = 125.0 m = 12.0 m = 11.5  Dur = 3.9s Dmag = 0.5 Sun: 64° Moon: 17°	2024 may 13 0h40.4m A24_05050 166 Rhodope TYC 0879-00468-1 Diam = 43.9 m = 11.1 m = 15.3  Dur = 9.2s Dmag = 4.2 Sun: 125° Moon: 64°	2024 may 18 21h22.2m B24_05007 53311 Deucalion UCAC4 354-072942 Diam = 189.7 m = 14.5 m = 23.0  Dur = 7.7s Dmag = 8.4 Sun: 178° Moon: 51°
2024 may 19 2h25.6m A24_05133 791 Ani TYC 0369-00106-1 Diam = 107.0 m = 10.6 m = 13.8  Dur = 8.8s Dmag = 3.2 Sun: 156° Moon: 59°	2024 may 22 2h31.3m A24_05163 2421 Nininger UCAC4 320-208899 Diam = 43.3 m = 11.5 m = 16.0  Dur = 6.6s Dmag = 4.5 Sun: 137° Moon: 60°	2024 may 23 2h47.0m A24_05165 2617 Jiangxi UCAC4 307-256451 Diam = 59.2 m = 12.3 m = 16.3  Dur = 6.6s Dmag = 4.0 Sun: 136° Moon: 49°	2024 may 24 0h38.3m A24_05017 42 Isis UCAC4 336-178264 Diam = 107.0 m = 11.8 m = 10.4  Dur = 31.8s Dmag = 0.3 Sun: 140° Moon: 34°

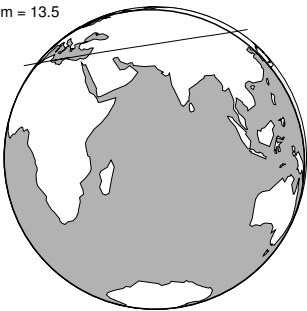
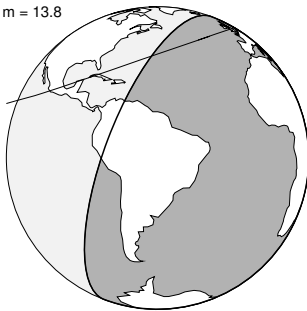
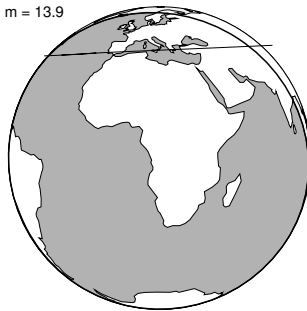
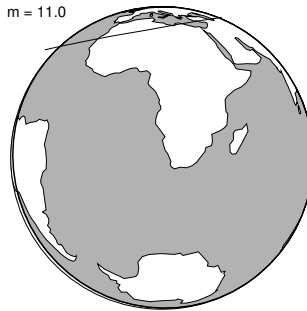
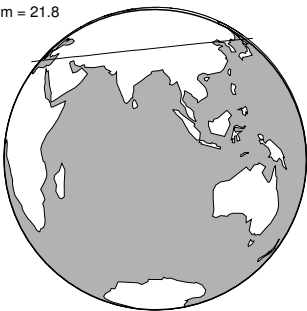
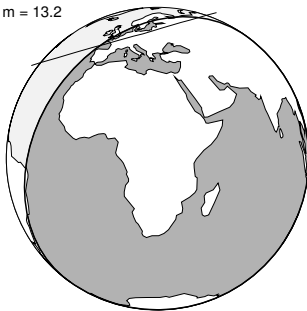
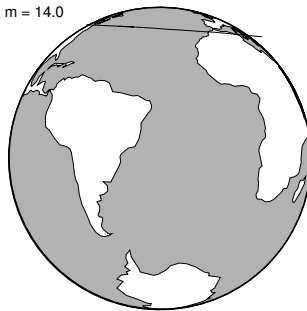
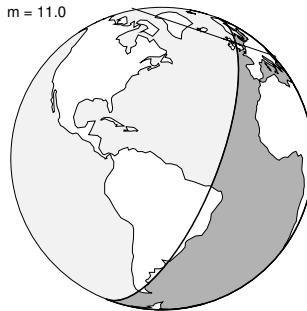
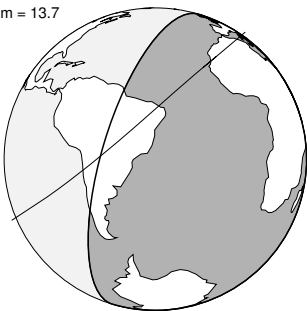
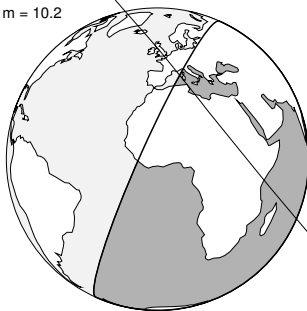
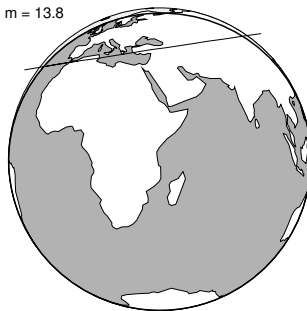
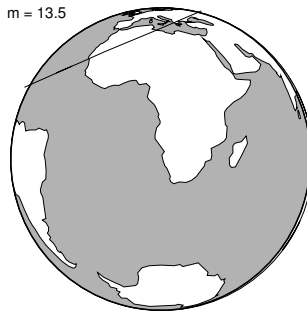
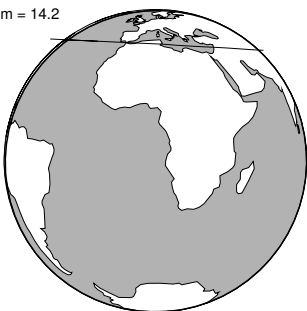
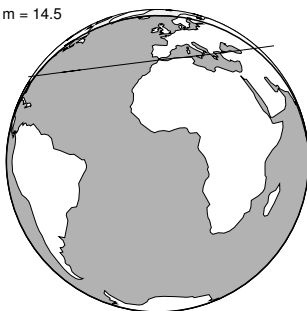
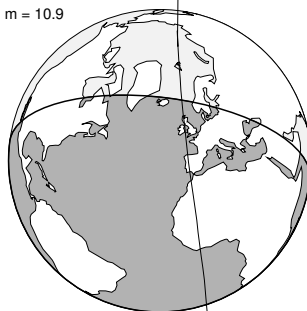
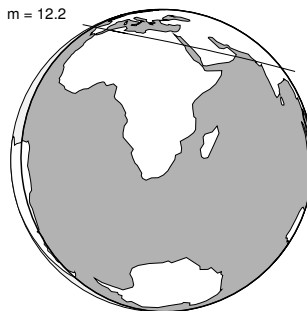
Occultations by major and minor planets – 2024

Region 3

2024 may 25 1h 2.8m A24_05162 2235 Vittore HIP 97732 Diam = 54.6 m = 17.0  Dur = 5.9s Sun: 120° Dmag = 8.8 Moon: 47°	2024 may 26 1h41.0m B24_05005 47932 2000GN171 UCAC5 291-113932 Diam = 231.2 m = 21.0  Dur = 10.3s Sun: 163° Dmag = 6.1 Moon: 17°	2024 may 27 4h24.2m A24_05054 181 Eucharis TYC 5157-00208-1 Diam = 107.0 m = 13.9  Dur = 18.5s Sun: 127° Dmag = 2.2 Moon: 21°	2024 may 30 0h 6.5m A24_05012 22 Kalliope UCAC4 304-156306 Diam = 187.0 m = 12.2  Dur = 14.7s Sun: 158° Dmag = 0.4 Moon: 60°
2024 may 30 18h54.7m A24_05171 482824 2013XC26 TYC 2498-00572-1 Diam = 517.6 m = 20.3  Dur = 23.9s Sun: 60° Dmag = 9.9 Moon: 145°	2024 jun 3 3h10.9m A24_06199 2015KF173 TYC 6244-00404-1 Diam = 83.2 m = 23.2  Dur = 3.6s Sun: 174° Dmag = 11.7 Moon: 130°	2024 jun 6 4h 9.4m A24_06147 1015 Christa TYC 6345-01442-1 Diam = 101.0 m = 14.5  Dur = 39.8s Sun: 122° Dmag = 3.2 Moon: 118°	2024 jun 10 22h 2.5m B24_06010 174567 Varda UCAC4 443-075612 Diam = 847.2 m = 20.1  Dur = 34.1s Sun: 157° Dmag = 5.3 Moon: 128°
2024 jun 11 19h18.5m B24_06020 2002GB32 UCAC4 416-063158 Diam = 114.8 m = 23.5  Dur = 5.7s Sun: 151° Dmag = 8.9 Moon: 90°	2024 jun 14 2h22.9m A24_06059 294 Felicia TYC 5248-00979-1 Diam = 59.6 m = 14.2  Dur = 3.8s Sun: 98° Dmag = 3.6 Moon: 173°	2024 jun 15 17h56.6m A24_06197 523681 2014BV64 TYC 4907-01517-1 Diam = 472.1 m = 21.6  Dur = 34.0s Sun: 73° Dmag = 12.2 Moon: 36°	2024 jun 15 21h34.4m A24_06140 924 Toni TYC 5714-01182-1 Diam = 87.6 m = 13.7  Dur = 8.7s Sun: 157° Dmag = 2.7 Moon: 91°
2024 jun 15 23h22.8m A24_06176 1315 Bronisława UCAC4 369-147644 Diam = 65.5 m = 14.3  Dur = 6.1s Sun: 162° Dmag = 2.6 Moon: 87°	2024 jun 17 1h30.4m A24_06125 754 Malabar TYC 1048-00504-1 Diam = 89.1 m = 14.2  Dur = 7.8s Sun: 139° Dmag = 2.5 Moon: 85°	2024 jun 21 1h21.9m B24_06013 470308 2007JH43 UCAC4 317-098578 Diam = 452.9 m = 20.9  Dur = 18.7s Sun: 166° Dmag = 6.3 Moon: 1°	2024 jun 23 4h36.9m A24_06135 838 Seraphina UCAC4 422-128816 Diam = 63.1 m = 14.3  Dur = 9.2s Sun: 141° Dmag = 2.3 Moon: 28°

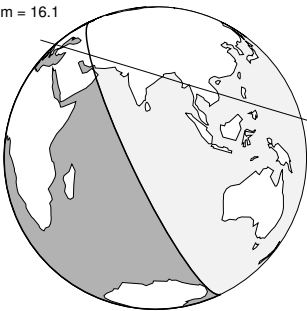
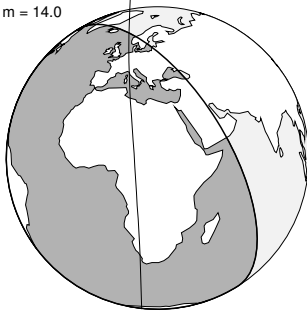
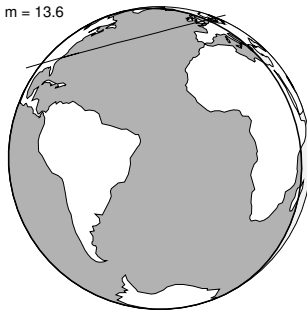
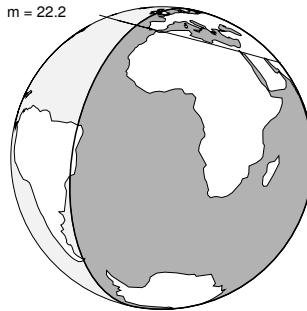
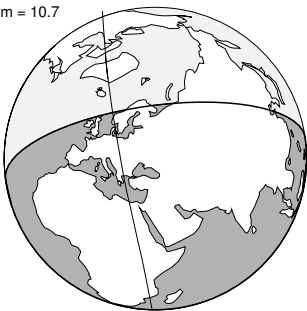
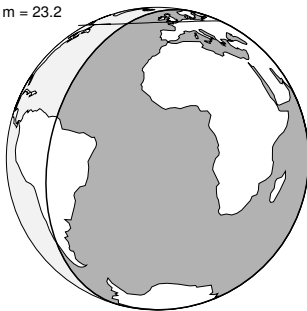
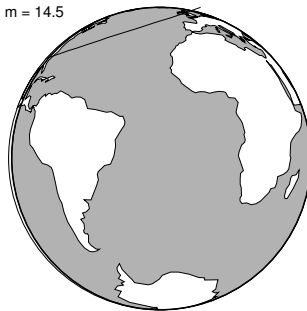
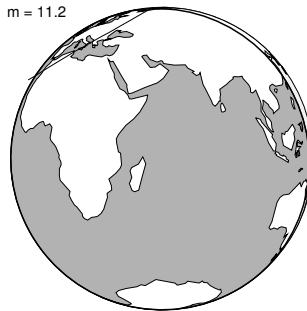
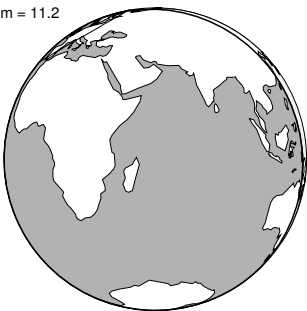
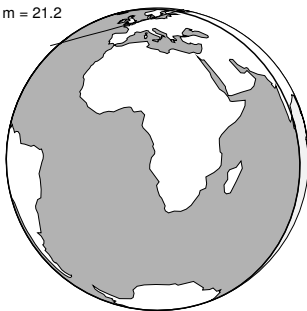
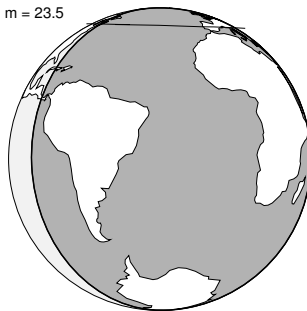
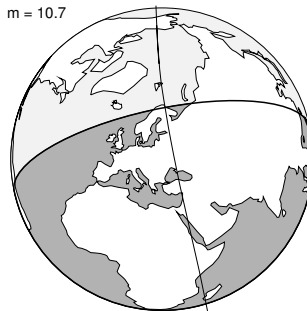
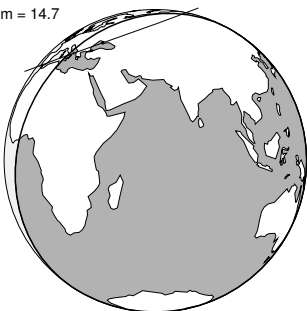
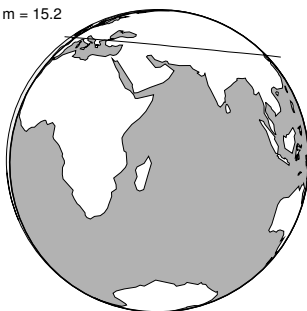
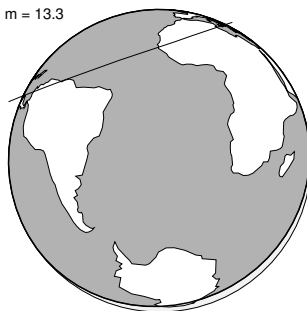
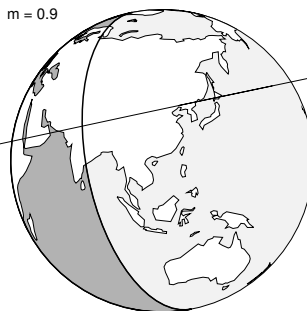
Occultations by major and minor planets – 2024

Region 3

2024 jun 23 20h15.8m A24_06142 924 Toni UCAC4 390–104349 Diam = 87.6 m = 10.9 m = 13.5  Dur = 7.8s Dmag = 2.7 Sun: 165° Moon: 20°	2024 jun 23 22h53.5m A24_06118 714 Ulula UCAC5 392–054299 Diam = 41.0 m = 12.5 m = 13.8  Dur = 4.8s Dmag = 1.6 Sun: 110° Moon: 94°	2024 jun 23 23h41.7m A24_06104 589 Croatia UCAC4 413–109436 Diam = 92.5 m = 11.2 m = 13.9  Dur = 7.6s Dmag = 2.8 Sun: 160° Moon: 24°	2024 jun 24 22h24.2m A24_06012 22 Kalliope UCAC4 297–122392 Diam = 187.0 m = 11.3 m = 11.0  Dur = 13.6s Dmag = 0.6 Sun: 168° Moon: 46°
2024 jun 26 18h20.0m B24_06001 5145 Pholus UCAC4 383–114687 Diam = 166.0 m = 14.8 m = 21.8  Dur = 6.4s Dmag = 6.9 Sun: 169° Moon: 59°	2024 jun 28 20h18.6m A24_06092 489 Comacina UCAC4 434–065045 Diam = 144.0 m = 11.1 m = 13.2  Dur = 15.9s Dmag = 2.3 Sun: 143° Moon: 119°	2024 jun 29 1h51.9m A24_06075 406 Erna UCAC5 312–160934 Diam = 53.8 m = 12.4 m = 14.0  Dur = 4.9s Dmag = 1.8 Sun: 173° Moon: 96°	2024 jun 30 20h37.0m A24_06008 3 Juno UCAC5 491–054084 Diam = 257.6 m = 12.4 m = 11.0  Dur = 9.6s Dmag = 0.3 Sun: 68° Moon: 132°
2024 jun 30 21h31.1m A24_06048 141 Lumen UCAC4 325–070451 Diam = 135.0 m = 12.1 m = 13.7  Dur = 21.3s Dmag = 1.8 Sun: 110° Moon: 167°	2024 jul 4 19h 3.1m A24_07112 532 Herculina UCAC4 490–057658 Diam = 216.5 m = 12.4 m = 10.2  Dur = 11.9s Dmag = 0.1 Sun: 96° Moon: 109°	2024 jul 4 21h15.5m A24_07120 589 Croatia UCAC4 412–089730 Diam = 92.5 m = 12.3 m = 13.8  Dur = 7.2s Dmag = 1.8 Sun: 164° Moon: 156°	2024 jul 4 23h53.4m A24_07145 866 Fatme UCAC4 323–212371 Diam = 91.7 m = 12.5 m = 13.5  Dur = 7.6s Dmag = 1.4 Sun: 168° Moon: 158°
2024 jul 5 23h 2.2m A24_07178 1315 Bronislaw TYC 6266–01380–1 Diam = 65.5 m = 10.7 m = 14.2  Dur = 5.7s Dmag = 3.6 Sun: 169° Moon: 166°	2024 jul 6 0h25.4m A24_07149 874 Rotraut UCAC4 419–110381 Diam = 58.3 m = 10.4 m = 14.5  Dur = 4.7s Dmag = 4.2 Sun: 163° Moon: 159°	2024 jul 6 2h 1.0m A24_07161 1036 Ganymed TYC 3143–01367–1 Diam = 41.0 m = 11.3 m = 10.9  Dur = 3.6s Dmag = 0.6 Sun: 114° Moon: 110°	2024 jul 6 20h43.1m A24_07046 111 Ate UCAC4 313–117986 Diam = 139.0 m = 12.1 m = 12.2  Dur = 12.9s Dmag = 0.8 Sun: 158° Moon: 148°

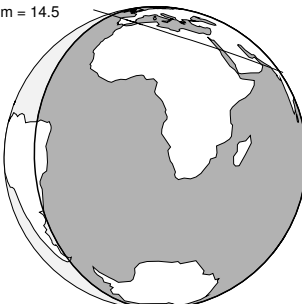
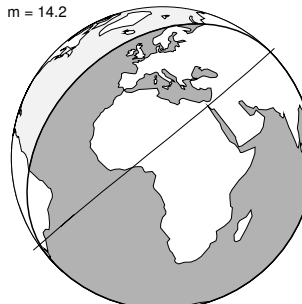
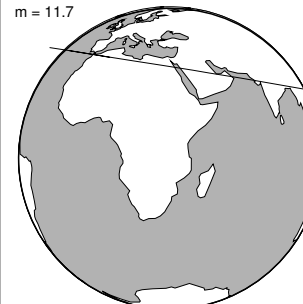
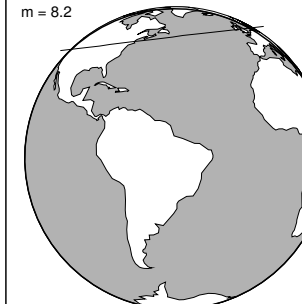
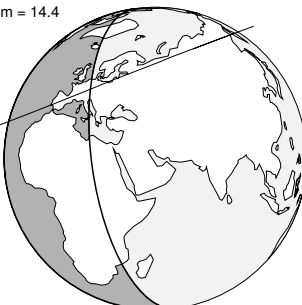
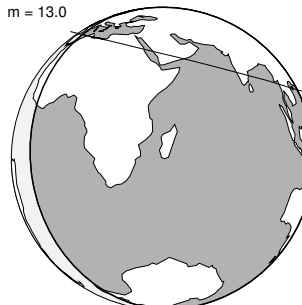
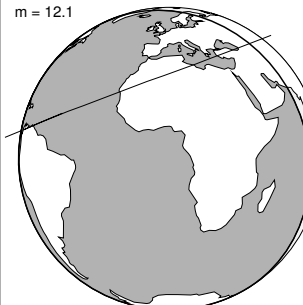
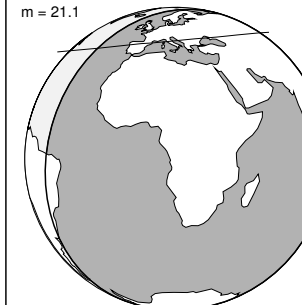
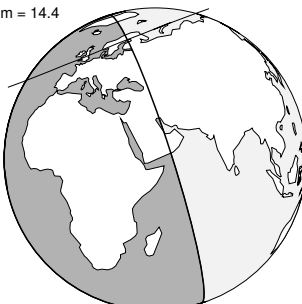
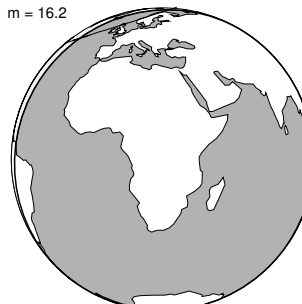
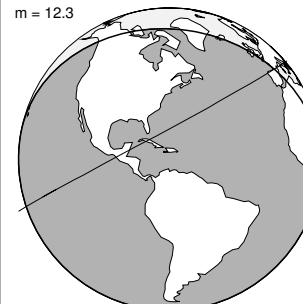
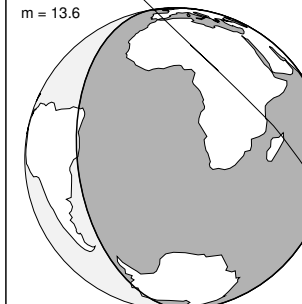
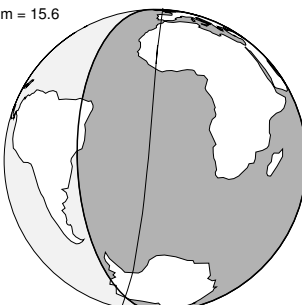
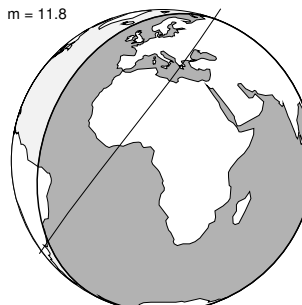
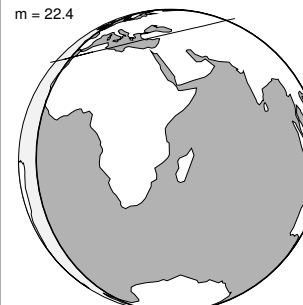
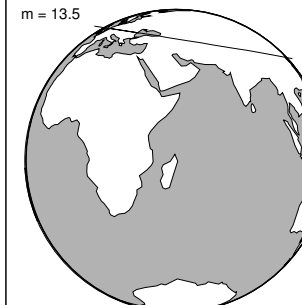
Occultations by major and minor planets – 2024

Region 3

2024 jul 7 1h32.6m A24_07193 3317 Paris UCAC4 389–002314 Diam = 127.0 m = 12.3 m = 16.1  Dur = 5.7s Dmag = 3.9 Sun: 80° Moon: 95°	2024 jul 7 2h 2.7m A24_07106 445 Edna TYC 1152–00055–1 Diam = 89.0 m = 14.0  Dur = 7.3s Dmag = 4.9 Sun: 117° Moon: 128°	2024 jul 13 3h23.3m A24_07039 76 Freia TYC 5782–00555–1 Diam = 190.0 m = 11.9 m = 13.6  Dur = 14.5s Dmag = 1.9 Sun: 157° Moon: 121°	2024 jul 19 20h26.8m B24_07003 182934 2002GJ32 UCAC4 346–078854 Diam = 332.7 m = 13.3 m = 22.2  Dur = 25.7s Dmag = 8.9 Sun: 126° Moon: 33°
2024 jul 19 20h56.4m A24_07166 1036 Ganymed TYC 3547–00683–1 Diam = 41.0 m = 11.1 m = 10.7  Dur = 5.2s Dmag = 0.6 Sun: 110° Moon: 78°	2024 jul 20 21h45.1m B24_07019 2015KH174 UCAC4 378–080003 Diam = 114.8 m = 13.6 m = 23.2  Dur = 7.5s Dmag = 9.6 Sun: 135° Moon: 39°	2024 jul 21 0h42.0m A24_07154 931 Whitemora UCAC4 340–183659 Diam = 52.6 m = 11.6 m = 14.5  Dur = 3.5s Dmag = 2.9 Sun: 168° Moon: 8°	2024 jul 21 21h14.1m A24_07083 335 Roberta UCAC4 385–155901 Diam = 93.6 m = 11.3 m = 11.2  Dur = 14.1s Dmag = 0.7 Sun: 165° Moon: 12°
2024 jul 21 21h14.5m A24_07082 335 Roberta TYC 5782–01392–1 Diam = 93.6 m = 11.3 m = 11.2  Dur = 14.1s Dmag = 0.7 Sun: 165° Moon: 12°	2024 jul 22 0h31.1m B24_07010 523722 2014LV28 UCAC4 380–164593 Diam = 300.6 m = 14.0 m = 21.2  Dur = 14.0s Dmag = 7.3 Sun: 158° Moon: 14°	2024 jul 22 23h51.8m B24_07017 2006HA123 UCAC4 323–122942 Diam = 151.4 m = 14.4 m = 23.5  Dur = 7.5s Dmag = 9.1 Sun: 147° Moon: 53°	2024 jul 23 21h32.4m A24_07167 1036 Ganymed TYC 3551–01982–1 Diam = 41.0 m = 11.5 m = 10.7  Dur = 5.9s Dmag = 0.4 Sun: 109° Moon: 74°
2024 jul 24 18h20.0m A24_07152 874 Rotraut UCAC4 415–086440 Diam = 58.3 m = 12.5 m = 14.7  Dur = 5.4s Dmag = 2.4 Sun: 153° Moon: 68°	2024 jul 24 19h43.3m A24_07172 1213 Algeria UCAC4 380–149659 Diam = 43.2 m = 11.0 m = 15.2  Dur = 3.4s Dmag = 4.3 Sun: 166° Moon: 58°	2024 jul 25 1h44.8m A24_07057 152 Atala TYC 7466–00679–1 Diam = 89.9 m = 11.6 m = 13.3  Dur = 6.6s Dmag = 1.9 Sun: 162° Moon: 48°	2024 jul 26 0h19.4m P24_07001 Mars TYC 1258–00868–1 Diam = 6759.2 m = 8.4 m = 0.9  Dur = 201.6s Dmag = 0.0 Sun: 59° Moon: 58°

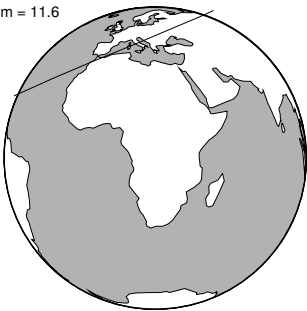
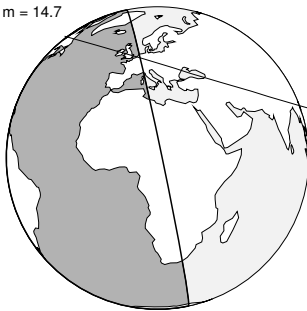
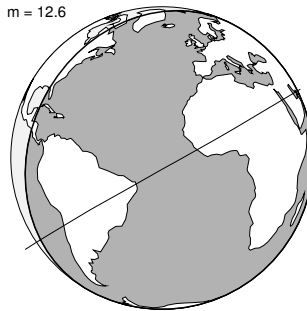
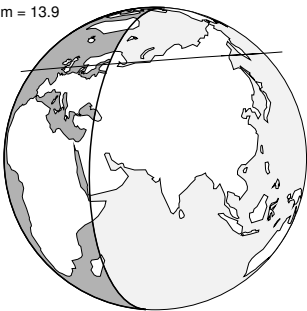
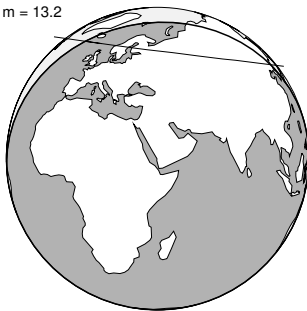
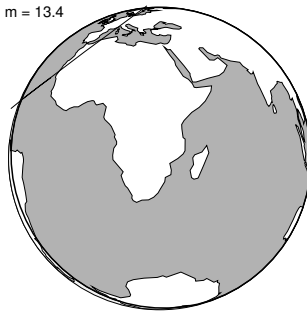
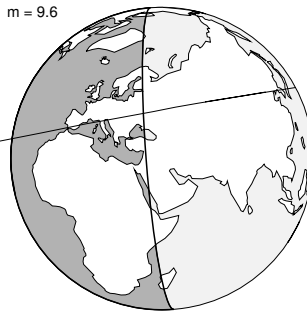
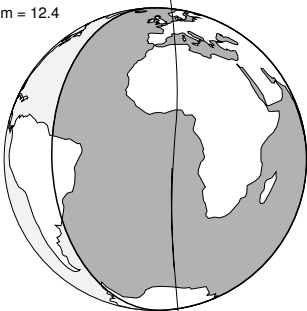
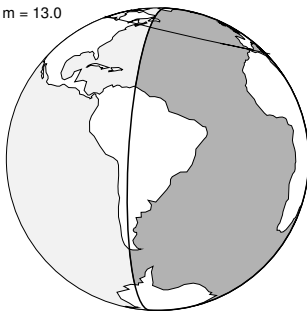
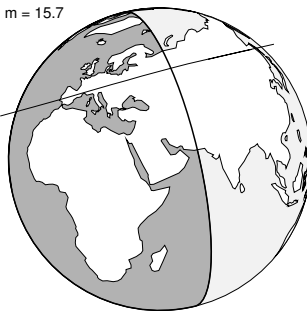
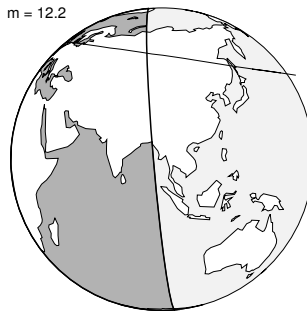
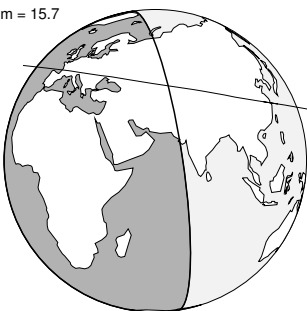
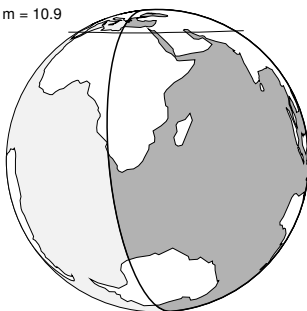
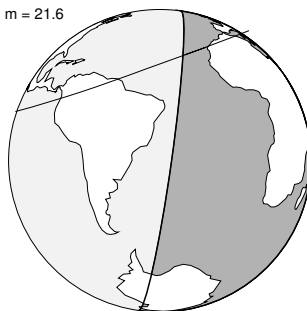
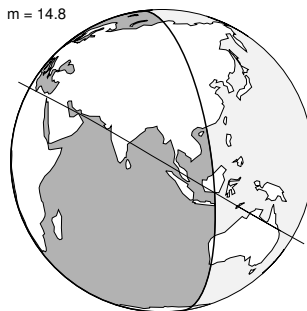
Occultations by major and minor planets – 2024

Region 3

2024 jul 27 20h52.2m A24_07098 406 Erna UCAC4 316–121578 Diam = 53.8 m = 12.3 m = 14.5  Dur = 8.7s Dmag = 2.4 Sun: 143° Moon: 124°	2024 jul 27 21h24.4m A24_07143 754 Malabar Gaia 100–0146451 Diam = 89.1 m = 10.7 m = 14.2  Dur = 6.9s Dmag = 3.6 Sun: 140° Moon: 106°	2024 jul 27 21h51.4m A24_07135 702 Alauda UCAC4 398–129068 Diam = 202.0 m = 10.4 m = 11.7  Dur = 13.8s Dmag = 1.6 Sun: 171° Moon: 86°	2024 aug 2 3h35.5m A24_08001 7 Iris TYC 5770–00975–1 Diam = 329.6 m = 11.2 m = 8.2  Dur = 34.5s Dmag = 0.1 Sun: 170° Moon: 145°
2024 aug 2 3h59.8m A24_08085 361 Bononia TYC 1822–01023–1 Diam = 149.0 m = 10.8 m = 14.4  Dur = 4.9s Dmag = 3.7 Sun: 65° Moon: 38°	2024 aug 2 19h 6.4m A24_08076 283 Emma UCAC4 323–196018 Diam = 150.0 m = 12.3 m = 13.0  Dur = 17.2s Dmag = 1.2 Sun: 150° Moon: 170°	2024 aug 5 1h20.6m A24_08043 150 Nuwa UCAC4 420–147491 Diam = 157.0 m = 12.5 m = 12.1  Dur = 20.5s Dmag = 0.6 Sun: 155° Moon: 161°	2024 aug 7 20h57.7m B24_08012 2010JJ124 UCAC4 412–107559 Diam = 190.5 m = 14.3 m = 21.1  Dur = 9.6s Dmag = 6.7 Sun: 148° Moon: 112°
2024 aug 10 2h10.6m A24_08060 207 Hedda TYC 0645–00832–1 Diam = 60.0 m = 10.5 m = 14.4  Dur = 4.4s Dmag = 3.9 Sun: 96° Moon: 158°	2024 aug 11 21h35.8m A24_08158 1760 Sandra TYC 5189–01744–1 Diam = 40.1 m = 11.7 m = 16.2  Dur = 3.2s Dmag = 4.5 Sun: 164° Moon: 90°	2024 aug 12 5h 8.7m A24_08053 176 Iduna UCAC4 528–148493 Diam = 125.0 m = 12.3 m = 12.3  Dur = 11.6s Dmag = 0.7 Sun: 149° Moon: 109°	2024 aug 12 20h29.6m A24_08046 151 Abundantia UCAC4 291–157220 Diam = 46.7 m = 12.4 m = 13.6  Dur = 19.5s Dmag = 1.5 Sun: 130° Moon: 39°
2024 aug 14 20h37.8m A24_08112 623 Chimaera TYC 7375–00453–1 Diam = 46.0 m = 10.8 m = 15.6  Dur = 6.9s Dmag = 4.9 Sun: 121° Moon: 7°	2024 aug 14 20h51.3m A24_08089 386 Siegena UCAC4 447–103353 Diam = 173.0 m = 12.4 m = 11.8  Dur = 14.6s Dmag = 0.5 Sun: 142° Moon: 41°	2024 aug 15 19h25.8m B24_08001 10370 Hylonomie UCAC4 364–174007 Diam = 95.5 m = 13.3 m = 22.4  Dur = 4.7s Dmag = 9.1 Sun: 152° Moon: 26°	2024 aug 20 20h15.3m A24_08165 2829 Bob Hope TYC 5798–00107–1 Diam = 47.3 m = 11.1 m = 13.5  Dur = 4.4s Dmag = 2.5 Sun: 172° Moon: 23°

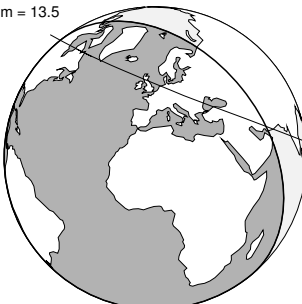
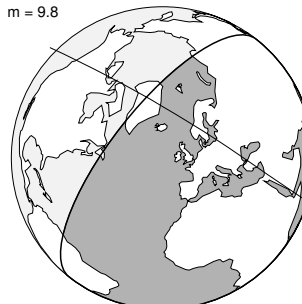
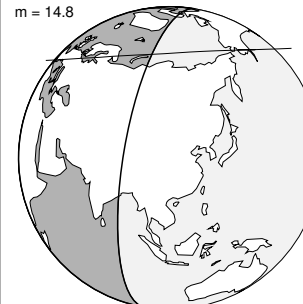
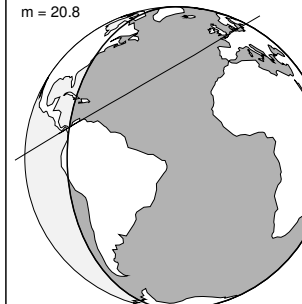
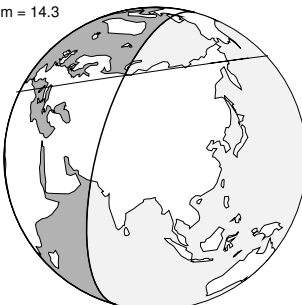
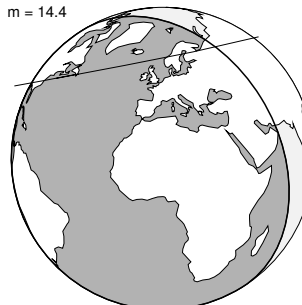
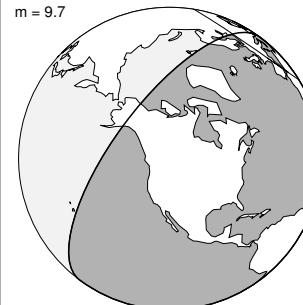
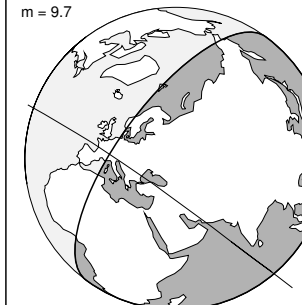
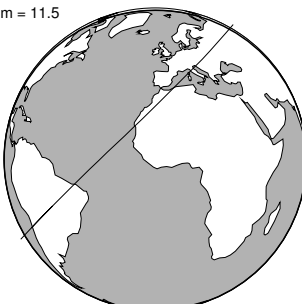
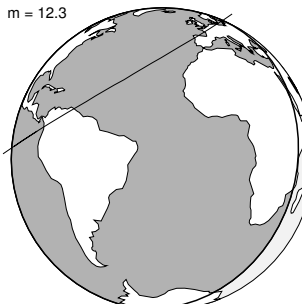
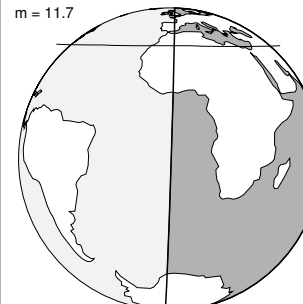
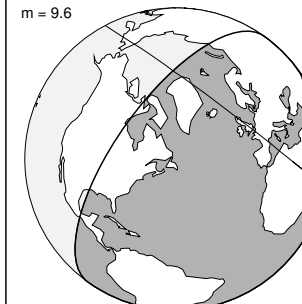
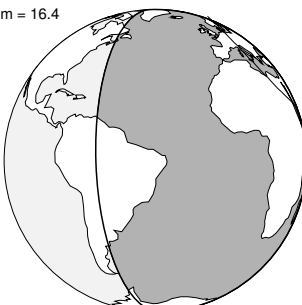
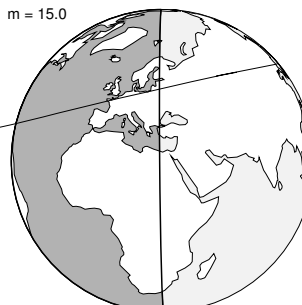
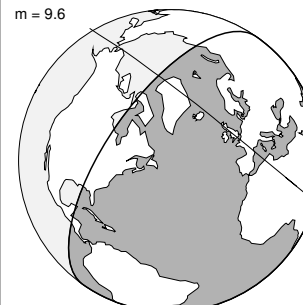
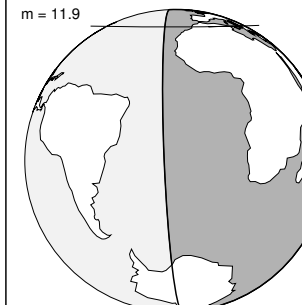
Occultations by major and minor planets – 2024

Region 3

2024 aug 22 22h45.7m A24_08044 150 Nuwa UCAC4 414-141918 Diam = 157.0 m = 12.4 m = 11.6  Dur = 15.6s Dmag = 0.4 Sun: 174° Moon: 40°	2024 aug 23 4h40.7m A24_08103 482 Petrina UCAC4 500-006144 Diam = 51.6 m = 12.0 m = 14.7  Dur = 3.4s Dmag = 2.7 Sun: 91° Moon: 42°	2024 aug 26 23h14.9m A24_08049 161 Athor UCAC4 555-006937 Diam = 45.7 m = 12.5 m = 13.5  Dur = 3.7s Dmag = 1.4 Sun: 98° Moon: 16°	2024 aug 27 23h59.6m A24_08073 266 Aline TYC 0519-01540-1 Diam = 113.0 m = 10.6 m = 12.6  Dur = 12.3s Dmag = 2.2 Sun: 150° Moon: 125°
2024 aug 28 2h55.2m A24_08038 120 Lachesis TYC 1876-01170-1 Diam = 178.0 m = 11.1 m = 13.9  Dur = 6.3s Dmag = 2.9 Sun: 64° Moon: 4°	2024 aug 28 20h51.8m A24_08100 445 Edna TYC 1681-00226-1 Diam = 89.0 m = 9.1 m = 13.2  Dur = 7.6s Dmag = 4.1 Sun: 153° Moon: 110°	2024 aug 28 21h15.8m A24_08102 458 Hercynia UCAC4 359-203511 Diam = 40.0 m = 11.3 m = 13.4  Dur = 3.4s Dmag = 2.3 Sun: 166° Moon: 134°	2024 sep 4 3h10.3m A24_09008 15 Eunomia UCAC5 621-018920 Diam = 272.0 m = 12.4 m = 9.6  Dur = 12.7s Dmag = 0.1 Sun: 83° Moon: 95°
2024 sep 4 21h11.7m A24_09045 102 Miriam UCAC4 386-139229 Diam = 86.0 m = 12.1 m = 12.4  Dur = 36.1s Dmag = 0.9 Sun: 133° Moon: 114°	2024 sep 5 22h13.9m A24_09084 308 Polyxo UCAC5 358-102842 Diam = 148.0 m = 12.5 m = 13.0  Dur = 12.2s Dmag = 1.1 Sun: 101° Moon: 70°	2024 sep 6 1h33.2m A24_09100 395 Delia UCAC4 562-007696 Diam = 54.0 m = 11.6 m = 15.7  Dur = 7.1s Dmag = 4.1 Sun: 104° Moon: 137°	2024 sep 7 23h41.9m A24_09035 69 Hesperia TYC 1283-00171-1 Diam = 143.0 m = 11.0 m = 12.2  Dur = 7.0s Dmag = 1.5 Sun: 86° Moon: 139°
2024 sep 8 1h9.0m A24_09070 232 Russia UCAC4 524-007924 Diam = 55.2 m = 12.1 m = 15.7  Dur = 5.5s Dmag = 3.6 Sun: 100° Moon: 153°	2024 sep 8 16h46.0m A24_09021 42 Isis UCAC4 294-186155 Diam = 107.0 m = 12.4 m = 10.9  Dur = 10.2s Dmag = 0.2 Sun: 108° Moon: 48°	2024 sep 9 19h52.8m A24_09226 2013JW63 TYC 6808-01105-1 Diam = 416.9 m = 10.5 m = 21.6  Dur = 51.2s Dmag = 11.1 Sun: 85° Moon: 12°	2024 sep 10 22h21.0m A24_09086 318 Magdalena UCAC4 497-005706 Diam = 55.0 m = 11.6 m = 14.8  Dur = 6.1s Dmag = 3.3 Sun: 109° Moon: 158°

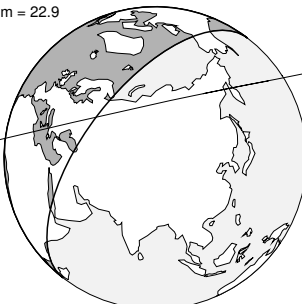
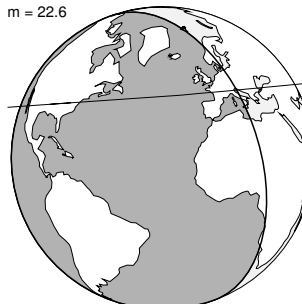
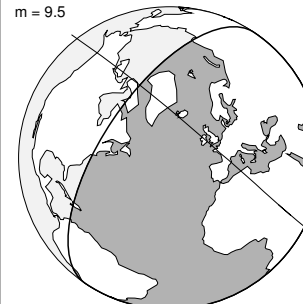
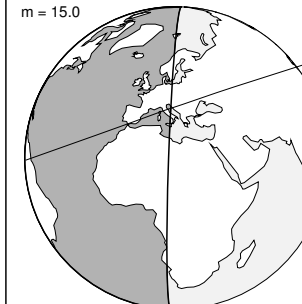
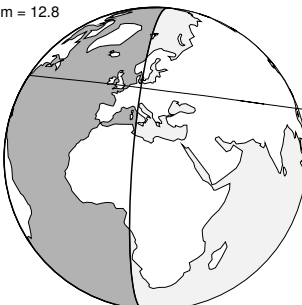
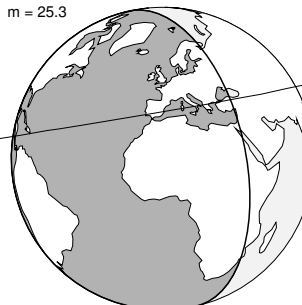
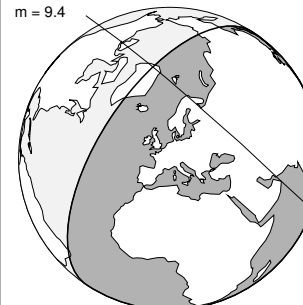
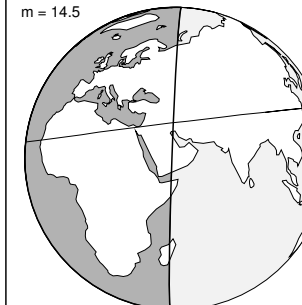
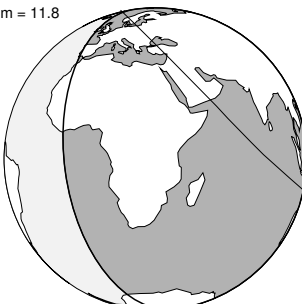
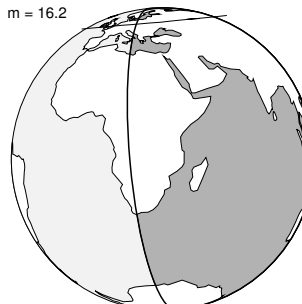
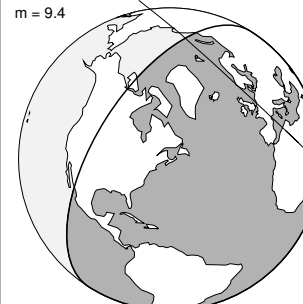
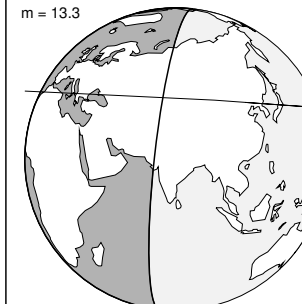
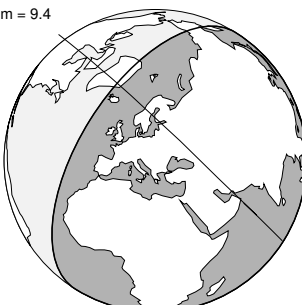
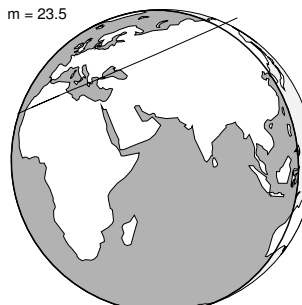
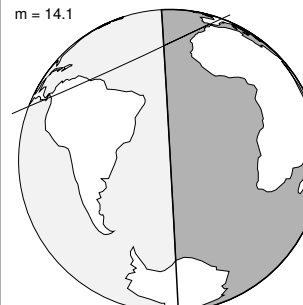
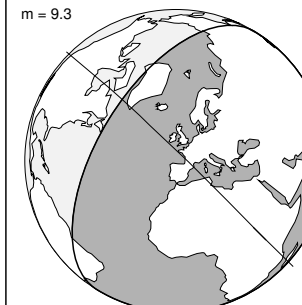
Occultations by major and minor planets – 2024

Region 3

2024 sep 11 1h54.8m A24_09119 576 Emanuela UCAC4 575–003143 Diam = 86.0 m = 12.5 m = 13.5  Dur = 14.4s Dmag = 1.3 Sun: 137° Moon: 132°	2024 sep 11 21h56.5m A24_09167 1036 Ganymed UCAC4 717–068321 Diam = 41.0 m = 10.3 m = 9.8  Dur = 5.6s Dmag = 0.5 Sun: 110° Moon: 88°	2024 sep 14 0h 6.4m A24_09138 709 Fringilla TYC 2448–00321–1 Diam = 99.6 m = 10.6 m = 14.8  Dur = 4.1s Dmag = 4.1 Sun: 72° Moon: 162°	2024 sep 14 23h 4.6m B24_09010 2017OF69 PPMX 9809929 Diam = 554.6 m = 12.7 m = 20.8  Dur = 30.7s Dmag = 8.1 Sun: 136° Moon: 18°
2024 sep 16 1h35.3m A24_09128 595 Polxena TYC 2464–00020–1 Diam = 114.0 m = 10.2 m = 14.3  Dur = 4.1s Dmag = 4.1 Sun: 67° Moon: 141°	2024 sep 16 1h52.4m A24_09122 583 Klotilde UCAC4 555–003565 Diam = 86.0 m = 12.4 m = 14.4  Dur = 10.7s Dmag = 2.2 Sun: 139° Moon: 69°	2024 sep 16 4h14.0m A24_09172 1036 Ganymed TYC 3584–00961–1 Diam = 41.0 m = 10.8 m = 9.7  Dur = 4.7s Dmag = 0.3 Sun: 112° Moon: 71°	2024 sep 16 17h36.4m A24_09174 1036 Ganymed UCAC4 709–073908 Diam = 41.0 m = 12.0 m = 9.7  Dur = 4.6s Dmag = 0.1 Sun: 112° Moon: 70°
2024 sep 17 0h24.5m A24_09055 137 Meliboea UCAC4 490–145158 Diam = 150.0 m = 12.4 m = 11.5  Dur = 13.5s Dmag = 0.4 Sun: 169° Moon: 22°	2024 sep 18 3h19.6m A24_09105 432 Pythia UCAC4 389–001558 Diam = 48.6 m = 12.3 m = 12.3  Dur = 4.9s Dmag = 0.7 Sun: 152° Moon: 27°	2024 sep 18 18h 9.3m A24_09027 43 Ariadne UCAC4 345–111286 Diam = 65.3 m = 12.5 m = 11.7  Dur = 3.1s Dmag = 0.4 Sun: 89° Moon: 100°	2024 sep 19 0h16.0m A24_09176 1036 Ganymed PPMX 2544121 Diam = 41.0 m = 12.3 m = 9.6  Dur = 4.3s Dmag = 0.1 Sun: 113° Moon: 68°
2024 sep 19 22h 3.2m A24_09216 1574 Meyer TYC 5142–02659–1 Diam = 64.2 m = 10.8 m = 16.4  Dur = 12.7s Dmag = 5.6 Sun: 113° Moon: 91°	2024 sep 20 4h 0.5m A24_09120 578 Hoppelia UCAC4 588–022487 Diam = 71.6 m = 12.4 m = 15.0  Dur = 5.0s Dmag = 2.6 Sun: 88° Moon: 62°	2024 sep 20 23h44.9m A24_09179 1036 Ganymed UCAC4 700–081982 Diam = 41.0 m = 11.2 m = 9.6  Dur = 4.0s Dmag = 0.2 Sun: 114° Moon: 74°	2024 sep 21 19h20.0m A24_09112 471 Papagena TYC 7392–00281–1 Diam = 127.0 m = 10.4 m = 11.9  Dur = 10.5s Dmag = 1.7 Sun: 94° Moon: 137°

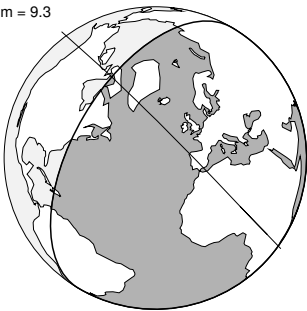
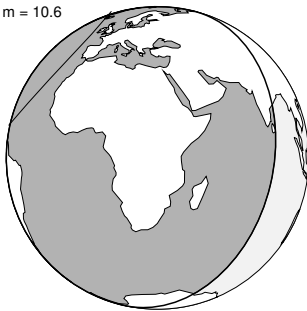
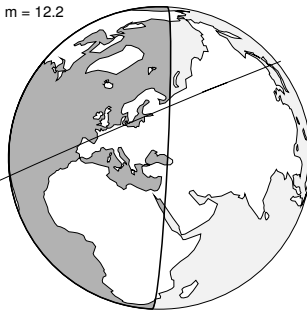
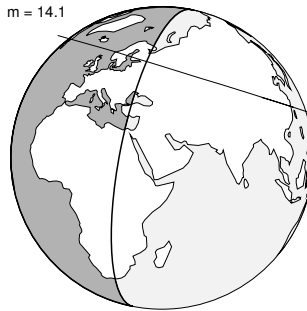
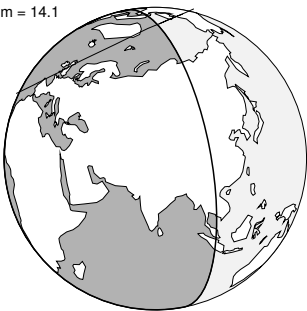
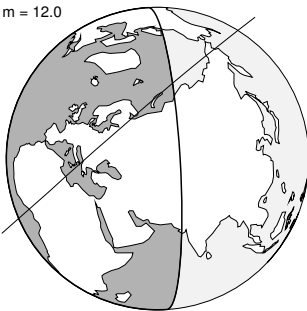
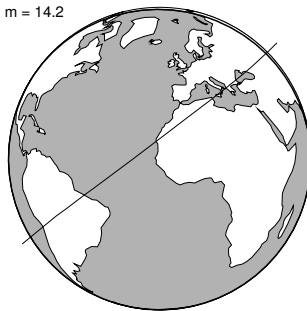
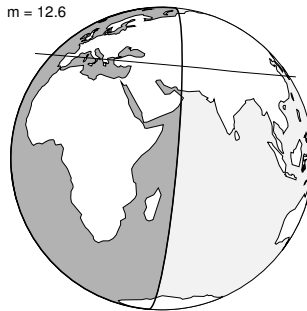
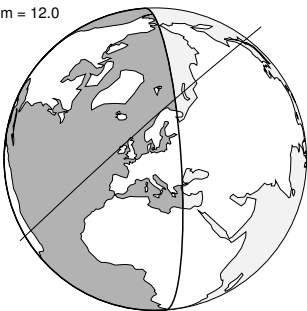
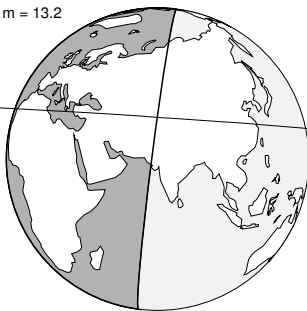
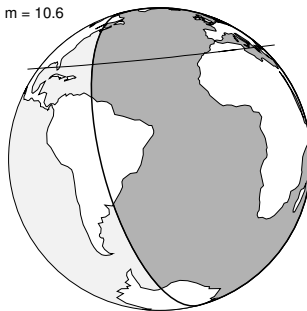
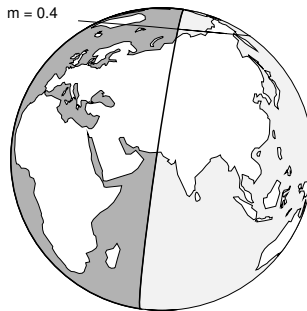
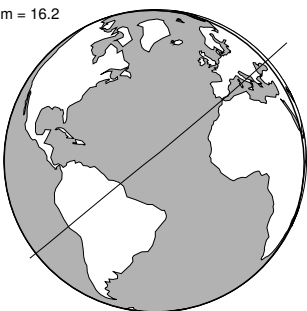
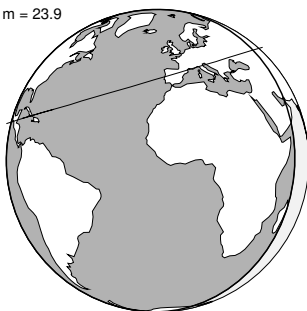
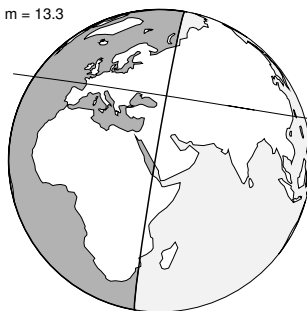
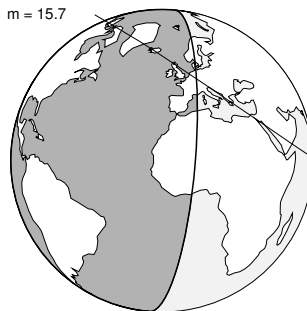
Occultations by major and minor planets – 2024

Region 3

2024 sep 22 3h10.2m B24_09005 2000AF255 UCAC4 694–049224 Diam = 275.4 m = 15.0 m = 22.9  Dur = 11.7s Dmag = 7.9 Sun: 61° Moon: 68°	2024 sep 23 4h58.0m B24_09004 525258 2004VT75 UCAC4 565–006355 Diam = 222.8 m = 14.1 m = 22.6  Dur = 14.7s Dmag = 8.5 Sun: 129° Moon: 20°	2024 sep 23 22h41.7m A24_09181 1036 Ganymed TYC 3579–01661–1 Diam = 41.0 m = 10.0 m = 9.5  Dur = 3.7s Dmag = 0.5 Sun: 116° Moon: 89°	2024 sep 24 4h55.8m A24_09208 1303 Luthera PPMX 5024845 Diam = 88.8 m = 12.4 m = 15.0  Dur = 5.1s Dmag = 2.7 Sun: 87° Moon: 11°
2024 sep 24 5h 7.1m A24_09042 88 Thisbe TYC 1897–01419–1 Diam = 232.0 m = 11.1 m = 12.8  Dur = 12.5s Dmag = 1.9 Sun: 81° Moon: 16°	2024 sep 25 3h34.0m A24_09229 2015VX166 UCAC4 554–007447 Diam = 87.1 m = 12.5 m = 25.3  Dur = 7.0s Dmag = 12.8 Sun: 123° Moon: 38°	2024 sep 25 20h15.3m A24_09184 1036 Ganymed UCAC4 687–091081 Diam = 41.0 m = 12.5 m = 9.4  Dur = 3.5s Dmag = 0.1 Sun: 118° Moon: 101°	2024 sep 26 2h38.1m A24_09137 691 Lehigh UCAC4 549–025342 Diam = 92.6 m = 11.9 m = 14.5  Dur = 5.4s Dmag = 2.8 Sun: 88° Moon: 17°
2024 sep 26 18h19.3m A24_09143 737 Arequipa TYC 5756–01913–1 Diam = 46.3 m = 11.2 m = 11.8  Dur = 5.7s Dmag = 1.1 Sun: 126° Moon: 159°	2024 sep 27 16h35.2m A24_09203 1213 Algeria UCAC5 383–133098 Diam = 43.2 m = 12.5 m = 16.2  Dur = 4.6s Dmag = 3.8 Sun: 102° Moon: 155°	2024 sep 28 0h57.2m A24_09187 1036 Ganymed PPMX 2585755 Diam = 41.0 m = 12.2 m = 9.4  Dur = 3.3s Dmag = 0.1 Sun: 120° Moon: 113°	2024 sep 28 1h11.9m A24_09039 77 Frigga TYC 1899–01111–1 Diam = 71.0 m = 9.8 m = 13.3  Dur = 3.2s Dmag = 3.5 Sun: 81° Moon: 30°
2024 sep 28 19h15.7m A24_09192 1036 Ganymed UCAC4 677–096824 Diam = 41.0 m = 12.5 m = 9.4  Dur = 3.3s Dmag = 0.1 Sun: 120° Moon: 117°	2024 sep 28 21h33.2m A24_09227 2013TM227 TYC 0630–00786–1 Diam = 84.3 m = 11.4 m = 23.5  Dur = 4.0s Dmag = 12.2 Sun: 153° Moon: 111°	2024 sep 29 19h37.2m A24_09146 760 Massinga UCAC4 294–192676 Diam = 74.8 m = 11.8 m = 14.1  Dur = 4.4s Dmag = 2.4 Sun: 89° Moon: 122°	2024 sep 29 21h 7.4m A24_09194 1036 Ganymed TYC 3181–03519–1 Diam = 41.0 m = 10.2 m = 9.3  Dur = 3.2s Dmag = 0.4 Sun: 121° Moon: 121°

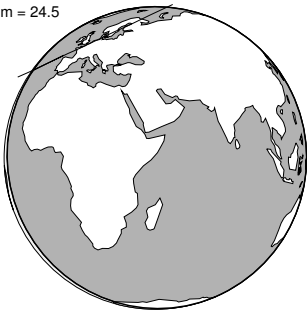
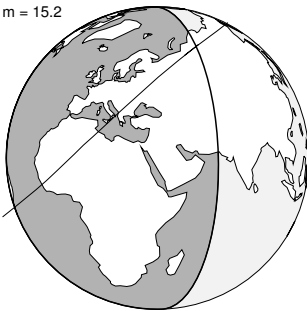
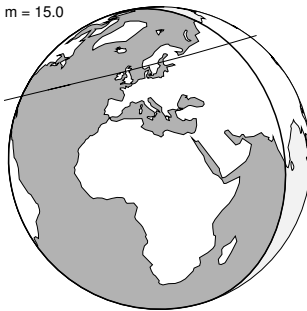
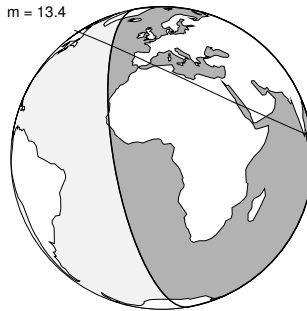
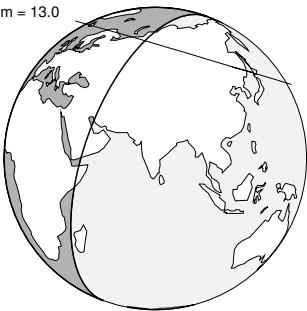
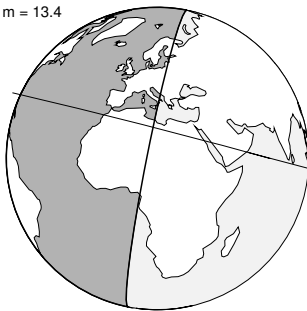
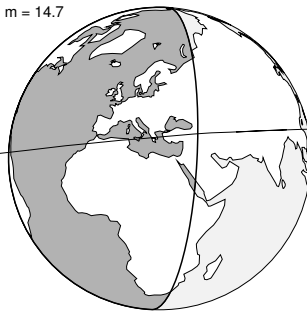
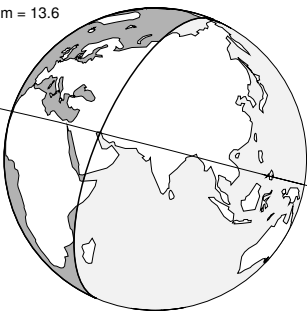
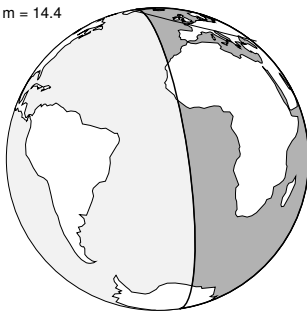
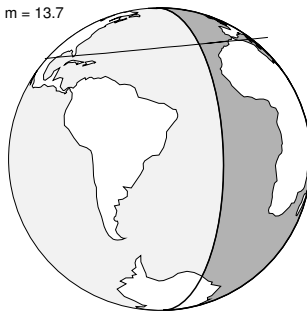
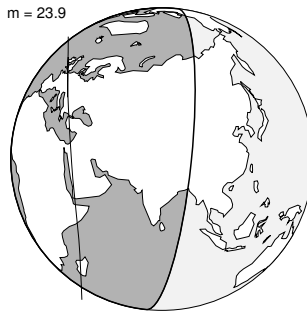
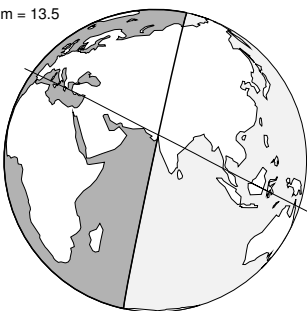
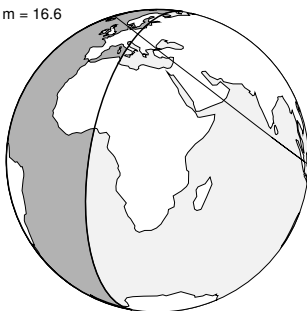
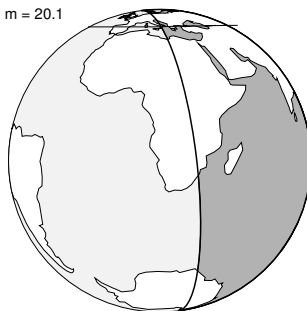
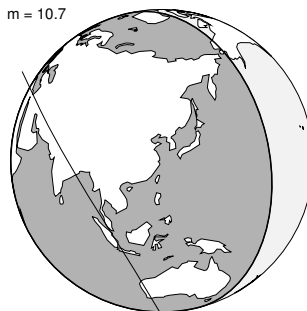
Occultations by major and minor planets – 2024

Region 3

2024 oct 1 22h32.1m A24_10127 1036 Ganymed UCAC5 665–097056 Diam = 41.0 m = 12.5 m = 9.3  Dur = 3.0s Dmag = 0.1 Sun: 123° Moon: 125°	2024 oct 3 0h23.7m A24_10093 511 Davida UCAC4 422–003955 Diam = 337.0 m = 10.6  Dur = 47.3s Dmag = 0.2 Sun: 140° Moon: 142°	2024 oct 3 3h27.7m A24_10018 36 Atalante UCAC4 669–047141 Diam = 109.0 m = 11.6 m = 12.2  Dur = 5.5s Dmag = 1.1 Sun: 92° Moon: 97°	2024 oct 3 3h59.1m A24_10103 639 Latona UCAC4 556–043270 Diam = 74.5 m = 12.3 m = 14.1  Dur = 3.2s Dmag = 2.0 Sun: 73° Moon: 78°
2024 oct 3 22h59.0m A24_10141 1284 Latvia PPMX 3967660 Diam = 40.2 m = 12.2 m = 14.1  Dur = 4.7s Dmag = 2.1 Sun: 111° Moon: 124°	2024 oct 4 1h13.0m A24_10060 247 Eukrate PPMX 2147696 Diam = 137.0 m = 12.2 m = 12.0  Dur = 7.1s Dmag = 0.7 Sun: 98° Moon: 111°	2024 oct 5 1h 3.6m A24_10155 2393 Suzuki TYC 0611–00087–1 Diam = 50.8 m = 11.2 m = 14.2  Dur = 4.7s Dmag = 3.1 Sun: 169° Moon: 162°	2024 oct 5 2h 1.7m A24_10106 679 Pax TYC 4784–02545–1 Diam = 65.5 m = 11.7 m = 12.6  Dur = 5.3s Dmag = 1.3 Sun: 95° Moon: 117°
2024 oct 6 4h17.8m A24_10061 247 Eukrate TYC 3386–00594–1 Diam = 137.0 m = 10.1 m = 12.0  Dur = 7.3s Dmag = 2.1 Sun: 99° Moon: 133°	2024 oct 7 1h20.0m A24_10031 77 Frigga TYC 1900–00144–1 Diam = 71.0 m = 11.0 m = 13.2  Dur = 3.7s Dmag = 2.3 Sun: 87° Moon: 134°	2024 oct 8 21h41.9m A24_10007 16 Psyche HIP 102217 Diam = 264.0 m = 7.3 m = 10.6  Dur = 41.6s Dmag = 3.4 Sun: 112° Moon: 45°	2024 oct 10 1h39.9m P24_10002 Mars TYC 1909–01141–1 Diam = 6759.2 m = 8.9 m = 0.4  Dur = 392.0s Dmag = 0.0 Sun: 87° Moon: 168°
2024 oct 12 3h 4.3m A24_10154 2363 Cebriones TYC 0628–01163–1 Diam = 91.7 m = 10.7 m = 16.2  Dur = 4.7s Dmag = 5.5 Sun: 167° Moon: 85°	2024 oct 13 2h17.0m B24_10013 2016SU55 UCAC4 481–004008 Diam = 108.1 m = 14.3 m = 23.9  Dur = 4.6s Dmag = 9.6 Sun: 155° Moon: 83°	2024 oct 14 3h12.8m A24_10056 240 Vanadis UCAC4 552–040176 Diam = 108.0 m = 11.7 m = 13.3  Dur = 5.7s Dmag = 1.9 Sun: 88° Moon: 138°	2024 oct 14 5h54.1m A24_10074 368 Haidea UCAC4 541–029487 Diam = 74.0 m = 12.1 m = 15.7  Dur = 9.4s Dmag = 3.7 Sun: 102° Moon: 122°

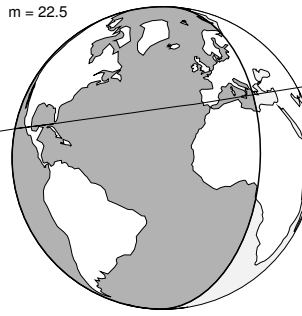
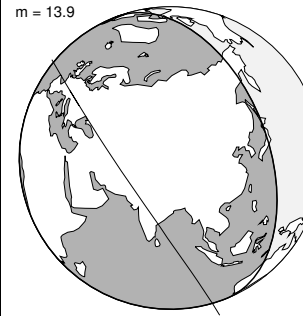
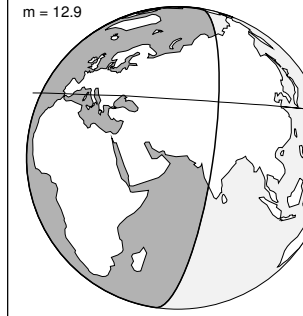
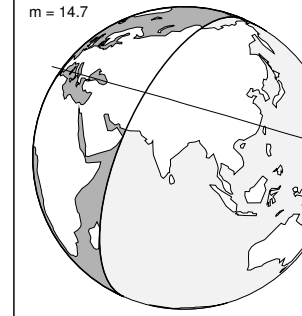
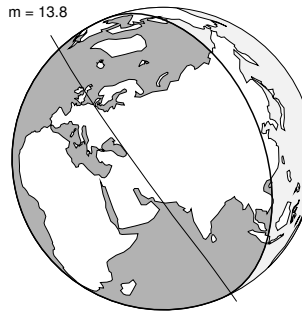
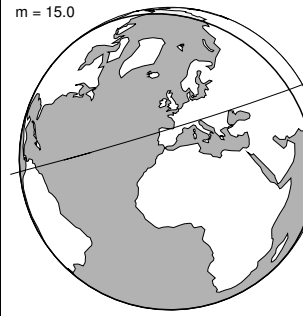
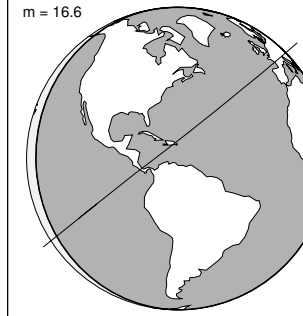
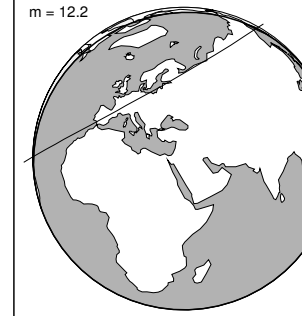
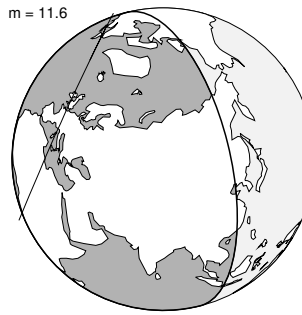
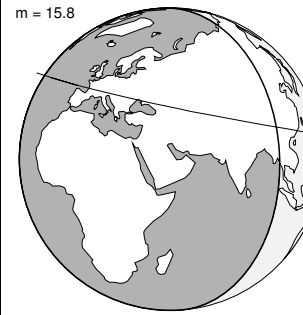
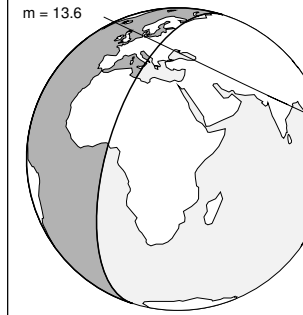
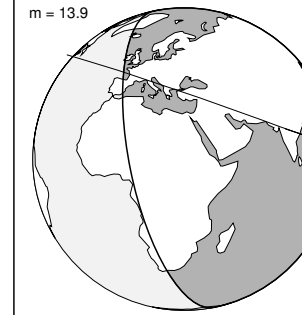
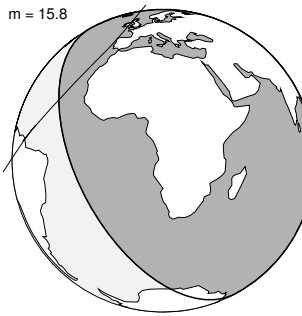
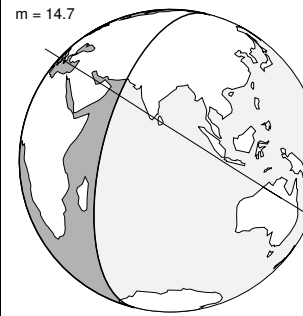
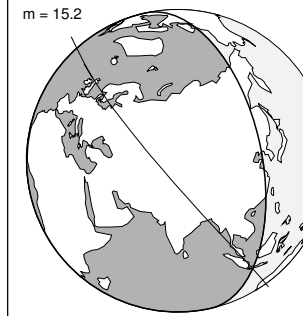
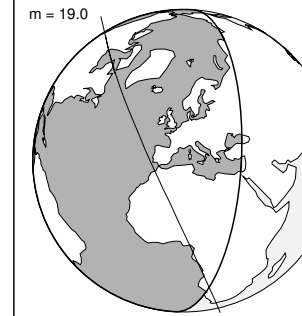
Occultations by major and minor planets – 2024

Region 3

2024 oct 14 19h48.9m B24_10011 2013RV157 UCAC4 465–000744 Diam = 97.3 m = 12.7 m = 24.5  Dur = 4.0s Dmag = 11.8 Sun: 167° Moon: 25°	2024 oct 15 1h37.7m A24_10140 1237 Genevieve TYC 1867–00589–1 Diam = 42.0 m = 10.7 m = 15.2  Dur = 6.9s Dmag = 4.5 Sun: 113° Moon: 100°	2024 oct 16 0h48.4m A24_10081 395 Delia UCAC4 562–007601 Diam = 54.0 m = 11.5 m = 15.0  Dur = 6.5s Dmag = 3.6 Sun: 144° Moon: 56°	2024 oct 16 18h40.0m A24_10063 266 Aline UCAC4 446–131222 Diam = 113.0 m = 12.4 m = 13.4  Dur = 10.9s Dmag = 1.4 Sun: 108° Moon: 62°
2024 oct 17 2h43.3m A24_10012 21 Lutetia TYC 1410–00533–1 Diam = 99.5 m = 10.7 m = 13.0  Dur = 3.4s Dmag = 2.5 Sun: 61° Moon: 123°	2024 oct 17 5h10.0m A24_10027 65 Cybele UCAC4 539–043698 Diam = 230.0 m = 11.6 m = 13.4  Dur = 14.6s Dmag = 1.9 Sun: 85° Moon: 98°	2024 oct 18 3h21.6m A24_10134 1086 Nata UCAC4 603–037394 Diam = 70.5 m = 12.4 m = 14.7  Dur = 8.0s Dmag = 2.4 Sun: 104° Moon: 66°	2024 oct 19 2h37.7m A24_10087 469 Argentina TYC 1409–00100–1 Diam = 129.0 m = 10.2 m = 14.4  Dur = 4.5s Dmag = 4.2 Sun: 67° Moon: 89°
2024 oct 20 2h50.4m A24_10042 127 Johanna UCAC4 559–048298 Diam = 91.2 m = 12.1 m = 13.6  Dur = 3.1s Dmag = 1.7 Sun: 66° Moon: 77°	2024 oct 21 18h27.7m A24_10050 181 Eucharis UCAC4 373–163668 Diam = 107.0 m = 12.4 m = 14.4  Dur = 5.2s Dmag = 2.2 Sun: 78° Moon: 157°	2024 oct 21 19h 1.1m A24_10037 111 Atë UCAC4 328–133848 Diam = 139.0 m = 11.8 m = 13.7  Dur = 4.8s Dmag = 2.1 Sun: 65° Moon: 173°	2024 oct 21 23h57.6m B24_10007 1998WZ31 UCAC4 622–039367 Diam = 95.1 m = 13.9 m = 23.9  Dur = 13.6s Dmag = 10.1 Sun: 101° Moon: 18°
2024 oct 23 1h13.8m A24_10054 233 Asterope UCAC4 517–045712 Diam = 108.0 m = 11.9 m = 13.5  Dur = 6.6s Dmag = 1.8 Sun: 89° Moon: 20°	2024 oct 23 5h35.1m A24_10158 2920 Automedon TYC 4900–01473–1 Diam = 123.0 m = 11.1 m = 16.6  Dur = 4.4s Dmag = 5.6 Sun: 63° Moon: 48°	2024 oct 23 15h59.3m B24_10001 95626 2002GZ32 UCAC5 336–170231 Diam = 152.8 m = 14.9 m = 20.1  Dur = 10.1s Dmag = 5.2 Sun: 75° Moon: 172°	2024 oct 26 18h31.5m A24_10003 13 Egeria TYC 2388–01883–1 Diam = 215.0 m = 10.1 m = 10.7  Dur = 26.6s Dmag = 1.1 Sun: 135° Moon: 73°

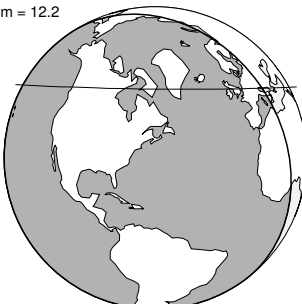
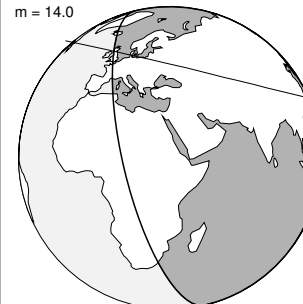
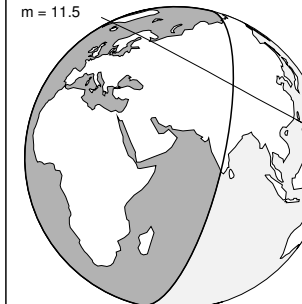
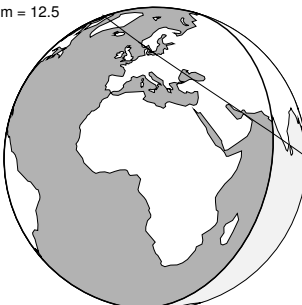
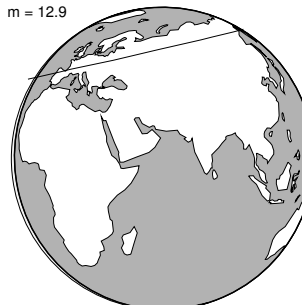
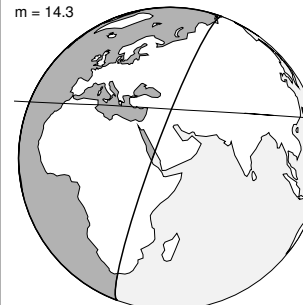
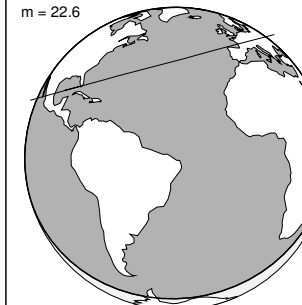
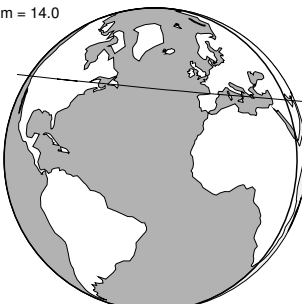
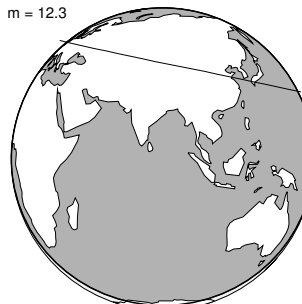
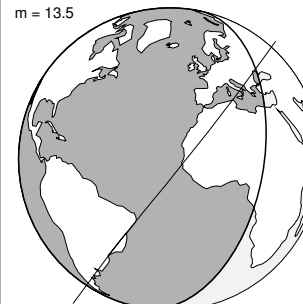
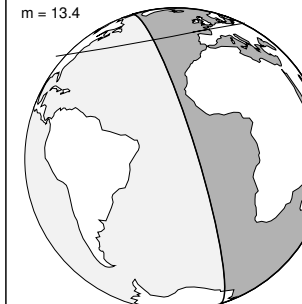
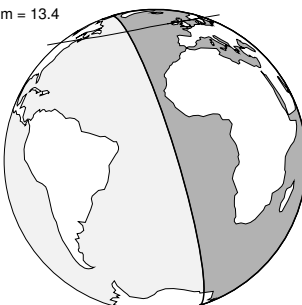
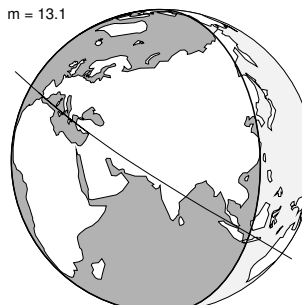
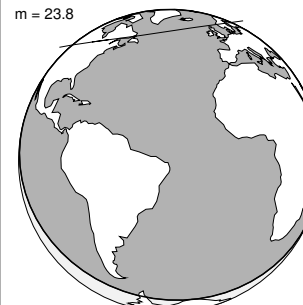
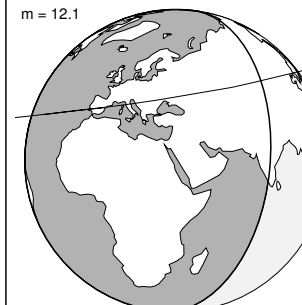
Occultations by major and minor planets – 2024

Region 3

2024 oct 27 5h 4.9m B24_10006 534161 2014RQ63 UCAC4 538–016209 Diam = 141.9 m = 14.9 m = 22.5  Dur = 10.1s Dmag = 7.6 Sun: 129° Moon: 73°	2024 oct 27 21h 7.8m A24_10069 326 Tamara UCAC4 661–034180 Diam = 100.0 m = 12.1 m = 13.9  Dur = 8.0s Dmag = 2.0 Sun: 130° Moon: 83°	2024 oct 28 0h57.5m A24_10033 77 Frigga TYC 1915–01806–1 Diam = 71.0 m = 11.1 m = 12.9  Dur = 6.5s Dmag = 2.0 Sun: 103° Moon: 55°	2024 oct 28 2h 8.3m A24_10073 363 Padua UCAC4 531–050250 Diam = 96.0 m = 12.5 m = 14.7  Dur = 3.4s Dmag = 2.4 Sun: 64° Moon: 17°
2024 oct 28 22h41.8m A24_10068 326 Tamara UCAC4 662–033681 Diam = 100.0 m = 12.4 m = 13.8  Dur = 7.9s Dmag = 1.7 Sun: 131° Moon: 95°	2024 oct 29 1h10.9m A24_10147 1456 Saldanha HIP 16161 Diam = 45.5 m = 9.0 m = 15.0  Dur = 4.6s Dmag = 6.0 Sun: 154° Moon: 119°	2024 oct 29 2h53.1m A24_10151 2223 Sarpedon UCAC4 516–001406 Diam = 105.0 m = 12.4 m = 16.6  Dur = 6.4s Dmag = 4.1 Sun: 159° Moon: 161°	2024 nov 2 20h40.3m A24_11092 500 Selinur TYC 2309–00043–1 Diam = 45.1 m = 11.6 m = 12.2  Dur = 4.8s Dmag = 1.1 Sun: 163° Moon: 161°
2024 nov 2 22h30.6m A24_11061 247 Eukrate TYC 3778–00712–1 Diam = 137.0 m = 11.9 m = 11.6  Dur = 11.4s Dmag = 0.6 Sun: 115° Moon: 130°	2024 nov 2 23h29.2m A24_11153 2376 Martynov TYC 1861–00483–1 Diam = 40.6 m = 12.0 m = 15.8  Dur = 7.3s Dmag = 3.8 Sun: 136° Moon: 152°	2024 nov 3 5h29.8m A24_11072 345 Tercidina TYC 0253–01114–1 Diam = 100.0 m = 11.3 m = 13.6  Dur = 3.1s Dmag = 2.5 Sun: 62° Moon: 80°	2024 nov 3 16h58.4m A24_11086 445 Edna TYC 1134–01358–1 Diam = 89.0 m = 12.3 m = 13.9  Dur = 10.8s Dmag = 1.8 Sun: 111° Moon: 91°
2024 nov 3 19h26.8m A24_11146 1330 Spiridonia TYC 5825–01102–1 Diam = 58.0 m = 10.6 m = 15.8  Dur = 21.4s Dmag = 5.2 Sun: 124° Moon: 99°	2024 nov 5 1h50.5m A24_11104 663 Gerlinde UCAC4 413–053269 Diam = 104.0 m = 12.4 m = 14.7  Dur = 3.2s Dmag = 2.4 Sun: 62° Moon: 99°	2024 nov 5 22h23.4m A24_11114 759 Vinifera UCAC4 682–043798 Diam = 52.7 m = 11.5 m = 15.2  Dur = 9.5s Dmag = 3.8 Sun: 123° Moon: 162°	2024 nov 6 4h15.5m B24_11001 54598 Bienor UCAC4 644–043294 Diam = 134.9 m = 12.8 m = 19.0  Dur = 19.4s Dmag = 6.3 Sun: 112° Moon: 162°

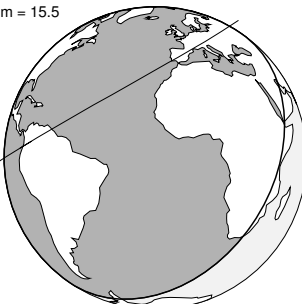
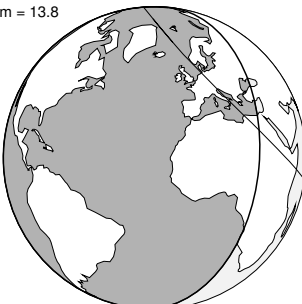
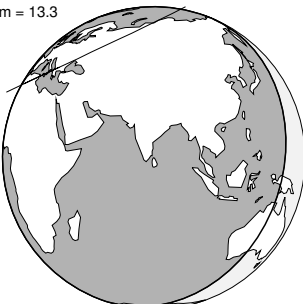
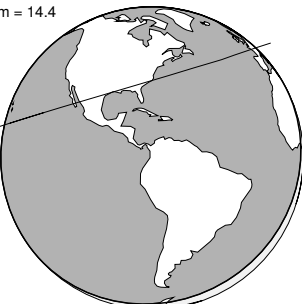
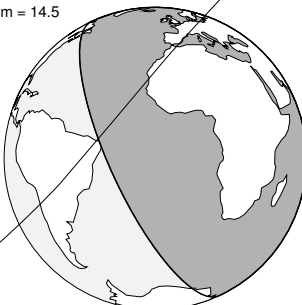
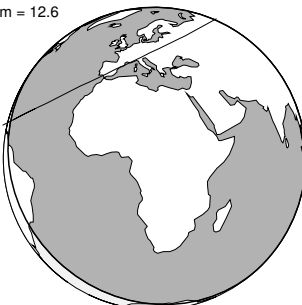
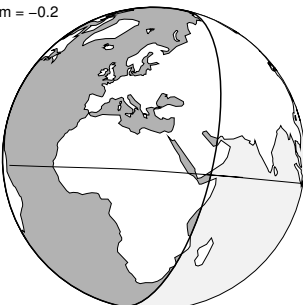
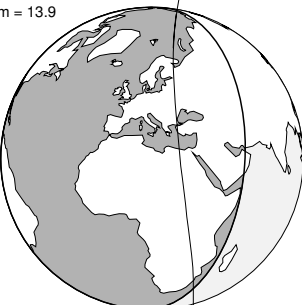
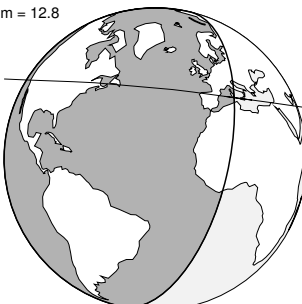
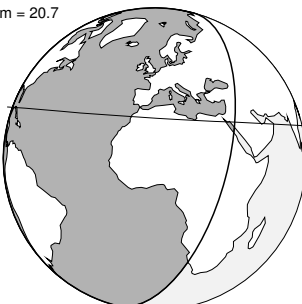
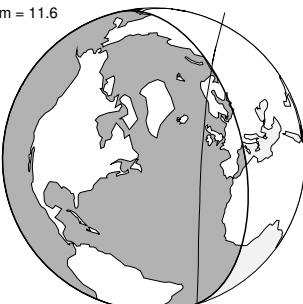
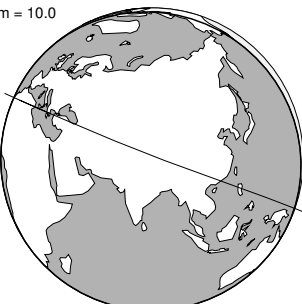
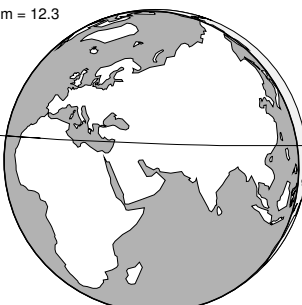
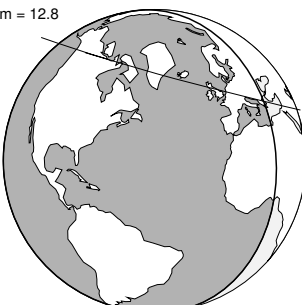
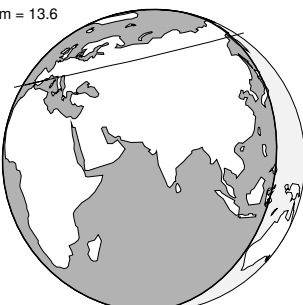
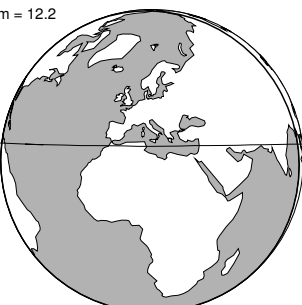
Occultations by major and minor planets – 2024

Region 3

2024 nov 6 5h47.0m A24_11020 54 Alexandra UCAC4 641–018866 Diam = 171.0 m = 11.1 m = 12.2  Dur = 15.4s Dmag = 1.4 Sun: 147° Moon: 154°	2024 nov 6 16h55.6m A24_11159 508338 2015SO20 TYC 1229–00392–1 Diam = 195.9 m = 9.7 m = 21.9  Dur = 8.2s Dmag = 12.2 Sun: 174° Moon: 122°	2024 nov 7 16h21.3m A24_11087 445 Edna TYC 1134–00141–1 Diam = 89.0 m = 10.7 m = 14.0  Dur = 9.2s Dmag = 3.4 Sun: 108° Moon: 48°	2024 nov 9 0h49.0m A24_11024 79 Eurynome UCAC5 525–043665 Diam = 68.0 m = 12.4 m = 11.5  Dur = 7.4s Dmag = 0.4 Sun: 107° Moon: 162°
2024 nov 9 1h25.1m A24_11074 350 Ornamenta UCAC4 505–014562 Diam = 123.0 m = 12.5 m = 12.5  Dur = 15.2s Dmag = 0.8 Sun: 139° Moon: 128°	2024 nov 9 18h53.3m A24_11052 207 Hedda TYC 0636–00903–1 Diam = 60.0 m = 9.1 m = 12.9  Dur = 5.8s Dmag = 3.8 Sun: 167° Moon: 71°	2024 nov 10 3h27.5m A24_11080 412 Elisabetha TYC 1411–00019–1 Diam = 93.0 m = 11.5 m = 14.3  Dur = 4.5s Dmag = 3.0 Sun: 83° Moon: 175°	2024 nov 11 2h26.5m B24_11012 2013RB98 UCAC4 428–004241 Diam = 198.6 m = 13.0 m = 22.6  Dur = 7.9s Dmag = 9.6 Sun: 157° Moon: 65°
2024 nov 12 3h16.0m A24_11102 596 Scheila UCAC4 549–010140 Diam = 117.0 m = 12.0 m = 14.0  Dur = 8.1s Dmag = 2.2 Sun: 159° Moon: 72°	2024 nov 12 17h59.4m A24_11101 593 Titania HIP 14667 Diam = 78.2 m = 10.6 m = 12.3  Dur = 6.8s Dmag = 1.9 Sun: 165° Moon: 41°	2024 nov 13 4h48.4m A24_11125 914 Palisana TYC 1331–01545–1 Diam = 79.0 m = 9.1 m = 13.5  Dur = 7.5s Dmag = 4.4 Sun: 128° Moon: 89°	2024 nov 13 18h48.4m A24_11029 102 Miriam TYC 5778–00676–1 Diam = 86.0 m = 12.2 m = 13.4  Dur = 3.5s Dmag = 1.6 Sun: 81° Moon: 69°
2024 nov 13 18h48.5m A24_11030 102 Miriam UCAC4 386–147566 Diam = 86.0 m = 12.4 m = 13.4  Dur = 3.5s Dmag = 1.4 Sun: 81° Moon: 69°	2024 nov 13 22h24.1m A24_11033 120 Lachesis TYC 2436–00363–1 Diam = 178.0 m = 11.4 m = 13.1  Dur = 38.9s Dmag = 1.9 Sun: 130° Moon: 77°	2024 nov 14 1h36.2m A24_11162 2015QA34 UCAC4 428–003568 Diam = 92.9 m = 11.6 m = 23.8  Dur = 3.9s Dmag = 12.2 Sun: 156° Moon: 25°	2024 nov 15 0h55.4m A24_11027 88 Thisbe UCAC4 568–036502 Diam = 232.0 m = 12.2 m = 12.1  Dur = 53.9s Dmag = 0.7 Sun: 128° Moon: 63°

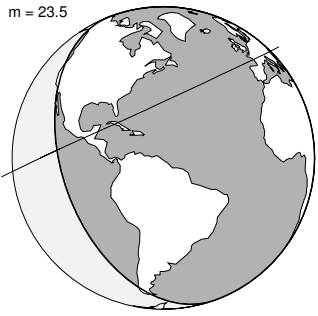
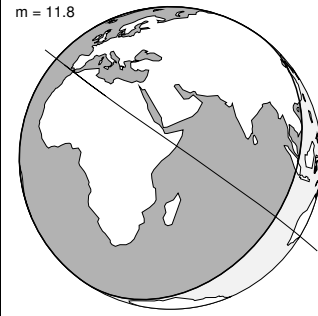
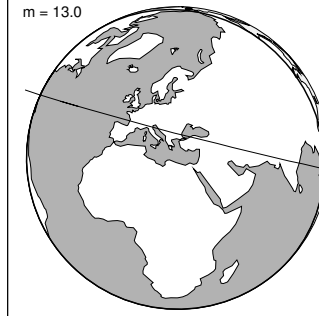
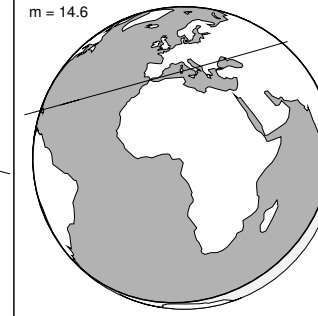
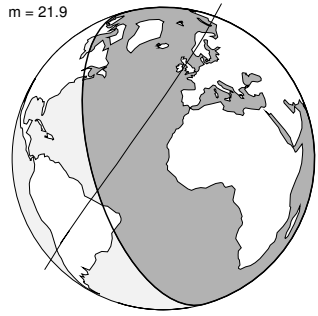
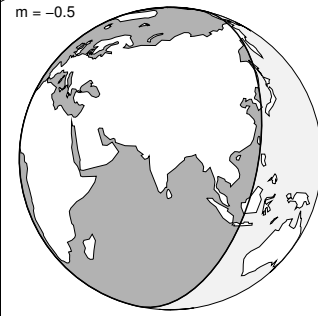
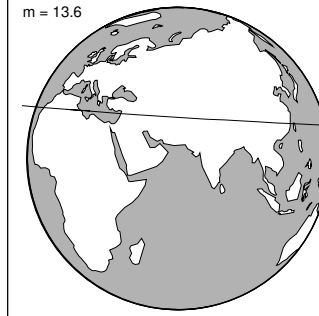
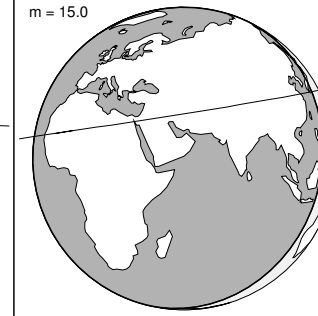
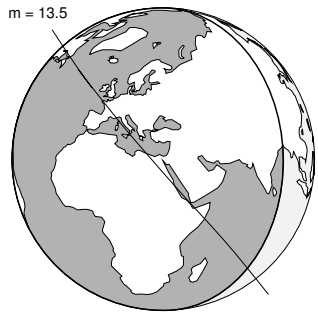
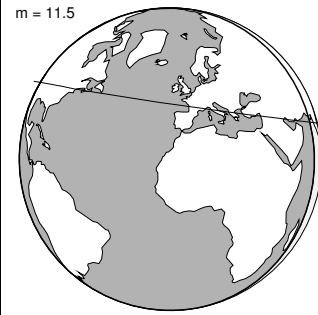
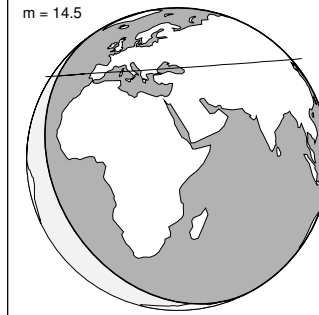
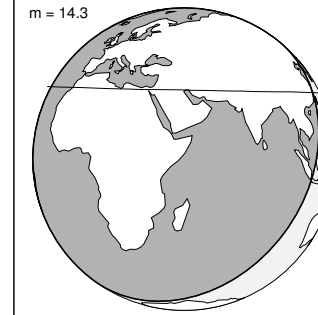
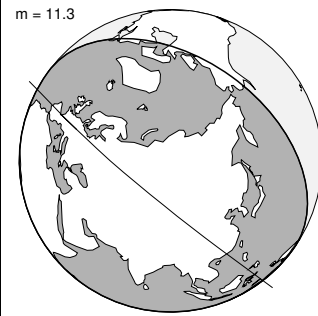
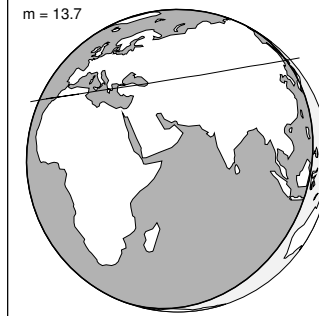
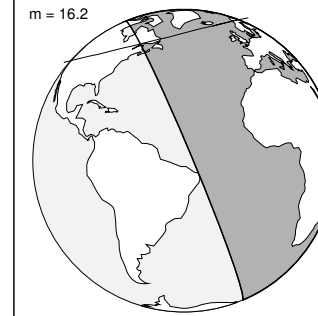
Occultations by major and minor planets – 2024

Region 3

2024 nov 15 3h 4.1m A24_11148 1337 Gerarda UCAC4 436–010542 Diam = 41.0 m = 12.5 m = 15.5  Dur = 4.2s Dmag = 3.1 Sun: 140° Moon: 49°	2024 nov 15 4h35.0m A24_11107 691 Lehigh PPMX 6049406 Diam = 92.6 m = 12.5 m = 13.8  Dur = 16.6s Dmag = 1.6 Sun: 133° Moon: 56°	2024 nov 15 20h26.7m A24_11077 393 Lampetia UCAC4 498–012994 Diam = 106.0 m = 10.0 m = 13.3  Dur = 7.6s Dmag = 3.4 Sun: 148° Moon: 34°	2024 nov 16 5h34.1m A24_11122 903 Nealley UCAC4 470–006212 Diam = 65.7 m = 12.1 m = 14.4  Dur = 5.2s Dmag = 2.4 Sun: 161° Moon: 21°
2024 nov 16 20h14.1m A24_11085 438 Zeuxo TYC 5826–00925–1 Diam = 63.6 m = 9.9 m = 14.5  Dur = 6.5s Dmag = 4.6 Sun: 107° Moon: 86°	2024 nov 16 21h30.4m A24_11036 136 Austria TYC 0042–01382–1 Diam = 41.7 m = 9.6 m = 12.6  Dur = 4.7s Dmag = 3.1 Sun: 158° Moon: 35°	2024 nov 19 2h48.3m P24_11001 Mars TYC 1391–00847–1 Diam = 6759.2 m = 9.2 m = –0.2  Dur = 1172.6s Dmag = 0.0 Sun: 113° Moon: 24°	2024 nov 21 2h35.0m A24_11116 785 Zwetana UCAC4 593–041432 Diam = 52.1 m = 12.3 m = 13.9  Dur = 8.7s Dmag = 1.8 Sun: 127° Moon: 16°
2024 nov 22 6h17.9m A24_11059 240 Vanadis HIP 40202 Diam = 108.0 m = 11.1 m = 12.8  Dur = 27.4s Dmag = 1.9 Sun: 118° Moon: 20°	2024 nov 23 3h60.0m B24_11002 60558 Echeclus UCAC4 531–045449 Diam = 60.3 m = 14.5 m = 20.7  Dur = 6.9s Dmag = 6.2 Sun: 118° Moon: 31°	2024 nov 23 6h36.3m A24_11015 36 Atalante UCAC4 711–047164 Diam = 109.0 m = 11.8 m = 11.6  Dur = 17.6s Dmag = 0.7 Sun: 126° Moon: 51°	2024 nov 23 18h53.7m A24_11005 13 Egeria UCAC4 622–017522 Diam = 215.0 m = 12.5 m = 10.0  Dur = 17.7s Dmag = 0.1 Sun: 163° Moon: 86°
2024 nov 23 21h23.5m A24_11017 47 Aglaja UCAC4 600–018943 Diam = 137.0 m = 11.4 m = 12.3  Dur = 11.1s Dmag = 1.3 Sun: 159° Moon: 80°	2024 nov 26 5h28.3m A24_11034 120 Lachesis TYC 2440–00363–1 Diam = 178.0 m = 10.6 m = 12.8  Dur = 20.5s Dmag = 2.4 Sun: 143° Moon: 89°	2024 nov 27 21h37.4m A24_11083 420 Bertholda TYC 1335–00655–1 Diam = 146.0 m = 11.8 m = 13.6  Dur = 16.5s Dmag = 1.9 Sun: 143° Moon: 106°	2024 nov 27 23h51.2m A24_11019 47 Aglaja UCAC4 600–018148 Diam = 137.0 m = 12.3 m = 12.2  Dur = 10.6s Dmag = 0.7 Sun: 164° Moon: 130°

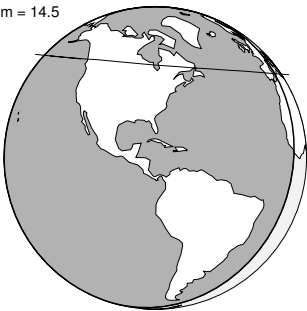
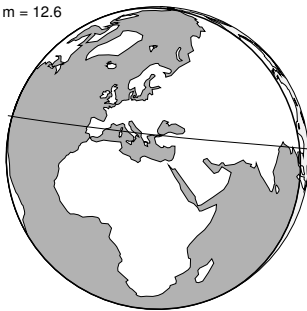
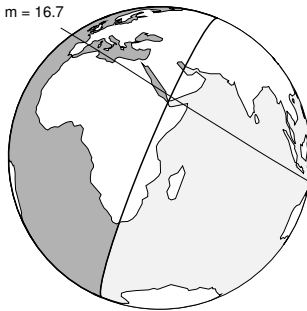
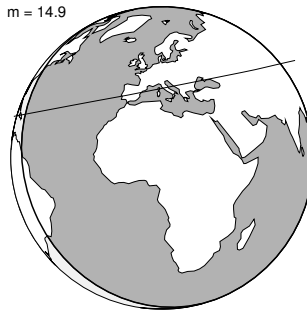
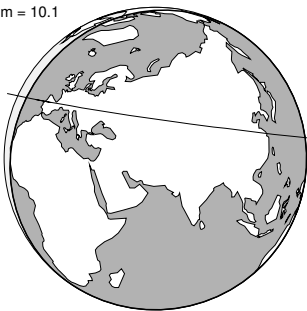
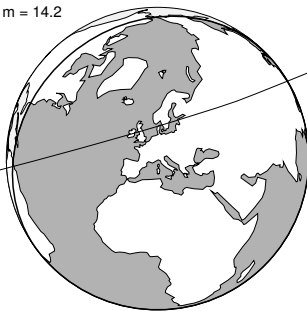
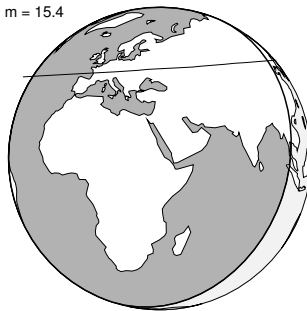
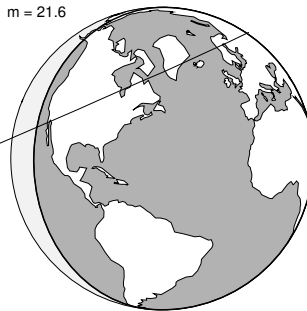
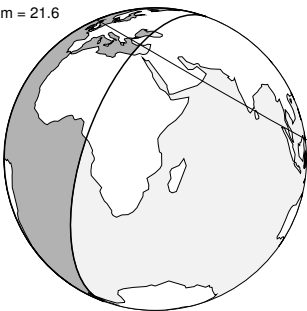
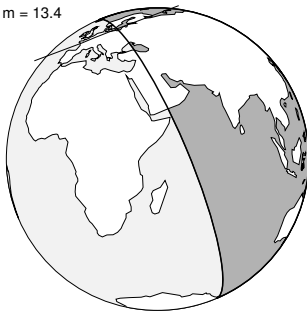
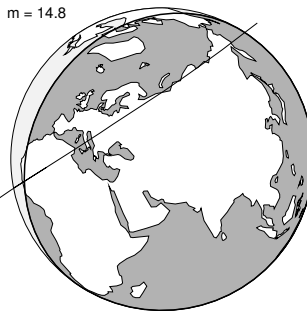
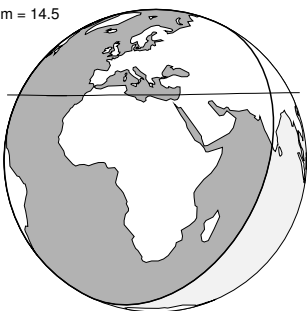
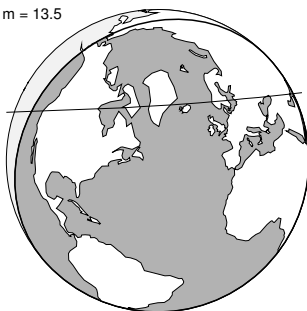
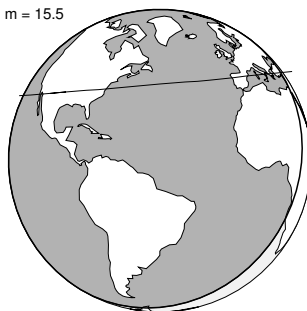
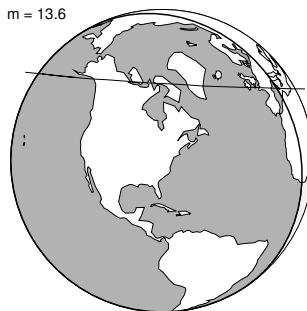
Occultations by major and minor planets – 2024

Region 3

2024 nov 28 0h36.9m B24_11003 385458 2003SP317 UCAC4 499-001466 Diam = 150.0 m = 14.8 m = 23.5  Dur = 9.8s Dmag = 8.7 Sun: 132° Moon: 168°	2024 nov 28 22h51.4m A24_11106 679 Pax UCAC4 456-018947 Diam = 65.5 m = 12.2 m = 11.8  Dur = 7.2s Dmag = 0.6 Sun: 142° Moon: 119°	2024 nov 28 23h 6.5m A24_11094 508 Princetonia PPMX 3979456 Diam = 147.0 m = 12.3 m = 13.0  Dur = 10.7s Dmag = 1.1 Sun: 161° Moon: 139°	2024 nov 29 0h 4.7m A24_11063 256 Walpurga TYC 0108-01440-1 Diam = 66.1 m = 11.6 m = 14.6  Dur = 4.8s Dmag = 3.0 Sun: 158° Moon: 137°
2024 nov 29 20h41.1m B24_11004 470027 2006RC103 PPMX 5786334 Diam = 244.3 m = 12.6 m = 21.9  Dur = 21.7s Dmag = 9.3 Sun: 118° Moon: 135°	2024 dec 2 22h22.3m P24_12001 Mars TYC 1398-00878-1 Diam = 6759.2 m = -0.5 m = 8.9  Dur = 4098.9s Dmag = 0.0 Sun: 125° Moon: 145°	2024 dec 3 19h11.1m A24_12101 596 Scheila UCAC4 551-009098 Diam = 117.0 m = 10.6 m = 13.6  Dur = 7.2s Dmag = 3.1 Sun: 173° Moon: 144°	2024 dec 3 21h51.6m A24_12076 368 Haidea UCAC4 531-025037 Diam = 74.0 m = 15.0 m = 12.5  Dur = 5.5s Dmag = 2.7 Sun: 155° Moon: 166°
2024 dec 5 0h24.0m A24_12129 785 Zwetana TYC 2453-00429-1 Diam = 52.1 m = 11.8 m = 13.5  Dur = 6.1s Dmag = 1.9 Sun: 142° Moon: 172°	2024 dec 5 1h52.7m A24_12035 116 Sirona PPMX 5013997 Diam = 75.5 m = 11.3 m = 11.5  Dur = 7.5s Dmag = 0.9 Sun: 161° Moon: 153°	2024 dec 5 19h12.7m A24_12149 1085 Amariyllis UCAC5 483-003759 Diam = 72.3 m = 12.5 m = 14.5  Dur = 7.6s Dmag = 2.2 Sun: 146° Moon: 92°	2024 dec 5 22h36.4m A24_12137 909 Ulla PPMX 8114833 Diam = 120.0 m = 12.5 m = 14.3  Dur = 10.7s Dmag = 2.0 Sun: 145° Moon: 144°
2024 dec 6 2h51.5m A24_12095 513 Centesima UCAC4 476-004159 Diam = 52.5 m = 11.9 m = 14.0  Dur = 7.5s Dmag = 2.3 Sun: 145° Moon: 88°	2024 dec 6 19h40.0m A24_12061 247 Eukrate TYC 4109-00182-1 Diam = 137.0 m = 10.5 m = 11.3  Dur = 17.4s Dmag = 1.2 Sun: 133° Moon: 124°	2024 dec 6 21h58.0m A24_12051 204 Kallisto TYC 0755-00148-1 Diam = 50.8 m = 11.3 m = 13.7  Dur = 4.2s Dmag = 2.5 Sun: 150° Moon: 138°	2024 dec 7 20h22.0m A24_12153 1173 Anchises TYC 5234-00930-1 Diam = 135.0 m = 12.3 m = 16.2  Dur = 8.1s Dmag = 3.9 Sun: 86° Moon: 11°

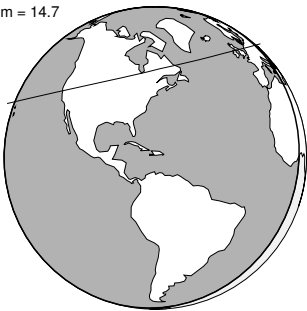
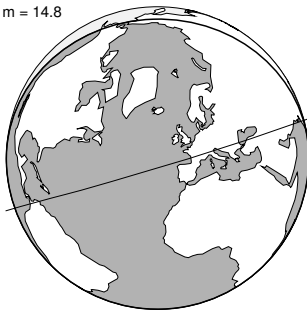
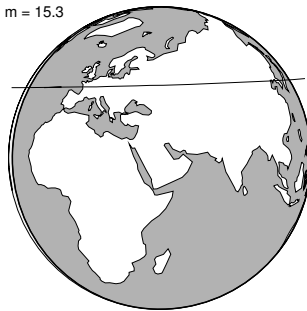
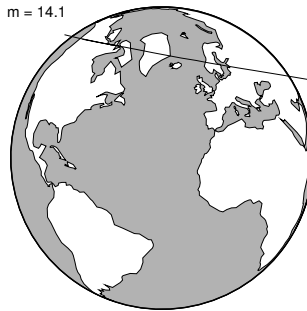
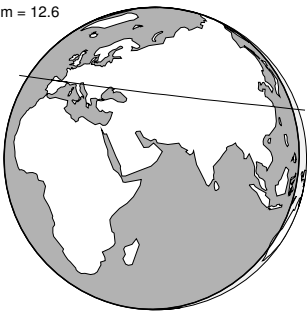
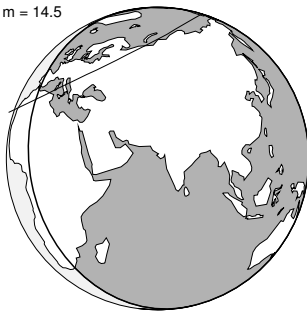
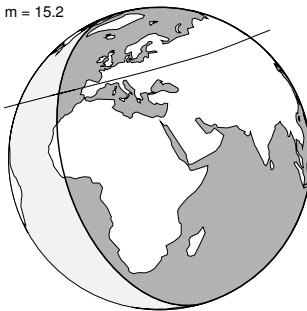
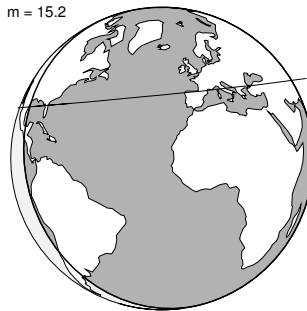
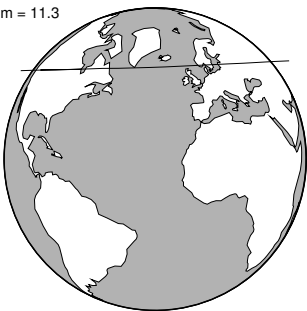
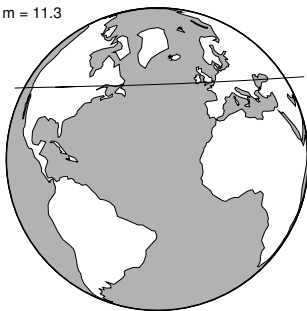
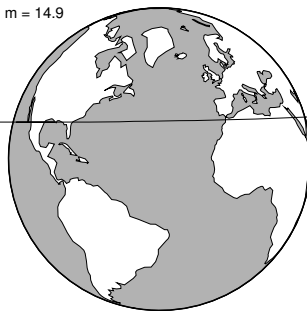
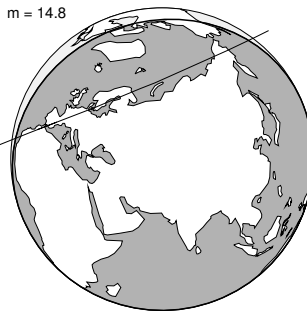
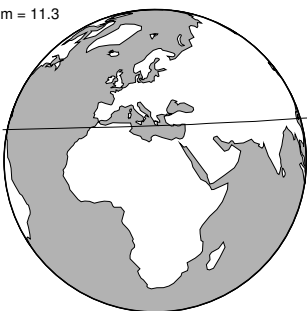
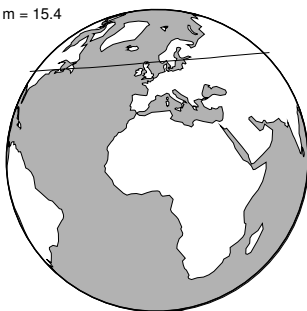
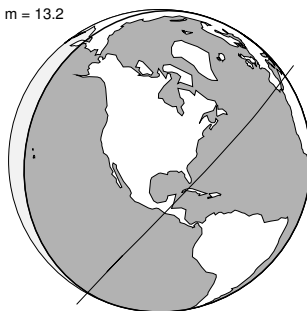
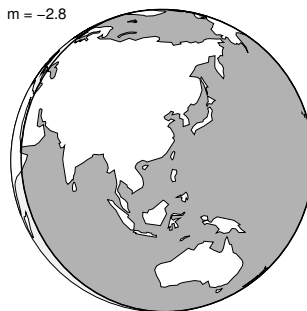
Occultations by major and minor planets – 2024

Region 3

2024 dec 8 6h58.9m A24_12105 627 Charis TYC 1330–02287–1 Diam = 51.0 m = 12.1 m = 14.5  Dur = 4.5s Dmag = 2.5 Sun: 154° Moon: 118°	2024 dec 10 23h25.4m A24_12039 120 Lachesis TYC 2426–00530–1 Diam = 178.0 m = 12.2 m = 12.6  Dur = 14.3s Dmag = 0.9 Sun: 159° Moon: 78°	2024 dec 11 3h19.9m A24_12141 921 Jovita UCAC4 404–052207 Diam = 60.5 m = 12.3 m = 16.7  Dur = 3.3s Dmag = 4.5 Sun: 84° Moon: 151°	2024 dec 11 21h35.9m A24_12131 834 Burnhamia TYC 0663–00051–1 Diam = 69.2 m = 11.4 m = 14.9  Dur = 5.1s Dmag = 3.6 Sun: 156° Moon: 25°
2024 dec 13 18h34.1m A24_12003 13 Egeria TYC 2383–01493–1 Diam = 215.0 m = 11.1 m = 10.1  Dur = 19.4s Dmag = 0.3 Sun: 160° Moon: 13°	2024 dec 13 22h 8.5m A24_12092 493 Griseldis TYC 2890–00613–1 Diam = 52.0 m = 11.7 m = 14.2  Dur = 5.3s Dmag = 2.6 Sun: 153° Moon: 20°	2024 dec 13 23h32.7m A24_12158 1328 Devota PPMX 7104218 Diam = 59.6 m = 12.3 m = 15.4  Dur = 6.0s Dmag = 3.1 Sun: 147° Moon: 51°	2024 dec 14 1h12.2m B24_12005 523750 2014US224 UCAC4 596–007950 Diam = 434.5 m = 14.9 m = 21.6  Dur = 19.9s Dmag = 6.6 Sun: 147° Moon: 14°
2024 dec 14 5h 5.0m B24_12006 523784 2015BJ518 UCAC4 387–059903 Diam = 92.9 m = 14.2 m = 21.6  Dur = 4.4s Dmag = 7.4 Sun: 61° Moon: 134°	2024 dec 15 14h 6.3m A24_12097 554 Peraga UCAC4 429–118180 Diam = 98.5 m = 12.3 m = 13.4  Dur = 4.1s Dmag = 1.4 Sun: 78° Moon: 104°	2024 dec 15 16h51.0m A24_12019 41 Daphne UCAC4 453–005479 Diam = 182.0 m = 11.7 m = 12.5  Dur = 13.1s Dmag = 1.2 Sun: 147° Moon: 39°	2024 dec 15 18h22.9m A24_12156 1266 Tone UCAC4 663–019776 Diam = 76.0 m = 10.9 m = 14.8  Dur = 5.5s Dmag = 3.9 Sun: 150° Moon: 30°
2024 dec 16 1h 9.9m A24_12066 339 Dorothea UCAC4 489–047699 Diam = 43.7 m = 11.0 m = 14.5  Dur = 6.0s Dmag = 3.5 Sun: 136° Moon: 38°	2024 dec 16 1h30.5m A24_12065 326 Tamara UCAC4 684–026737 Diam = 100.0 m = 10.9 m = 13.5  Dur = 7.2s Dmag = 2.7 Sun: 151° Moon: 30°	2024 dec 16 4h36.7m A24_12162 1408 Trusanda TYC 0753–02001–1 Diam = 41.0 m = 10.8 m = 15.5  Dur = 3.6s Dmag = 4.7 Sun: 155° Moon: 20°	2024 dec 16 6h51.9m A24_12119 709 Fringilla UCAC4 649–042978 Diam = 99.6 m = 11.6 m = 13.6  Dur = 8.0s Dmag = 2.1 Sun: 153° Moon: 15°

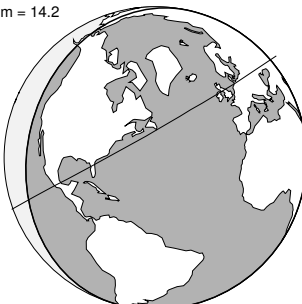
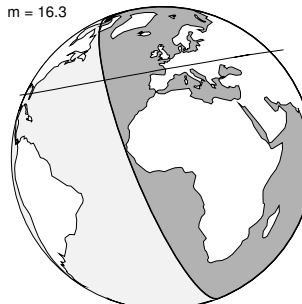
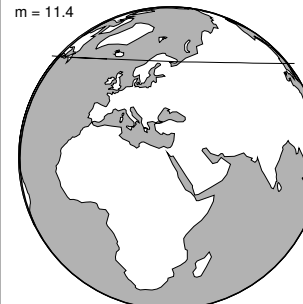
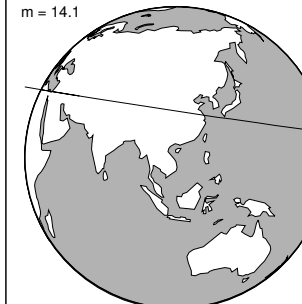
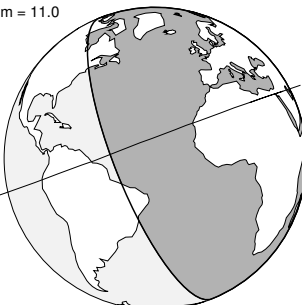
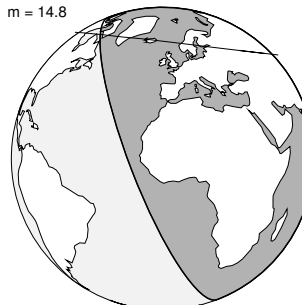
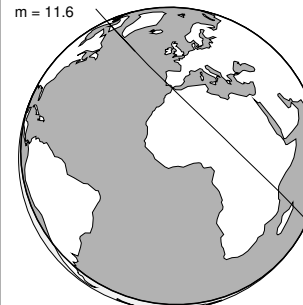
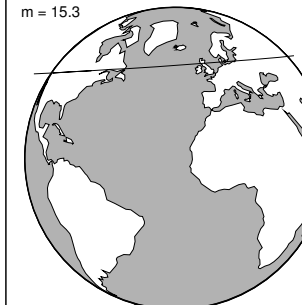
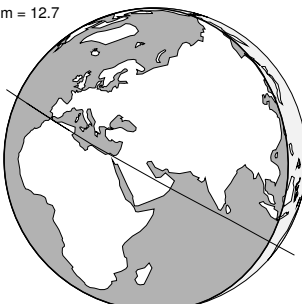
Occultations by major and minor planets – 2024

Region 3

2024 dec 18 6h 2.4m A24_12152 1149 Volga UCAC4 537–037561 Diam = 57.3 m = 12.0 m = 14.7  Dur = 4.7s Dmag = 2.8 Sun: 160° Moon: 20°	2024 dec 20 1h12.4m A24_12126 759 Vinifera UCAC4 685–039879 Diam = 52.7 m = 12.2 m = 14.8  Dur = 3.6s Dmag = 2.7 Sun: 156° Moon: 60°	2024 dec 20 19h57.6m A24_12171 2376 Martynov UCAC4 573–013555 Diam = 40.6 m = 12.5 m = 15.3  Dur = 3.3s Dmag = 3.0 Sun: 167° Moon: 80°	2024 dec 21 2h13.8m A24_12161 1356 Nyanza UCAC4 589–026787 Diam = 67.2 m = 12.3 m = 14.1  Dur = 5.0s Dmag = 2.0 Sun: 175° Moon: 68°
2024 dec 21 21h30.4m A24_12041 122 Gerda UCAC5 550–037329 Diam = 86.5 m = 12.4 m = 12.6  Dur = 7.3s Dmag = 0.8 Sun: 161° Moon: 60°	2024 dec 23 17h 2.8m A24_12147 1057 Wanda TYC 1260–01437–1 Diam = 49.1 m = 12.0 m = 14.5  Dur = 9.5s Dmag = 2.6 Sun: 147° Moon: 130°	2024 dec 24 18h18.7m A24_12108 656 Beagle TYC 1223–01624–1 Diam = 57.5 m = 11.1 m = 15.2  Dur = 15.9s Dmag = 4.2 Sun: 129° Moon: 160°	2024 dec 24 23h38.4m A24_12123 755 Quintilla TYC 1269–00714–1 Diam = 45.5 m = 9.6 m = 15.2  Dur = 3.6s Dmag = 5.5 Sun: 154° Moon: 137°
2024 dec 25 2h10.7m A24_12029 88 Thisbe TYC 1880–01773–1 Diam = 232.0 m = 10.5 m = 11.3  Dur = 15.9s Dmag = 1.2 Sun: 175° Moon: 109°	2024 dec 25 2h37.3m A24_12028 88 Thisbe UCAC5 566–027311 Diam = 232.0 m = 12.5 m = 11.3  Dur = 15.9s Dmag = 0.3 Sun: 175° Moon: 109°	2024 dec 25 2h50.8m A24_12174 2697 Albina TYC 1879–01891–1 Diam = 54.0 m = 11.7 m = 14.9  Dur = 3.9s Dmag = 3.3 Sun: 176° Moon: 110°	2024 dec 25 18h57.1m A24_12125 759 Vinifera PPMX 2135482 Diam = 52.7 m = 12.4 m = 14.8  Dur = 3.6s Dmag = 2.5 Sun: 155° Moon: 126°
2024 dec 25 22h47.8m A24_12027 88 Thisbe HIP 31268 Diam = 232.0 m = 8.0 m = 11.3  Dur = 15.8s Dmag = 3.3 Sun: 176° Moon: 119°	2024 dec 26 0h 8.0m A24_12169 2307 Garuda UCAC4 540–032116 Diam = 45.1 m = 12.4 m = 15.4  Dur = 3.2s Dmag = 3.0 Sun: 172° Moon: 117°	2024 dec 26 4h19.9m A24_12157 1284 Latvia TYC 2380–01933–1 Diam = 40.2 m = 10.9 m = 13.2  Dur = 5.0s Dmag = 2.5 Sun: 152° Moon: 148°	2024 dec 26 14h41.7m P24_12002 Jupiter TYC 1292–00552–1 Diam = 133542.0 m = 9.6 m = -2.8  Dur = 9643.0s Dmag = 0.0 Sun: 158° Moon: 151°

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Region 3

2024 dec 27 1h19.2m A24_12096 545 Messalina TYC 2370–01910–1 Diam = 115.0 m = 10.0 m = 14.2  Dur = 9.6s Dmag = 4.2 Sun: 147° Moon: 160°	2024 dec 27 18h48.3m A24_12172 2483 Guinevere PPMX 6815745 Diam = 53.3 m = 12.5 m = 16.3  Dur = 4.8s Dmag = 3.8 Sun: 102° Moon: 139°	2024 dec 27 21h12.5m A24_12013 26 Proserpina TYC 1871–02554–1 Diam = 98.7 m = 11.7 m = 11.4  Dur = 7.5s Dmag = 0.6 Sun: 171° Moon: 152°	2024 dec 28 16h40.7m A24_12106 627 Charis UCAC4 533–026511 Diam = 51.0 m = 11.7 m = 14.1  Dur = 3.7s Dmag = 2.5 Sun: 173° Moon: 152°
2024 dec 28 21h 5.5m A24_12012 19 Fortuna TYC 0614–01382–1 Diam = 149.0 m = 11.2 m = 11.0  Dur = 12.4s Dmag = 0.6 Sun: 105° Moon: 130°	2024 dec 29 19h 6.9m A24_12100 583 Klotilde TYC 0618–00960–1 Diam = 86.0 m = 12.2 m = 14.8  Dur = 9.6s Dmag = 2.7 Sun: 102° Moon: 117°	2024 dec 29 23h49.0m A24_12115 679 Pax UCAC4 491–016794 Diam = 65.5 m = 12.1 m = 11.6  Dur = 4.7s Dmag = 0.6 Sun: 161° Moon: 160°	2024 dec 30 1h35.2m A24_12170 2307 Garuda TYC 1333–00462–1 Diam = 45.1 m = 11.6 m = 15.3  Dur = 3.2s Dmag = 3.8 Sun: 174° Moon: 165°
2024 dec 30 22h41.2m A24_12074 362 Havnja Gaia 122–0074262 Diam = 66.1 m = 12.3 m = 12.7  Dur = 7.4s Dmag = 1.0 Sun: 151° Moon: 153°			