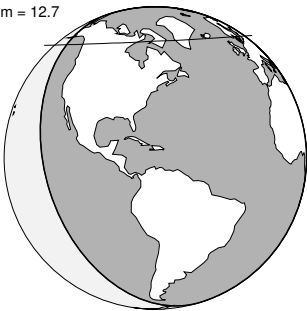
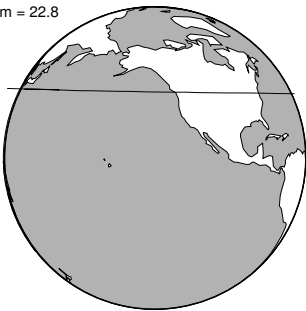
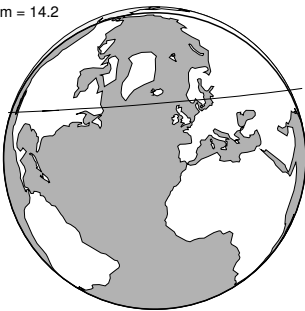
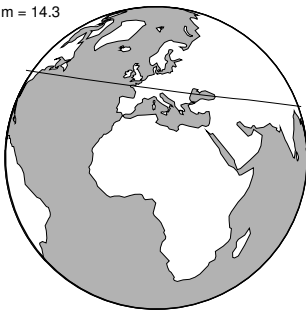
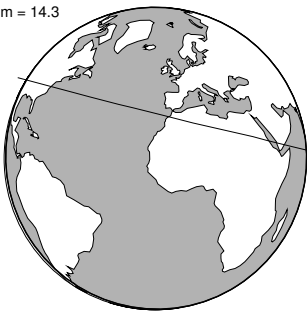
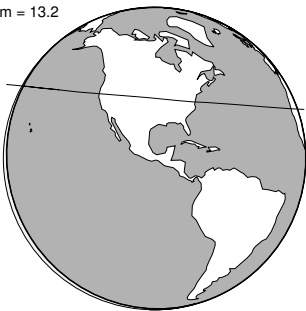
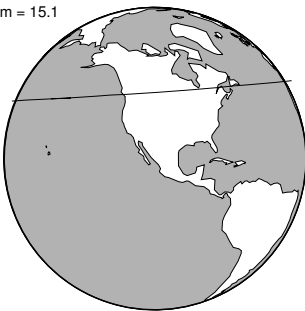
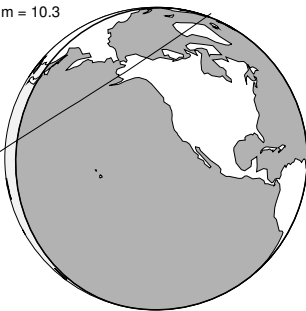
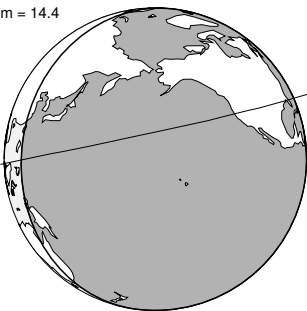
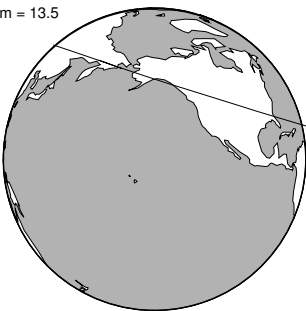
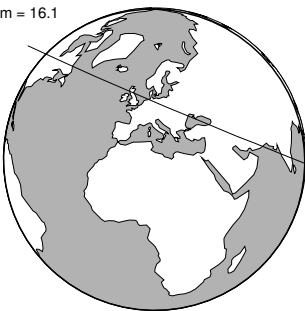
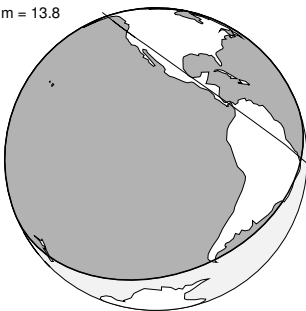
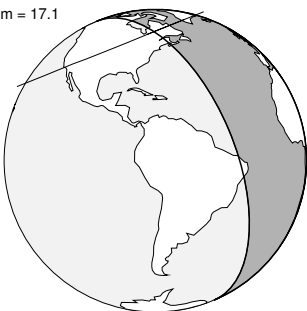
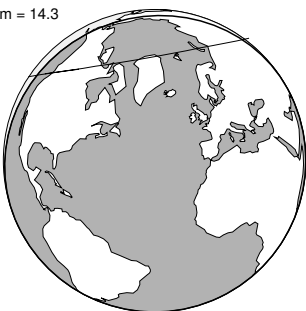
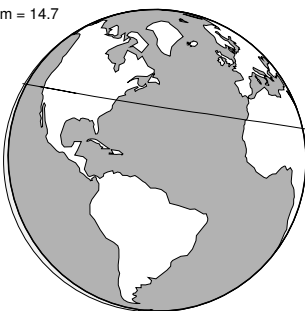
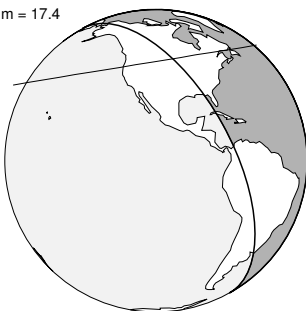


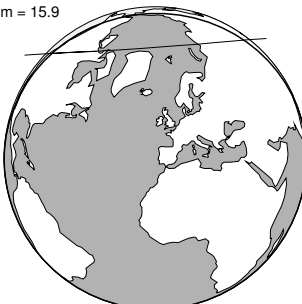
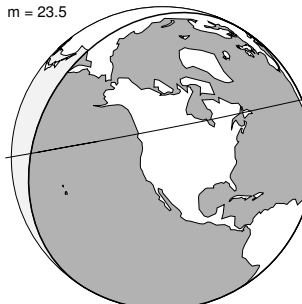
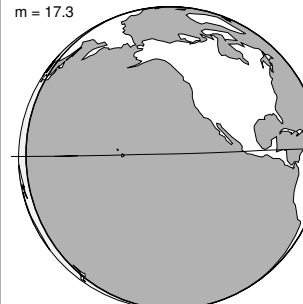
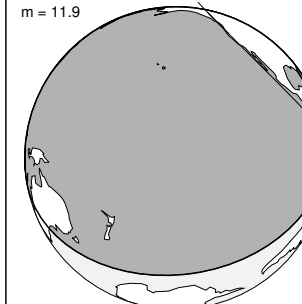
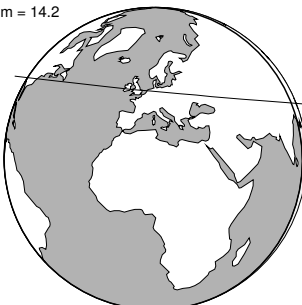
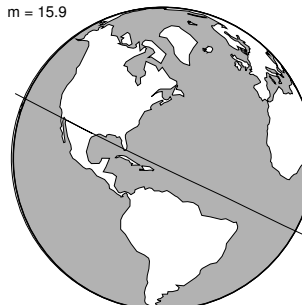
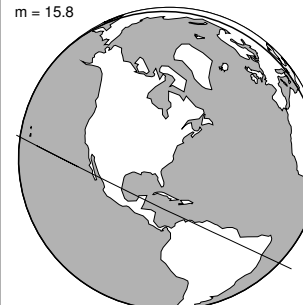
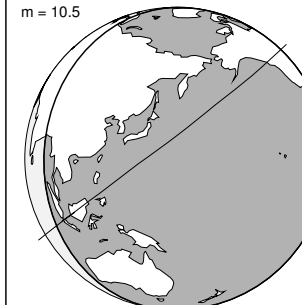
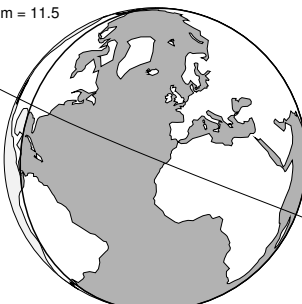
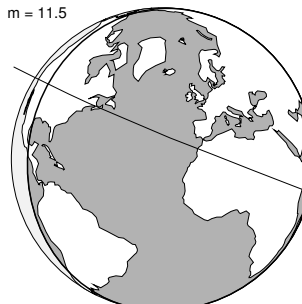
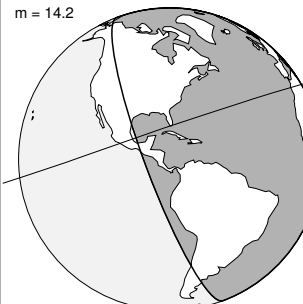
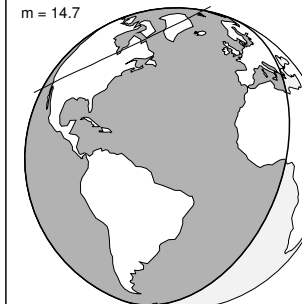
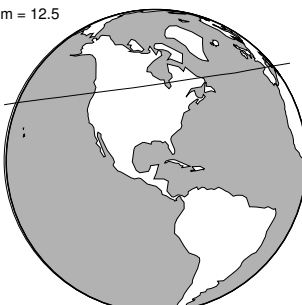
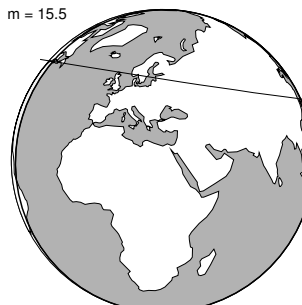
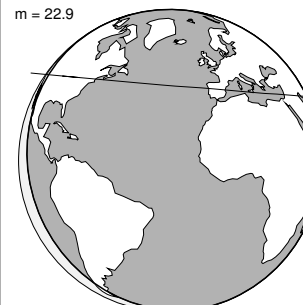
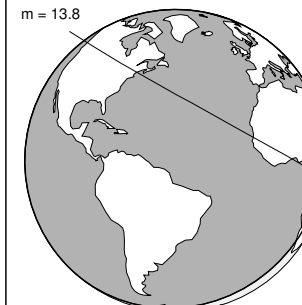
Occultations by major and minor planets – 2024

Region 1

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 1 8h39.3m B24_01006 183595 2003TG58 UCAC4 568–025118 Diam = 201.4 m = 14.6 m = 22.8  Dur = 8.0s Dmag = 8.2 Sun: 172° Moon: 67°	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 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 0h24.4m A24_01067 527 Euryanthe PPMX 6029893 Diam = 55.2 m = 12.5 m = 14.3  Dur = 3.9s Dmag = 2.0 Sun: 170° Moon: 97°	2024 jan 4 5h34.7m A24_01015 125 Liberatrix TYC 1313–00067–1 Diam = 47.5 m = 11.7 m = 13.2  Dur = 3.6s Dmag = 1.8 Sun: 166° Moon: 103°	2024 jan 4 6h52.1m A24_01127 1280 Baillauda UCAC4 577–030453 Diam = 55.3 m = 12.1 m = 15.1  Dur = 3.9s Dmag = 3.0 Sun: 174° Moon: 97°	2024 jan 4 7h20.2m A24_01096 704 Interamnia TYC 1859–01456–1 Diam = 333.0 m = 11.0 m = 10.3  Dur = 26.9s Dmag = 0.4 Sun: 157° Moon: 113°
2024 jan 5 9h17.4m A24_01041 231 Vindobona UCAC4 599–015761 Diam = 85.1 m = 12.3 m = 14.4  Dur = 6.9s Dmag = 2.2 Sun: 152° Moon: 130°	2024 jan 5 9h52.6m A24_01038 199 Byblis TYC 1906–00669–1 Diam = 63.0 m = 10.9 m = 13.5  Dur = 3.7s Dmag = 2.7 Sun: 174° Moon: 105°	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 8h18.7m A24_01123 1263 Varsavia UCAC4 376–045686 Diam = 50.7 m = 11.8 m = 13.8  Dur = 5.2s Dmag = 2.2 Sun: 139° Moon: 91°
2024 jan 7 20h50.0m A24_01150 2674 Pandarus HIP 113926 Diam = 102.0 m = 8.3 m = 17.1  Dur = 3.6s Dmag = 8.8 Sun: 58° Moon: 105°	2024 jan 8 1h45.6m A24_01080 591 Irmgard TYC 2928–00499–1 Diam = 54.7 m = 11.2 m = 14.3  Dur = 4.5s Dmag = 3.1 Sun: 161° Moon: 143°	2024 jan 8 2h46.3m A24_01140 1731 Smuts TYC 1314–00548–1 Diam = 56.2 m = 12.3 m = 14.7  Dur = 4.3s Dmag = 2.5 Sun: 164° Moon: 148°	2024 jan 8 22h54.6m A24_01146 2223 Sarpedon TYC 0572–01036–1 Diam = 105.0 m = 10.6 m = 17.4  Dur = 3.6s Dmag = 6.8 Sun: 59° Moon: 94°

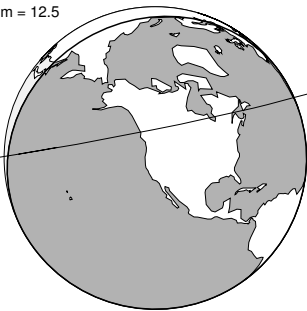
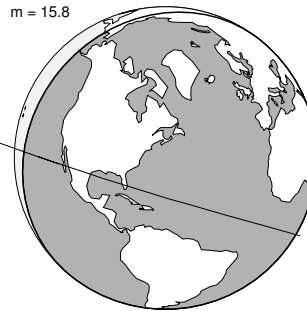
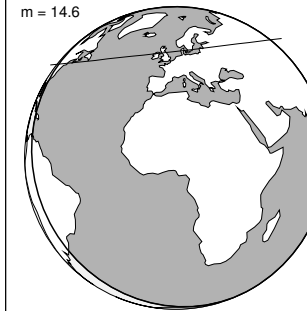
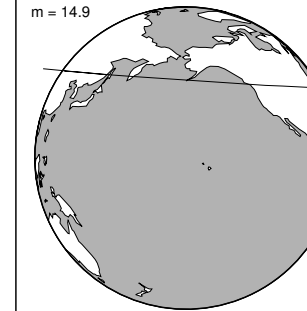
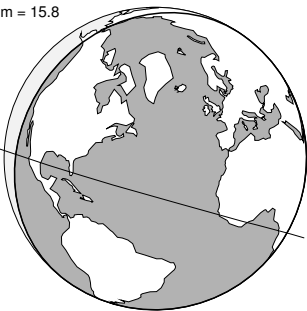
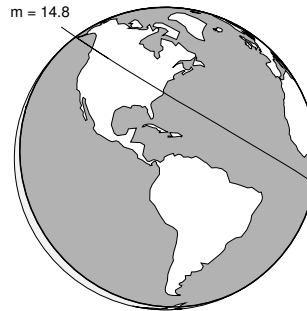
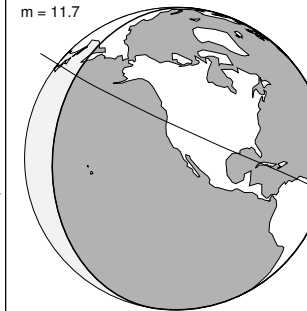
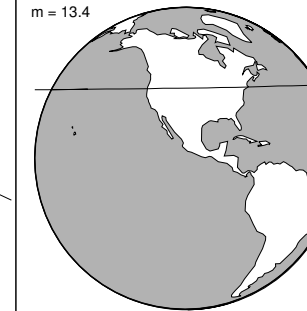
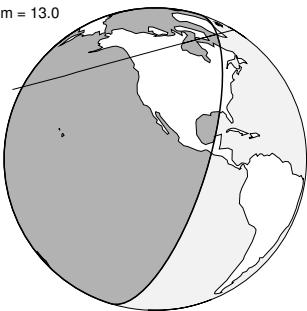
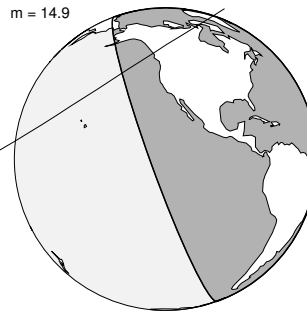
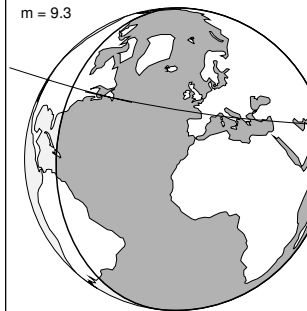
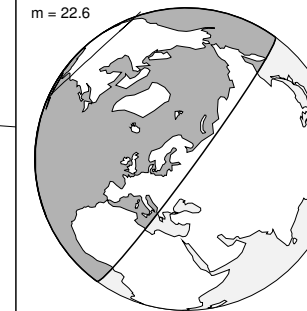
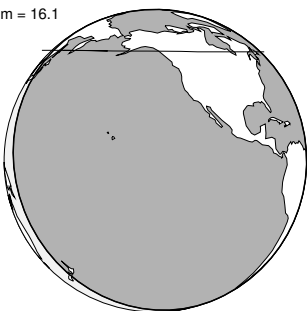
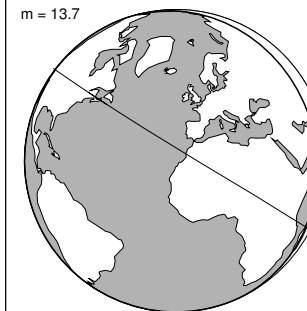
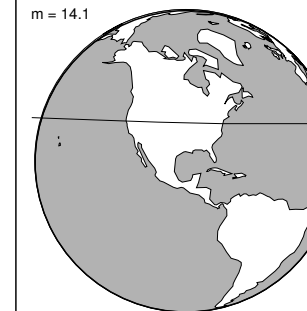
Occultations by major and minor planets – 2024

Region 1

2024 jan 9 0h42.9m A24_01129 1404 Ajax UCAC4 648–043507 Diam = 92.0 m = 11.9 m = 15.9  Dur = 5.3s Dmag = 4.0 Sun: 162° Moon: 149°	2024 jan 9 5h38.2m B24_01004 181855 1998WT31 UCAC5 667–034466 Diam = 120.2 m = 14.9 m = 23.5  Dur = 5.4s Dmag = 8.6 Sun: 147° Moon: 164°	2024 jan 9 7h54.0m A24_01136 1647 Menelaus TYC 1321–01434–1 Diam = 72.0 m = 9.8 m = 17.3  Dur = 4.5s Dmag = 7.6 Sun: 161° Moon: 166°	2024 jan 9 10h31.5m A24_01070 582 Olympia TYC 5984–00546–1 Diam = 47.0 m = 11.3 m = 11.9  Dur = 4.5s Dmag = 1.1 Sun: 140° Moon: 124°
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°	2024 jan 10 3h46.5m A24_01158 4833 Meges TYC 1893–01771–1 Diam = 63.1 m = 10.9 m = 15.9  Dur = 3.1s Dmag = 5.1 Sun: 170° Moon: 170°	2024 jan 10 5h57.7m A24_01169 5283 Pyrrhus HIP 39366 Diam = 57.5 m = 8.5 m = 15.8  Dur = 3.5s Dmag = 7.3 Sun: 163° Moon: 155°	2024 jan 10 11h43.0m A24_01097 704 Interamnia TYC 1854–00277–1 Diam = 333.0 m = 10.1 m = 10.5  Dur = 30.0s Dmag = 1.0 Sun: 150° Moon: 165°
2024 jan 10 23h17.7m A24_01102 776 Berbericia TYC 1860–00331–1 Diam = 121.3 m = 8.1 m = 11.5  Dur = 11.9s Dmag = 3.5 Sun: 152° Moon: 161°	2024 jan 10 23h51.9m A24_01101 776 Berbericia UCAC4 600–021679 Diam = 121.3 m = 11.5 m = 11.5  Dur = 11.9s Dmag = 0.8 Sun: 152° Moon: 160°	2024 jan 10 23h53.7m A24_01033 184 Dejopeja UCAC4 512–002658 Diam = 68.2 m = 12.0 m = 14.2  Dur = 6.8s Dmag = 2.4 Sun: 99° Moon: 106°	2024 jan 12 5h56.0m A24_01113 1000 Piazzia TYC 0838–00413–1 Diam = 54.0 m = 10.3 m = 14.7  Dur = 6.9s Dmag = 4.4 Sun: 134° Moon: 145°
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 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 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 15 4h14.5m A24_01104 780 Armenia UCAC4 494–050727 Diam = 97.1 m = 11.9 m = 13.8  Dur = 6.6s Dmag = 2.1 Sun: 162° Moon: 142°

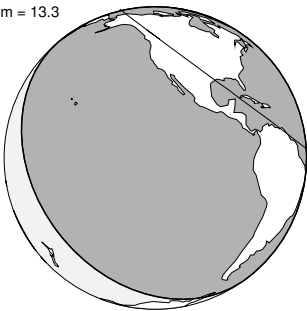
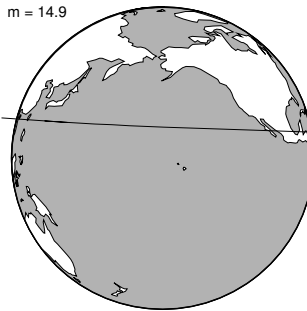
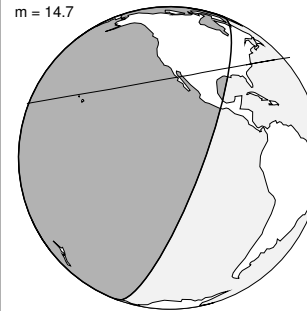
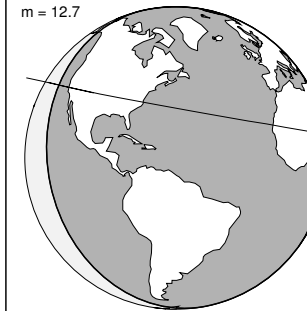
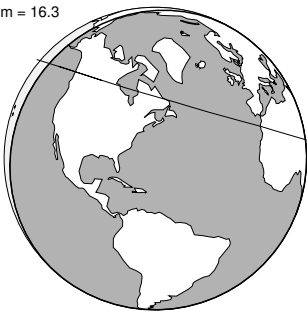
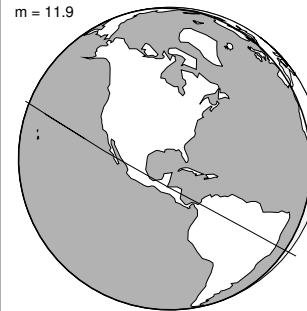
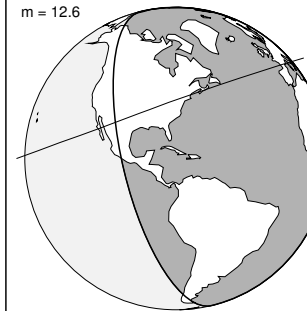
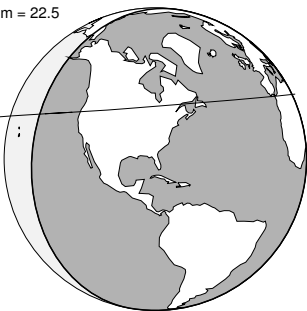
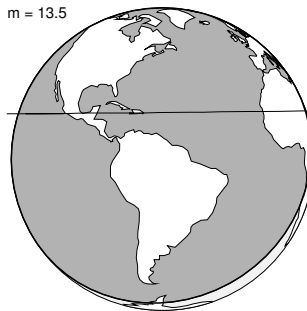
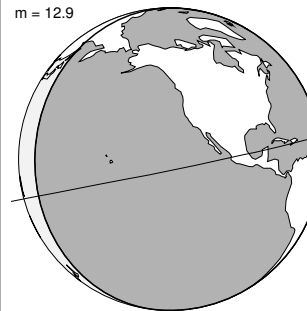
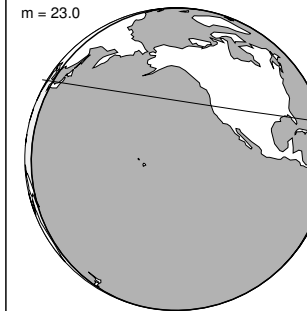
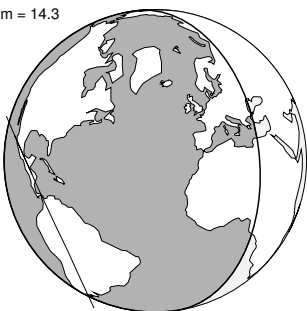
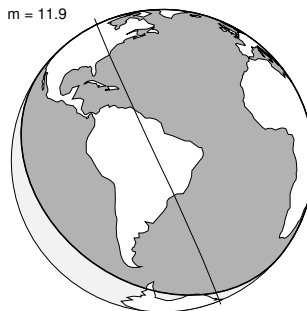
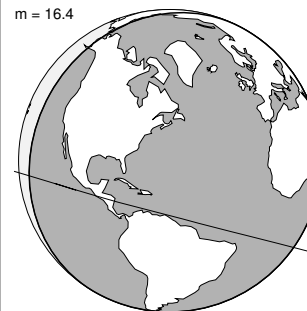
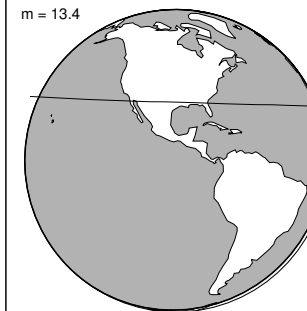
Occultations by major and minor planets – 2024

Region 1

2024 jan 15 7h15.3m A24_01106 804 Hispania UCAC4 664–048928 Diam = 140.6 m = 12.0 m = 12.5  Dur = 10.1s Dmag = 1.0 Sun: 156° Moon: 113°	2024 jan 16 3h 1.7m A24_01162 4834 Thoas UCAC4 644–036867 Diam = 60.3 m = 12.4 m = 15.8  Dur = 3.8s Dmag = 3.4 Sun: 155° Moon: 97°	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 11h29.3m A24_01077 588 Achilles TYC 1927–01883–1 Diam = 147.0 m = 10.4 m = 14.9  Dur = 9.4s Dmag = 4.5 Sun: 174° Moon: 103°
2024 jan 18 1h28.5m A24_01161 4834 Thoas PPMX 3088297 Diam = 60.3 m = 12.3 m = 15.8  Dur = 3.9s Dmag = 3.5 Sun: 153° Moon: 70°	2024 jan 18 4h 4.0m A24_01117 1191 Alfaterna TYC 0751–00456–1 Diam = 45.6 m = 11.9 m = 14.8  Dur = 3.3s Dmag = 3.0 Sun: 160° Moon: 76°	2024 jan 18 5h35.0m A24_01103 776 Berbericia PPMX 3982653 Diam = 121.3 m = 12.4 m = 11.7  Dur = 15.1s Dmag = 0.5 Sun: 144° Moon: 54°	2024 jan 18 7h22.9m A24_01084 607 Jenny TYC 1377–01260–2 Diam = 65.5 m = 9.8 m = 13.4  Dur = 5.0s Dmag = 3.6 Sun: 173° Moon: 93°
2024 jan 18 12h42.8m A24_01055 404 Arsinoë TYC 0888–00525–1 Diam = 101.0 m = 9.6 m = 13.0  Dur = 8.1s Dmag = 3.4 Sun: 110° Moon: 148°	2024 jan 19 2h27.2m A24_01048 307 Nike TYC 0631–01443–1 Diam = 58.0 m = 10.4 m = 14.9  Dur = 3.7s Dmag = 4.5 Sun: 95° Moon: 9°	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 5h59.8m B24_01003 127546 2002XU93 UCAC4 761–045645 Diam = 102.3 m = 14.9 m = 22.6  Dur = 3.8s Dmag = 7.7 Sun: 93° Moon: 87°
2024 jan 23 7h59.9m A24_01174 15436 Dexius TYC 0756–01452–1 Diam = 61.4 m = 11.4 m = 16.1  Dur = 3.9s Dmag = 4.7 Sun: 158° Moon: 18°	2024 jan 24 1h20.7m A24_01081 599 Luisa PPMX 3085842 Diam = 69.6 m = 11.9 m = 13.5  Dur = 6.3s Dmag = 1.8 Sun: 145° Moon: 18°	2024 jan 24 2h35.0m A24_01056 455 Bruchsalia TYC 1966–00379–1 Diam = 87.5 m = 11.4 m = 13.7  Dur = 5.7s Dmag = 2.4 Sun: 158° Moon: 36°	2024 jan 24 6h 7.6m A24_01122 1240 Centenaria UCAC4 583–041638 Diam = 60.5 m = 12.3 m = 14.1  Dur = 4.1s Dmag = 2.0 Sun: 172° Moon: 12°

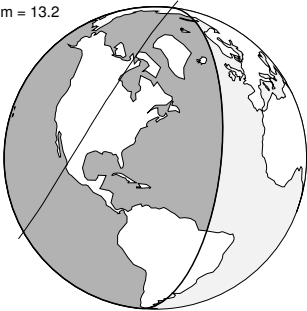
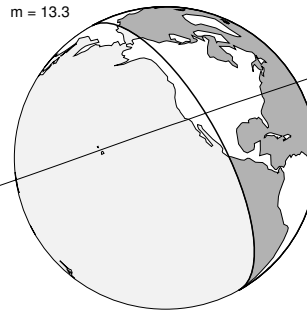
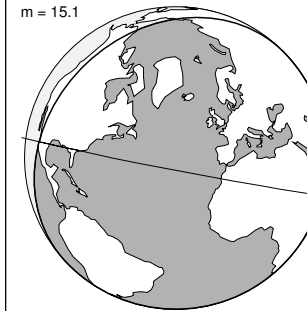
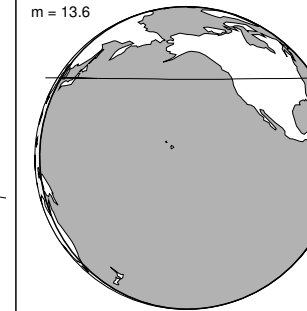
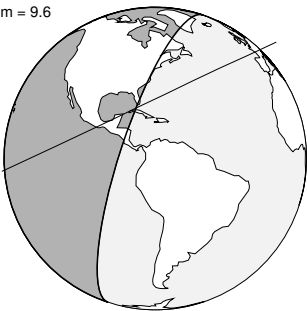
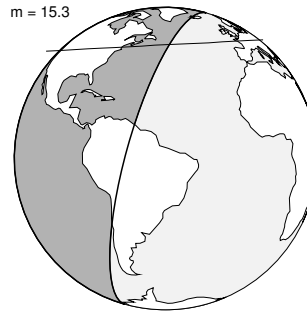
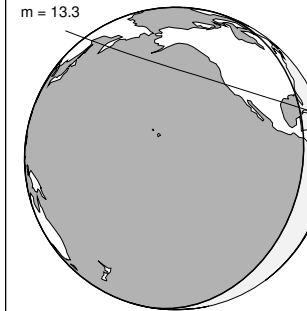
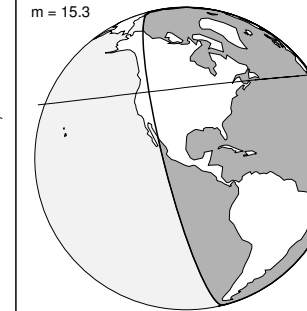
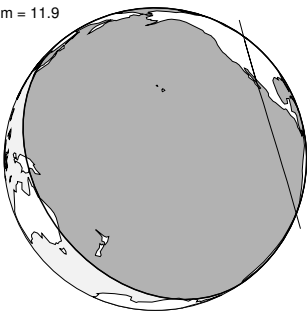
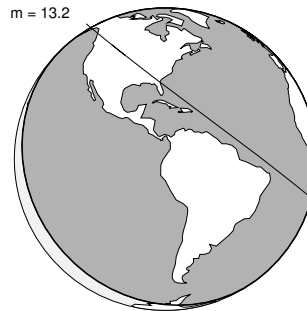
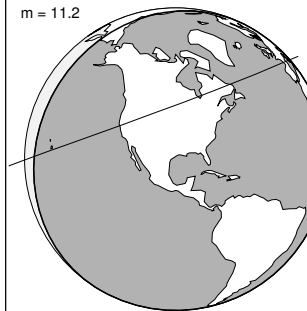
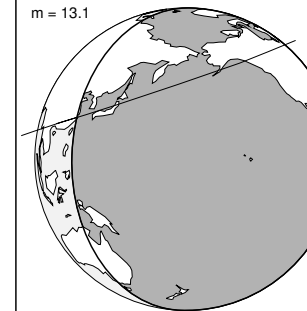
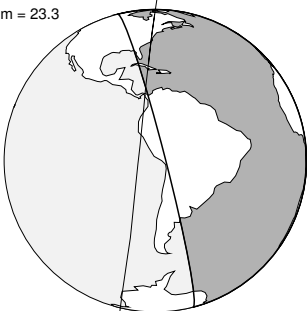
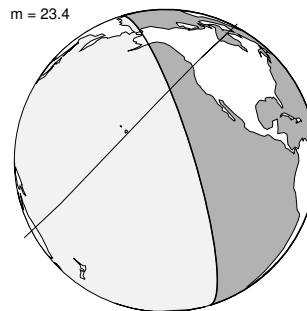
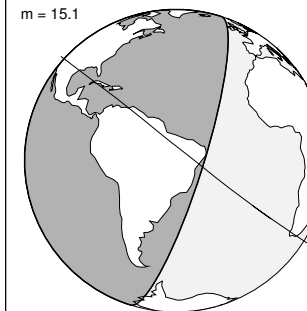
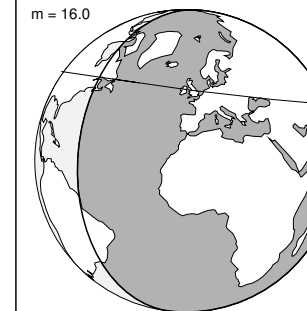
Occultations by major and minor planets – 2024

Region 1

2024 jan 24 6h20.0m A24_01064 491 Carina UCAC4 441–016801 Diam = 101.0 m = 12.4 m = 13.3  Dur = 8.6s Dmag = 1.3 Sun: 144° Moon: 32°	2024 jan 24 10h54.7m A24_01078 588 Achilles TYC 1927–00209–1 Diam = 147.0 m = 11.0 m = 14.9  Dur = 9.4s Dmag = 3.9 Sun: 174° Moon: 10°	2024 jan 24 13h 4.4m A24_01034 191 Kolga UCAC4 434–058140 Diam = 105.0 m = 12.1 m = 14.7  Dur = 10.5s Dmag = 2.6 Sun: 102° Moon: 90°	2024 jan 25 2h 0.6m A24_01011 72 Feronia PPMX 6023763 Diam = 89.3 m = 12.0 m = 12.7  Dur = 10.4s Dmag = 1.2 Sun: 148° Moon: 27°
2024 jan 26 3h23.9m A24_01148 2260 Neoptolemus TYC 2452–00019–1 Diam = 85.0 m = 11.3 m = 16.3  Dur = 5.2s Dmag = 5.0 Sun: 160° Moon: 22°	2024 jan 26 4h28.1m A24_01072 582 Olympia TYC 5404–03791–1 Diam = 47.0 m = 12.2 m = 11.8  Dur = 3.4s Dmag = 0.6 Sun: 145° Moon: 41°	2024 jan 26 7h33.2m A24_01014 118 Peitho UCAC4 585–045276 Diam = 45.7 m = 12.3 m = 11.9  Dur = 5.5s Dmag = 0.6 Sun: 157° Moon: 14°	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 5h 1.1m A24_01093 695 Bella HIP 45846 Diam = 51.2 m = 8.3 m = 13.5  Dur = 3.7s Dmag = 5.1 Sun: 158° Moon: 18°	2024 jan 27 7h 3.5m A24_01061 476 Hedwig UCAC4 563–033225 Diam = 121.0 m = 12.3 m = 12.9  Dur = 11.0s Dmag = 1.1 Sun: 153° Moon: 44°	2024 jan 27 8h31.8m B24_01010 612082 1998WY24 UCAC4 562–041002 Diam = 180.3 m = 14.4 m = 23.0  Dur = 7.4s Dmag = 8.6 Sun: 162° Moon: 35°
2024 jan 29 5h26.2m A24_01025 164 Eva TYC 2529–00227–1 Diam = 110.0 m = 10.9 m = 14.3  Dur = 7.5s Dmag = 3.4 Sun: 133° Moon: 29°	2024 jan 31 2h 8.4m A24_01075 582 Olympia TYC 5400–04302–1 Diam = 47.0 m = 11.5 m = 11.9  Dur = 3.2s Dmag = 0.9 Sun: 144° Moon: 77°	2024 jan 31 2h47.3m A24_01149 2260 Neoptolemus TYC 2451–00977–1 Diam = 85.0 m = 9.7 m = 16.4  Dur = 5.6s Dmag = 6.7 Sun: 155° Moon: 82°	2024 jan 31 7h 9.6m A24_01094 696 Leonora UCAC4 494–052955 Diam = 79.3 m = 11.9 m = 13.4  Dur = 5.6s Dmag = 1.7 Sun: 167° Moon: 50°

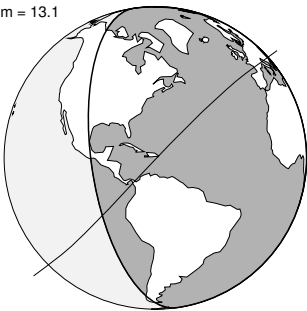
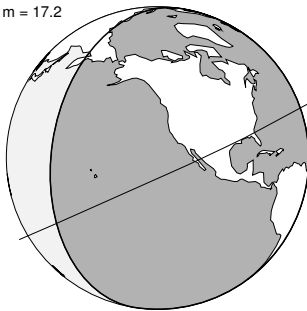
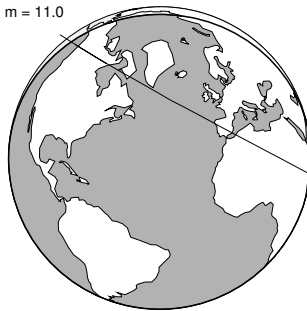
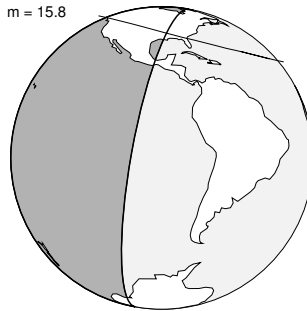
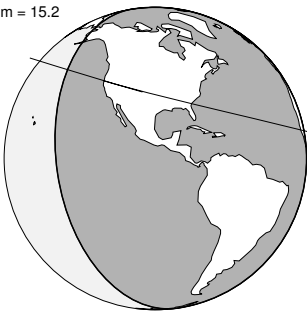
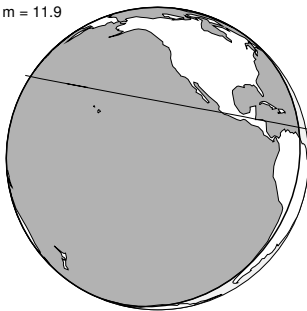
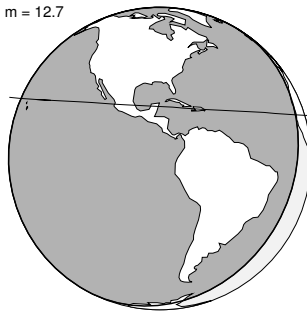
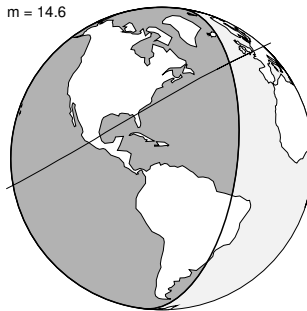
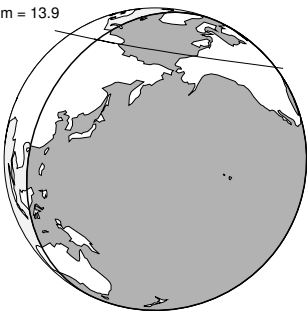
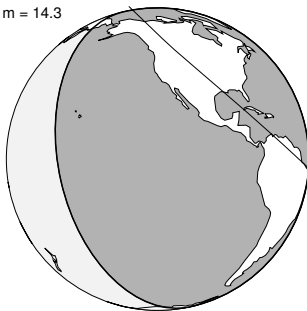
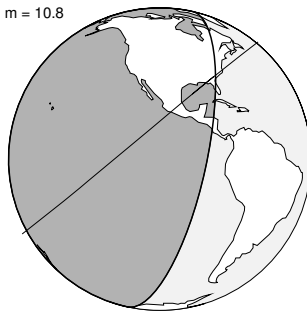
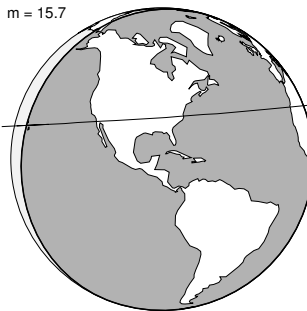
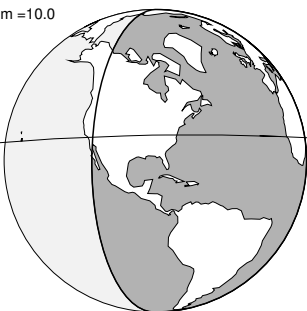
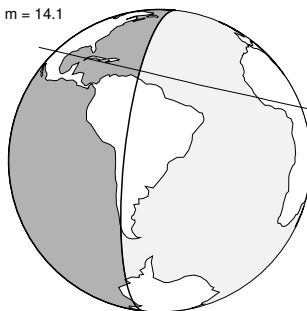
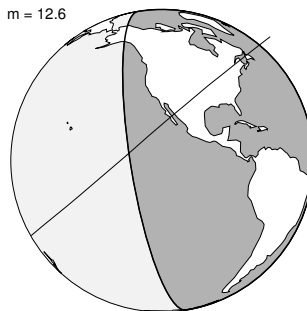
Occultations by major and minor planets – 2024

Region 1

2024 jan 31 9h18.5m A24_01100 772 Tanete TYC 2003–00210–1 Diam = 123.0 m = 11.4 m = 13.2  Dur = 12.9s Dmag = 2.0 Sun: 115° Moon: 36°	2024 feb 1 0h42.2m A24_02098 602 Marianna UCAC4 547–001483 Diam = 130.0 m = 11.5 m = 13.3  Dur = 4.1s Dmag = 2.0 Sun: 67° Moon: 167°	2024 feb 2 0h48.3m A24_02139 2797 Teucer TYC 2966–01291–1 Diam = 123.0 m = 10.7 m = 15.1  Dur = 8.8s Dmag = 4.4 Sun: 149° Moon: 103°	2024 feb 2 9h12.1m A24_02099 607 Jenny UCAC5 529–042593 Diam = 65.5 m = 12.5 m = 13.6  Dur = 5.3s Dmag = 1.4 Sun: 165° Moon: 97°
2024 feb 3 12h10.6m A24_02004 2 Pallas UCAC4 473–055917 Diam = 530.9 m = 11.5 m = 9.6  Dur = 18.6s Dmag = 0.2 Sun: 76° Moon: 29°	2024 feb 4 10h21.6m A24_02113 791 Ani TYC 5040–00408–1 Diam = 107.0 m = 9.7 m = 15.3  Dur = 4.2s Dmag = 5.6 Sun: 74° Moon: 19°	2024 feb 4 12h23.5m A24_02052 312 Pierretta UCAC4 505–053858 Diam = 51.0 m = 12.3 m = 13.3  Dur = 6.2s Dmag = 1.4 Sun: 146° Moon: 76°	2024 feb 5 0h59.5m A24_02119 882 Svetlana UCAC4 544–006671 Diam = 48.8 m = 12.1 m = 15.3  Dur = 3.2s Dmag = 3.2 Sun: 98° Moon: 164°
2024 feb 7 8h47.9m A24_02092 582 Olympia TYC 5395–01076–1 Diam = 47.0 m = 11.5 m = 11.9  Dur = 3.1s Dmag = 1.0 Sun: 142° Moon: 144°	2024 feb 8 4h14.6m A24_02055 329 Svea UCAC4 452–041603 Diam = 80.5 m = 12.2 m = 13.2  Dur = 6.7s Dmag = 1.4 Sun: 155° Moon: 153°	2024 feb 8 5h10.3m A24_02019 71 Niobe UCAC5 592–040437 Diam = 87.3 m = 11.2  Dur = 6.0s Dmag = 0.3 Sun: 156° Moon: 177°	2024 feb 8 9h33.6m A24_02075 476 Hedwig UCAC4 560–031368 Diam = 121.0 m = 12.3 m = 13.1  Dur = 16.4s Dmag = 1.3 Sun: 139° Moon: 160°
2024 feb 8 23h14.2m A24_02151 2016TS94 TYC 5873–00176–1 Diam = 129.4 m = 10.8 m = 23.3  Dur = 7.4s Dmag = 12.5 Sun: 86° Moon: 95°	2024 feb 9 2h37.7m B24_02009 2013XU33 UCAC4 494–003605 Diam = 133.0 m = 13.6 m = 23.4  Dur = 11.9s Dmag = 9.9 Sun: 79° Moon: 91°	2024 feb 9 8h23.9m A24_02114 796 Sarita UCAC4 397–056529 Diam = 46.7 m = 12.2 m = 15.1  Dur = 5.9s Dmag = 3.0 Sun: 100° Moon: 92°	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°

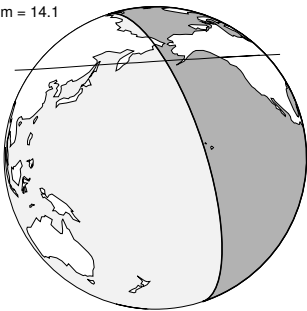
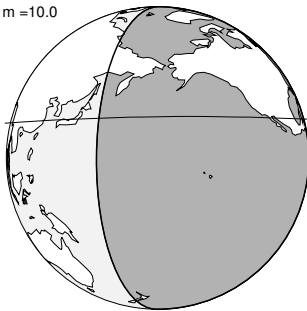
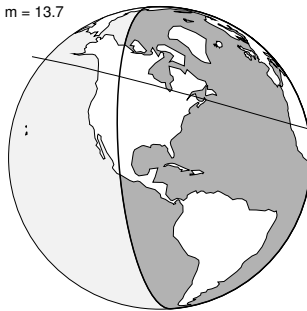
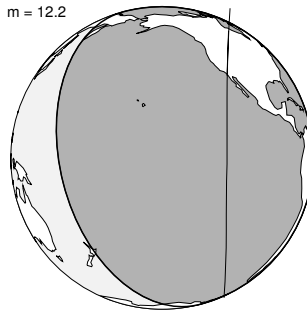
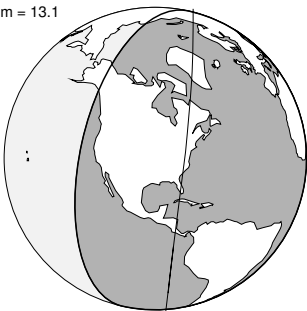
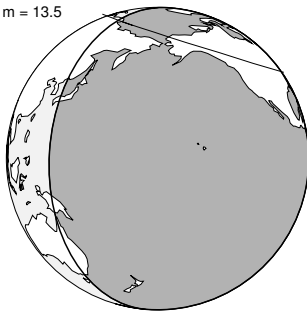
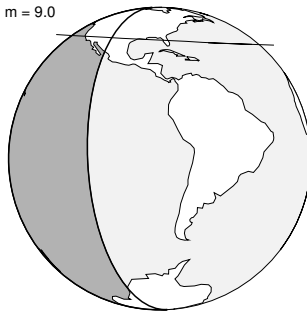
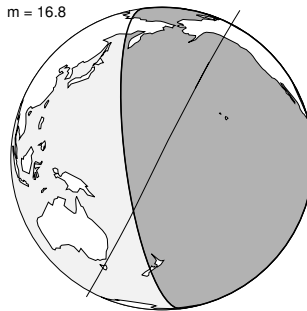
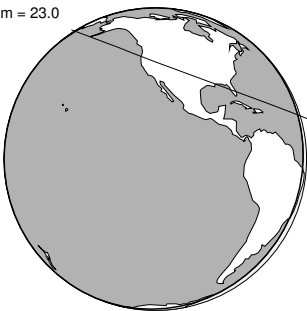
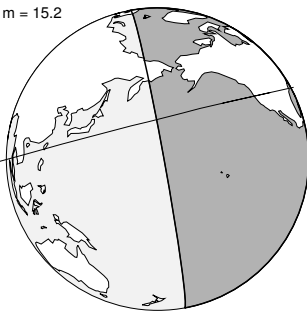
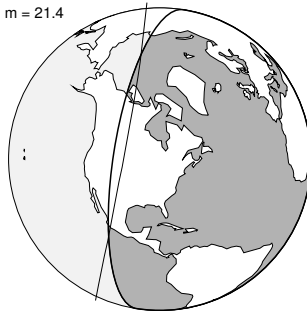
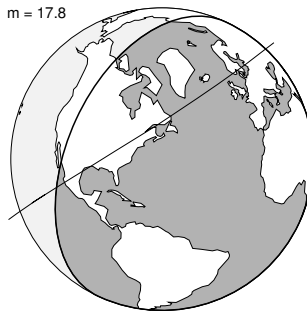
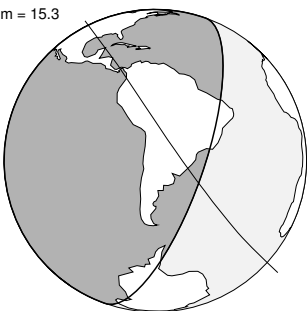
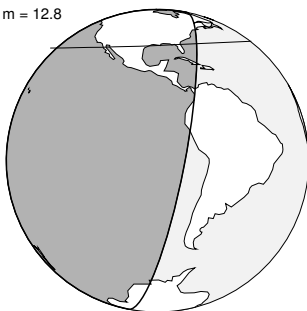
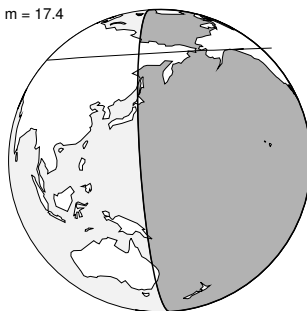
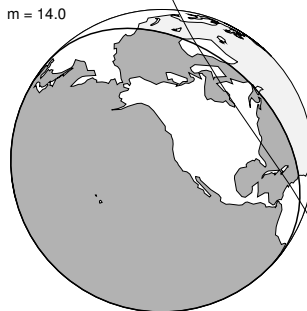
Occultations by major and minor planets – 2024

Region 1

2024 feb 10 0h21.3m A24_02037 159 Aemilia UCAC4 539–011263 Diam = 131.0 m = 12.4 m = 13.1  Dur = 23.8s Dmag = 1.1 Sun: 115° Moon: 114°	2024 feb 10 5h46.3m A24_02143 5023 Agapenor UCAC4 596–032436 Diam = 41.7 m = 12.2 m = 17.2  Dur = 4.4s Dmag = 5.1 Sun: 134° Moon: 131°	2024 feb 12 2h47.0m A24_02072 451 Patientia UCAC4 612–044955 Diam = 230.0 m = 12.2 m = 11.0  Dur = 17.6s Dmag = 0.3 Sun: 161° Moon: 141°	2024 feb 12 12h53.8m A24_02045 257 Silesia UCAC4 341–079247 Diam = 73.5 m = 12.4 m = 15.8  Dur = 3.5s Dmag = 3.4 Sun: 78° Moon: 115°
2024 feb 13 3h22.8m A24_02137 2152 Hannibal TYC 0735–02978–1 Diam = 49.0 m = 9.7 m = 15.2  Dur = 18.7s Dmag = 5.6 Sun: 130° Moon: 87°	2024 feb 14 10h19.3m A24_02053 324 Bamberga HIP 54502 Diam = 227.6 m = 9.7 m = 11.9  Dur = 15.1s Dmag = 2.3 Sun: 156° Moon: 141°	2024 feb 15 7h38.6m A24_02038 172 Baucis TYC 0264–00301–1 Diam = 64.5 m = 10.2 m = 12.7  Dur = 6.2s Dmag = 2.7 Sun: 152° Moon: 134°	2024 feb 15 9h 6.0m A24_02133 1484 Postrema UCAC5 519–052810 Diam = 46.3 m = 12.5 m = 14.6  Dur = 6.9s Dmag = 2.3 Sun: 119° Moon: 149°
2024 feb 16 10h32.5m A24_02125 1248 Jugurtha UCAC4 606–041404 Diam = 47.9 m = 11.8 m = 13.9  Dur = 6.4s Dmag = 2.2 Sun: 144° Moon: 58°	2024 feb 17 5h 8.3m A24_02105 694 Ekard TYC 0155–01863–1 Diam = 92.7 m = 8.5 m = 14.3  Dur = 12.5s Dmag = 5.8 Sun: 130° Moon: 43°	2024 feb 18 12h 7.1m A24_02010 6 Hebe HIP 72635 Diam = 186.0 m = 8.2 m = 10.8  Dur = 18.9s Dmag = 2.8 Sun: 107° Moon: 134°	2024 feb 19 4h30.4m A24_02136 2137 Priscilla UCAC4 551–044990 Diam = 44.5 m = 10.1 m = 15.7  Dur = 3.8s Dmag = 5.6 Sun: 157° Moon: 37°
2024 feb 20 1h26.8m A24_02012 9 Metis TYC 1873–00489–1 Diam = 231.2 m = 11.0 m = 10.0  Dur = 33.8s Dmag = 0.3 Sun: 114° Moon: 16°	2024 feb 20 5h44.0m A24_02015 46 Hestia TYC 0830–00230–1 Diam = 131.0 m = 11.4 m = 12.2  Dur = 9.3s Dmag = 1.2 Sun: 178° Moon: 48°	2024 feb 20 10h21.9m A24_02074 454 Mathesis UCAC5 328–083658 Diam = 84.5 m = 12.4 m = 14.1  Dur = 3.3s Dmag = 1.9 Sun: 76° Moon: 149°	2024 feb 21 2h39.2m A24_02039 173 Ino TYC 0684–00016–1 Diam = 159.0 m = 11.9 m = 12.6  Dur = 10.9s Dmag = 1.1 Sun: 102° Moon: 44°

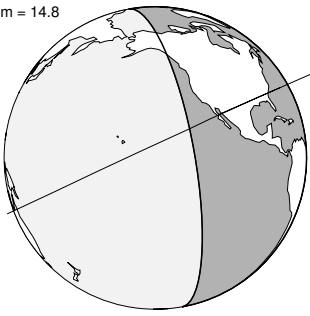
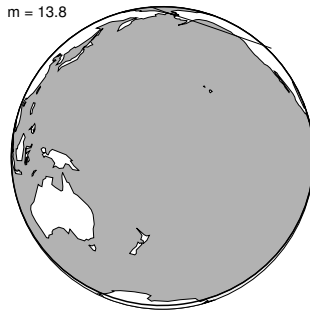
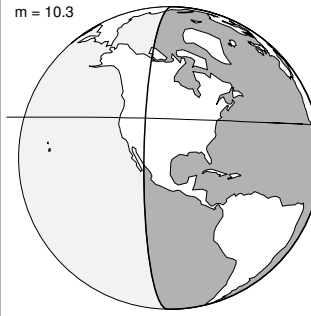
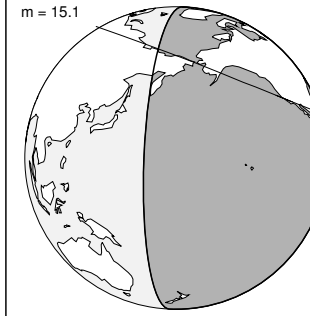
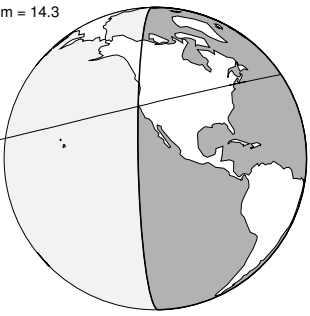
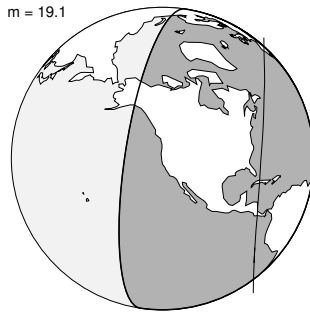
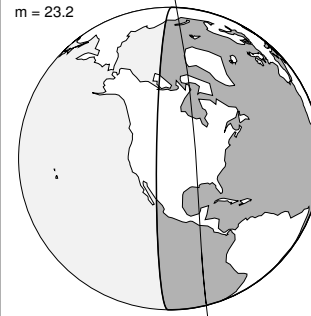
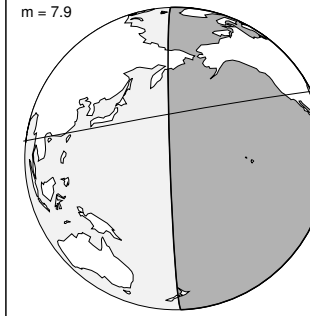
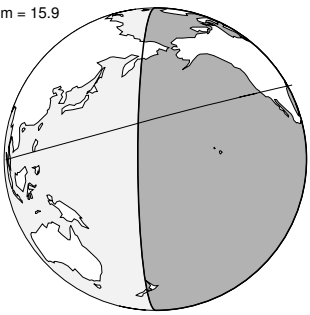
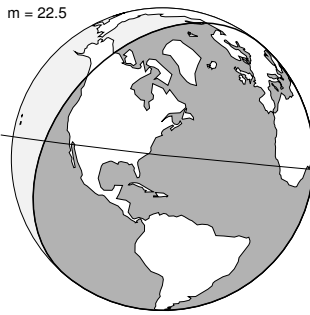
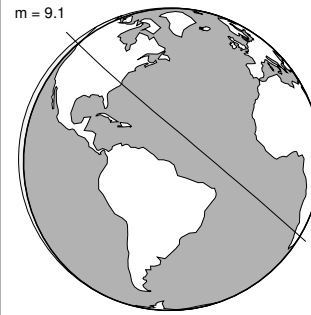
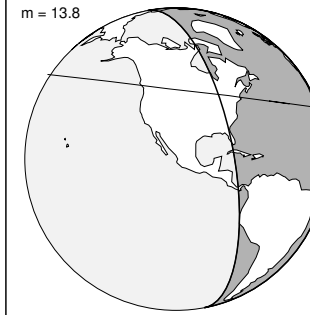
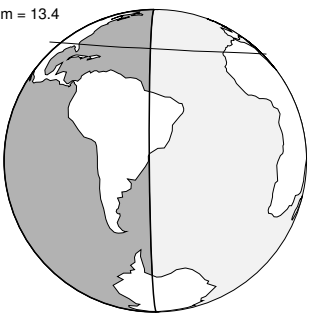
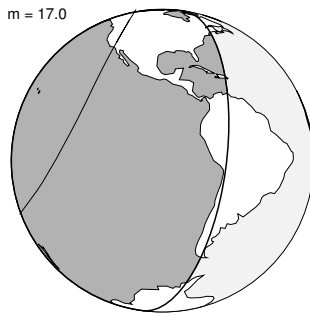
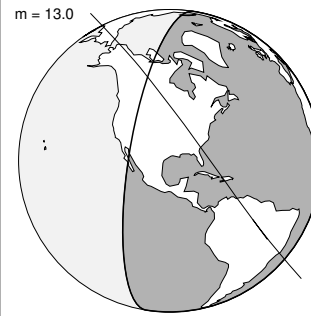
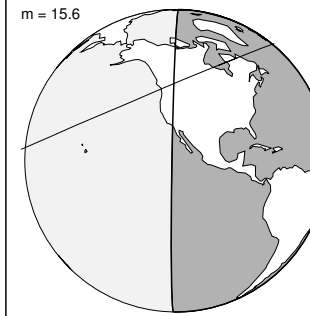
Occultations by major and minor planets – 2024

Region 1

2024 feb 21 4h33.3m A24_02091 568 Cheruskia TYC 1216–00638–1 Diam = 89.7 m = 10.1 m = 14.1  Dur = 3.1s Dmag = 4.0 Sun: 70° Moon: 72°	2024 feb 21 7h28.7m A24_02013 9 Metis TYC 1873–00633–1 Diam = 231.2 m = 11.9 m = 10.0  Dur = 31.6s Dmag = 0.2 Sun: 113° Moon: 31°	2024 feb 22 0h48.7m A24_02063 407 Arachne UCAC4 577–013623 Diam = 97.0 m = 11.9 m = 13.7  Dur = 10.1s Dmag = 1.9 Sun: 105° Moon: 47°	2024 feb 23 6h59.2m A24_02093 582 Olympia TYC 4816–02127–1 Diam = 47.0 m = 11.7 m = 12.2  Dur = 3.0s Dmag = 1.1 Sun: 132° Moon: 40°
2024 feb 24 2h24.8m A24_02116 804 Hispania TYC 2927–00065–1 Diam = 140.6 m = 11.8 m = 13.1  Dur = 17.0s Dmag = 1.6 Sun: 119° Moon: 55°	2024 feb 25 8h52.3m A24_02066 419 Aurelia UCAC4 534–041723 Diam = 133.0 m = 12.4 m = 13.5  Dur = 16.8s Dmag = 1.4 Sun: 135° Moon: 54°	2024 feb 27 13h39.5m A24_02003 1 Ceres UCAC4 336–154727 Diam = 952.5 m = 11.6 m = 9.0  Dur = 30.9s Dmag = 0.1 Sun: 61° Moon: 86°	2024 feb 28 7h16.7m A24_02142 4068 Menestheus TYC 0122–00632–1 Diam = 55.0 m = 9.7 m = 16.8  Dur = 5.3s Dmag = 7.1 Sun: 104° Moon: 114°
2024 feb 28 8h49.4m B24_02006 531015 2012BX154 UCAC4 454–050062 Diam = 220.8 m = 13.9 m = 23.0  Dur = 9.1s Dmag = 9.1 Sun: 165° Moon: 28°	2024 feb 29 6h 3.7m A24_02050 293 Brasilia TYC 1827–00659–1 Diam = 58.0 m = 11.7 m = 15.2  Dur = 3.4s Dmag = 3.6 Sun: 87° Moon: 143°	2024 mar 1 1h 0.6m A24_03183 2013TP145 UCAC5 691–038814 Diam = 57.5 m = 12.4 m = 21.4  Dur = 4.0s Dmag = 9.0 Sun: 107° Moon: 127°	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 8h53.5m A24_03097 648 Pippa UCAC4 303–082135 Diam = 70.5 m = 12.0 m = 15.3  Dur = 11.3s Dmag = 3.4 Sun: 108° Moon: 17°	2024 mar 3 11h23.1m A24_03030 80 Sappho UCAC4 349–077191 Diam = 81.7 m = 11.9 m = 12.8  Dur = 6.8s Dmag = 1.3 Sun: 100° Moon: 10°	2024 mar 4 8h20.1m A24_03177 5258 Rhoeo UCAC4 553–014602 Diam = 41.7 m = 12.3 m = 17.4  Dur = 4.5s Dmag = 5.1 Sun: 97° Moon: 172°	2024 mar 4 10h29.0m A24_03161 1963 Bezovec TYC 3018–01072–1 Diam = 46.5 m = 9.9 m = 14.0  Dur = 4.5s Dmag = 4.1 Sun: 140° Moon: 96°

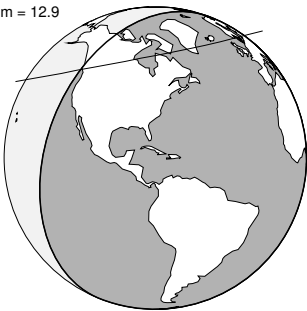
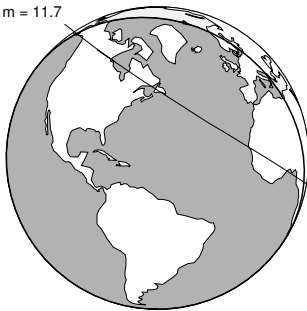
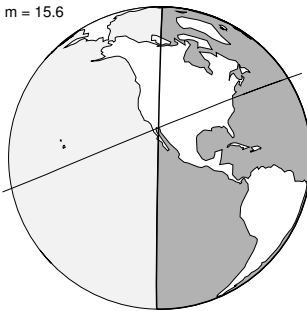
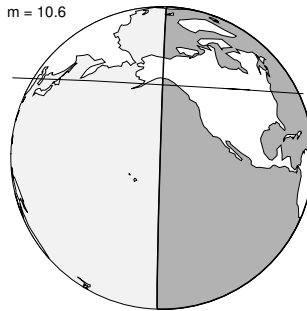
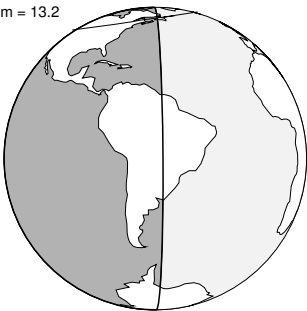
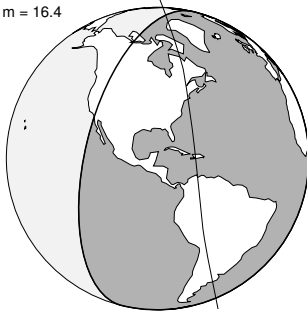
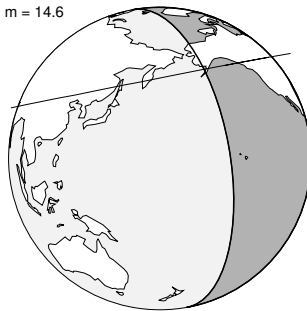
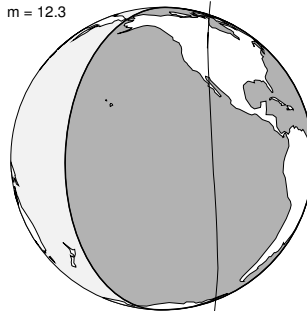
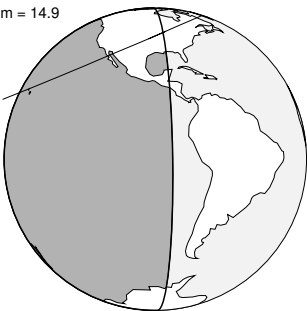
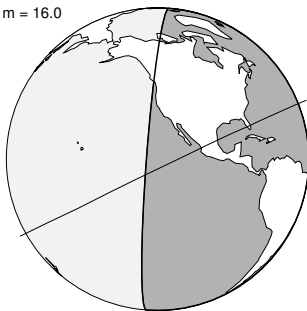
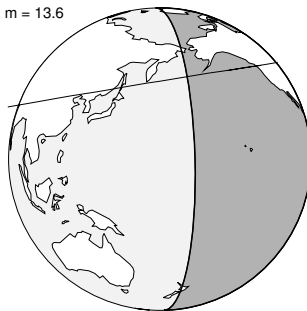
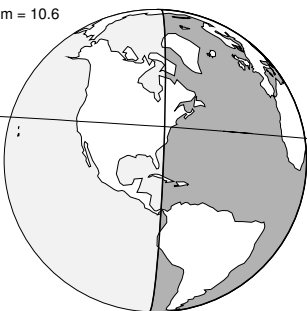
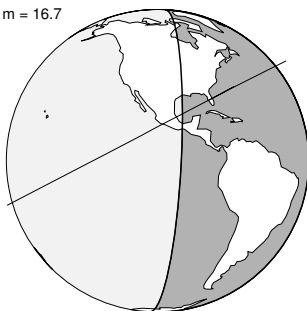
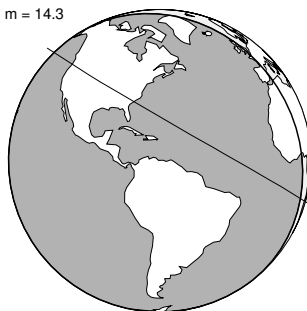
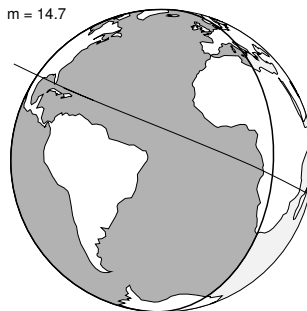
Occultations by major and minor planets – 2024

Region 1

2024 mar 5 2h32.7m A24_03110 740 Cantabia UCAC4 519–006626 Diam = 94.5 m = 11.0 m = 14.8  Dur = 4.0s Dmag = 3.8 Sun: 74° Moon: 145°	2024 mar 5 11h58.2m A24_03086 552 Sigelinde TYC 4928–01491–1 Diam = 81.0 m = 10.3 m = 13.8  Dur = 6.3s Dmag = 3.6 Sun: 167° Moon: 105°	2024 mar 10 1h18.3m A24_03011 9 Metis UCAC4 593–025195 Diam = 231.2 m = 11.9 m = 10.3  Dur = 16.6s Dmag = 0.2 Sun: 99° Moon: 105°	2024 mar 11 7h28.9m A24_03092 606 Brangäne UCAC4 587–026950 Diam = 40.0 m = 12.1 m = 15.1  Dur = 3.2s Dmag = 3.1 Sun: 102° Moon: 89°
2024 mar 12 2h15.7m A24_03042 125 Liberatrix UCAC4 545–020345 Diam = 47.5 m = 12.4 m = 14.3  Dur = 4.0s Dmag = 2.1 Sun: 96° Moon: 72°	2024 mar 12 3h30.3m B24_03006 54598 Bienor UCAC4 656–044120 Diam = 134.9 m = 13.9 m = 19.1  Dur = 13.0s Dmag = 5.2 Sun: 104° Moon: 81°	2024 mar 13 1h18.3m B24_03003 8405 Asbolus UCAC4 656–038507 Diam = 66.1 m = 15.0 m = 23.2  Dur = 7.4s Dmag = 8.3 Sun: 95° Moon: 59°	2024 mar 13 6h46.2m A24_03006 4 Vesta UCAC4 570–018605 Diam = 523.2 m = 10.6 m = 7.9  Dur = 36.1s Dmag = 0.1 Sun: 92° Moon: 52°
2024 mar 14 6h45.4m A24_03157 1731 Smuts UCAC5 545–020802 Diam = 56.2 m = 12.5 m = 15.9  Dur = 4.6s Dmag = 3.5 Sun: 96° Moon: 43°	2024 mar 15 2h46.0m B24_03014 2012WD37 UCAC4 615–046029 Diam = 179.5 m = 14.9 m = 22.5  Dur = 9.5s Dmag = 7.6 Sun: 137° Moon: 76°	2024 mar 16 2h40.8m A24_03005 3 Juno UCAC4 482–049197 Diam = 257.6 m = 12.2 m = 9.1  Dur = 20.8s Dmag = 0.1 Sun: 164° Moon: 88°	2024 mar 16 23h32.9m A24_03127 895 Helio UCAC4 557–008808 Diam = 147.0 m = 10.6 m = 13.8  Dur = 5.1s Dmag = 3.3 Sun: 67° Moon: 21°
2024 mar 18 9h19.6m A24_03037 111 Ate Gaia 063–0226100 Diam = 139.0 m = 12.3 m = 13.4  Dur = 8.1s Dmag = 1.4 Sun: 87° Moon: 168°	2024 mar 20 10h45.2m A24_03168 2976 Lautaro UCAC4 368–076051 Diam = 42.1 m = 11.6 m = 17.0  Dur = 9.4s Dmag = 5.4 Sun: 114° Moon: 117°	2024 mar 21 1h37.7m A24_03085 516 Amherstia UCAC4 590–039931 Diam = 75.7 m = 11.3 m = 13.0  Dur = 9.0s Dmag = 1.9 Sun: 105° Moon: 28°	2024 mar 21 1h59.1m A24_03119 850 Altona UCAC4 551–022853 Diam = 84.5 m = 11.9 m = 15.6  Dur = 6.1s Dmag = 3.7 Sun: 91° Moon: 43°

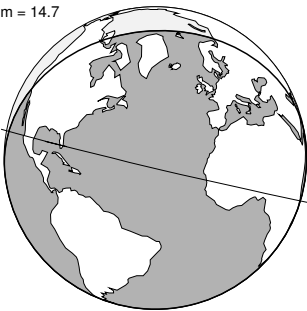
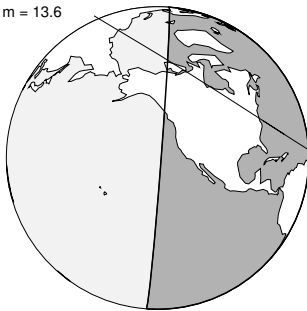
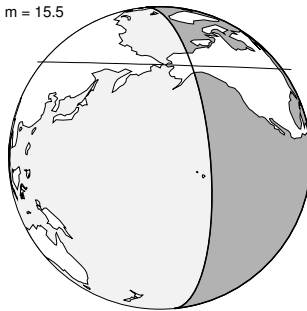
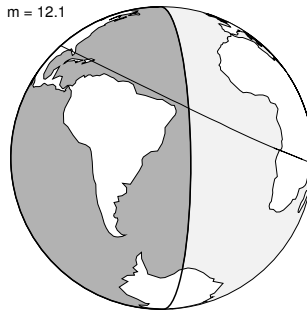
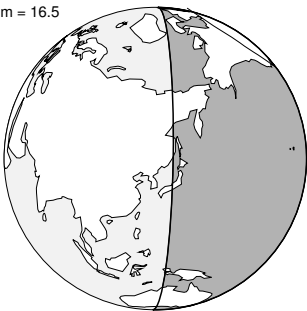
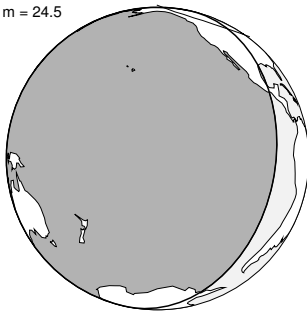
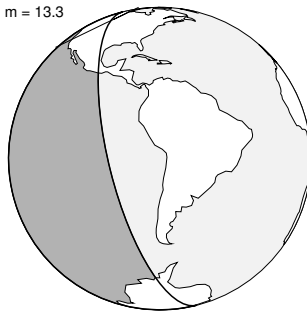
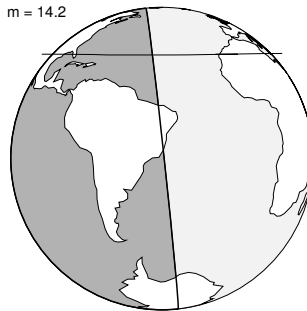
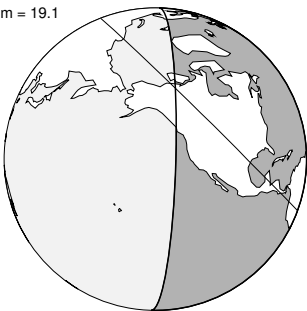
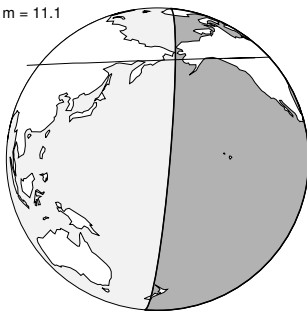
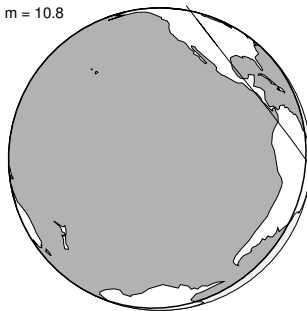
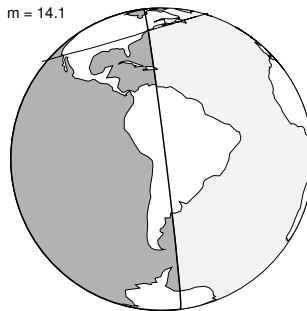
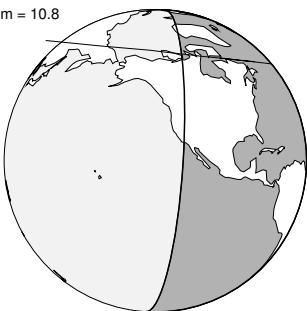
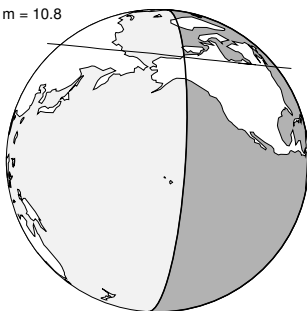
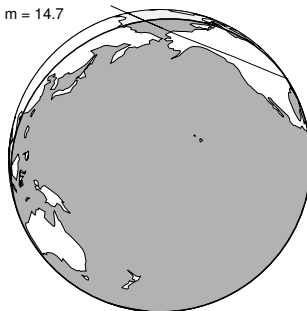
Occultations by major and minor planets – 2024

Region 1

2024 mar 21 2h40.6m A24_03034 101 Helena HIP 45917 Diam = 68.3 m = 7.6 m = 12.9  Dur = 9.1s Dmag = 5.4 Sun: 136° Moon: 2°	2024 mar 21 4h52.1m A24_03076 404 Arsinoë HIP 63330 Diam = 101.0 m = 7.1 m = 11.7  Dur = 13.2s Dmag = 4.6 Sun: 153° Moon: 51°	2024 mar 22 1h43.9m A24_03120 850 Altona UCAC4 552-022816 Diam = 84.5 m = 12.3 m = 15.6  Dur = 6.0s Dmag = 3.3 Sun: 90° Moon: 55°	2024 mar 23 3h50.8m A24_03013 9 Metis TYC 1889-00304-1 Diam = 231.2 m = 11.6 m = 10.6  Dur = 12.5s Dmag = 0.4 Sun: 90° Moon: 66°
2024 mar 23 9h51.3m A24_03062 308 Polyo TYC 6259-00194-1 Diam = 148.0 m = 9.6 m = 13.2  Dur = 9.0s Dmag = 3.6 Sun: 92° Moon: 107°	2024 mar 26 2h 0.3m A24_03163 2137 Priscilla UCAC4 545-046211 Diam = 44.5 m = 12.2 m = 16.4  Dur = 11.8s Dmag = 4.2 Sun: 118° Moon: 70°	2024 mar 26 5h 0.6m A24_03067 363 Padua UCAC5 569-010400 Diam = 96.0 m = 12.4 m = 14.6  Dur = 3.1s Dmag = 2.3 Sun: 62° Moon: 128°	2024 mar 26 5h43.0m A24_03036 105 Artemis TYC 4878-01316-1 Diam = 123.0 m = 11.6 m = 12.3  Dur = 11.1s Dmag = 1.2 Sun: 129° Moon: 60°
2024 mar 26 11h55.9m A24_03056 252 Clementina Gaia 075-0173999 Diam = 72.1 m = 11.3 m = 14.9  Dur = 5.2s Dmag = 3.6 Sun: 96° Moon: 70°	2024 mar 27 2h40.4m A24_03146 1191 Alfaterna PPMX 6056348 Diam = 45.6 m = 12.4 m = 16.0  Dur = 3.0s Dmag = 3.6 Sun: 94° Moon: 106°	2024 mar 28 6h14.1m A24_03048 159 Aemilia UCAC4 552-016467 Diam = 131.0 m = 11.6 m = 13.6  Dur = 5.4s Dmag = 2.2 Sun: 76° Moon: 136°	2024 mar 28 6h52.4m A24_03031 84 Klio UCAC4 350-067537 Diam = 83.0 m = 11.5 m = 13.3  Dur = 6.7s Dmag = 2.0 Sun: 159° Moon: 18°
2024 mar 28 23h24.7m A24_03014 9 Metis PPMX 5029707 Diam = 231.2 m = 12.4 m = 10.6  Dur = 11.3s Dmag = 0.2 Sun: 86° Moon: 134°	2024 mar 29 0h28.4m A24_03171 3709 Polypoites TYC 0125-00132-1 Diam = 66.1 m = 10.5 m = 16.7  Dur = 3.3s Dmag = 6.1 Sun: 80° Moon: 135°	2024 mar 29 5h51.0m A24_03126 891 Gunhild TYC 0903-00612-1 Diam = 53.6 m = 11.3 m = 14.3  Dur = 4.5s Dmag = 3.0 Sun: 156° Moon: 39°	2024 mar 30 4h52.2m A24_03139 1096 Reunerta UCAC5 406-060084 Diam = 46.2 m = 12.5 m = 14.7  Dur = 10.4s Dmag = 2.3 Sun: 137° Moon: 19°

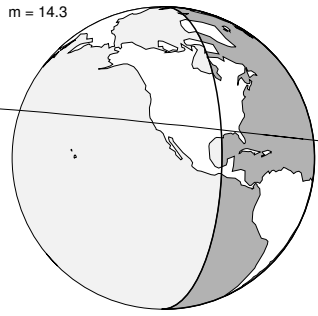
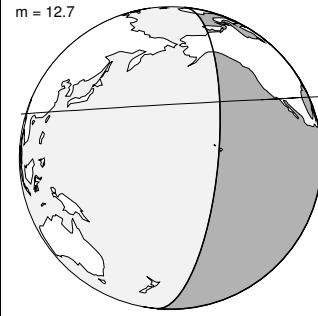
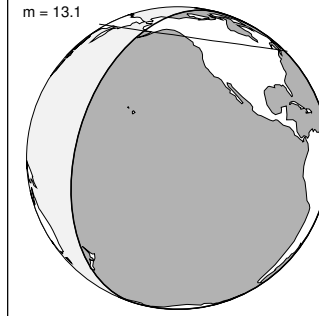
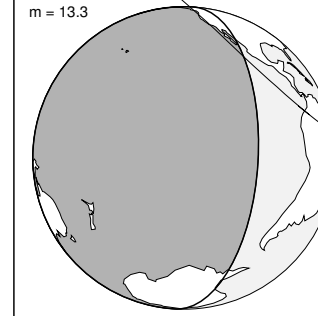
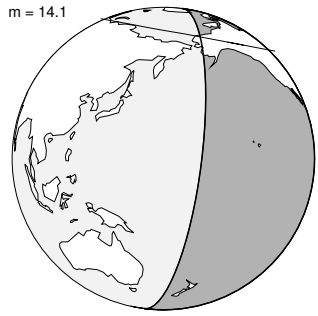
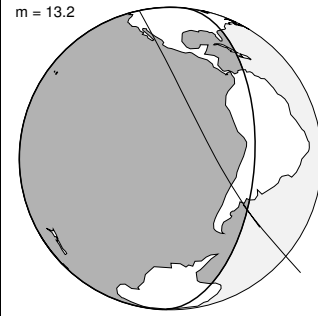
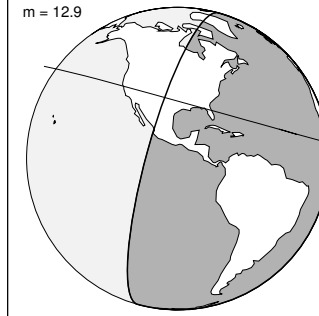
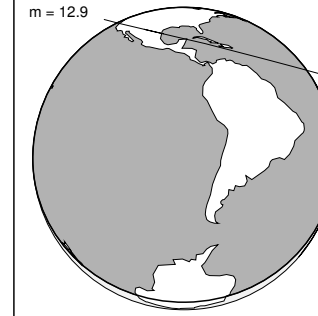
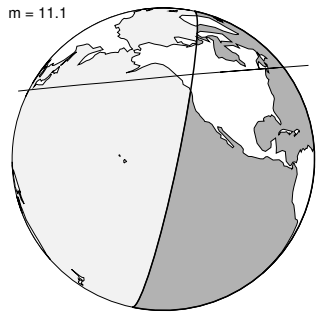
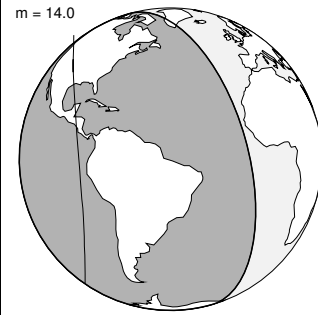
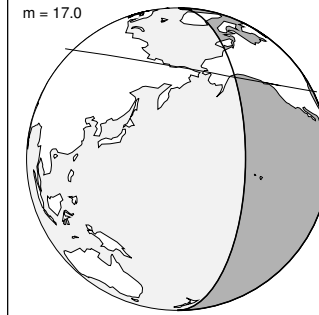
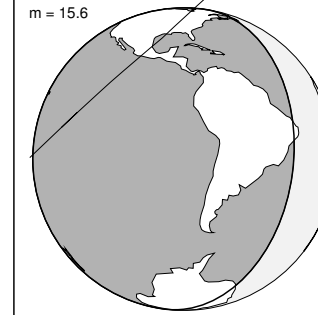
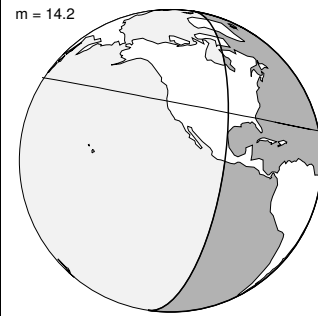
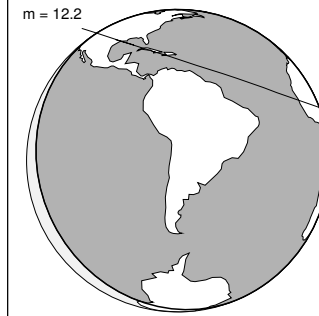
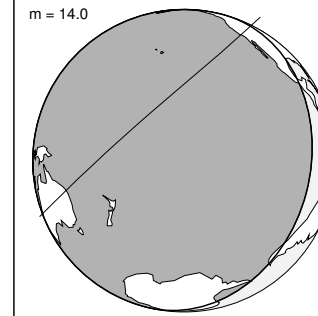
Occultations by major and minor planets – 2024

Region 1

2024 mar 31 2h19.2m A24_03117 814 Tauris TYC 1991–00980–1 Diam = 116.0 m = 11.2 m = 14.7  Dur = 7.2s Dmag = 3.5 Sun: 147° Moon: 85°	2024 mar 31 3h 5.2m A24_03115 804 Hispania TYC 2443–00375–1 Diam = 140.6 m = 11.6 m = 13.6  Dur = 8.0s Dmag = 2.2 Sun: 88° Moon: 156°	2024 mar 31 4h18.7m A24_03053 231 Vindobona UCAC5 589–016194 Diam = 85.1 m = 12.4 m = 15.5  Dur = 3.6s Dmag = 3.1 Sun: 70° Moon: 176°	2024 apr 2 8h 5.4m A24_04012 22 Kalliope UCAC4 323–134693 Diam = 187.0 m = 12.1 m = 12.1  Dur = 17.5s Dmag = 0.7 Sun: 100° Moon: 14°
2024 apr 3 9h13.2m A24_04158 3540 Proteilaos UCAC4 682–043691 Diam = 66.1 m = 11.8 m = 16.5  Dur = 3.4s Dmag = 4.7 Sun: 83° Moon: 151°	2024 apr 3 12h18.4m A24_04160 500831 2013GV136 TYC 6171–00565–1 Diam = 92.5 m = 11.3 m = 24.5  Dur = 5.1s Dmag = 13.2 Sun: 141° Moon: 69°	2024 apr 3 12h28.7m A24_04112 702 Alauda TYC 6337–00653–1 Diam = 202.0 m = 11.2 m = 13.3  Dur = 7.7s Dmag = 2.2 Sun: 70° Moon: 4°	2024 apr 4 8h52.5m A24_04095 566 Stereokopia TYC 6873–00625–1 Diam = 175.0 m = 11.0 m = 14.2  Dur = 11.2s Dmag = 3.3 Sun: 90° Moon: 30°
2024 apr 5 3h 7.0m B24_04001 54598 Bienor UCAC4 653–044261 Diam = 134.9 m = 12.9 m = 19.1  Dur = 8.4s Dmag = 6.3 Sun: 82° Moon: 132°	2024 apr 5 6h17.2m A24_04005 5 Astraea TYC 1342–02219–1 Diam = 125.0 m = 12.2 m = 11.1  Dur = 5.8s Dmag = 0.4 Sun: 85° Moon: 134°	2024 apr 7 9h37.8m A24_04015 25 Phocaea UCAC4 364–064324 Diam = 78.0 m = 12.1 m = 10.8  Dur = 6.6s Dmag = 0.3 Sun: 162° Moon: 143°	2024 apr 7 10h31.1m A24_04051 168 Sibylla TYC 6287–00356–1 Diam = 154.0 m = 11.4 m = 14.1  Dur = 10.0s Dmag = 2.8 Sun: 91° Moon: 73°
2024 apr 10 2h20.5m A24_04010 9 Metis UCAC5 590–033321 Diam = 231.2 m = 12.5 m = 10.8  Dur = 9.5s Dmag = 0.2 Sun: 79° Moon: 61°	2024 apr 10 4h13.5m A24_04011 9 Metis TYC 1901–01081–1 Diam = 231.2 m = 11.7 m = 10.8  Dur = 9.4s Dmag = 0.4 Sun: 79° Moon: 60°	2024 apr 10 10h49.5m A24_04049 166 Rhodope UCAC4 513–054774 Diam = 43.9 m = 11.7 m = 14.7  Dur = 3.2s Dmag = 3.1 Sun: 157° Moon: 136°	2024 apr 13 9h57.7m A24_04133 1024 Hale UCAC5 323–104812 Diam = 43.2 m = 12.5 m = 15.8  Dur = 8.1s Dmag = 3.4 Sun: 122° Moon: 175°

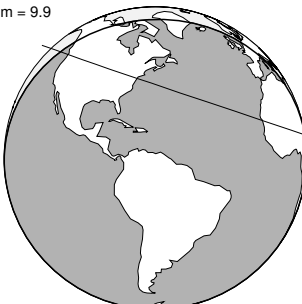
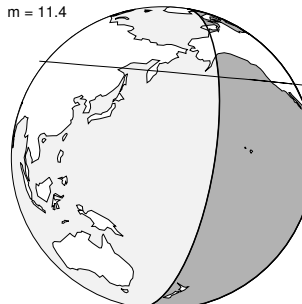
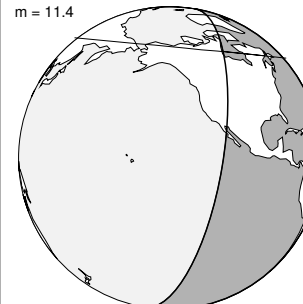
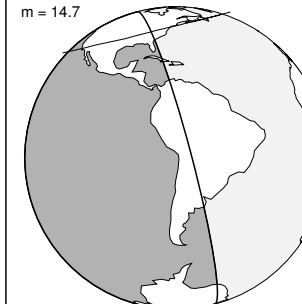
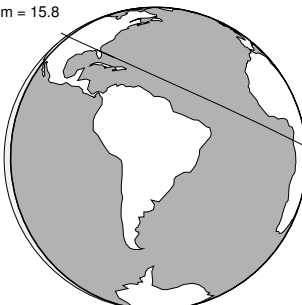
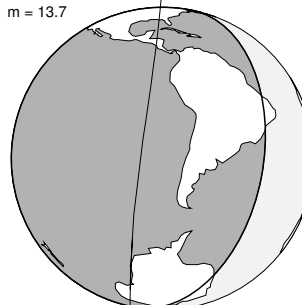
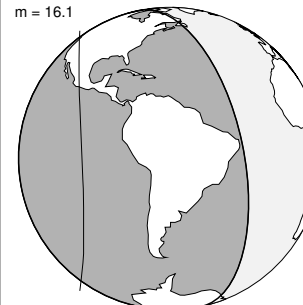
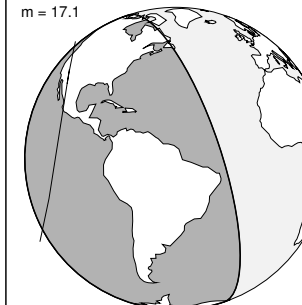
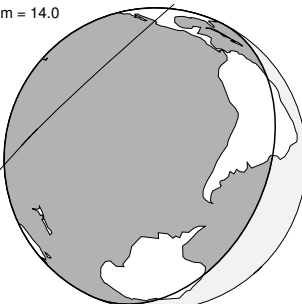
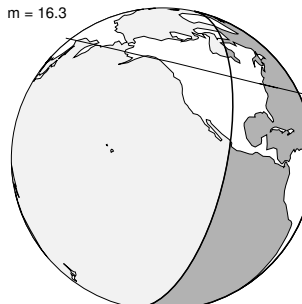
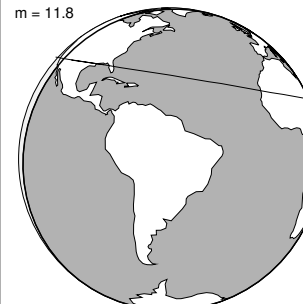
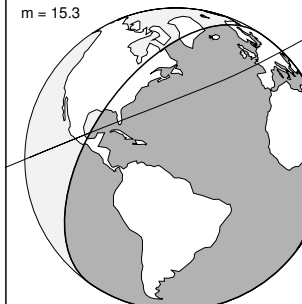
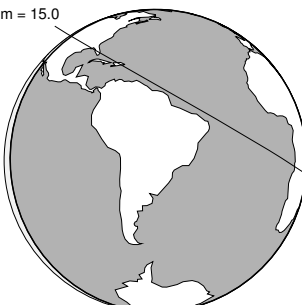
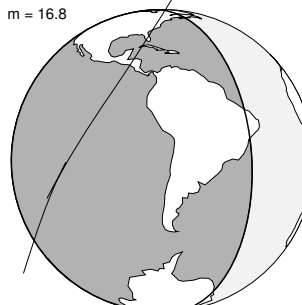
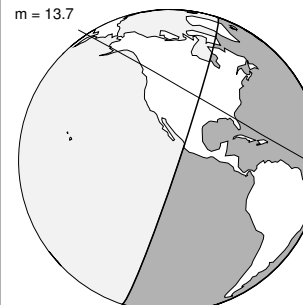
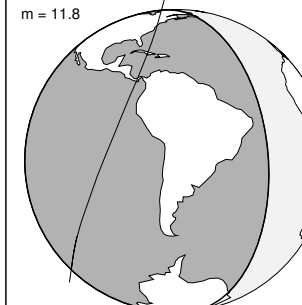
Occultations by major and minor planets – 2024

Region 1

2024 apr 14 0h25.6m A24_04074 407 Arachne UCAC4 569–023465 Diam = 97.0 m = 12.1 m = 14.3  Dur = 3.4s Dmag = 2.3 Sun: 67° Moon: 5°	2024 apr 16 4h39.9m A24_04022 48 Doris TYC 1333–00947–1 Diam = 219.0 m = 11.8 m = 12.7  Dur = 8.4s Dmag = 1.3 Sun: 71° Moon: 25°	2024 apr 17 6h 4.6m A24_04053 172 Baucis UCAC4 462–046661 Diam = 64.5 m = 12.2 m = 13.1  Dur = 14.7s Dmag = 1.3 Sun: 132° Moon: 28°	2024 apr 17 12h56.6m A24_04079 454 Mathesis TYC 6853–00231–1 Diam = 84.5 m = 12.0 m = 13.3  Dur = 16.0s Dmag = 1.6 Sun: 119° Moon: 131°
2024 apr 19 6h23.7m A24_04086 476 Hedwig TYC 1352–00782–1 Diam = 121.0 m = 9.6 m = 14.1  Dur = 5.3s Dmag = 4.6 Sun: 75° Moon: 53°	2024 apr 22 10h40.6m A24_04080 454 Mathesis UCAC4 307–138029 Diam = 84.5 m = 11.7 m = 13.2  Dur = 20.9s Dmag = 1.8 Sun: 123° Moon: 73°	2024 apr 23 1h20.7m A24_04019 38 Leda UCAC5 505–047785 Diam = 120.0 m = 12.4 m = 12.9  Dur = 9.7s Dmag = 1.1 Sun: 101° Moon: 68°	2024 apr 23 5h51.6m A24_04047 141 Lumen UCAC4 297–075269 Diam = 135.0 m = 12.3 m = 12.9  Dur = 9.3s Dmag = 1.1 Sun: 161° Moon: 22°
2024 apr 24 3h13.8m A24_04064 354 Eleonora TYC 1388–01643–1 Diam = 162.0 m = 12.5 m = 11.1  Dur = 7.9s Dmag = 0.3 Sun: 84° Moon: 97°	2024 apr 26 6h59.7m A24_04088 483 Seppina UCAC4 449–076695 Diam = 73.5 m = 12.4 m = 14.0  Dur = 8.4s Dmag = 1.8 Sun: 120° Moon: 40°	2024 apr 27 5h11.1m A24_04151 1902 Shaposhnikov UCAC4 612–035439 Diam = 101.0 m = 12.0 m = 17.0  Dur = 3.9s Dmag = 5.0 Sun: 63° Moon: 154°	2024 apr 27 8h35.9m A24_04134 1024 Hale TYC 6833–00547–1 Diam = 43.2 m = 10.8 m = 15.6  Dur = 5.7s Dmag = 4.7 Sun: 136° Moon: 5°
2024 apr 27 9h 4.5m B24_04005 182933 2002GZ31 UCAC4 340–087752 Diam = 212.8 m = 13.5 m = 22.5  Dur = 12.3s Dmag = 8.9 Sun: 140° Moon: 5°	2024 apr 28 0h57.4m A24_04087 476 Hedwig TYC 1353–01142–1 Diam = 121.0 m = 11.4 m = 14.2  Dur = 4.7s Dmag = 2.9 Sun: 69° Moon: 156°	2024 apr 28 3h 3.8m A24_04070 375 Ursula TYC 6701–00808–1 Diam = 216.0 m = 11.5 m = 12.2  Dur = 16.7s Dmag = 1.1 Sun: 157° Moon: 62°	2024 apr 28 11h56.4m A24_04129 926 Imhilde TYC 6804–00849–1 Diam = 50.5 m = 9.9 m = 14.0  Dur = 5.9s Dmag = 4.1 Sun: 146° Moon: 20°

Occultations by major and minor planets – 2024

Region 1

2024 may 1 4h 7.6m A24_05005 6 Hebe UCAC4 493–061745 Diam = 186.0 m = 12.0 m = 9.9  Dur = 13.7s Dmag = 0.2 Sun: 156° Moon: 98°	2024 may 2 5h49.1m A24_05002 5 Astraea TYC 1372–00705–1 Diam = 125.0 m = 11.4  Dur = 4.2s Dmag = 0.4 Sun: 69° Moon: 150°	2024 may 3 2h12.0m A24_05003 5 Astraea TYC 1372–00585–1 Diam = 125.0 m = 11.0 m = 11.4  Dur = 4.2s Dmag = 1.0 Sun: 69° Moon: 138°	2024 may 3 10h39.5m A24_05053 177 Irma TYC 6339–00203–1 Diam = 75.3 m = 10.5 m = 14.7  Dur = 4.9s Dmag = 4.2 Sun: 95° Moon: 32°
2024 may 4 2h33.0m A24_05148 1298 Nocturna TYC 6125–00354–1 Diam = 47.3 m = 11.4 m = 15.8  Dur = 3.4s Dmag = 4.5 Sun: 163° Moon: 139°	2024 may 5 8h51.3m A24_05115 735 Marghanna UCAC4 267–151461 Diam = 77.0 m = 12.1 m = 13.7  Dur = 8.8s Dmag = 1.8 Sun: 131° Moon: 95°	2024 may 7 8h19.7m A24_05169 3139 Shantou UCAC5 381–139143 Diam = 45.6 m = 12.4 m = 16.1  Dur = 5.2s Dmag = 3.7 Sun: 119° Moon: 108°	2024 may 9 8h12.3m A24_05161 2235 Vittore UCAC4 452–106864 Diam = 54.6 m = 11.0 m = 17.1  Dur = 5.3s Dmag = 6.1 Sun: 107° Moon: 120°
2024 may 9 9h38.5m A24_05109 693 Zerbinita TYC 7897–00790–1 Diam = 69.1 m = 10.4 m = 14.0  Dur = 8.8s Dmag = 3.6 Sun: 137° Moon: 154°	2024 may 11 1h29.4m A24_05167 3063 Makhaon TYC 1366–01098–1 Diam = 125.0 m = 12.2 m = 16.3  Dur = 4.9s Dmag = 4.1 Sun: 64° Moon: 28°	2024 may 11 2h40.2m A24_05039 110 Lydia TYC 5558–00261–1 Diam = 89.1 m = 12.0 m = 11.8  Dur = 7.7s Dmag = 0.7 Sun: 164° Moon: 125°	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 13 2h31.4m A24_05139 1001 Gaussia UCAC4 343–071189 Diam = 78.3 m = 12.2 m = 15.0  Dur = 5.5s Dmag = 2.9 Sun: 163° Moon: 103°	2024 may 13 8h49.2m A24_05144 1081 Reseda UCAC5 315–204074 Diam = 40.3 m = 12.5 m = 16.8  Dur = 14.9s Dmag = 4.4 Sun: 126° Moon: 168°	2024 may 14 1h28.2m A24_05034 101 Helena TYC 1403–01442–1 Diam = 68.3 m = 9.8 m = 13.7  Dur = 4.2s Dmag = 3.9 Sun: 86° Moon: 13°	2024 may 14 8h 5.1m A24_05088 471 Papagena TYC 6878–00490–1 Diam = 127.0 m = 12.1 m = 11.8  Dur = 23.2s Dmag = 0.6 Sun: 127° Moon: 155°

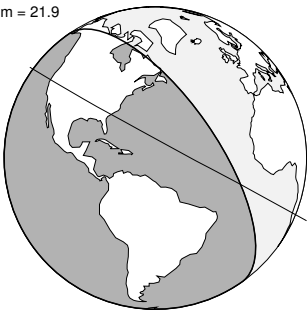
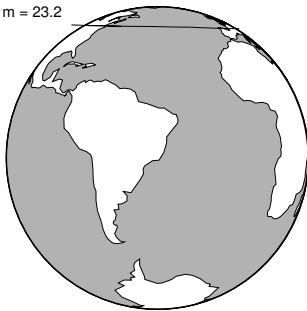
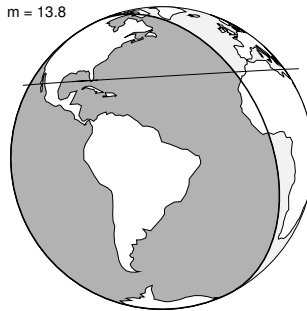
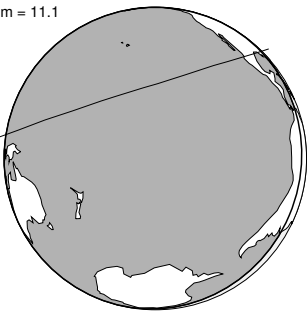
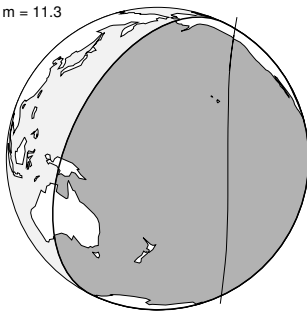
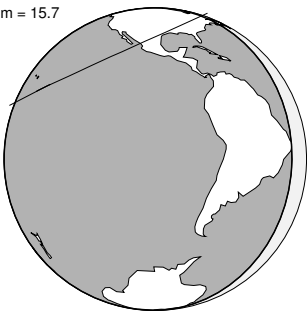
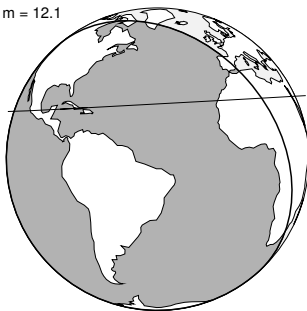
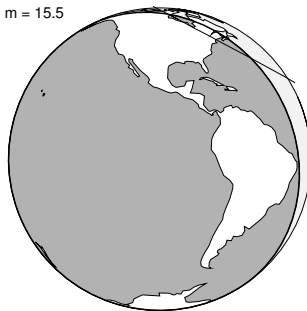
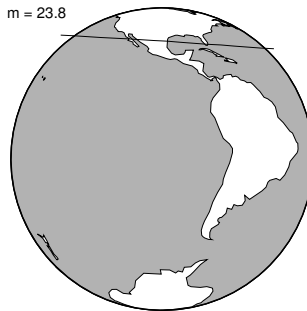
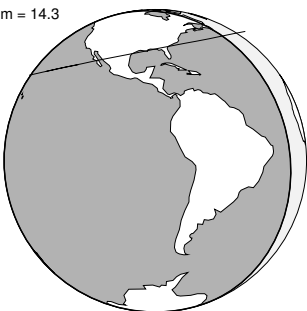
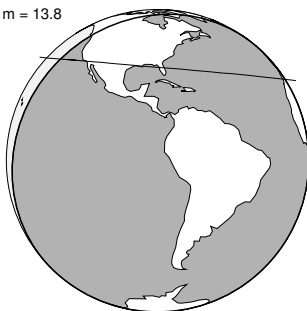
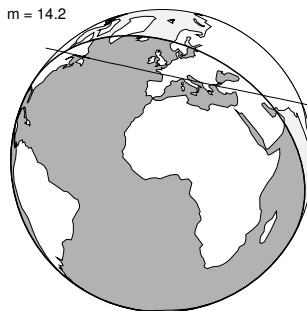
Occultations by major and minor planets – 2024

Region 1

2024 may 15 4h11.8m A24_05061 279 Thule TYC 1390–01300–1 Diam = 135.0 m = 12.1 m = 15.6 Dur = 5.4s Dmag = 3.6 Sun: 68° Moon: 18°	2024 may 15 7h35.5m A24_05078 406 Erna UCAC4 313–232624 Diam = 53.8 m = 12.0 m = 14.9 Dur = 21.4s Dmag = 3.0 Sun: 134° Moon: 137°	2024 may 15 8h54.4m A24_05131 784 Pickeringia TYC 7874–00596–1 Diam = 90.0 m = 10.4 m = 12.4 Dur = 12.3s Dmag = 2.1 Sun: 148° Moon: 118°	2024 may 16 9h16.5m A24_05077 406 Erna UCAC5 313–206556 Diam = 53.8 m = 12.4 m = 14.9 Dur = 18.7s Dmag = 2.6 Sun: 135° Moon: 125°
2024 may 17 8h54.6m A24_05044 145 Adeona UCAC4 317–230186 Diam = 155.0 m = 12.1 m = 13.4 Dur = 25.8s Dmag = 1.6 Sun: 116° Moon: 133°	2024 may 18 9h45.1m A24_05027 68 Leto TYC 7393–00142–1 Diam = 127.0 m = 10.9 m = 11.1 Dur = 20.7s Dmag = 0.8 Sun: 142° Moon: 95°	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 19 4h35.2m A24_05067 329 Svea TYC 0813–02077–1 Diam = 80.5 m = 12.1 m = 14.8 Dur = 3.1s Dmag = 2.7 Sun: 73° Moon: 57°
2024 may 19 4h35.4m A24_05068 329 Svea UCAC4 507–047394 Diam = 80.5 m = 12.1 m = 14.8 Dur = 3.1s Dmag = 2.8 Sun: 73° Moon: 57°	2024 may 20 11h37.8m A24_05047 151 Abundantia UCAC4 302–257401 Diam = 46.7 m = 12.2 m = 13.5 Dur = 10.5s Dmag = 1.6 Sun: 134° Moon: 81°	2024 may 21 4h12.6m A24_05138 926 Imhilde UCAC4 306–089254 Diam = 50.5 m = 12.3 m = 13.5 Dur = 4.5s Dmag = 1.5 Sun: 169° Moon: 35°	2024 may 21 6h48.8m A24_05136 906 Repsolda PPMX 7236205 Diam = 52.5 m = 11.9 m = 15.1 Dur = 5.2s Dmag = 3.2 Sun: 102° Moon: 51°
2024 may 25 10h12.2m A24_05151 1315 Bronislawa UCAC4 365–160880 Diam = 65.5 m = 10.9 m = 14.8 Dur = 10.7s Dmag = 3.9 Sun: 140° Moon: 20°	2024 may 26 7h59.2m A24_05059 257 Silesia UCAC4 335–081030 Diam = 73.5 m = 12.1 m = 14.3 Dur = 5.1s Dmag = 2.4 Sun: 176° Moon: 36°	2024 may 27 4h24.2m A24_05054 181 Eucharis TYC 5157–00208–1 Diam = 107.0 m = 11.8 m = 13.9 Dur = 18.5s Dmag = 2.2 Sun: 127° Moon: 21°	2024 jun 1 4h25.1m B24_06018 523718 2014KZ101 UCAC4 423–078258 Diam = 208.9 m = 14.6 m = 22.1 Dur = 10.0s Dmag = 7.5 Sun: 151° Moon: 88°

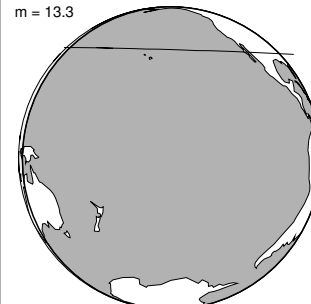
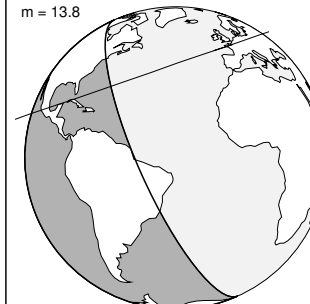
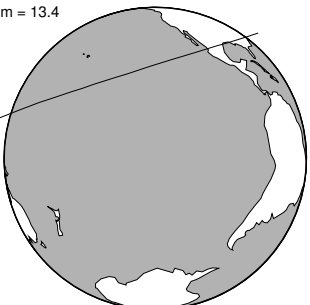
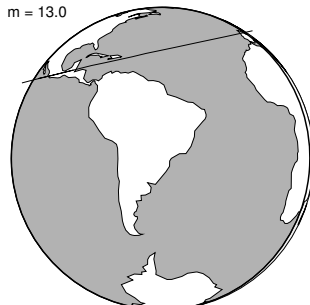
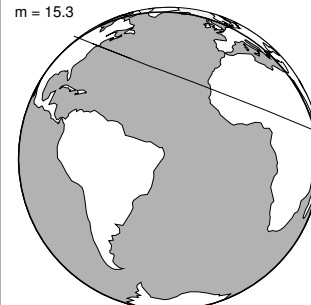
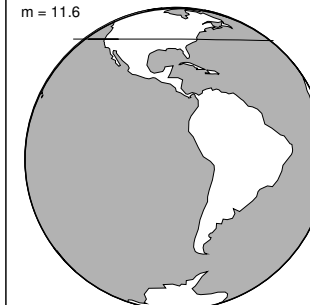
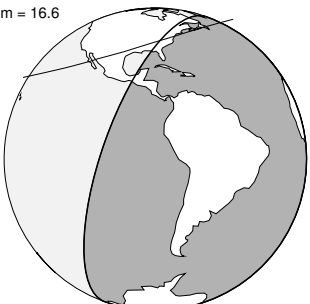
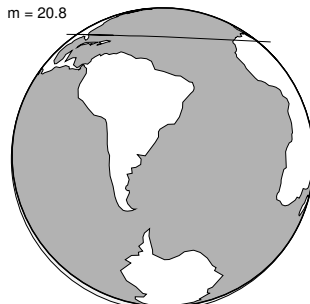
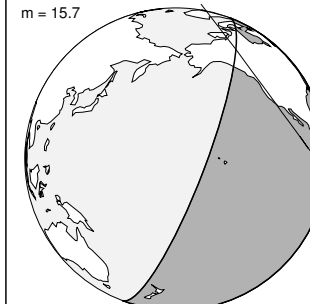
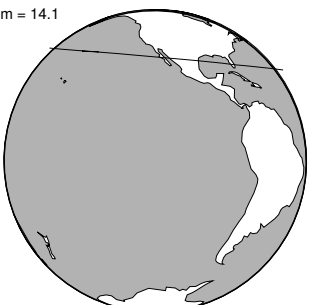
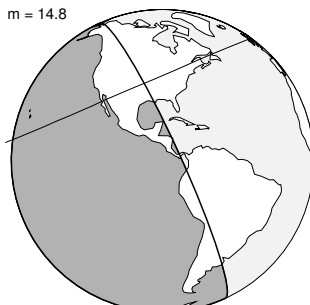
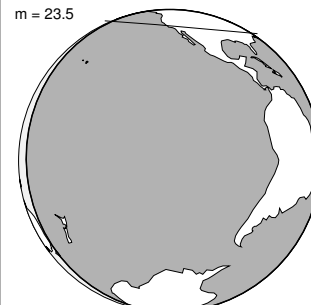
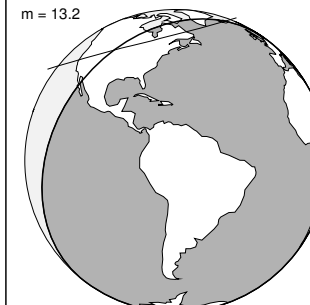
Occultations by major and minor planets – 2024

Region 1

2024 jun 2 7h30.7m B24_06017 523700 2014GM54 UCAC4 536–128539 Diam = 154.2 m = 13.2 m = 21.9  Dur = 10.4s Dmag = 8.7 Sun: 114° Moon: 69°	2024 jun 3 3h10.9m A24_06199 2015KF173 TYC 6244–00404–1 Diam = 83.2 m = 11.4 m = 23.2  Dur = 3.6s Dmag = 11.7 Sun: 174° Moon: 130°	2024 jun 4 6h 2.5m A24_06174 1315 Bronisława TYC 6281–01577–1 Diam = 65.5 m = 10.9 m = 14.6  Dur = 7.6s Dmag = 3.7 Sun: 150° Moon: 121°	2024 jun 4 6h 9.4m A24_06053 181 Eucharis TYC 5157–00579–1 Diam = 107.0 m = 9.7 m = 13.8  Dur = 12.3s Dmag = 4.1 Sun: 135° Moon: 106°
2024 jun 4 10h39.3m A24_06011 22 Kalliope UCAC4 302–147998 Diam = 187.0 m = 11.0 m = 11.1  Dur = 13.8s Dmag = 0.8 Sun: 164° Moon: 138°	2024 jun 5 8h35.7m A24_06014 25 Phocaea UCAC4 436–057856 Diam = 78.0 m = 11.7 m = 11.3  Dur = 12.4s Dmag = 0.6 Sun: 126° Moon: 141°	2024 jun 6 7h54.4m A24_06049 151 Abundantia UCAC4 296–216373 Diam = 46.7 m = 12.4 m = 13.1  Dur = 5.5s Dmag = 1.1 Sun: 151° Moon: 150°	2024 jun 7 4h29.7m B24_06007 120216 2004EW95 UCAC4 247–082361 Diam = 200.4 m = 14.7 m = 21.0  Dur = 8.8s Dmag = 6.3 Sun: 156° Moon: 155°
2024 jun 7 8h30.0m A24_06188 2421 Nininger TYC 6868–00164–1 Diam = 43.3 m = 9.1 m = 15.7  Dur = 4.0s Dmag = 6.6 Sun: 154° Moon: 165°	2024 jun 10 4h45.2m A24_06040 130 Elektra TYC 0463–02162–1 Diam = 189.0 m = 10.8 m = 12.1  Dur = 20.1s Dmag = 1.6 Sun: 142° Moon: 149°	2024 jun 11 8h22.4m A24_06194 3139 Shantou TYC 5710–00693–1 Diam = 45.6 m = 10.0 m = 15.5  Dur = 3.4s Dmag = 5.5 Sun: 153° Moon: 142°	2024 jun 12 6h28.4m B24_06021 2004HO79 UCAC4 323–104419 Diam = 144.5 m = 14.2 m = 23.8  Dur = 5.8s Dmag = 9.6 Sun: 176° Moon: 109°
2024 jun 12 7h42.7m A24_06078 415 Palatia UCAC4 364–166951 Diam = 80.1 m = 12.5 m = 14.3  Dur = 6.8s Dmag = 2.0 Sun: 152° Moon: 137°	2024 jun 13 4h25.2m A24_06101 585 Bilkis TYC 5613–00037–1 Diam = 60.3 m = 10.9 m = 13.8  Dur = 6.7s Dmag = 3.0 Sun: 158° Moon: 83°	2024 jun 15 5h12.5m A24_06110 623 Chimaera TYC 7404–03568–1 Diam = 46.0 m = 11.6 m = 14.8  Dur = 3.7s Dmag = 3.2 Sun: 163° Moon: 88°	2024 jun 17 1h30.4m A24_06125 754 Malabar TYC 1048–00504–1 Diam = 89.1 m = 11.8 m = 14.2  Dur = 7.8s Dmag = 2.5 Sun: 139° Moon: 85°

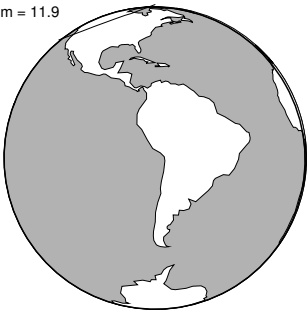
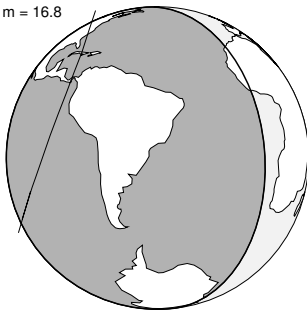
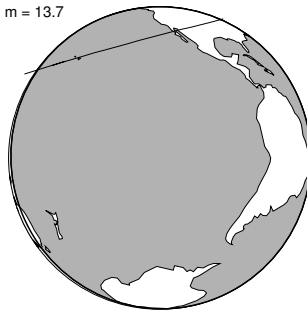
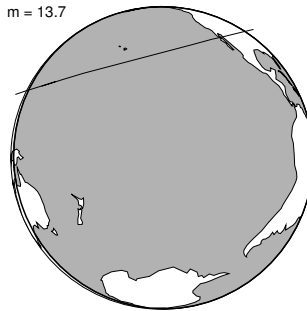
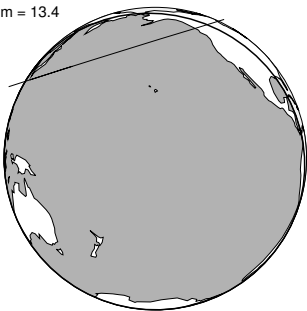
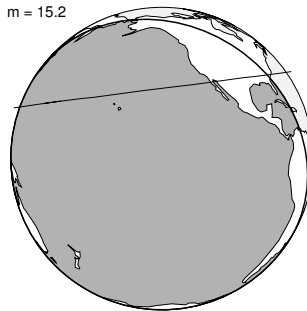
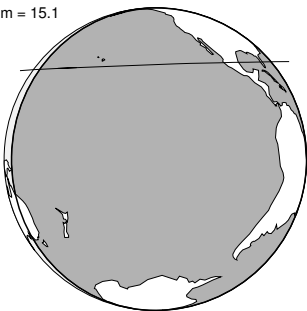
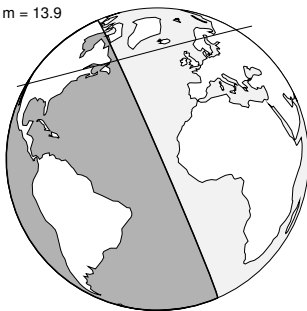
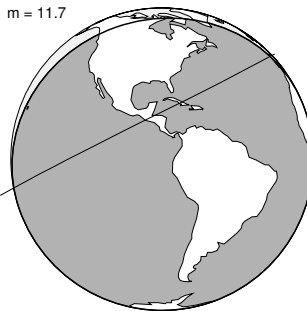
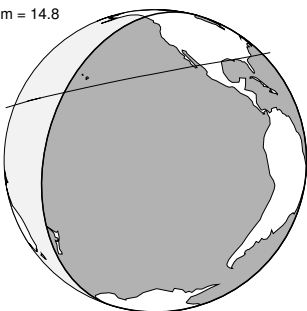
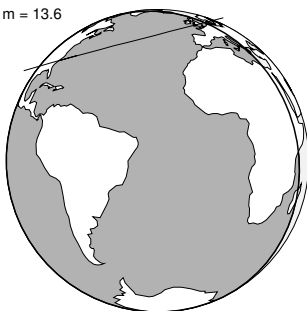
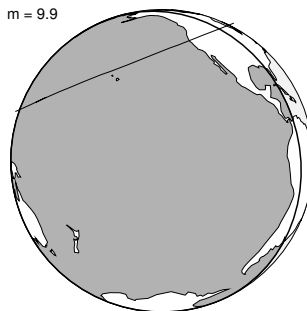
Occultations by major and minor planets – 2024

Region 1

2024 jun 17 3h 6.0m A24_06113 683 Lanzia TYC 6247–00321–1 Diam = 116.0 m = 12.4 m = 12.3  Dur = 8.2s Dmag = 0.7 Sun: 176° Moon: 56°	2024 jun 18 4h15.6m A24_06089 487 Venetia TYC 6300–02115–1 Diam = 64.0 m = 8.9 m = 12.1  Dur = 6.1s Dmag = 3.3 Sun: 159° Moon: 67°	2024 jun 18 8h55.4m A24_06082 449 Hamburga UCAC4 341–084147 Diam = 88.6 m = 12.3 m = 13.3  Dur = 7.8s Dmag = 1.4 Sun: 166° Moon: 31°	2024 jun 18 9h18.6m A24_06031 86 Semele TYC 0012–00414–1 Diam = 127.0 m = 11.9 m = 13.8  Dur = 4.7s Dmag = 2.1 Sun: 75° Moon: 148°
2024 jun 19 8h43.0m A24_06151 1032 Pafuri UCAC4 315–132505 Diam = 59.1 m = 11.0 m = 13.4  Dur = 5.6s Dmag = 2.5 Sun: 175° Moon: 35°	2024 jun 21 4h25.4m A24_06098 566 Stereokopia TYC 6864–01173–1 Diam = 175.0 m = 11.7 m = 13.0  Dur = 13.9s Dmag = 1.5 Sun: 166° Moon: 24°	2024 jun 22 2h58.5m A24_06195 3139 Shantou UCAC4 404–090038 Diam = 45.6 m = 12.1 m = 15.3  Dur = 3.2s Dmag = 3.3 Sun: 162° Moon: 21°	2024 jun 22 5h32.2m A24_06062 308 Polyxo UCAC4 369–108641 Diam = 148.0 m = 12.4 m = 11.6  Dur = 13.9s Dmag = 0.4 Sun: 172° Moon: 13°
2024 jun 25 0h44.7m A24_06171 1298 Nocturna UCAC4 374–065139 Diam = 47.3 m = 11.8 m = 16.6  Dur = 10.3s Dmag = 4.8 Sun: 110° Moon: 107°	2024 jun 25 2h45.8m B24_06016 471155 2010GF65 UCAC4 268–128729 Diam = 145.9 m = 13.6 m = 20.8  Dur = 6.7s Dmag = 7.2 Sun: 165° Moon: 46°	2024 jun 25 4h42.4m A24_06045 134 Sophrosyne UCAC4 246–134142 Diam = 107.0 m = 11.3 m = 12.8  Dur = 8.5s Dmag = 1.8 Sun: 161° Moon: 49°	2024 jun 26 5h33.1m A24_06133 814 Tauris HIP 59177 Diam = 116.0 m = 9.1 m = 15.7  Dur = 5.5s Dmag = 6.5 Sun: 78° Moon: 151°
2024 jun 26 8h 3.1m A24_06180 1315 Bronislawa UCAC4 370–141257 Diam = 65.5 m = 11.7 m = 14.1  Dur = 5.6s Dmag = 2.5 Sun: 171° Moon: 53°	2024 jun 26 11h10.7m A24_06107 611 Valeria UCAC4 482–134391 Diam = 59.0 m = 11.8 m = 14.8  Dur = 4.7s Dmag = 3.1 Sun: 96° Moon: 28°	2024 jun 27 6h42.3m B24_06022 2006HC123 UCAC4 313–105917 Diam = 142.6 m = 14.1 m = 23.5  Dur = 6.0s Dmag = 9.5 Sun: 161° Moon: 86°	2024 jun 28 2h30.3m A24_06093 489 Comacina UCAC4 434–065070 Diam = 144.0 m = 12.1 m = 13.2  Dur = 15.7s Dmag = 1.4 Sun: 144° Moon: 110°

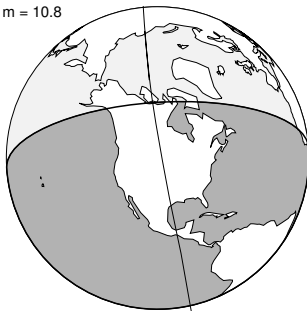
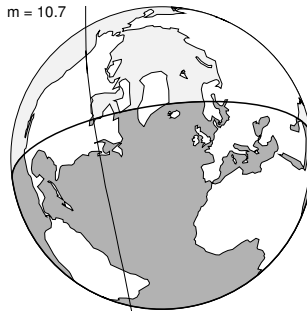
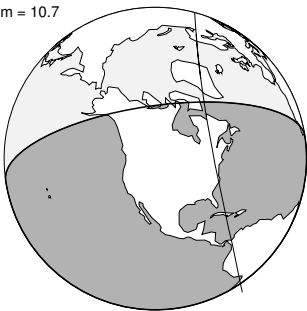
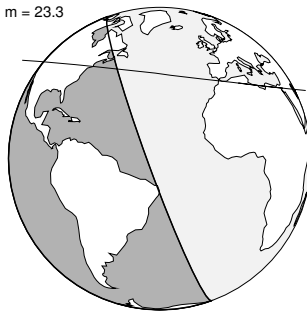
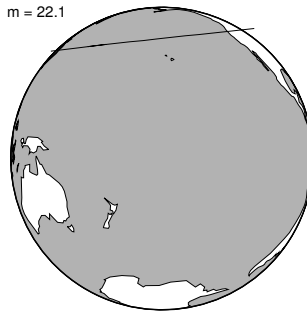
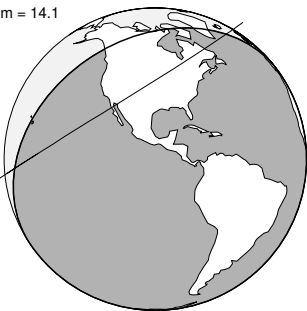
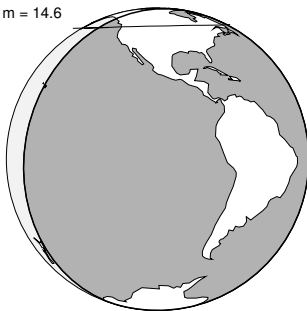
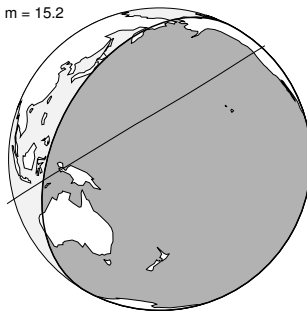
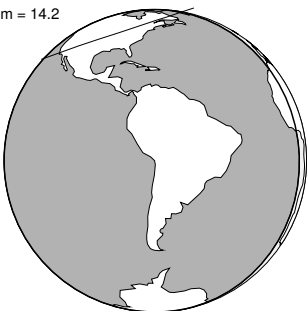
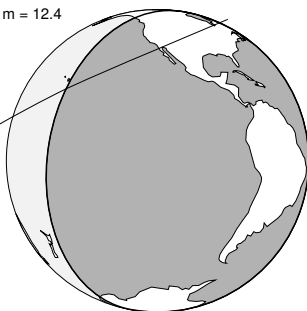
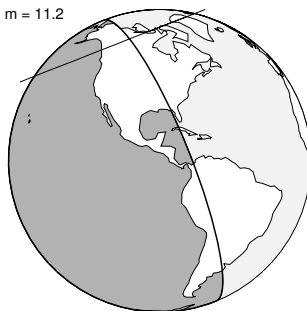
Occultations by major and minor planets – 2024

Region 1

2024 jun 28 5h34.1m A24_06090 487 Venetia PPMX 11709025 Diam = 64.0 m = 11.8  Dur = 5.4s Dmag = 0.8 Sun: 170° Moon: 73°	2024 jun 29 6h23.1m A24_06191 2655 Guangxi HIP 108009 Diam = 40.7 m = 8.9  Dur = 4.0s Dmag = 7.9 Sun: 135° Moon: 53°	2024 jun 30 7h24.7m A24_06153 1032 Pafuri TYC 6849-00959-1 Diam = 59.1 m = 10.8  Dur = 5.8s Dmag = 2.9 Sun: 169° Moon: 118°	2024 jul 1 8h37.4m A24_07157 1032 Pafuri TYC 6849-00511-1 Diam = 59.1 m = 10.8  Dur = 5.9s Dmag = 2.9 Sun: 168° Moon: 133°
2024 jul 2 11h 5.7m A24_07060 181 Eucharis UCAC4 415-124528 Diam = 107.0 m = 11.1  Dur = 6.8s Dmag = 2.4 Sun: 161° Moon: 122°	2024 jul 3 6h 1.0m A24_07001 1 Ceres UCAC4 305-266756 Diam = 952.5 m = 7.3  Dur = 74.3s Dmag = 0.0 Sun: 172° Moon: 143°	2024 jul 4 7h29.0m A24_07188 2356 Hiron UCAC4 459-114985 Diam = 49.2 m = 12.3  Dur = 4.8s Dmag = 3.6 Sun: 146° Moon: 126°	2024 jul 6 10h25.5m A24_07156 1030 Vitja UCAC4 452-110765 Diam = 65.5 m = 12.4  Dur = 5.7s Dmag = 2.8 Sun: 151° Moon: 151°
2024 jul 7 7h43.2m A24_07087 383 Janina TYC 6828-01385-1 Diam = 49.7 m = 11.3  Dur = 3.7s Dmag = 3.8 Sun: 162° Moon: 145°	2024 jul 9 7h15.4m A24_07115 547 Praxedis UCAC4 519-001225 Diam = 73.0 m = 12.5  Dur = 3.8s Dmag = 1.7 Sun: 91° Moon: 129°	2024 jul 10 6h40.5m A24_07038 76 Freia UCAC4 380-162875 Diam = 190.0 m = 11.2  Dur = 15.2s Dmag = 2.6 Sun: 154° Moon: 155°	2024 jul 11 5h14.2m A24_07048 130 Elektra UCAC4 446-084388 Diam = 189.0 m = 11.7  Dur = 13.1s Dmag = 0.6 Sun: 157° Moon: 112°
2024 jul 11 5h31.9m A24_07123 609 Fulvia UCAC4 372-075168 Diam = 56.3 m = 14.8  Dur = 12.0s Dmag = 2.9 Sun: 136° Moon: 77°	2024 jul 13 3h23.3m A24_07039 76 Freia TYC 5782-00555-1 Diam = 190.0 m = 11.9  Dur = 14.5s Dmag = 1.9 Sun: 157° Moon: 121°	2024 jul 15 2h 7.5m B24_07014 2001KG76 UCAC4 334-125558 Diam = 239.9 m = 14.7  Dur = 10.6s Dmag = 8.7 Sun: 155° Moon: 53°	2024 jul 15 10h55.1m A24_07009 16 Psyche UCAC4 381-166299 Diam = 264.0 m = 12.1  Dur = 32.3s Dmag = 0.1 Sun: 155° Moon: 98°

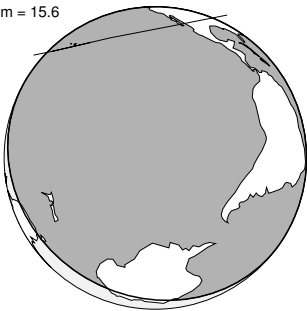
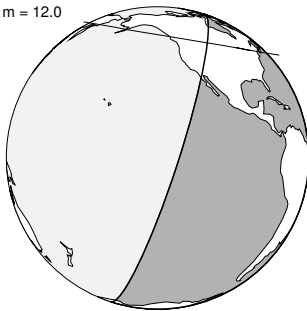
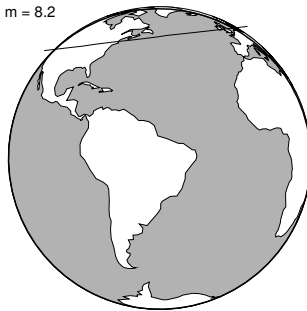
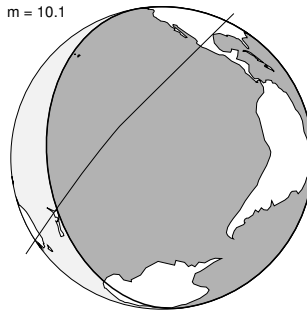
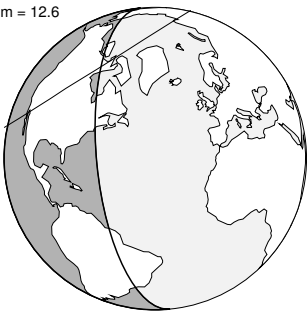
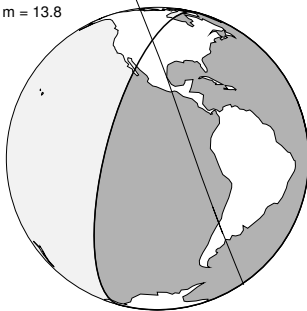
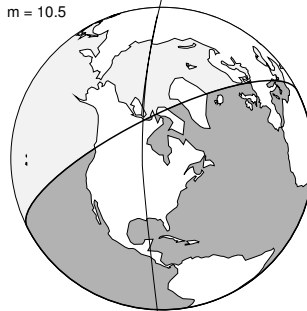
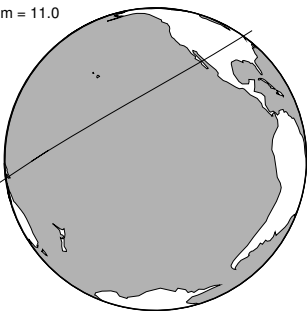
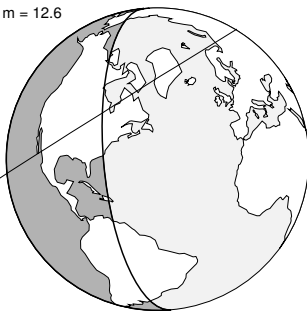
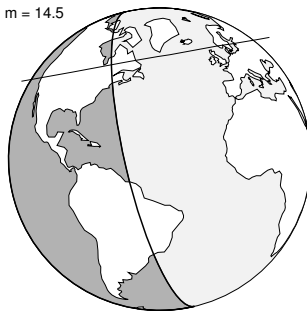
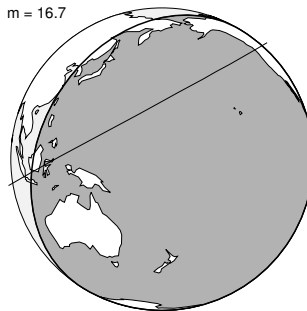
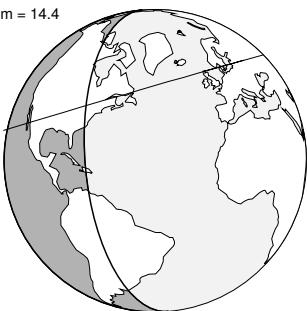
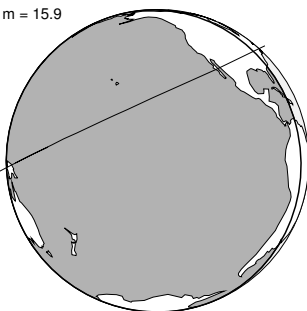
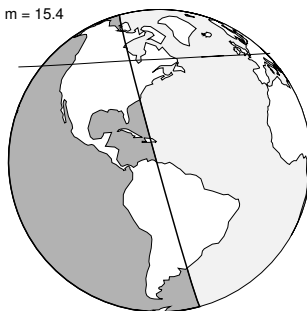
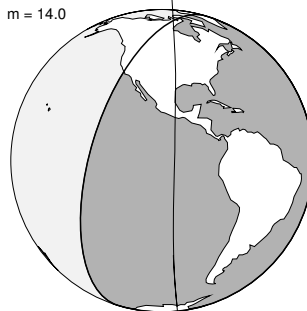
Occultations by major and minor planets – 2024

Region 1

2024 jul 16 2h38.4m B24_07013 2001KG76 UCAC4 334–125509 Diam = 239.9 m = 14.2 m = 23.3  Dur = 10.7s Dmag = 9.1 Sun: 154° Moon: 40°	2024 jul 16 6h37.8m A24_07163 1036 Ganymed UCAC4 686–069148 Diam = 41.0 m = 12.1 m = 10.8  Dur = 4.7s Dmag = 0.3 Sun: 111° Moon: 90°	2024 jul 17 5h36.7m A24_07008 16 Psyche UCAC4 381–166238 Diam = 264.0 m = 11.3 m = 9.9  Dur = 30.8s Dmag = 0.3 Sun: 156° Moon: 76°	2024 jul 20 1h33.7m A24_07165 1036 Ganymed UCAC4 693–067622 Diam = 41.0 m = 12.0 m = 10.7  Dur = 5.2s Dmag = 0.3 Sun: 110° Moon: 77°
2024 jul 20 6h43.4m A24_07164 1036 Ganymed UCAC4 694–066332 Diam = 41.0 m = 11.6 m = 10.7  Dur = 5.3s Dmag = 0.4 Sun: 110° Moon: 77°	2024 jul 21 3h45.7m A24_07111 471 Papagena TYC 7393–00662–1 Diam = 127.0 m = 12.0 m = 11.2  Dur = 10.5s Dmag = 0.4 Sun: 155° Moon: 20°	2024 jul 21 8h37.3m A24_07201 2013TK172 TYC 0044–00938–1 Diam = 174.6 m = 10.6 m = 23.3  Dur = 22.7s Dmag = 12.7 Sun: 85° Moon: 95°	2024 jul 21 10h41.9m A24_07202 2014OJ394 UCAC4 343–197199 Diam = 376.7 m = 12.4 m = 22.1  Dur = 14.5s Dmag = 9.7 Sun: 178° Moon: 4°
2024 jul 22 5h 4.9m A24_07142 754 Malabar TYC 1029–03701–1 Diam = 89.1 m = 11.5 m = 14.1  Dur = 6.8s Dmag = 2.7 Sun: 142° Moon: 46°	2024 jul 24 5h 3.2m A24_07180 1315 Bronislawa UCAC4 371–123474 Diam = 65.5 m = 11.5 m = 14.6  Dur = 7.8s Dmag = 3.2 Sun: 151° Moon: 66°	2024 jul 25 9h43.8m A24_07105 439 Ohio TYC 0414–00825–1 Diam = 79.3 m = 10.8 m = 15.2  Dur = 9.1s Dmag = 4.4 Sun: 134° Moon: 94°	2024 jul 27 3h12.0m A24_07117 566 Stereokopia UCAC4 320–187499 Diam = 175.0 m = 12.3 m = 13.2  Dur = 17.1s Dmag = 1.3 Sun: 152° Moon: 105°
2024 jul 27 6h 2.4m A24_07070 302 Clarissa TYC 6366–00146–1 Diam = 47.0 m = 10.8 m = 14.2  Dur = 5.0s Dmag = 3.5 Sun: 162° Moon: 62°	2024 jul 28 4h51.5m A24_07073 308 Polyxo UCAC5 366–086575 Diam = 148.0 m = 12.5 m = 12.4  Dur = 38.6s Dmag = 0.7 Sun: 136° Moon: 133°	2024 jul 28 10h59.1m A24_07011 19 Fortuna TYC 0617–00767–1 Diam = 149.0 m = 11.5 m = 11.2  Dur = 10.7s Dmag = 0.6 Sun: 101° Moon: 16°	2024 jul 29 4h31.4m A24_07044 102 Miriam UCAC4 398–126952 Diam = 86.0 m = 12.0 m = 11.7  Dur = 11.1s Dmag = 0.6 Sun: 169° Moon: 108°

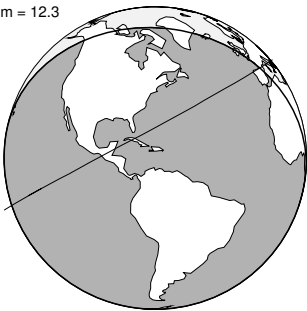
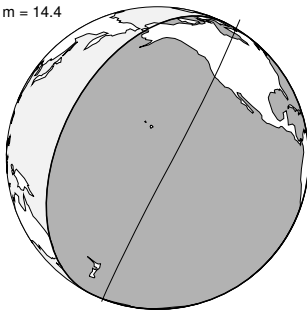
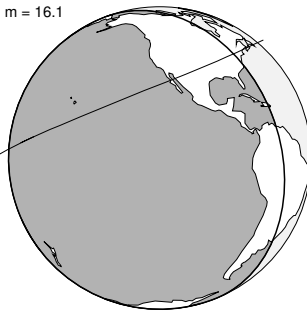
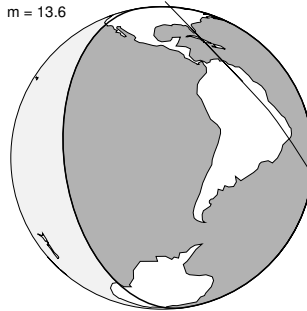
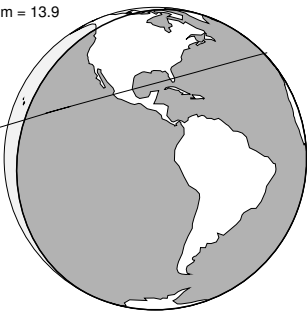
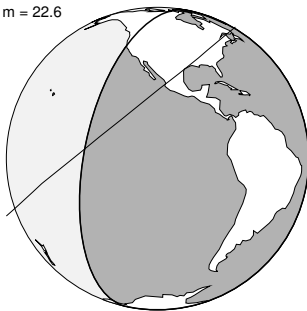
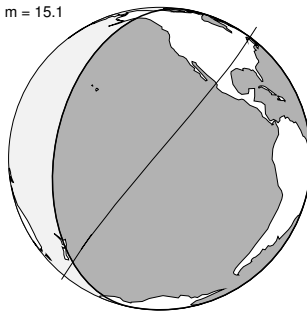
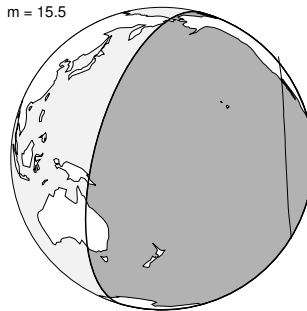
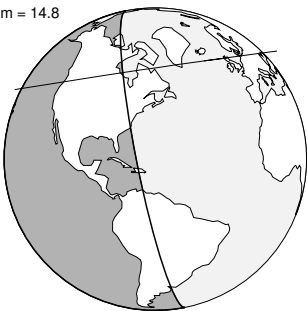
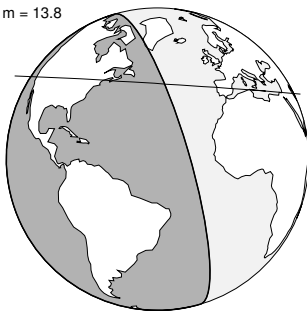
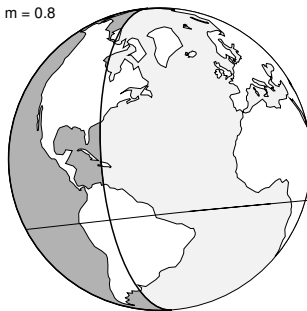
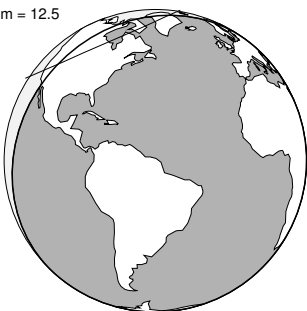
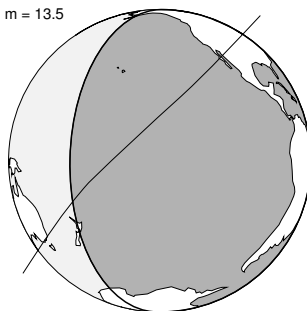
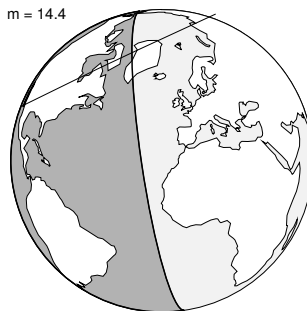
Occultations by major and minor planets – 2024

Region 1

2024 jul 29 7h18.0m A24_07191 2725 David Bender TYC 7933–03137–1 Diam = 42.0 m = 10.6 m = 15.6  Dur = 3.1s Dmag = 4.9 Sun: 156° Moon: 121°	2024 aug 2 2h34.4m A24_08005 25 Phocaea TYC 4976–00358–1 Diam = 78.0 m = 10.4 m = 12.0  Dur = 3.9s Dmag = 1.8 Sun: 82° Moon: 108°	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 3 5h15.2m A24_08015 42 Isis UCAC4 298–157570 Diam = 107.0 m = 11.8 m = 10.1  Dur = 47.3s Dmag = 0.2 Sun: 139° Moon: 154°
2024 aug 3 9h40.8m A24_08068 247 Eukrate UCAC4 627–014128 Diam = 137.0 m = 11.1 m = 12.6  Dur = 4.0s Dmag = 1.8 Sun: 67° Moon: 54°	2024 aug 4 2h 5.3m A24_08111 618 Elfriede UCAC4 399–061445 Diam = 124.0 m = 11.9 m = 13.8  Dur = 12.6s Dmag = 2.0 Sun: 110° Moon: 114°	2024 aug 5 5h18.6m A24_08132 866 Fatme TYC 6883–00718–1 Diam = 91.7 m = 10.8 m = 13.8  Dur = 9.5s Dmag = 3.0 Sun: 154° Moon: 146°	2024 aug 7 3h51.6m A24_08139 1036 Ganymed TYC 3921–00134–1 Diam = 41.0 m = 11.1 m = 10.5  Dur = 11.6s Dmag = 0.5 Sun: 106° Moon: 103°
2024 aug 7 8h30.1m A24_08082 335 Roberta UCAC4 375–177420 Diam = 93.6 m = 11.0 m = 11.0  Dur = 12.7s Dmag = 0.2 Sun: 174° Moon: 143°	2024 aug 7 10h24.1m A24_08069 247 Eukrate UCAC5 632–015198 Diam = 137.0 m = 12.5 m = 12.6  Dur = 4.1s Dmag = 0.8 Sun: 69° Moon: 101°	2024 aug 8 9h40.7m A24_08087 380 Fiducia TYC 0664–00383–1 Diam = 76.3 m = 11.6 m = 14.5  Dur = 3.2s Dmag = 3.0 Sun: 76° Moon: 120°	2024 aug 8 10h36.5m A24_08160 2235 Vittore UCAC4 461–089520 Diam = 54.6 m = 11.9 m = 16.7  Dur = 4.0s Dmag = 4.7 Sun: 144° Moon: 107°
2024 aug 9 10h28.3m A24_08107 508 Princetonia UCAC4 578–012769 Diam = 147.0 m = 11.6 m = 14.4  Dur = 5.0s Dmag = 2.8 Sun: 62° Moon: 117°	2024 aug 9 10h38.0m A24_08155 1581 Abanderada TYC 5814–01571–1 Diam = 40.0 m = 11.5 m = 15.9  Dur = 3.1s Dmag = 4.4 Sun: 160° Moon: 144°	2024 aug 10 10h25.9m A24_08146 1085 Amaryllis TYC 0652–00734–1 Diam = 72.3 m = 11.0 m = 15.4  Dur = 4.5s Dmag = 4.4 Sun: 88° Moon: 153°	2024 aug 11 2h54.7m A24_08104 483 Seppina TYC 5066–00629–1 Diam = 73.5 m = 11.6 m = 14.0  Dur = 8.1s Dmag = 2.5 Sun: 118° Moon: 53°

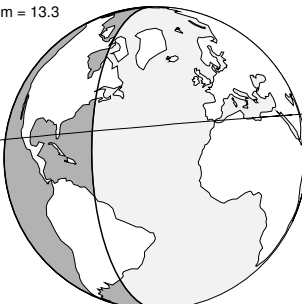
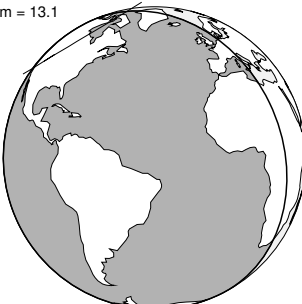
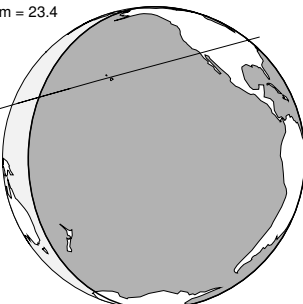
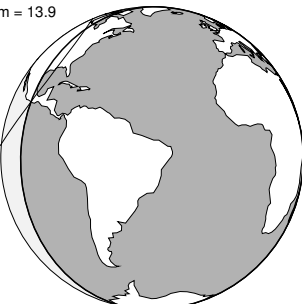
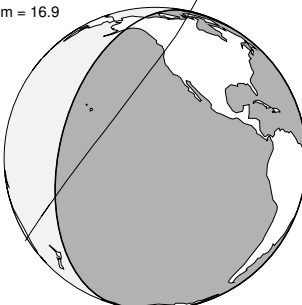
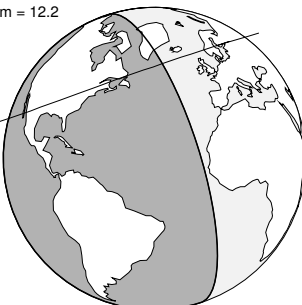
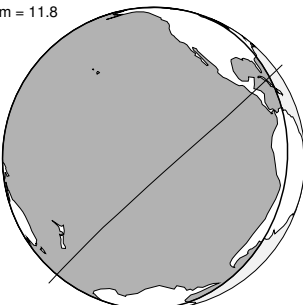
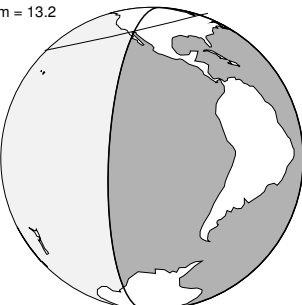
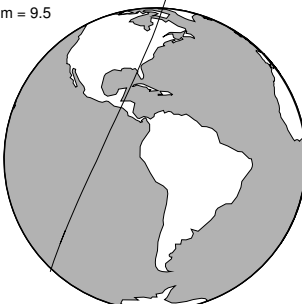
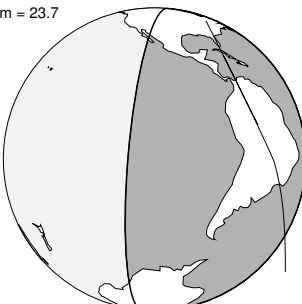
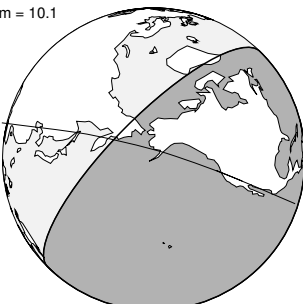
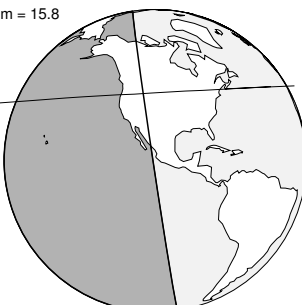
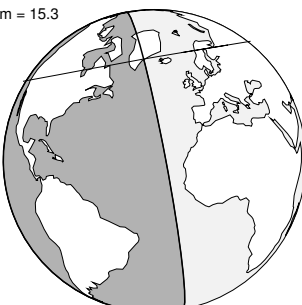
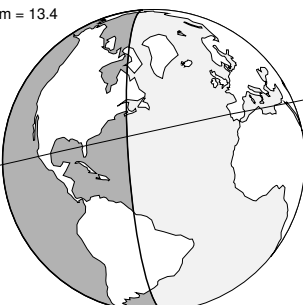
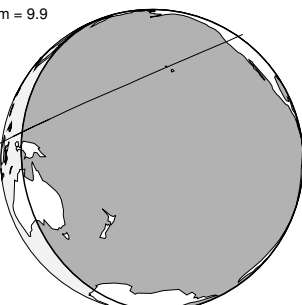
Occultations by major and minor planets – 2024

Region 1

2024 aug 12 5h 8.7m A24_08053 176 Iduna UCAC4 528–148493 Diam = 125.0 m = 12.3  Dur = 11.6s Dmag = 0.7 Sun: 149° Moon: 109°	2024 aug 12 7h19.2m A24_08128 754 Malabar TYC 1024–02302–1 Diam = 89.1 m = 14.4  Dur = 7.3s Dmag = 3.3 Sun: 130° Moon: 61°	2024 aug 12 10h23.6m A24_08159 2032 Ethel TYC 5256–00020–1 Diam = 42.0 m = 11.4 Diam = 42.0 m = 16.1  Dur = 8.4s Dmag = 4.8 Sun: 142° Moon: 129°	2024 aug 13 2h57.4m A24_08045 151 Abundantia TYC 7395–00302–1 Diam = 46.7 m = 10.6 Diam = 46.7 m = 13.6  Dur = 20.0s Dmag = 3.0 Sun: 130° Moon: 35°
2024 aug 13 4h20.8m A24_08130 838 Seraphina TYC 5155–01265–1 Diam = 63.1 m = 9.6 Diam = 63.1 m = 13.9  Dur = 7.2s Dmag = 4.4 Sun: 154° Moon: 65°	2024 aug 14 3h10.7m B24_08009 579246 2014OX415 UCAC4 408–072926 Diam = 112.2 m = 14.7 Diam = 112.2 m = 22.6  Dur = 9.8s Dmag = 7.9 Sun: 119° Moon: 23°	2024 aug 15 5h35.5m A24_08134 874 Rotraut UCAC4 408–081732 Diam = 58.3 m = 11.2 Diam = 58.3 m = 15.1  Dur = 8.9s Dmag = 3.9 Sun: 134° Moon: 25°	2024 aug 15 8h 5.1m A24_08098 439 Ohio UCAC4 448–069063 Diam = 79.3 m = 11.9 Diam = 79.3 m = 15.5  Dur = 11.1s Dmag = 3.6 Sun: 116° Moon: 28°
2024 aug 17 10h30.4m A24_08048 156 Xanthippe TYC 1813–00814–1 Diam = 126.0 m = 10.8 Diam = 126.0 m = 14.8  Dur = 7.5s Dmag = 4.0 Sun: 82° Moon: 129°	2024 aug 19 7h38.7m A24_08041 136 Austria UCAC4 520–004749 Diam = 41.7 m = 12.0 Diam = 41.7 m = 13.8  Dur = 3.5s Dmag = 2.0 Sun: 102° Moon: 84°	2024 aug 19 10h36.4m P24_08001 Mars TYC 1846–00598–1 Diam = 6759.2 m = 8.9 Diam = 6759.2 m = 0.8  Dur = 233.3s Dmag = 0.0 Sun: 67° Moon: 117°	2024 aug 21 5h43.8m A24_08071 266 Aline TYC 0520–00884–1 Diam = 113.0 m = 11.4 Diam = 113.0 m = 12.5  Dur = 11.4s Dmag = 1.5 Sun: 155° Moon: 40°
2024 aug 22 2h19.0m A24_08072 266 Aline UCAC4 473–124873 Diam = 113.0 m = 12.1 Diam = 113.0 m = 12.5  Dur = 11.5s Dmag = 1.0 Sun: 154° Moon: 50°	2024 aug 23 0h51.9m A24_08022 43 Ariadne UCAC5 347–080239 Diam = 65.3 m = 12.4 Diam = 65.3 m = 11.2  Dur = 5.0s Dmag = 0.3 Sun: 104° Moon: 121°	2024 aug 23 5h45.0m A24_08052 168 Sibylla UCAC4 364–131702 Diam = 154.0 m = 12.2 Diam = 154.0 m = 13.5  Dur = 58.2s Dmag = 1.6 Sun: 126° Moon: 101°	2024 aug 23 7h20.1m A24_08086 366 Vincentina UCAC4 606–012428 Diam = 98.1 m = 12.3 Diam = 98.1 m = 14.4  Dur = 4.9s Dmag = 2.3 Sun: 82° Moon: 49°

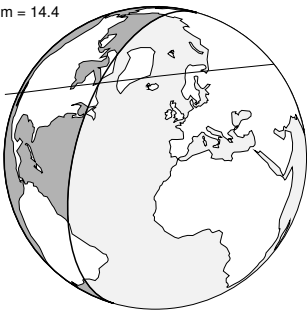
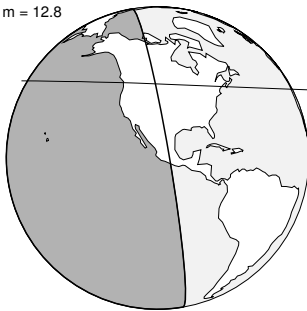
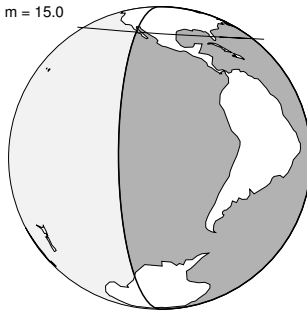
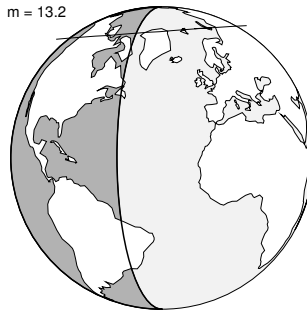
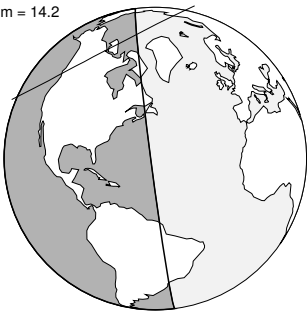
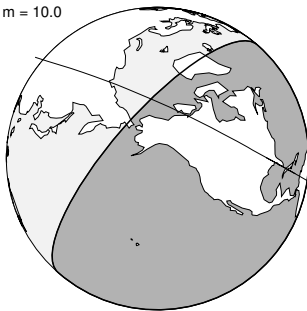
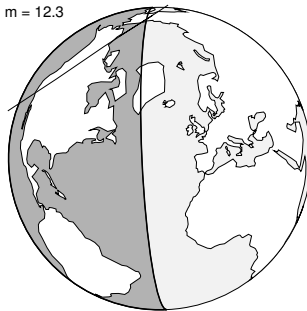
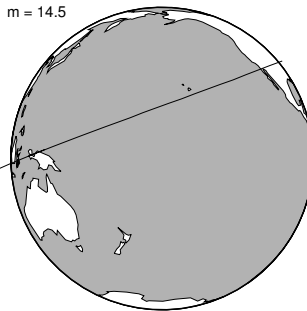
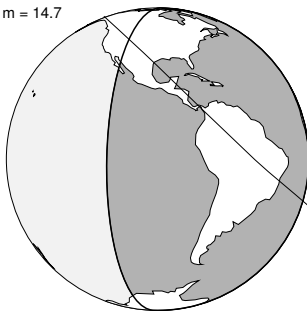
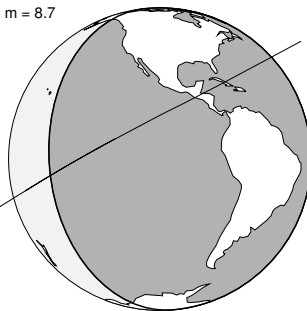
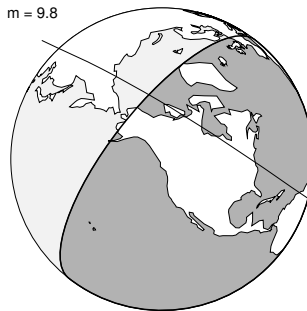
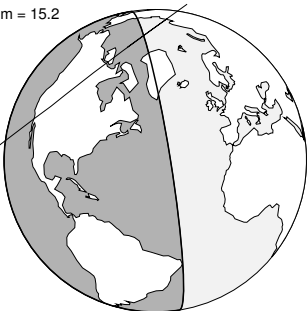
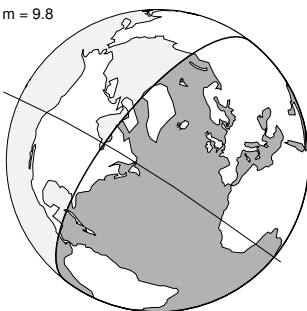
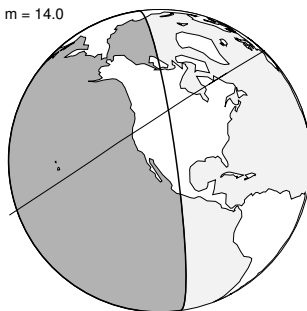
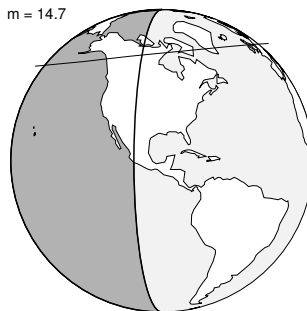
Occultations by major and minor planets – 2024

Region 1

2024 aug 23 9h51.0m A24_08006 26 Proserpina TYC 1865–00290–1 Diam = 98.7 m = 11.0 m = 13.3  Dur = 3.5s Dmag = 2.4 Sun: 65° Moon: 64°	2024 aug 24 4h30.5m A24_08009 34 Circe TYC 0005–00108–1 Diam = 118.0 m = 10.8 m = 13.1  Dur = 13.2s Dmag = 2.4 Sun: 147° Moon: 29°	2024 aug 25 6h56.8m B24_08011 2004LY32 UCAC5 388–126959 Diam = 154.2 m = 14.9 m = 23.4  Dur = 7.9s Dmag = 8.5 Sun: 146° Moon: 108°	2024 aug 26 0h51.5m A24_08119 688 Melanie UCAC4 402–121510 Diam = 44.0 m = 11.8 m = 13.9  Dur = 6.0s Dmag = 2.2 Sun: 150° Moon: 113°
2024 aug 26 5h18.4m A24_08162 2235 Vittore TYC 0462–01408–1 Diam = 54.6 m = 9.1 m = 16.9  Dur = 5.2s Dmag = 7.8 Sun: 129° Moon: 127°	2024 aug 26 7h 6.9m A24_08074 270 Anahita TYC 1226–01655–1 Diam = 52.2 m = 10.7 m = 12.2  Dur = 5.5s Dmag = 1.7 Sun: 107° Moon: 16°	2024 aug 27 10h43.8m A24_08091 410 Chloris UCAC4 367–000375 Diam = 128.0 m = 11.8 m = 11.8  Dur = 13.8s Dmag = 0.8 Sun: 151° Moon: 82°	2024 aug 28 2h 1.3m A24_08036 111 Ate Gaia 065–0187599 Diam = 139.0 m = 11.6 m = 13.2  Dur = 17.2s Dmag = 1.8 Sun: 106° Moon: 175°
2024 aug 29 5h22.4m A24_08057 194 Prokne TYC 5241–00920–1 Diam = 174.0 m = 11.3 m = 9.5  Dur = 16.6s Dmag = 0.2 Sun: 174° Moon: 119°	2024 aug 30 1h44.1m B24_08013 2006HC123 UCAC4 313–102762 Diam = 142.6 m = 14.8 m = 23.7  Dur = 89.5s Dmag = 8.9 Sun: 100° Moon: 146°	2024 aug 30 7h53.1m A24_08141 1036 Ganymed TYC 3938–01581–1 Diam = 41.0 m = 11.0 m = 10.1  Dur = 10.3s Dmag = 0.4 Sun: 106° Moon: 99°	2024 aug 30 7h53.4m A24_08062 218 Bianca UCAC4 459–001269 Diam = 62.0 m = 12.0 m = 12.9  Dur = 6.5s Dmag = 1.3 Sun: 142° Moon: 100°
2024 aug 31 12h55.8m A24_08138 1004 Belopolskya UCAC4 545–009720 Diam = 76.6 m = 12.4 m = 15.8  Dur = 4.7s Dmag = 3.4 Sun: 89° Moon: 61°	2024 sep 1 7h22.0m A24_09199 1057 Wanda TYC 1814–00965–1 Diam = 49.1 m = 8.6 m = 15.3  Dur = 3.0s Dmag = 6.7 Sun: 94° Moon: 74°	2024 sep 1 9h48.1m A24_09028 47 Aglaja UCAC4 586–015213 Diam = 137.0 m = 11.9 m = 13.4  Dur = 6.8s Dmag = 1.8 Sun: 80° Moon: 62°	2024 sep 2 8h52.9m A24_09010 16 Psyche UCAC4 364–180479 Diam = 264.0 m = 12.4 m = 9.9  Dur = 36.9s Dmag = 0.1 Sun: 148° Moon: 156°

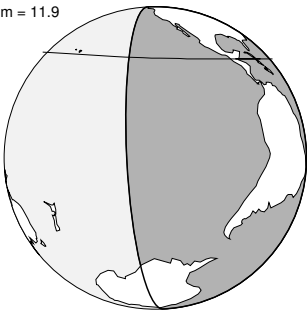
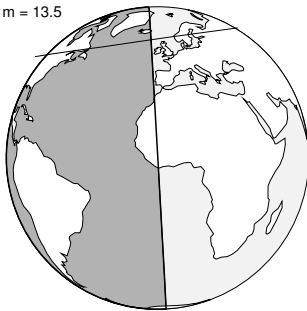
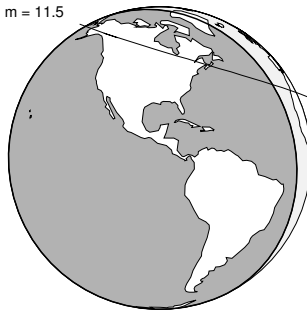
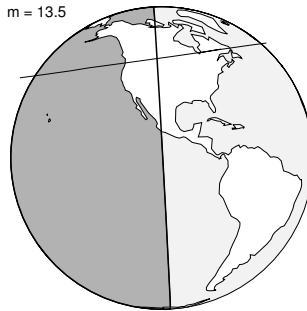
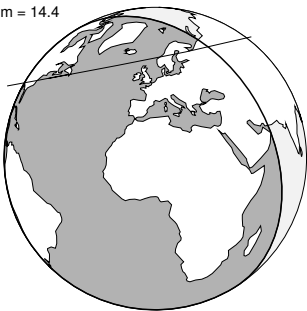
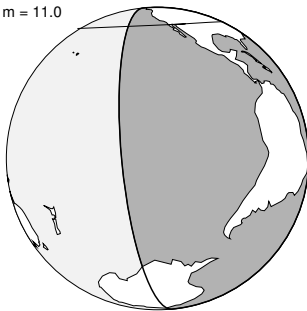
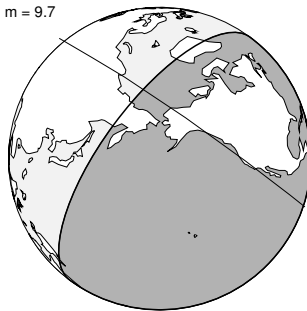
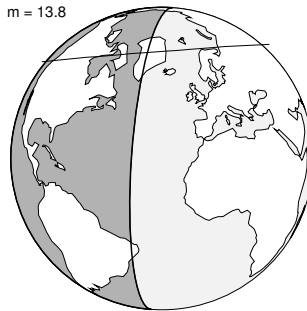
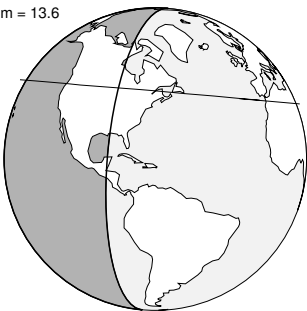
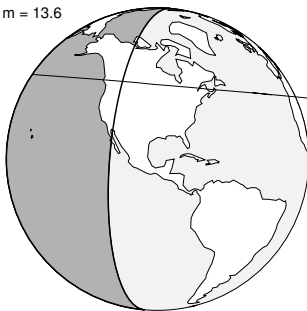
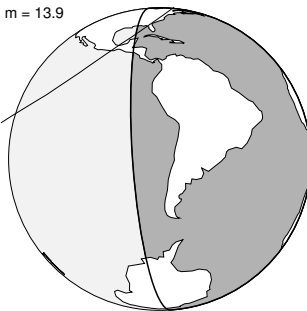
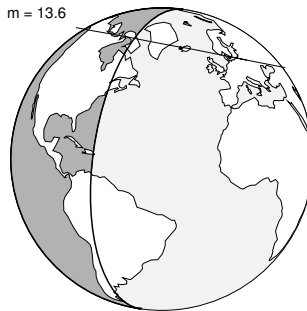
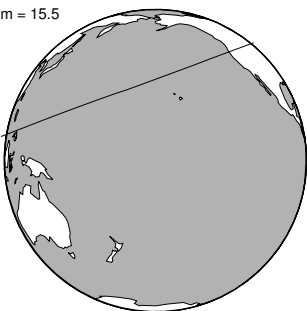
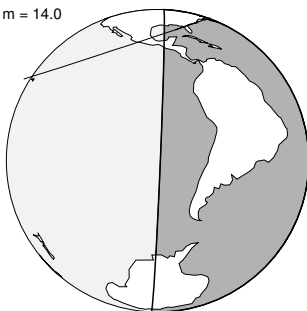
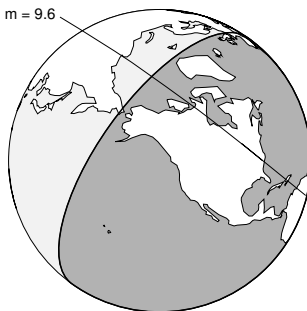
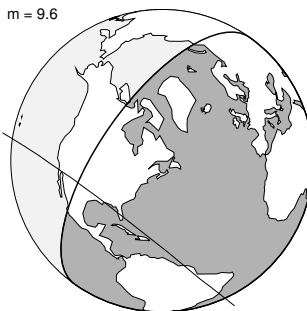
Occultations by major and minor planets – 2024

Region 1

2024 sep 2 9h24.1m A24_09127 595 Polyxena TYC 2450–00893–1 Diam = 114.0 m = 11.0 m = 14.4  Dur = 3.6s Dmag = 3.4 Sun: 57° Moon: 50°	2024 sep 2 12h29.2m A24_09034 67 Asia TYC 1272–00403–1 Diam = 60.0 m = 10.6 m = 12.8  Dur = 4.4s Dmag = 2.4 Sun: 94° Moon: 88°	2024 sep 3 1h53.3m A24_09160 1032 Pafuri UCAC5 304–131343 Diam = 59.1 m = 12.5 m = 15.0  Dur = 5.7s Dmag = 2.6 Sun: 105° Moon: 106°	2024 sep 3 9h 9.3m A24_09011 26 Proserpina UCAC4 574–020399 Diam = 98.7 m = 12.3 m = 13.2  Dur = 4.1s Dmag = 1.3 Sun: 72° Moon: 76°
2024 sep 3 9h26.2m A24_09095 361 Bononia UCAC4 600–014261 Diam = 149.0 m = 12.4 m = 14.2  Dur = 7.8s Dmag = 2.0 Sun: 88° Moon: 91°	2024 sep 5 6h43.3m A24_09165 1036 Ganymed TYC 3939–01740–1 Diam = 41.0 m = 10.3 m = 10.0  Dur = 7.4s Dmag = 0.6 Sun: 107° Moon: 105°	2024 sep 5 8h 0.6m A24_09078 247 Eukrate UCAC4 670–034413 Diam = 137.0 m = 12.0 m = 12.3  Dur = 5.1s Dmag = 0.9 Sun: 83° Moon: 106°	2024 sep 5 10h58.2m A24_09150 828 Lindemania TYC 5813–00235–1 Diam = 55.8 m = 11.7 m = 14.5  Dur = 4.5s Dmag = 2.9 Sun: 177° Moon: 152°
2024 sep 6 4h 5.3m B24_09003 523653 2011OA60 UCAC4 358–204308 Diam = 409.3 m = 14.8 m = 20.7  Dur = 20.3s Dmag = 5.9 Sun: 148° Moon: 114°	2024 sep 9 1h35.7m A24_09123 589 Croatia TYC 5698–05175–1 Diam = 92.5 m = 11.5 m = 14.7  Dur = 11.0s Dmag = 3.3 Sun: 109° Moon: 47°	2024 sep 12 4h 4.9m A24_09005 7 Iris TYC 5758–01212–1 Diam = 329.6 m = 9.4 m = 8.7  Dur = 93.9s Dmag = 0.5 Sun: 136° Moon: 39°	2024 sep 12 5h13.2m A24_09168 1036 Ganymed TYC 3936–01716–1 Diam = 41.0 m = 10.4 m = 9.8  Dur = 5.5s Dmag = 0.5 Sun: 110° Moon: 86°
2024 sep 12 8h16.1m A24_09115 493 Griseldis UCAC4 632–018942 Diam = 52.0 m = 12.4 m = 15.2  Dur = 3.1s Dmag = 2.9 Sun: 95° Moon: 159°	2024 sep 12 23h35.4m A24_09169 1036 Ganymed UCAC5 715–065495 Diam = 41.0 m = 12.4 m = 9.8  Dur = 5.3s Dmag = 0.1 Sun: 110° Moon: 83°	2024 sep 13 12h39.2m A24_09096 361 Bononia Gaia 121–0026945 Diam = 149.0 m = 11.3 m = 14.0  Dur = 9.7s Dmag = 2.8 Sun: 96° Moon: 146°	2024 sep 13 12h45.2m A24_09136 691 Lehigh TYC 1321–01037–1 Diam = 92.6 m = 9.5 m = 14.7  Dur = 4.2s Dmag = 5.2 Sun: 79° Moon: 161°

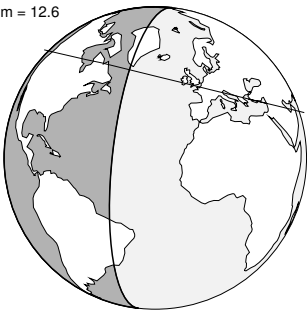
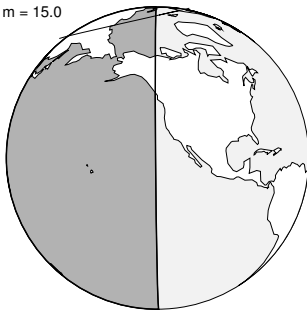
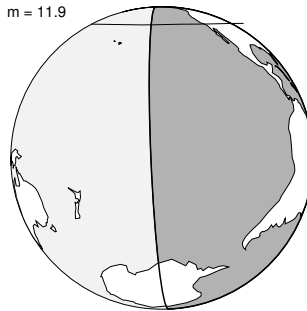
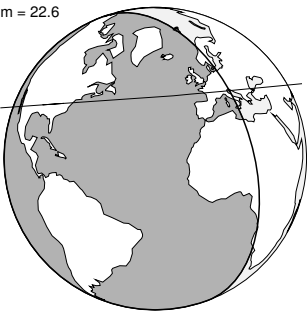
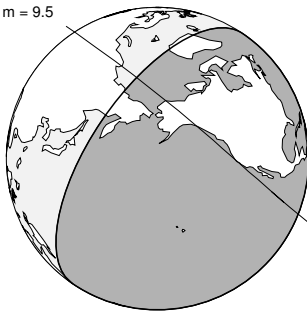
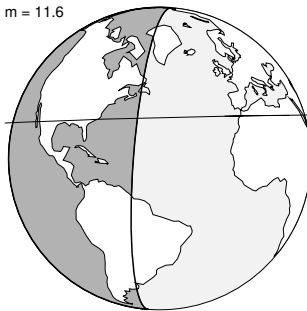
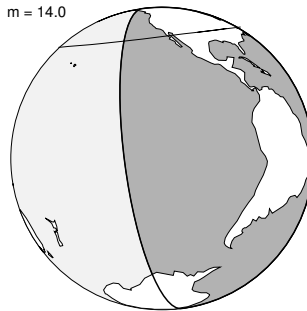
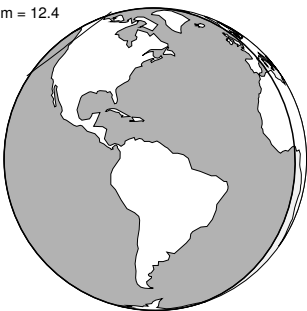
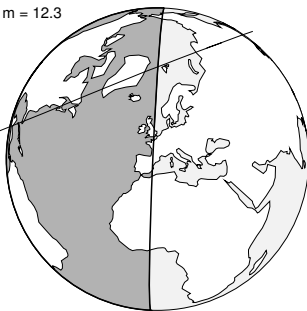
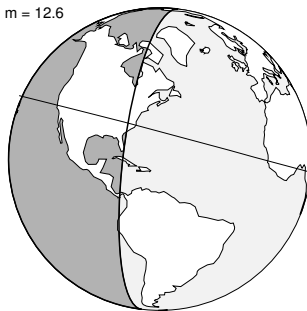
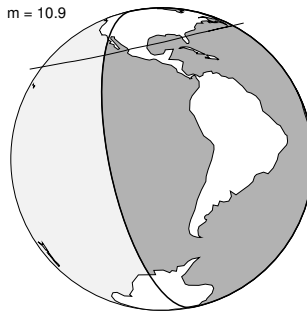
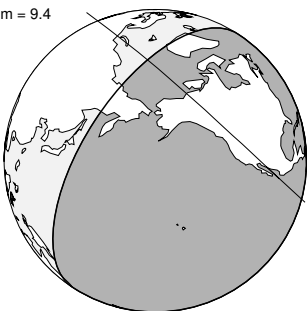
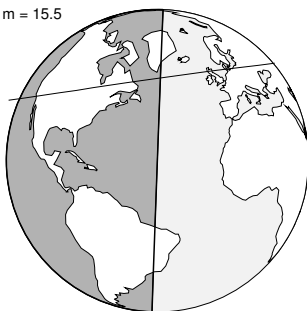
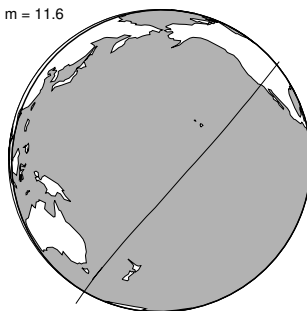
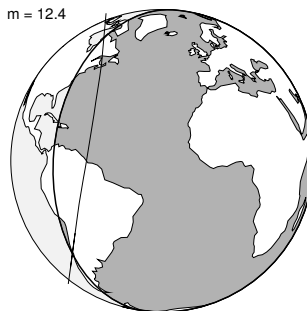
Occultations by major and minor planets – 2024

Region 1

2024 sep 14 2h53.5m A24_09111 471 Papagena UCAC5 292–151631 Diam = 127.0 m = 12.5 m = 11.9  Dur = 14.5s Dmag = 0.5 Sun: 100° Moon: 24°	2024 sep 14 6h25.7m A24_09091 350 Ornamenta UCAC4 492–011817 Diam = 123.0 m = 12.1 m = 13.5  Dur = 7.7s Dmag = 1.7 Sun: 90° Moon: 138°	2024 sep 14 7h37.5m A24_09048 109 Felicitas HIP 5406 Diam = 91.0 m = 8.0 m = 11.5  Dur = 18.2s Dmag = 3.5 Sun: 152° Moon: 80°	2024 sep 14 12h45.7m A24_09092 350 Ornamenta UCAC4 492–011843 Diam = 123.0 m = 12.5 m = 13.5  Dur = 7.7s Dmag = 1.3 Sun: 90° Moon: 135°
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 2h58.1m A24_09022 42 Isis TYC 7394–00829–1 Diam = 107.0 m = 12.4 m = 11.0  Dur = 8.2s Dmag = 0.3 Sun: 103° Moon: 48°	2024 sep 16 8h 2.1m A24_09173 1036 Ganymed TYC 3584–01275–1 Diam = 41.0 m = 11.7 m = 9.7  Dur = 4.7s Dmag = 0.2 Sun: 112° Moon: 70°	2024 sep 16 8h26.7m A24_09050 120 Lachesis TYC 2421–00034–1 Diam = 178.0 m = 10.9 m = 13.8  Dur = 8.4s Dmag = 3.0 Sun: 78° Moon: 127°
2024 sep 16 11h46.5m A24_09075 240 Vanadis UCAC4 558–035684 Diam = 108.0 m = 12.2 m = 13.6  Dur = 3.8s Dmag = 1.6 Sun: 71° Moon: 131°	2024 sep 16 13h25.3m A24_09076 240 Vanadis PPMX 6064714 Diam = 108.0 m = 12.2 m = 13.6  Dur = 3.8s Dmag = 1.6 Sun: 71° Moon: 130°	2024 sep 16 23h50.4m A24_09145 760 Massinga TYC 7397–00343–1 Diam = 74.8 m = 11.4 m = 13.9  Dur = 6.0s Dmag = 2.6 Sun: 100° Moon: 64°	2024 sep 18 10h27.8m A24_09033 65 Cybele TYC 1369–00475–1 Diam = 230.0 m = 11.0 m = 13.6  Dur = 8.5s Dmag = 2.7 Sun: 62° Moon: 112°
2024 sep 18 10h41.9m A24_09218 2032 Ethel UCAC4 426–133861 Diam = 42.0 m = 11.6 m = 15.5  Dur = 4.0s Dmag = 3.8 Sun: 175° Moon: 10°	2024 sep 19 0h 4.1m A24_09054 134 Sophrosyne UCAC4 280–122972 Diam = 107.0 m = 12.4 m = 14.0  Dur = 6.1s Dmag = 1.8 Sun: 88° Moon: 104°	2024 sep 19 5h39.9m A24_09177 1036 Ganymed UCAC4 704–076129 Diam = 41.0 m = 11.0 m = 9.6  Dur = 4.3s Dmag = 0.3 Sun: 113° Moon: 69°	2024 sep 20 0h54.5m A24_09178 1036 Ganymed UCAC5 702–075505 Diam = 41.0 m = 12.5 m = 9.6  Dur = 4.2s Dmag = 0.1 Sun: 114° Moon: 70°

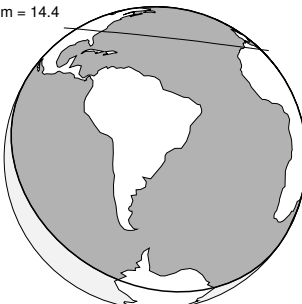
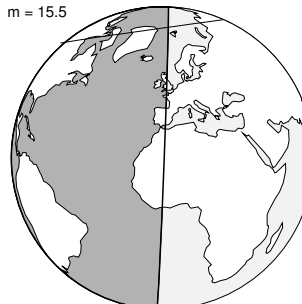
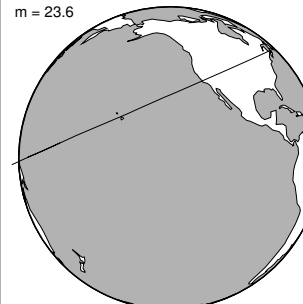
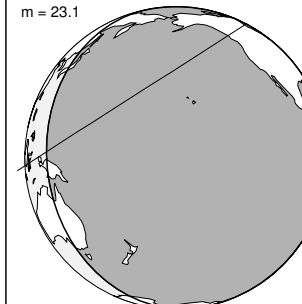
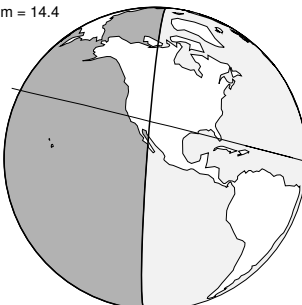
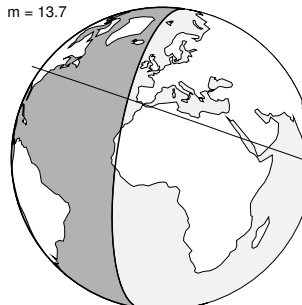
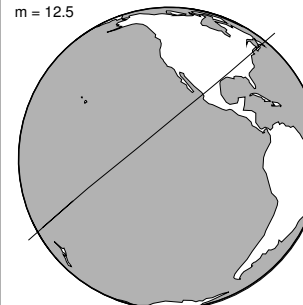
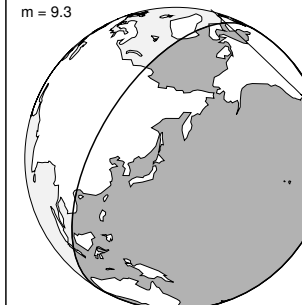
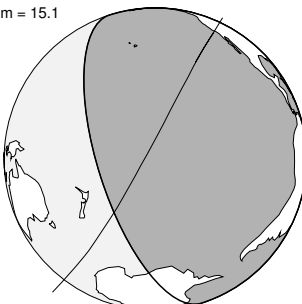
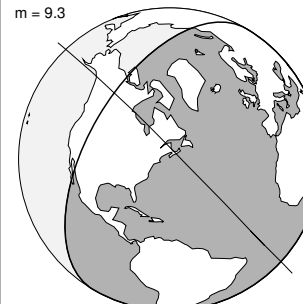
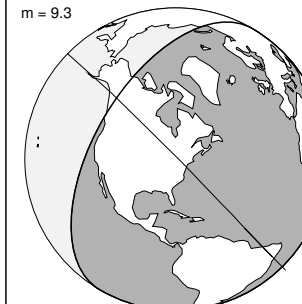
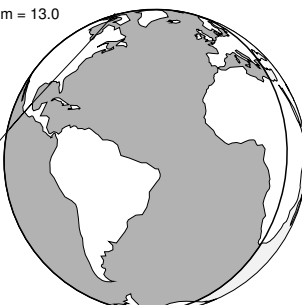
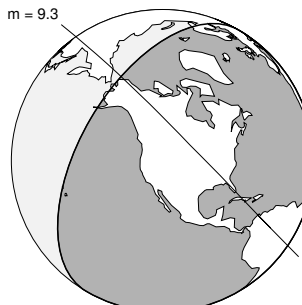
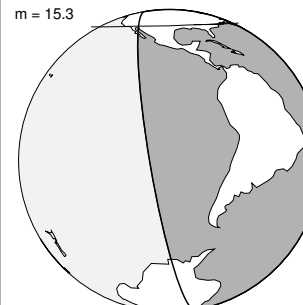
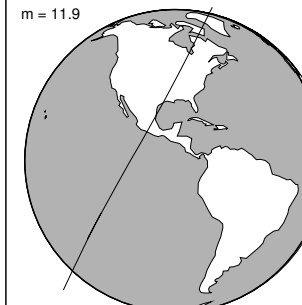
Occultations by major and minor planets – 2024

Region 1

2024 sep 20 8h51.5m A24_09134 675 Ludmilla TYC 1895–01793–1 Diam = 109.1 m = 10.1 m = 12.6  Dur = 4.1s Dmag = 2.6 Sun: 73° Moon: 75°	2024 sep 20 14h26.9m A24_09121 578 Hapelia HIP 27830 Diam = 71.6 m = 4.5 m = 15.0  Dur = 5.0s Dmag = 10.4 Sun: 89° Moon: 55°	2024 sep 20 23h38.9m A24_09209 1315 Bronislawa UCAC4 367–121631 Diam = 65.5 m = 12.3 m = 15.5  Dur = 4.8s Dmag = 3.3 Sun: 96° Moon: 123°	2024 sep 22 3h25.2m A24_09113 471 Papagena UCAC4 292–169377 Diam = 127.0 m = 12.1 m = 11.9  Dur = 10.4s Dmag = 0.7 Sun: 94° Moon: 142°
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 7h44.9m A24_09180 1036 Ganymed UCAC4 694–083464 Diam = 41.0 m = 11.7 m = 9.5  Dur = 3.8s Dmag = 0.1 Sun: 116° Moon: 86°	2024 sep 23 9h44.9m A24_09007 14 Irene TYC 1342–00182–1 Diam = 152.4 m = 9.3 m = 11.6  Dur = 6.8s Dmag = 2.3 Sun: 79° Moon: 28°	2024 sep 24 2h47.4m A24_09080 261 Prymno UCAC4 326–188034 Diam = 52.6 m = 12.4 m = 14.0  Dur = 5.2s Dmag = 1.9 Sun: 104° Moon: 157°
2024 sep 24 5h36.6m A24_09047 107 Camilla UCAC4 469–002070 Diam = 237.0 m = 12.3 m = 12.4  Dur = 18.9s Dmag = 0.8 Sun: 157° Moon: 62°	2024 sep 24 5h56.3m A24_09018 36 Atalante TYC 2934–00969–1 Diam = 109.0 m = 10.8 m = 12.3  Dur = 4.9s Dmag = 1.8 Sun: 88° Moon: 16°	2024 sep 24 11h13.2m A24_09135 675 Ludmilla TYC 1896–00748–1 Diam = 109.1 m = 11.6 m = 12.6  Dur = 4.3s Dmag = 1.4 Sun: 75° Moon: 19°	2024 sep 26 1h31.5m A24_09020 40 Harmonia TYC 6894–02219–1 Diam = 111.0 m = 11.2 m = 10.9  Dur = 13.6s Dmag = 0.6 Sun: 110° Moon: 175°
2024 sep 26 7h49.8m A24_09185 1036 Ganymed PPMX 2573161 Diam = 41.0 m = 11.6 m = 9.4  Dur = 3.5s Dmag = 0.1 Sun: 118° Moon: 104°	2024 sep 27 8h48.2m A24_09210 1356 Nyanza TYC 1878–00889–1 Diam = 67.2 m = 12.1 m = 15.5  Dur = 4.3s Dmag = 3.4 Sun: 89° Moon: 31°	2024 sep 27 10h33.6m A24_09056 137 Meliboea TYC 0584–00159–1 Diam = 150.0 m = 11.5 m = 11.6  Dur = 13.5s Dmag = 0.8 Sun: 167° Moon: 129°	2024 sep 27 22h45.1m A24_09064 176 Iduna TYC 1106–01204–1 Diam = 125.0 m = 12.4 m = 12.4  Dur = 10.4s Dmag = 0.8 Sun: 135° Moon: 151°

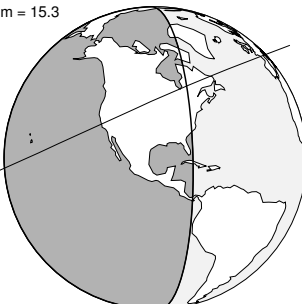
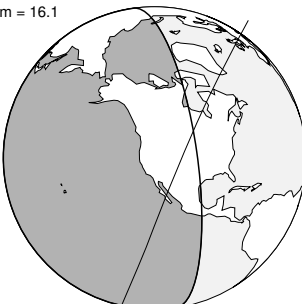
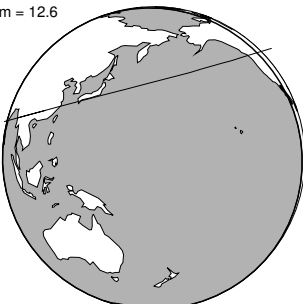
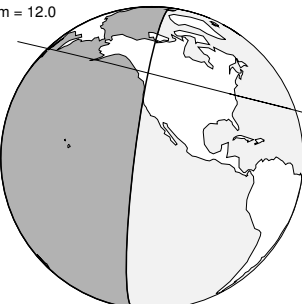
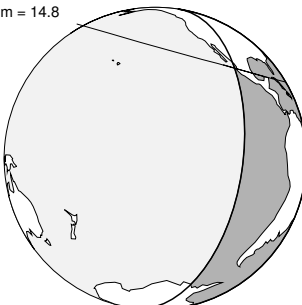
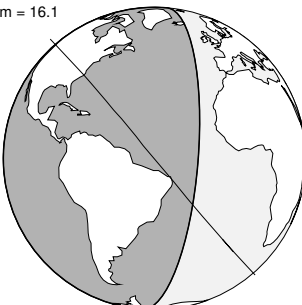
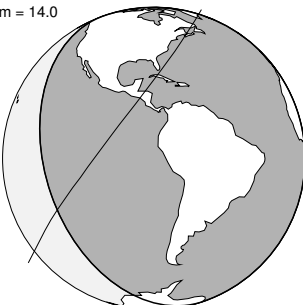
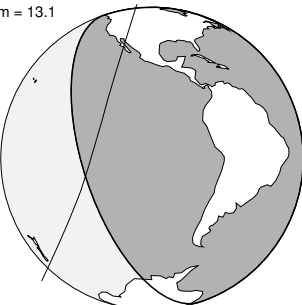
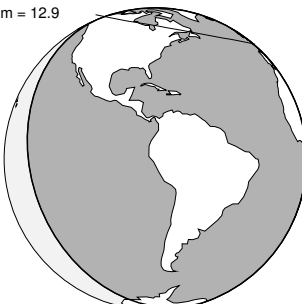
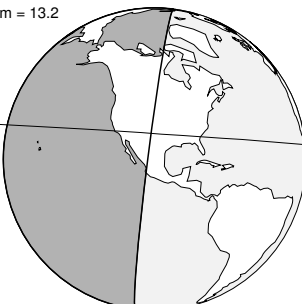
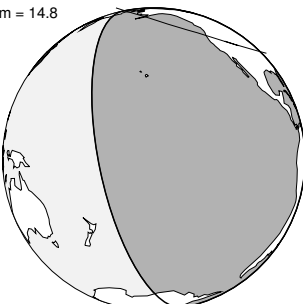
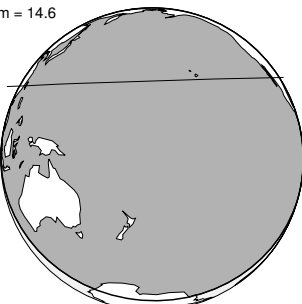
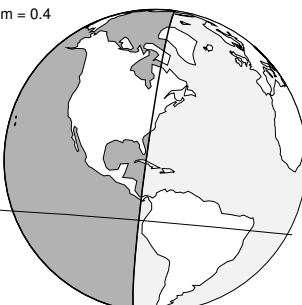
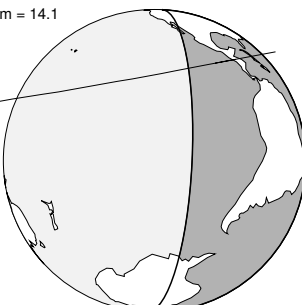
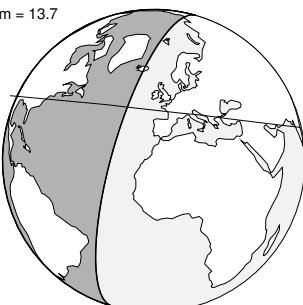
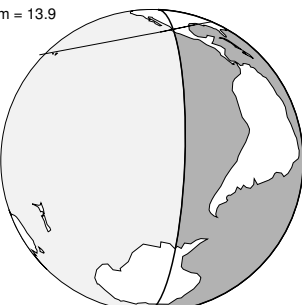
Occultations by major and minor planets – 2024

Region 1

2024 sep 28 2h11.3m A24_09198 1041 Asta TYC 6975–00009–1 Diam = 60.6 m = 11.9 m = 14.4  Dur = 6.4s Dmag = 2.6 Sun: 146° Moon: 152°	2024 sep 28 6h11.4m A24_09211 1356 Nyanza UCAC4 571–027797 Diam = 67.2 m = 11.1 m = 15.5  Dur = 4.4s Dmag = 4.4 Sun: 90° Moon: 41°	2024 sep 28 8h38.9m B24_09009 2013SF112 UCAC4 473–000109 Diam = 151.4 m = 14.7 m = 23.6  Dur = 6.0s Dmag = 8.9 Sun: 175° Moon: 134°	2024 sep 29 8h36.4m B24_09008 2013RT155 UCAC4 440–123375 Diam = 203.2 m = 12.9 m = 23.1  Dur = 9.6s Dmag = 10.2 Sun: 148° Moon: 167°
2024 sep 29 13h24.5m A24_09103 420 Bertholda TYC 1342–01251–1 Diam = 146.0 m = 10.3 m = 14.4  Dur = 8.5s Dmag = 4.1 Sun: 86° Moon: 52°	2024 sep 30 6h53.3m A24_09072 233 Asterope UCAC4 527–043326 Diam = 108.0 m = 12.2 m = 13.7  Dur = 4.3s Dmag = 1.7 Sun: 72° Moon: 46°	2024 sep 30 8h 3.0m A24_09068 218 Bianca UCAC4 434–000890 Diam = 62.0 m = 12.2 m = 12.5  Dur = 4.4s Dmag = 0.9 Sun: 172° Moon: 152°	2024 sep 30 10h37.1m A24_09195 1036 Ganymed Gaia 135–0165483 Diam = 41.0 m = 11.6 m = 9.3  Dur = 3.1s Dmag = 0.1 Sun: 121° Moon: 123°
2024 oct 1 5h31.5m A24_10109 721 Tabora TYC 6918–00550–1 Diam = 82.6 m = 11.9 m = 15.1  Dur = 13.8s Dmag = 3.2 Sun: 112° Moon: 129°	2024 oct 2 0h30.5m A24_10128 1036 Ganymed TYC 3190–01771–1 Diam = 41.0 m = 9.9 m = 9.3  Dur = 3.0s Dmag = 0.5 Sun: 123° Moon: 125°	2024 oct 2 1h 7.4m A24_10129 1036 Ganymed UCAC5 665–097239 Diam = 41.0 m = 12.4 m = 9.3  Dur = 3.0s Dmag = 0.1 Sun: 123° Moon: 125°	2024 oct 2 2h 2.9m A24_10130 1036 Ganymed UCAC5 665–097279 Diam = 41.0 m = 12.4 m = 9.3  Dur = 3.0s Dmag = 0.1 Sun: 123° Moon: 125°
2024 oct 2 4h13.7m A24_10059 246 Asporina UCAC4 440–003139 Diam = 63.8 m = 12.2 m = 13.0  Dur = 5.2s Dmag = 1.2 Sun: 149° Moon: 145°	2024 oct 2 4h15.6m A24_10131 1036 Ganymed UCAC4 664–099954 Diam = 41.0 m = 11.7 m = 9.3  Dur = 3.0s Dmag = 0.1 Sun: 123° Moon: 125°	2024 oct 3 1h13.1m A24_10099 581 Tauntonia UCAC4 291–213012 Diam = 67.1 m = 12.5 m = 15.3  Dur = 6.3s Dmag = 2.9 Sun: 97° Moon: 95°	2024 oct 4 6h28.5m A24_10095 547 Praxedis UCAC4 483–002038 Diam = 73.0 m = 11.3 m = 11.9  Dur = 7.2s Dmag = 1.1 Sun: 169° Moon: 173°

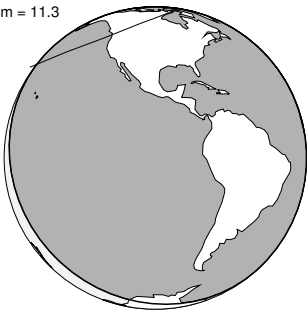
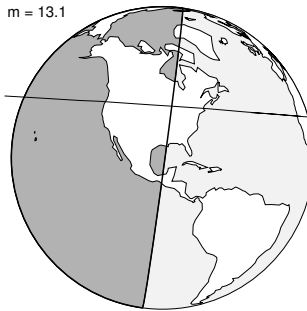
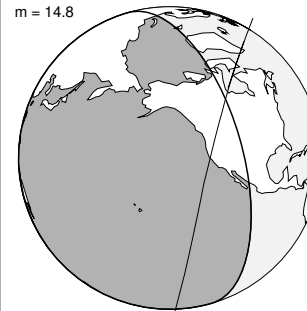
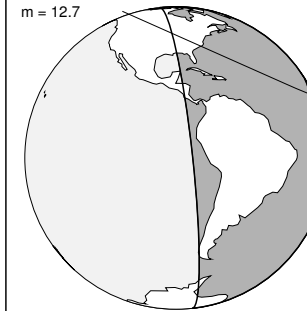
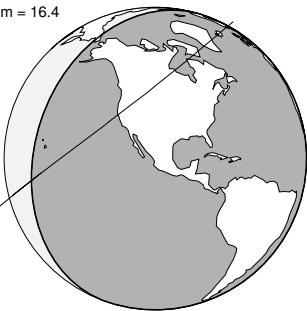
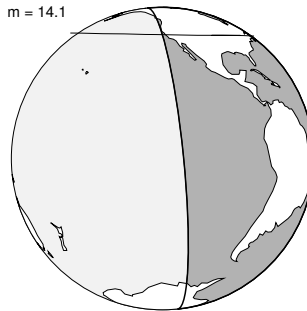
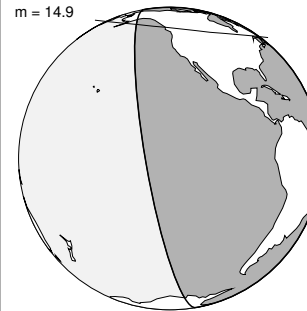
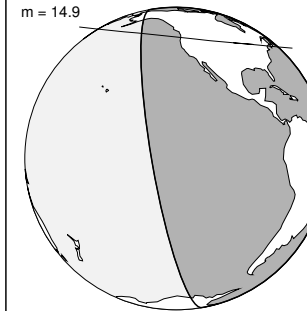
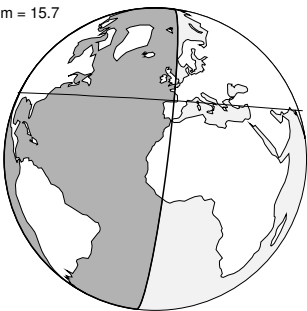
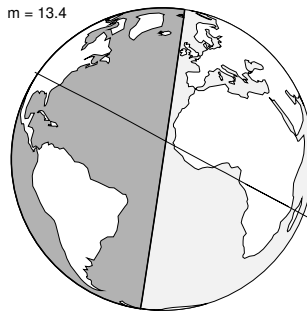
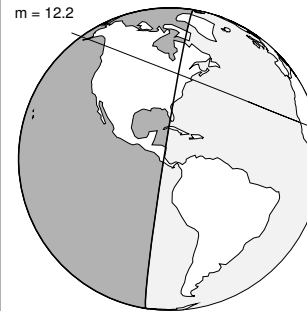
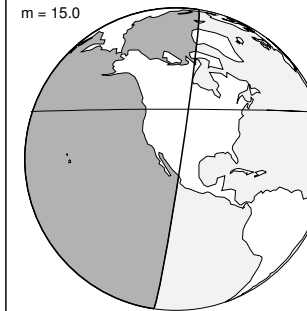
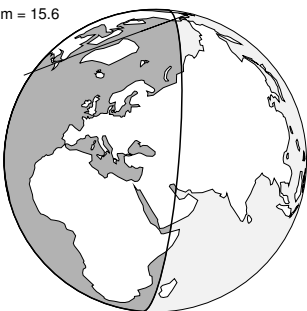
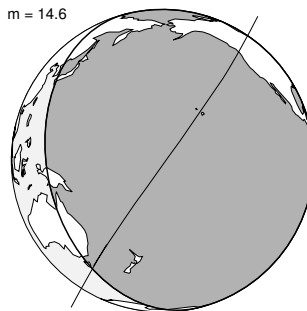
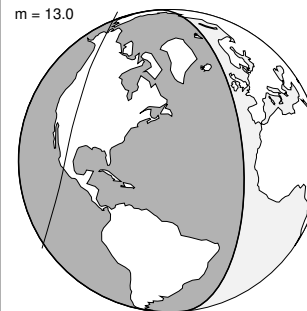
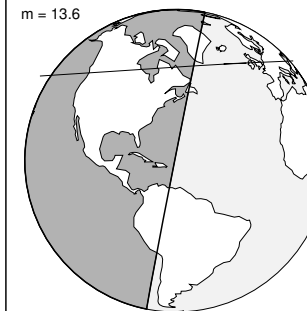
Occultations by major and minor planets – 2024

Region 1

2024 oct 4 11h14.1m A24_10139 1237 Genevieve UCAC4 574–019155 Diam = 42.0 m = 12.1 m = 15.3  Dur = 4.3s Dmag = 3.3 Sun: 104° Moon: 123°	2024 oct 4 12h24.2m A24_10138 1227 Geranium UCAC4 654–033706 Diam = 48.2 m = 12.3 m = 16.1  Dur = 4.9s Dmag = 3.8 Sun: 106° Moon: 125°	2024 oct 4 13h26.8m A24_10052 203 Pompeja UCAC4 510–002147 Diam = 120.0 m = 12.1 m = 12.6  Dur = 11.7s Dmag = 1.1 Sun: 166° Moon: 174°	2024 oct 4 14h22.1m A24_10034 79 Euryome TYC 1350–00099–1 Diam = 68.0 m = 10.2 m = 12.0  Dur = 3.1s Dmag = 2.0 Sun: 83° Moon: 103°
2024 oct 5 0h46.6m A24_10094 521 Brixia HIP 80019 Diam = 103.0 m = 8.0 m = 14.8  Dur = 3.3s Dmag = 6.8 Sun: 54° Moon: 31°	2024 oct 5 7h28.1m A24_10143 1337 Gerarda TYC 0115–01825–1 Diam = 41.0 m = 10.2 m = 16.1  Dur = 3.7s Dmag = 5.8 Sun: 106° Moon: 130°	2024 oct 6 2h33.5m A24_10100 592 Bathseba TYC 5805–00588–1 Diam = 57.5 m = 9.6 m = 14.0  Dur = 9.7s Dmag = 4.4 Sun: 135° Moon: 100°	2024 oct 6 2h38.6m A24_10071 337 Devosa UCAC4 341–200426 Diam = 63.2 m = 11.9 m = 13.1  Dur = 13.5s Dmag = 1.6 Sun: 117° Moon: 81°
2024 oct 6 2h53.1m A24_10051 193 Ambrosia TYC 5239–00990–1 Diam = 48.3 m = 10.6 m = 12.9  Dur = 6.4s Dmag = 2.5 Sun: 145° Moon: 109°	2024 oct 6 12h56.8m A24_10030 77 Frigga TYC 1900–01178–1 Diam = 71.0 m = 8.6 m = 13.2  Dur = 3.7s Dmag = 4.6 Sun: 87° Moon: 128°	2024 oct 7 5h32.6m A24_10107 688 Melanie TYC 5766–00597–1 Diam = 44.0 m = 10.7 m = 14.8  Dur = 4.3s Dmag = 4.1 Sun: 111° Moon: 63°	2024 oct 7 11h18.8m A24_10102 617 Patroclus TYC 5271–01584–1 Diam = 149.0 m = 11.6 m = 14.6  Dur = 9.3s Dmag = 3.0 Sun: 159° Moon: 115°
2024 oct 7 11h16.4m P24_10001 Mars TYC 1909–00533–1 Diam = 6759.2 m = 9.8 m = 0.4  Dur = 377.2s Dmag = 0.0 Sun: 86° Moon: 138°	2024 oct 8 1h 1.6m A24_10114 784 Pickeringia HIP 88247 Diam = 90.0 m = 8.7 m = 14.1  Dur = 3.2s Dmag = 5.3 Sun: 75° Moon: 19°	2024 oct 8 7h50.6m A24_10035 93 Minerva TYC 1947–00811–1 Diam = 170.8 m = 12.1 m = 13.7  Dur = 7.5s Dmag = 1.8 Sun: 73° Moon: 135°	2024 oct 9 0h36.1m A24_10111 735 Marghanna UCAC4 249–153157 Diam = 77.0 m = 12.2 m = 13.9  Dur = 3.1s Dmag = 1.9 Sun: 77° Moon: 14°

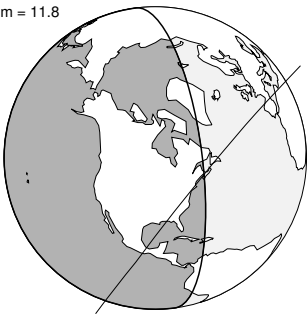
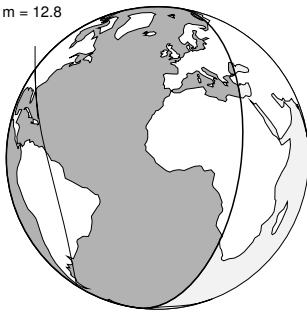
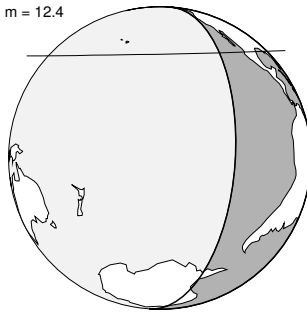
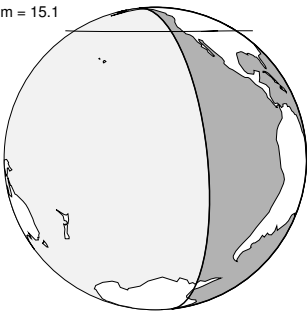
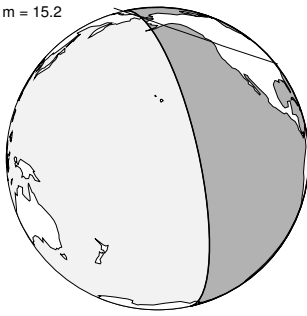
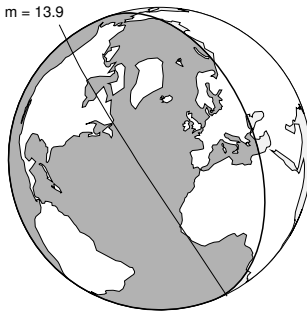
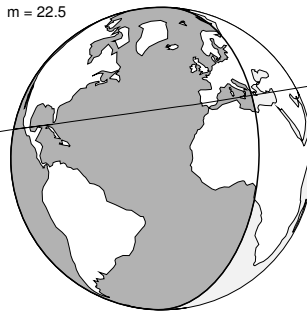
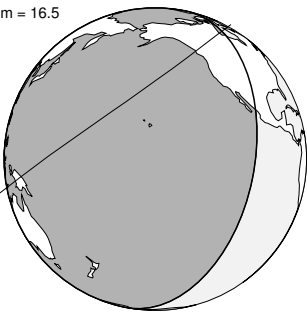
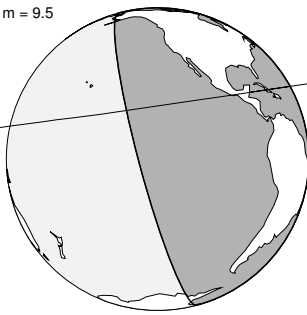
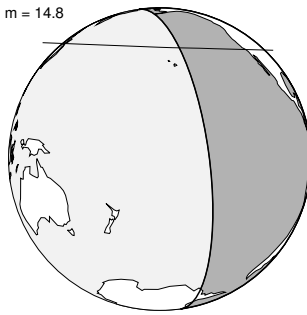
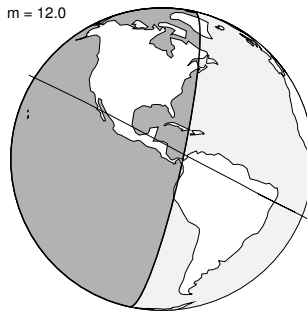
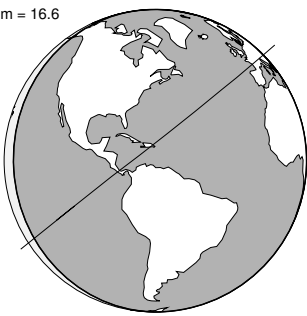
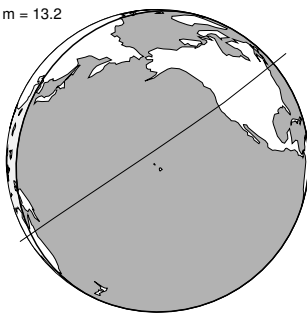
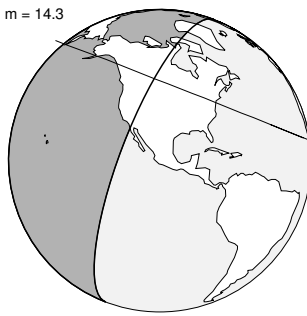
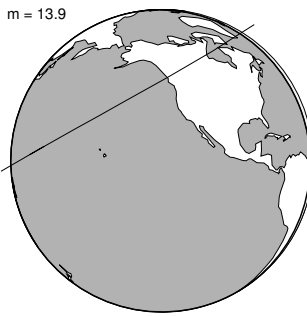
Occultations by major and minor planets – 2024

Region 1

2024 oct 11 5h23.8m A24_10009 17 Thetis TYC 5260–00005–1 Diam = 93.2 m = 11.2 m = 11.3  Dur = 10.0s Dmag = 0.8 Sun: 158° Moon: 65°	2024 oct 11 12h 6.5m A24_10032 77 Frigga UCAC4 575–037990 Diam = 71.0 m = 11.7 m = 13.1  Dur = 4.1s Dmag = 1.6 Sun: 90° Moon: 170°	2024 oct 11 13h13.3m A24_10092 493 Griseldis PPMX 3014247 Diam = 52.0 m = 12.3 m = 14.8  Dur = 5.9s Dmag = 2.6 Sun: 118° Moon: 139°	2024 oct 11 23h22.6m A24_10043 130 Elektra UCAC4 382–125539 Diam = 189.0 m = 12.1 m = 12.7  Dur = 8.9s Dmag = 1.1 Sun: 83° Moon: 25°
2024 oct 12 4h24.8m A24_10164 5120 Bitias Gaia 113–0208287 Diam = 52.5 m = 12.3 m = 16.4  Dur = 4.0s Dmag = 4.1 Sun: 142° Moon: 55°	2024 oct 13 1h36.3m A24_10048 168 Sibylla UCAC4 359–170519 Diam = 154.0 m = 11.5 m = 14.1  Dur = 7.7s Dmag = 2.7 Sun: 81° Moon: 38°	2024 oct 14 2h49.6m A24_10116 838 Seraphina UCAC4 409–126871 Diam = 63.1 m = 12.1 m = 14.9  Dur = 4.6s Dmag = 2.9 Sun: 99° Moon: 36°	2024 oct 14 2h54.6m A24_10117 838 Seraphina UCAC4 409–126872 Diam = 63.1 m = 11.9 m = 14.9  Dur = 4.6s Dmag = 3.1 Sun: 99° Moon: 37°
2024 oct 14 6h31.4m A24_10125 1010 Marlene TYC 1357–02055–1 Diam = 45.2 m = 11.4 m = 15.7  Dur = 3.4s Dmag = 4.3 Sun: 94° Moon: 130°	2024 oct 14 7h15.4m A24_10055 238 Hypatia TYC 0763–00661–1 Diam = 156.0 m = 11.6 m = 13.4  Dur = 9.2s Dmag = 2.0 Sun: 90° Moon: 132°	2024 oct 14 11h29.1m A24_10024 51 Nemausa UCAC5 504–040500 Diam = 152.3 m = 12.4 m = 12.2  Dur = 7.9s Dmag = 0.6 Sun: 87° Moon: 133°	2024 oct 14 13h 5.0m A24_10053 227 Philosophia UCAC4 598–041183 Diam = 90.1 m = 12.5 m = 15.0  Dur = 7.0s Dmag = 2.7 Sun: 91° Moon: 129°
2024 oct 17 2h42.3m A24_10132 1049 Gotho UCAC4 647–042227 Diam = 58.2 m = 12.1 m = 15.6  Dur = 4.7s Dmag = 3.6 Sun: 98° Moon: 86°	2024 oct 18 8h34.0m A24_10058 242 Kriemhild TYC 0569–00452–1 Diam = 41.5 m = 11.6 m = 14.6  Dur = 4.8s Dmag = 3.0 Sun: 139° Moon: 52°	2024 oct 19 7h30.2m A24_10029 75 Eurydike TYC 1874–00716–1 Diam = 58.3 m = 12.4 m = 13.0  Dur = 20.9s Dmag = 1.1 Sun: 119° Moon: 35°	2024 oct 19 10h21.7m A24_10075 369 Aeria UCAC4 555–042361 Diam = 62.2 m = 12.5 m = 13.6  Dur = 3.8s Dmag = 1.5 Sun: 89° Moon: 63°

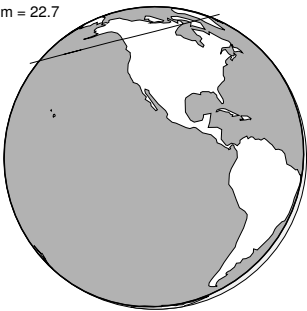
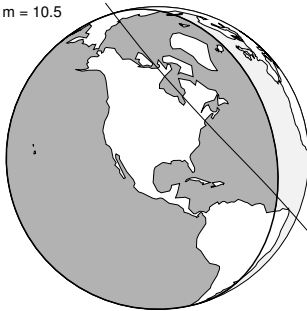
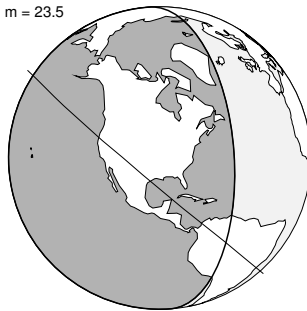
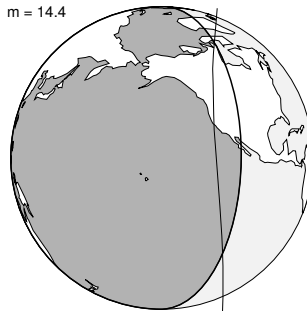
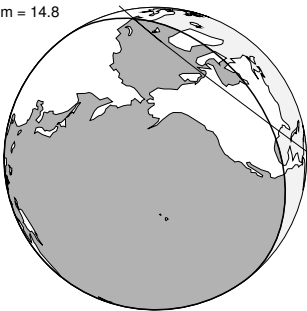
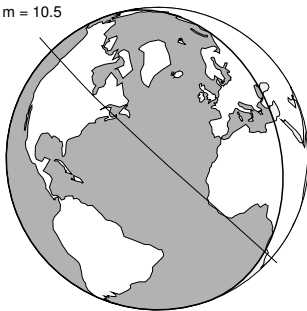
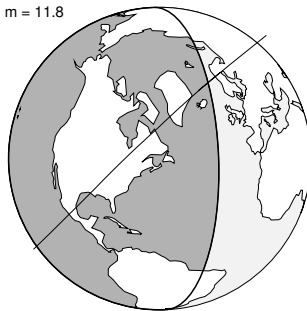
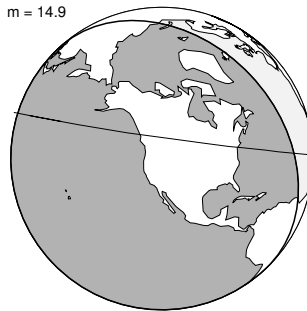
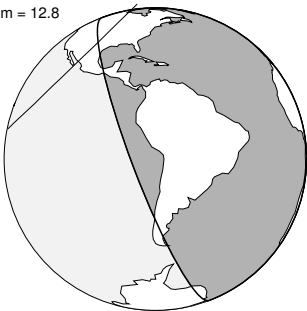
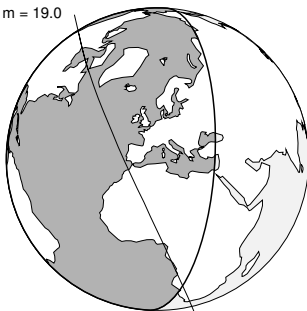
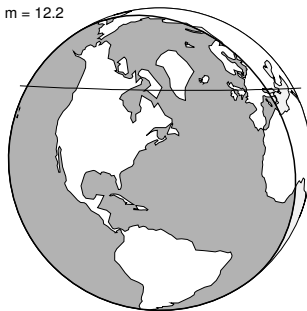
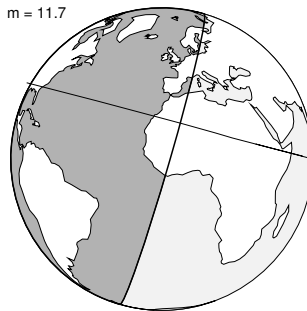
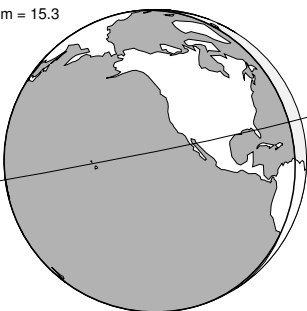
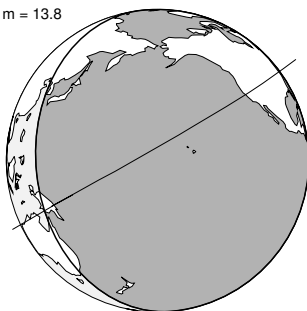
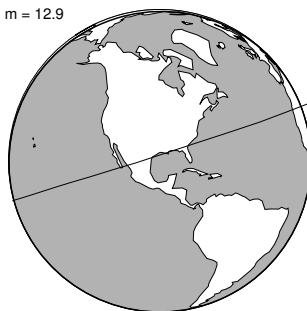
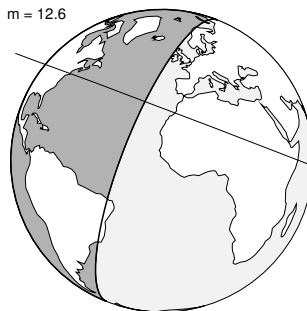
Occultations by major and minor planets – 2024

Region 1

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2024 oct 27 1h35.1m A24_10082 415 Palatia UCAC4 340–177506 Diam = 80.1 m = 12.5  Dur = 3.3s Dmag = 2.7 Sun: 69° Moon: 129°	2024 oct 27 3h10.3m A24_10112 754 Malabar UCAC4 435–088813 Diam = 89.1 m = 12.1  Dur = 3.3s Dmag = 3.1 Sun: 74° Moon: 128°	2024 oct 27 4h34.5m A24_10065 326 Tamara UCAC4 660–033429 Diam = 100.0 m = 12.0  Dur = 8.1s Dmag = 2.1 Sun: 129° Moon: 75°	2024 oct 27 5h 4.9m B24_10006 534161 2014RQ63 UCAC4 538–016209 Diam = 141.9 m = 14.9  Dur = 10.1s Dmag = 7.6 Sun: 129° Moon: 73°
2024 oct 27 13h15.4m A24_10157 2731 Cucula UCAC5 484–010986 Diam = 51.1 m = 16.5  Dur = 6.0s Dmag = 4.2 Sun: 130° Moon: 80°	2024 oct 28 2h54.9m A24_10002 7 Iris TYC 5761–00964–1 Diam = 329.6 m = 9.5  Dur = 23.6s Dmag = 0.1 Sun: 97° Moon: 144°	2024 oct 28 3h27.1m A24_10118 924 Toni UCAC4 355–176748 Diam = 87.6 m = 14.8  Dur = 3.2s Dmag = 2.5 Sun: 70° Moon: 118°	2024 oct 28 11h 1.9m A24_10025 51 Nemausa TYC 0779–00139–1 Diam = 152.3 m = 12.0  Dur = 10.8s Dmag = 1.0 Sun: 97° Moon: 55°
2024 oct 29 2h53.1m A24_10151 2223 Sarpedon UCAC4 516–001406 Diam = 105.0 m = 16.6  Dur = 6.4s Dmag = 4.1 Sun: 159° Moon: 161°	2024 oct 29 8h44.3m A24_10098 576 Emanuela TYC 1739–00260–1 Diam = 86.0 m = 11.8  Dur = 9.1s Dmag = 1.6 Sun: 157° Moon: 155°	2024 oct 29 14h 4.5m A24_10088 469 Argentina TYC 1413–00742–1 Diam = 129.0 m = 10.0  Dur = 5.2s Dmag = 4.3 Sun: 74° Moon: 43°	2024 oct 31 9h18.6m A24_10123 979 Ilsewa UCAC4 545–006104 Diam = 40.6 m = 13.9  Dur = 3.3s Dmag = 2.2 Sun: 167° Moon: 155°

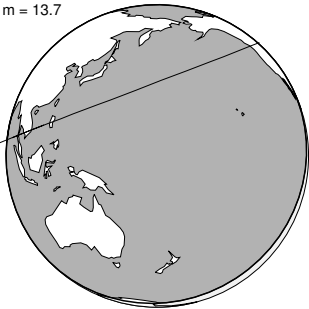
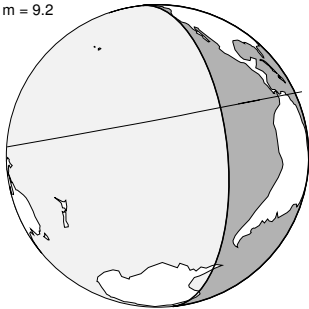
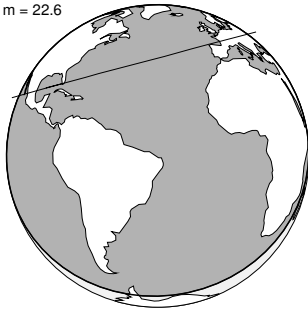
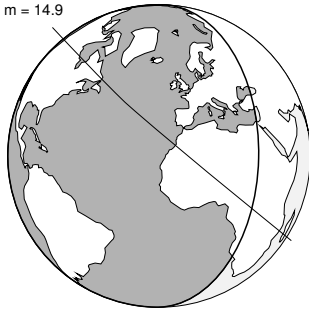
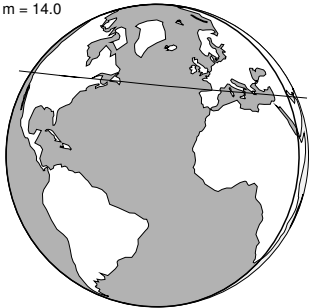
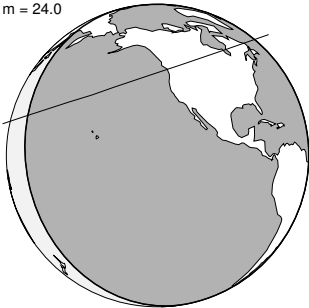
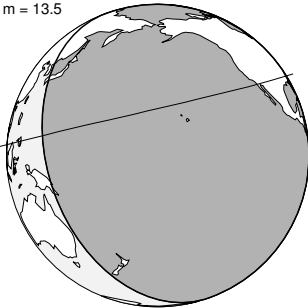
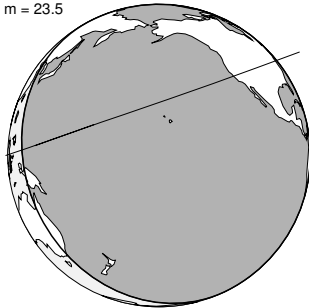
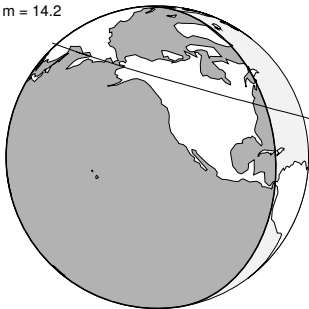
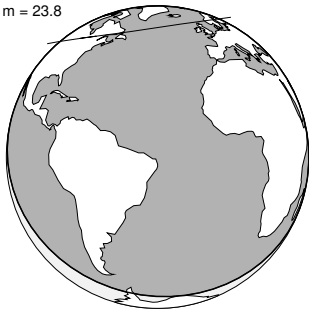
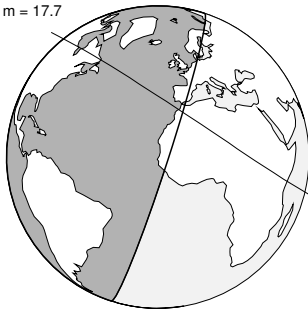
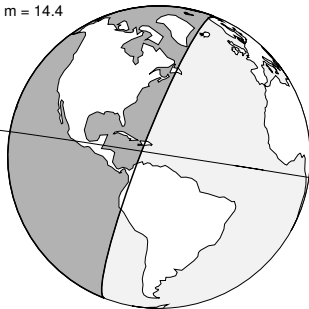
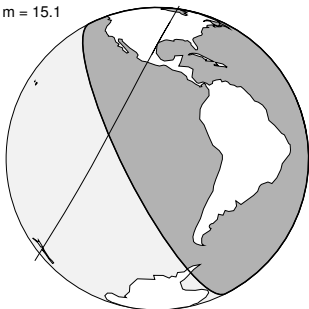
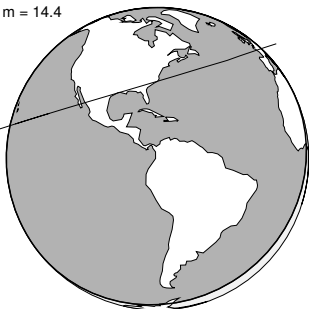
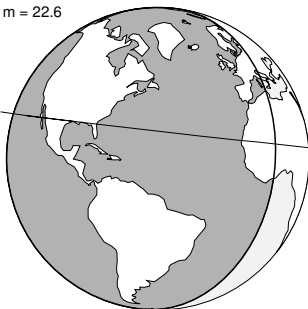
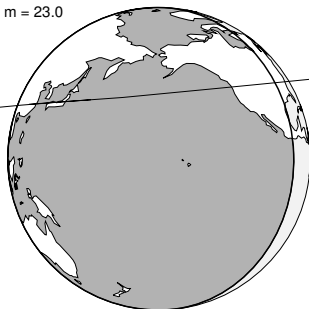
Occultations by major and minor planets – 2024

Region 1

2024 nov 1 7h50.7m B24_11005 505412 2013QO95 UCAC4 473–004599 Diam = 186.2 m = 14.4 m = 22.7  Dur = 7.4s Dmag = 8.2 Sun: 164° Moon: 161°	2024 nov 1 8h42.2m A24_11003 13 Egeria UCAC4 608–017123 Diam = 215.0 m = 11.8 m = 10.5  Dur = 23.9s Dmag = 0.3 Sun: 140° Moon: 140°	2024 nov 1 10h 5.9m A24_11160 2004TX357 TYC 2941–01530–1 Diam = 77.3 m = 8.9 m = 23.5  Dur = 6.4s Dmag = 14.6 Sun: 119° Moon: 119°	2024 nov 1 13h47.3m A24_11144 1303 Luthera UCAC4 590–033593 Diam = 88.8 m = 10.2 m = 14.4  Dur = 12.3s Dmag = 4.3 Sun: 121° Moon: 122°
2024 nov 2 12h31.5m A24_11155 3036 Krat UCAC4 667–027326 Diam = 44.8 m = 11.7 m = 14.8  Dur = 3.3s Dmag = 3.2 Sun: 140° Moon: 152°	2024 nov 4 4h33.6m A24_11004 13 Egeria UCAC5 610–015995 Diam = 215.0 m = 12.2 m = 10.5  Dur = 22.6s Dmag = 0.2 Sun: 143° Moon: 173°	2024 nov 4 8h38.8m A24_11014 36 Atalante UCAC4 695–047181 Diam = 109.0 m = 12.4 m = 11.8  Dur = 10.8s Dmag = 0.5 Sun: 112° Moon: 142°	2024 nov 4 9h 9.8m A24_11142 1266 Tone UCAC4 672–026852 Diam = 76.0 m = 12.3 m = 14.9  Dur = 6.5s Dmag = 2.8 Sun: 143° Moon: 162°
2024 nov 5 23h42.1m A24_11047 186 Celuta TYC 6371–00573–1 Diam = 52.3 m = 9.1 m = 12.8  Dur = 3.1s Dmag = 3.7 Sun: 98° Moon: 48°	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°	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 7 6h23.3m A24_11013 28 Bellona TYC 0813–02400–1 Diam = 126.0 m = 12.3 m = 11.7  Dur = 7.5s Dmag = 0.5 Sun: 92° Moon: 156°
2024 nov 7 10h 1.1m A24_11138 1109 Tata UCAC4 571–011178 Diam = 69.5 m = 12.0 m = 15.3  Dur = 5.4s Dmag = 3.4 Sun: 156° Moon: 136°	2024 nov 9 8h32.6m A24_11038 143 Adria UCAC4 533–000827 Diam = 92.0 m = 12.4 m = 13.8  Dur = 11.1s Dmag = 1.7 Sun: 143° Moon: 56°	2024 nov 10 5h41.9m A24_11035 133 Cyrene TYC 1776–01252–1 Diam = 70.1 m = 11.1 m = 12.9  Dur = 4.7s Dmag = 2.0 Sun: 169° Moon: 77°	2024 nov 10 8h 7.9m A24_11009 24 Themis TYC 0840–01198–1 Diam = 160.0 m = 9.8 m = 12.6  Dur = 6.3s Dmag = 2.8 Sun: 74° Moon: 178°

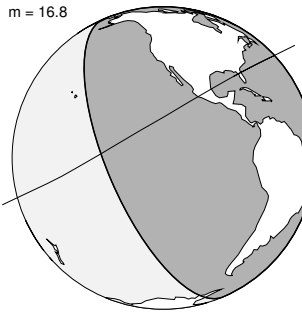
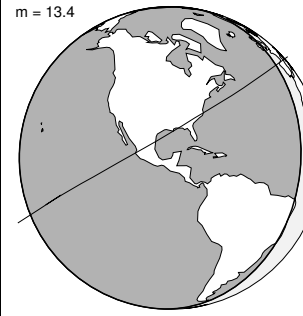
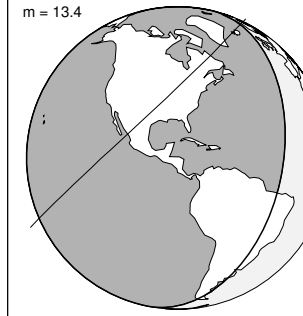
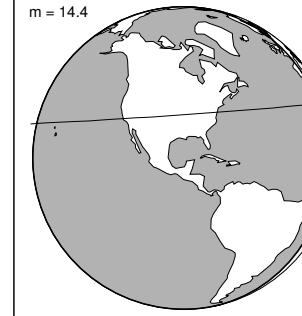
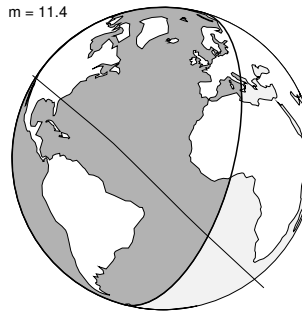
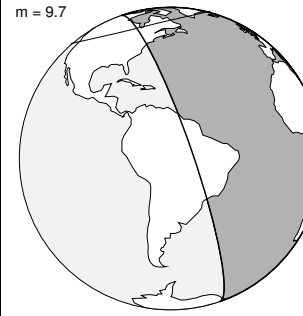
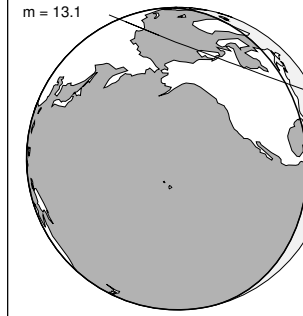
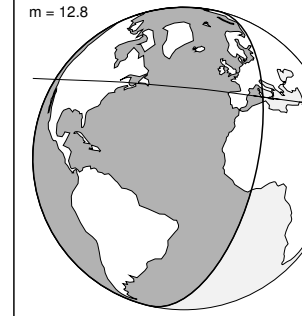
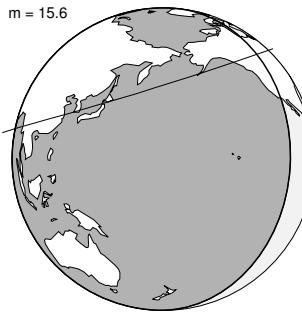
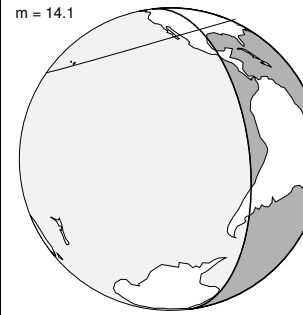
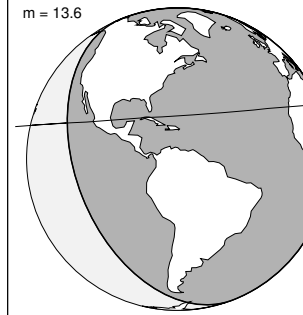
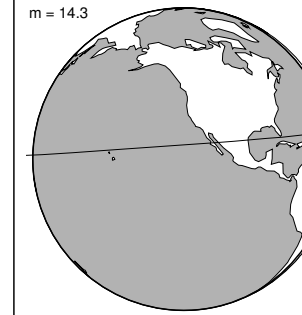
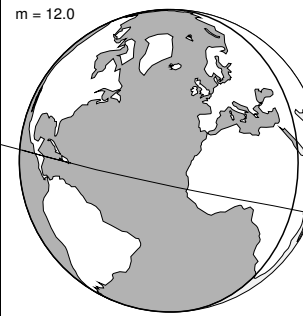
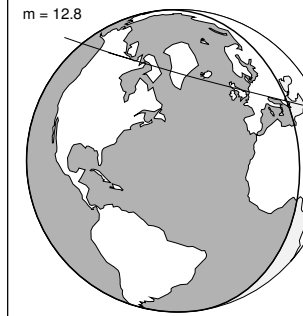
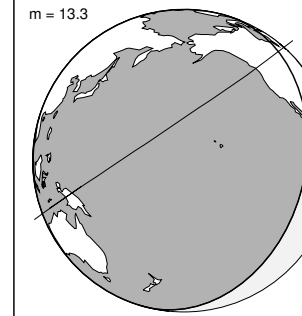
Occultations by major and minor planets – 2024

Region 1

2024 nov 10 13h12.7m A24_11069 318 Magdalena TYC 0068–00910–1 Diam = 55.0 m = 11.6 m = 13.7  Dur = 4.5s Dmag = 2.2 Sun: 163° Moon: 79°	2024 nov 11 0h59.9m A24_11001 1 Ceres UCAC4 306–273322 Diam = 952.5 m = 12.1 m = 9.2  Dur = 31.4s Dmag = 0.1 Sun: 62° Moon: 51°	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 11 4h21.6m A24_11149 1356 Nyanza UCAC4 579–029645 Diam = 67.2 m = 11.9 m = 14.9  Dur = 13.7s Dmag = 3.1 Sun: 131° Moon: 114°
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 13 6h24.6m B24_11013 2013SB112 UCAC4 519–001975 Diam = 89.1 m = 13.4 m = 24.0  Dur = 4.1s Dmag = 10.6 Sun: 150° Moon: 9°	2024 nov 13 8h 4.0m A24_11053 209 Dido TYC 0009–00945–1 Diam = 149.0 m = 11.9 m = 13.5  Dur = 25.5s Dmag = 1.8 Sun: 136° Moon: 8°	2024 nov 13 8h40.4m B24_11007 612582 2003QY111 UCAC4 482–002154 Diam = 156.3 m = 14.3 m = 23.5  Dur = 7.2s Dmag = 9.2 Sun: 152° Moon: 8°
2024 nov 13 11h 9.2m A24_11099 578 Hapelia UCAC4 599–026750 Diam = 71.6 m = 11.9 m = 14.2  Dur = 7.5s Dmag = 2.5 Sun: 141° Moon: 72°	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 14 6h56.6m A24_11158 5023 Agapenor TYC 1402–01486–1 Diam = 41.7 m = 11.8 m = 17.7  Dur = 4.0s Dmag = 5.9 Sun: 93° Moon: 108°	2024 nov 15 10h56.5m A24_11112 740 Cantabria TYC 0843–00583–1 Diam = 94.5 m = 11.7 m = 14.4  Dur = 4.4s Dmag = 2.8 Sun: 83° Moon: 103°
2024 nov 16 1h47.2m A24_11133 1041 Asta UCAC5 340–186650 Diam = 60.6 m = 12.3 m = 15.1  Dur = 4.7s Dmag = 2.9 Sun: 102° Moon: 80°	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 6h 4.7m B24_11014 2014WE510 UCAC4 548–023863 Diam = 106.7 m = 14.5 m = 22.6  Dur = 5.9s Dmag = 8.0 Sun: 140° Moon: 35°	2024 nov 16 12h50.0m B24_11009 2010TT191 UCAC4 562–015996 Diam = 114.8 m = 14.1 m = 23.0  Dur = 5.2s Dmag = 8.9 Sun: 153° Moon: 19°

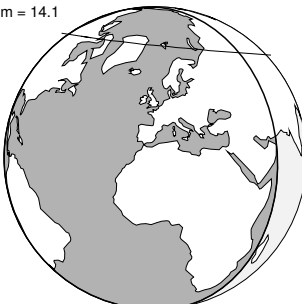
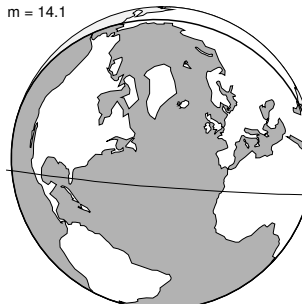
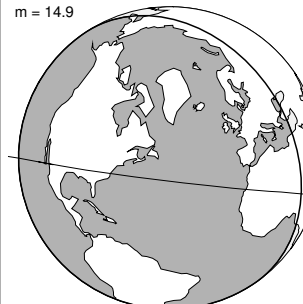
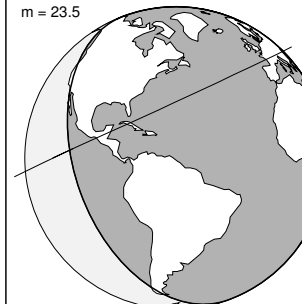
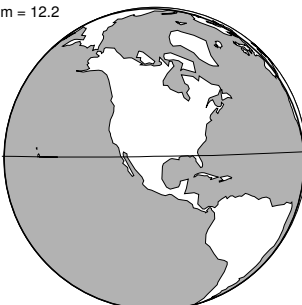
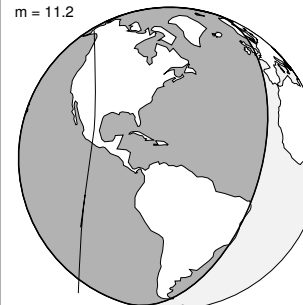
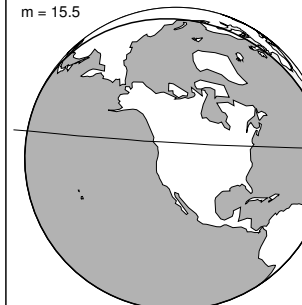
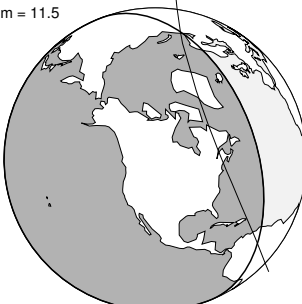
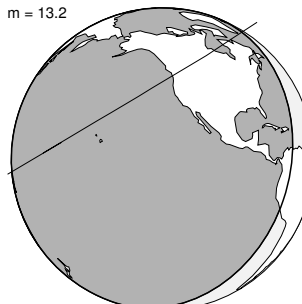
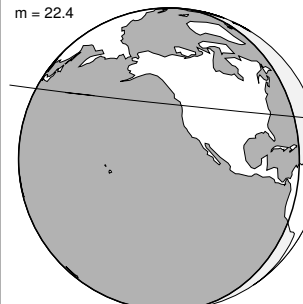
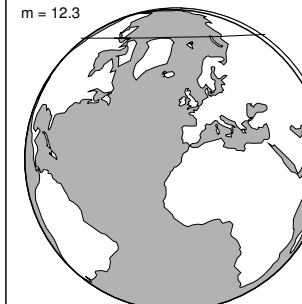
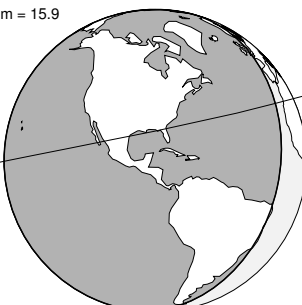
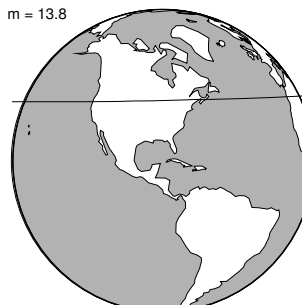
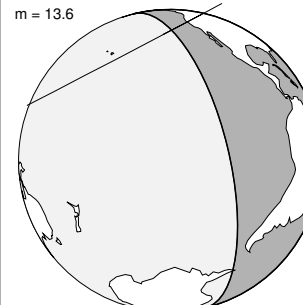
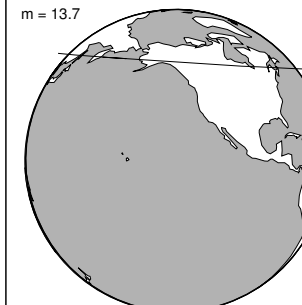
Occultations by major and minor planets – 2024

Region 1

2024 nov 17 3h17.8m A24_11150 2032 Ethel UCAC4 421–142322 Diam = 42.0 m = 11.8 m = 16.8  Dur = 5.8s Dmag = 5.0 Sun: 112° Moon: 85°	2024 nov 18 8h 0.3m A24_11071 342 Endymion UCAC4 545–018674 Diam = 65.0 m = 11.5 m = 13.4  Dur = 9.9s Dmag = 2.1 Sun: 149° Moon: 10°	2024 nov 18 8h40.7m A24_11126 914 Palisana UCAC4 528–033574 Diam = 79.0 m = 12.2 m = 13.4  Dur = 6.7s Dmag = 1.5 Sun: 133° Moon: 17°	2024 nov 19 7h 8.5m A24_11055 222 Lucia TYC 1293–00837–1 Diam = 58.0 m = 10.1 m = 14.4  Dur = 4.1s Dmag = 4.3 Sun: 161° Moon: 28°
2024 nov 20 5h57.1m A24_11025 79 Eurynome TYC 0793–00977–1 Diam = 68.0 m = 11.2 m = 11.4  Dur = 13.4s Dmag = 0.9 Sun: 117° Moon: 12°	2024 nov 20 21h30.7m A24_11002 7 Iris TYC 5773–01101–1 Diam = 329.6 m = 12.2 m = 9.7  Dur = 14.6s Dmag = 0.1 Sun: 81° Moon: 161°	2024 nov 21 12h 9.6m A24_11081 416 Vaticana UCAC4 603–029506 Diam = 89.5 m = 12.4 m = 13.1  Dur = 6.9s Dmag = 1.2 Sun: 148° Moon: 41°	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 22 14h37.6m A24_11156 3134 Kostinsky UCAC5 561–025022 Diam = 55.8 m = 12.5 m = 15.6  Dur = 6.7s Dmag = 3.2 Sun: 147° Moon: 52°	2024 nov 22 23h36.2m A24_11039 145 Adeona TYC 6917–00936–1 Diam = 155.0 m = 11.0 m = 14.1  Dur = 5.0s Dmag = 3.2 Sun: 58° Moon: 148°	2024 nov 24 1h15.3m A24_11049 187 Lamberta TYC 0018–00195–1 Diam = 135.0 m = 10.8 m = 13.6  Dur = 19.9s Dmag = 2.9 Sun: 132° Moon: 148°	2024 nov 24 9h 2.6m A24_11054 222 Lucia UCAC4 561–012408 Diam = 58.0 m = 11.5 m = 14.3  Dur = 3.9s Dmag = 2.9 Sun: 167° Moon: 92°
2024 nov 24 23h25.6m A24_11064 266 Aline TYC 5199–00070–1 Diam = 113.0 m = 11.0 m = 13.8  Dur = 4.6s Dmag = 2.9 Sun: 79° Moon: 146°	2024 nov 25 3h40.8m A24_11011 26 Proserpina TYC 1886–00550–1 Diam = 98.7 m = 10.9 m = 12.0  Dur = 10.9s Dmag = 1.4 Sun: 147° 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 26 13h43.0m A24_11127 914 Palisana TYC 0758–01828–1 Diam = 79.0 m = 11.4 m = 13.3  Dur = 5.7s Dmag = 2.1 Sun: 143° Moon: 92°

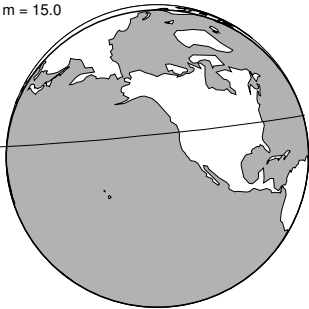
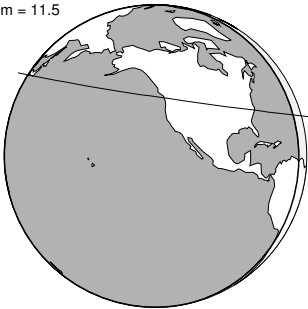
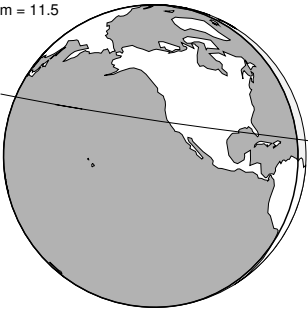
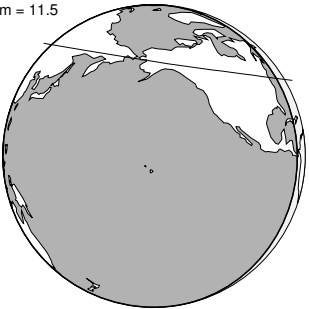
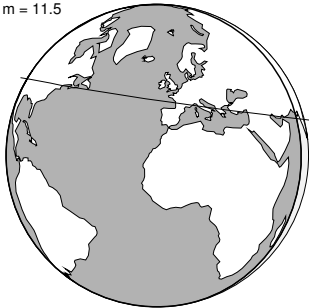
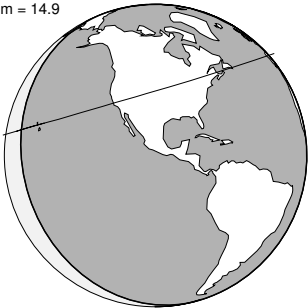
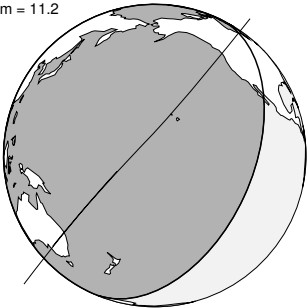
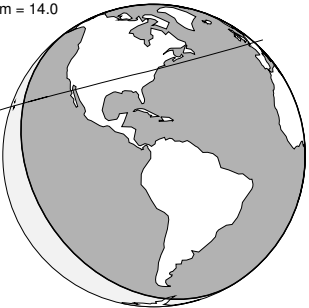
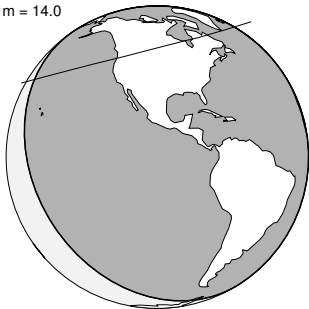
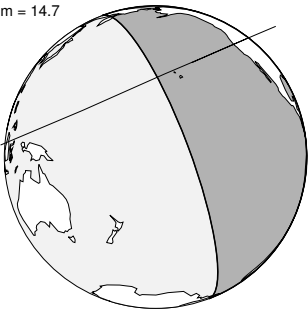
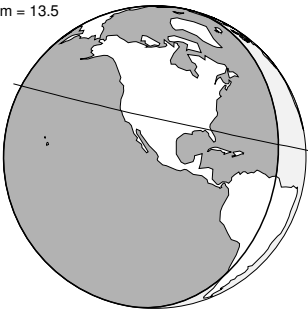
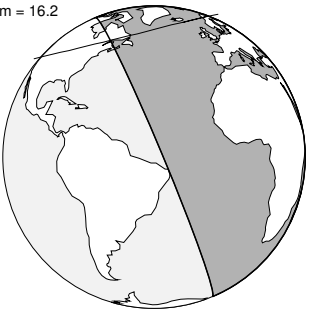
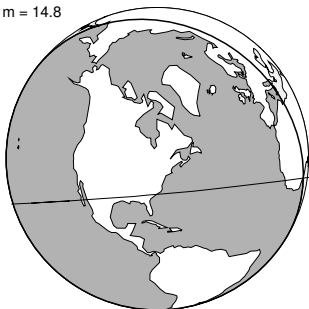
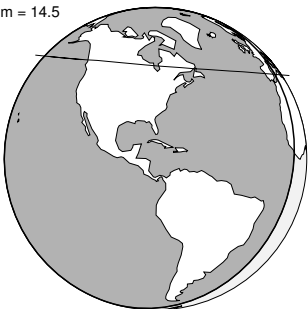
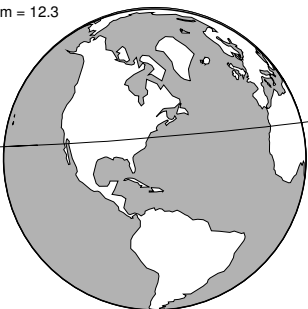
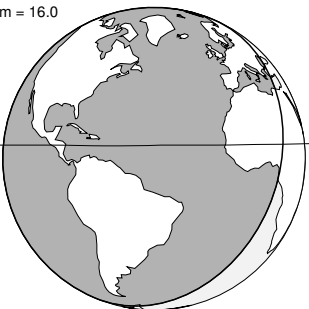
Occultations by major and minor planets – 2024

Region 1

2024 nov 27 2h25.9m A24_11136 1086 Nata UCAC4 606–036028 Diam = 70.5 m = 12.4 m = 14.1  Dur = 9.3s Dmag = 1.9 Sun: 143° Moon: 98°	2024 nov 27 2h40.7m A24_11091 493 Griseldis TYC 3342–00013–1 Diam = 52.0 m = 10.9 m = 14.1  Dur = 5.0s Dmag = 3.2 Sun: 155° Moon: 123°	2024 nov 27 5h 1.0m A24_11115 759 Viniŕa UCAC4 687–044065 Diam = 52.7 m = 12.4 m = 14.9  Dur = 4.7s Dmag = 2.6 Sun: 143° Moon: 106°	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 30 7h15.9m A24_11018 47 Aglaja PPMX 4963214 Diam = 137.0 m = 12.5 m = 12.2  Dur = 10.3s Dmag = 0.6 Sun: 166° Moon: 158°	2024 nov 30 7h40.3m A24_11103 602 Marianna TYC 1955–00997–1 Diam = 130.0 m = 10.6 m = 13.6  Dur = 64.0s Dmag = 3.0 Sun: 112° Moon: 103°	2024 nov 30 7h59.6m A24_11026 79 Eurynome TYC 0793–00199–1 Diam = 68.0 m = 11.6 m = 11.2  Dur = 28.8s Dmag = 0.5 Sun: 127° Moon: 116°	2024 nov 30 8h 2.5m A24_11141 1227 Geranium TYC 2907–00725–1 Diam = 48.2 m = 9.5 m = 15.5  Dur = 3.1s Dmag = 6.0 Sun: 155° Moon: 153°
2024 nov 30 10h13.7m A24_11016 36 Atalanta TYC 3782–00475–1 Diam = 109.0 m = 10.2 m = 11.5  Dur = 18.6s Dmag = 1.6 Sun: 131° Moon: 127°	2024 nov 30 10h41.3m A24_11128 914 Palisana UCAC4 520–029611 Diam = 79.0 m = 12.2 m = 13.2  Dur = 5.4s Dmag = 1.4 Sun: 147° Moon: 137°	2024 dec 1 10h47.2m B24_12001 15875 1996TP66 UCAC4 583–033445 Diam = 140.6 m = 14.1 m = 22.4  Dur = 6.9s Dmag = 8.3 Sun: 148° Moon: 151°	2024 dec 2 1h21.5m A24_12025 75 Eurydike UCAC4 605–019715 Diam = 58.3 m = 11.8 m = 12.3  Dur = 4.9s Dmag = 1.1 Sun: 166° Moon: 177°
2024 dec 2 8h 0.4m A24_12168 2307 Garuda UCAC4 543–037917 Diam = 45.1 m = 12.4 m = 15.9  Dur = 4.7s Dmag = 3.5 Sun: 145° Moon: 156°	2024 dec 3 4h58.7m A24_12098 567 Eleutheria UCAC4 563–009023 Diam = 97.0 m = 12.1 m = 13.8  Dur = 6.8s Dmag = 1.9 Sun: 171° Moon: 149°	2024 dec 4 1h36.8m A24_12122 751 Faŕna TYC 6952–00142–1 Diam = 115.0 m = 11.3 m = 13.6  Dur = 3.7s Dmag = 2.3 Sun: 66° Moon: 34°	2024 dec 4 8h24.6m A24_12102 596 Scheila UCAC4 551–009066 Diam = 117.0 m = 12.4 m = 13.7  Dur = 7.2s Dmag = 1.6 Sun: 173° Moon: 137°

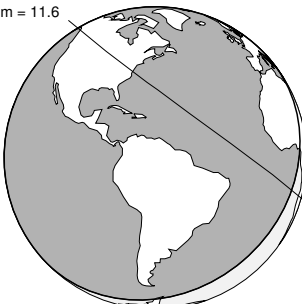
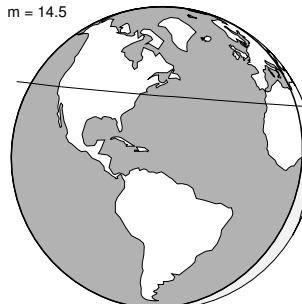
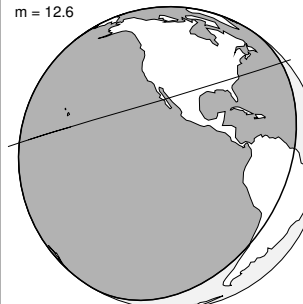
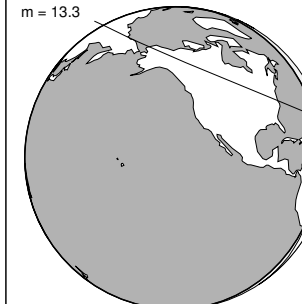
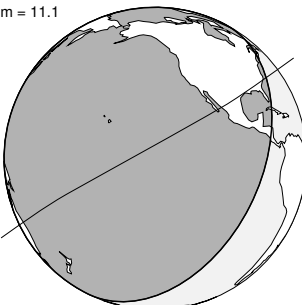
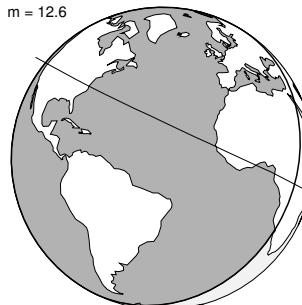
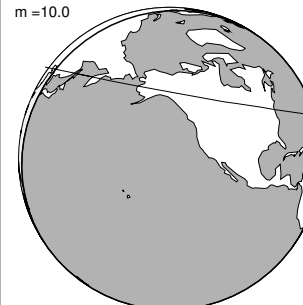
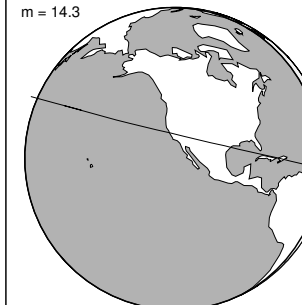
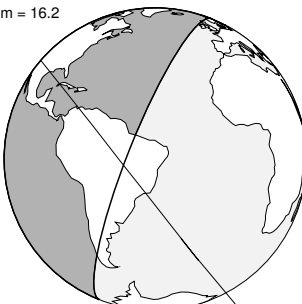
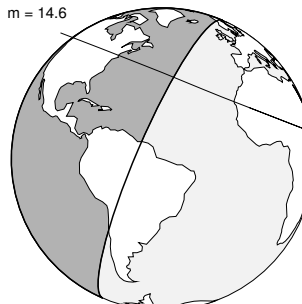
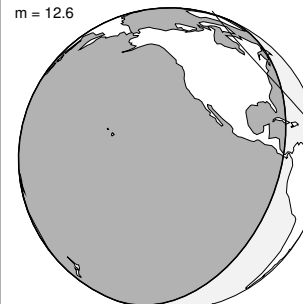
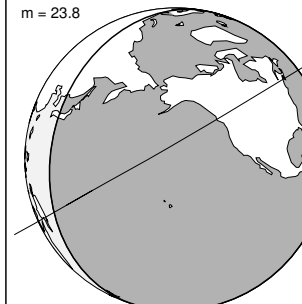
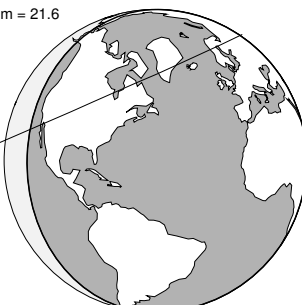
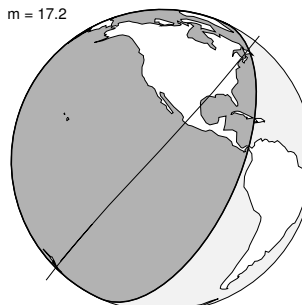
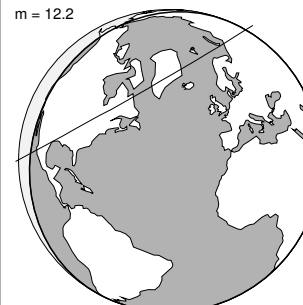
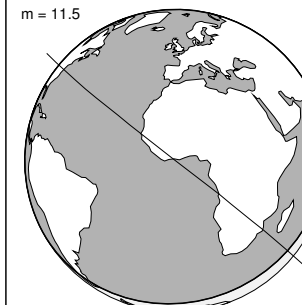
Occultations by major and minor planets – 2024

Region 1

2024 dec 4 8h43.8m A24_12165 1678 Hveen UCAC4 637–018091 Diam = 45.2 m = 12.1 m = 15.0  Dur = 3.8s Dmag = 3.0 Sun: 164° Moon: 143°	2024 dec 4 9h49.3m A24_12038 116 Sirona UCAC4 577–022963 Diam = 75.5 m = 12.1 m = 11.5  Dur = 7.6s Dmag = 0.5 Sun: 161° Moon: 161°	2024 dec 4 9h50.6m A24_12037 116 Sirona TYC 1868–01897–1 Diam = 75.5 m = 11.9 m = 11.5  Dur = 7.6s Dmag = 0.6 Sun: 161° Moon: 161°	2024 dec 4 11h29.0m A24_12036 116 Sirona PPMX 5014612 Diam = 75.5 m = 12.3 m = 11.5  Dur = 7.6s Dmag = 0.4 Sun: 161° Moon: 161°
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 4h36.6m A24_12107 656 Beagle UCAC4 529–004806 Diam = 57.5 m = 12.0 m = 14.9  Dur = 5.5s Dmag = 3.0 Sun: 151° Moon: 105°	2024 dec 5 14h 3.1m A24_12023 51 Nemausa UCAC4 480–041659 Diam = 152.3 m = 12.4 m = 11.2  Dur = 45.0s Dmag = 0.3 Sun: 130° Moon: 161°	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 4h32.8m A24_12094 513 Centesima TYC 0053–01328–1 Diam = 52.5 m = 11.9 m = 14.0  Dur = 7.5s Dmag = 2.3 Sun: 145° Moon: 87°	2024 dec 7 4h18.6m A24_12048 171 Ophelia UCAC4 386–151214 Diam = 121.0 m = 12.0 m = 14.7  Dur = 5.7s Dmag = 2.8 Sun: 76° Moon: 6°	2024 dec 7 9h32.6m A24_12044 140 Siwa TYC 1372–00417–1 Diam = 114.0 m = 12.1 m = 13.5  Dur = 10.9s Dmag = 1.6 Sun: 144° Moon: 142°	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°
2024 dec 8 6h10.4m A24_12124 759 Vinifera PPMX 2147004 Diam = 52.7 m = 12.3 m = 14.8  Dur = 3.9s Dmag = 2.7 Sun: 152° Moon: 109°	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 9 4h43.4m A24_12026 75 Eurydike UCAC4 605–018066 Diam = 58.3 m = 11.1 m = 12.3  Dur = 4.8s Dmag = 1.5 Sun: 171° Moon: 85°	2024 dec 9 5h14.4m A24_12109 664 Judith HIP 35758 Diam = 42.3 m = 9.1 m = 16.0  Dur = 3.4s Dmag = 6.8 Sun: 145° Moon: 115°

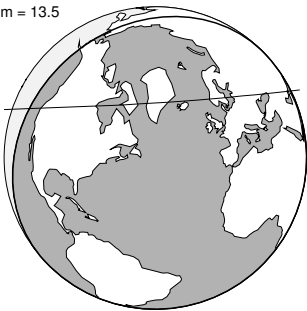
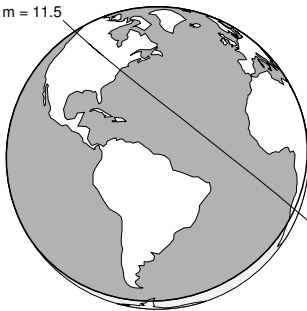
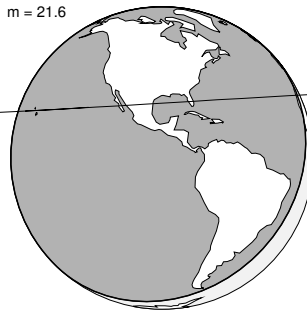
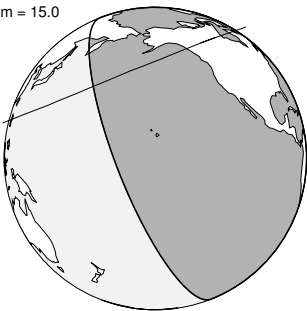
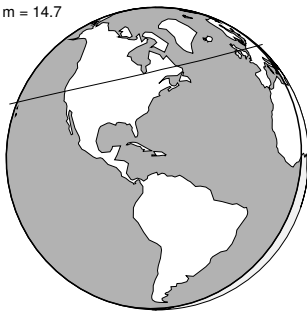
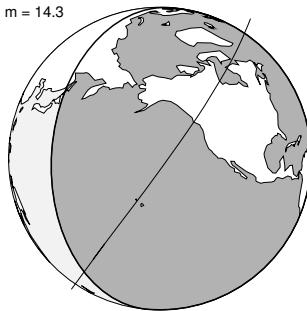
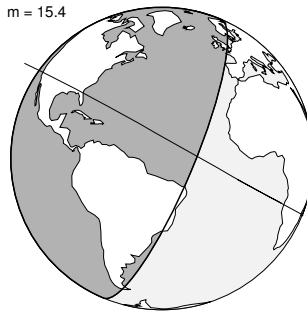
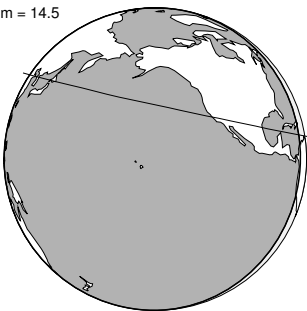
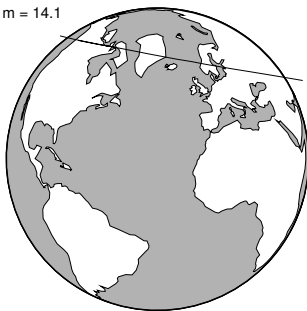
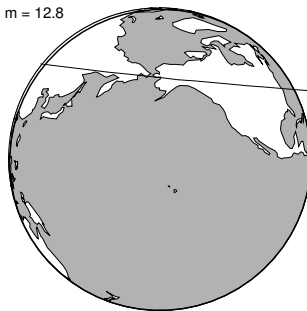
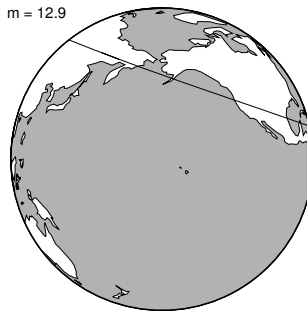
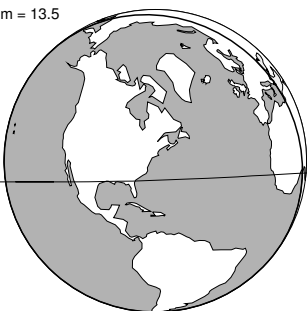
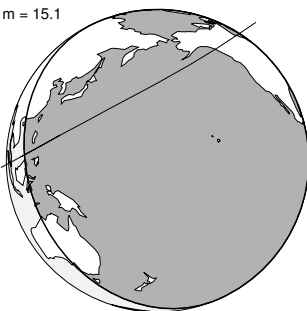
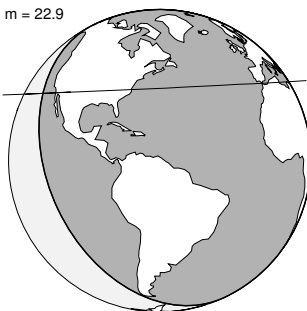
Occultations by major and minor planets – 2024

Region 1

2024 dec 9 5h25.0m A24_12112 679 Pax TYC 0136–01122–1 Diam = 65.5 m = 10.0 m = 11.6  Dur = 5.5s Dmag = 1.9 Sun: 153° Moon: 99°	2024 dec 9 5h40.6m A24_12104 627 Charis UCAC5 530–030226 Diam = 51.0 m = 12.5 m = 14.5  Dur = 4.5s Dmag = 2.2 Sun: 156° Moon: 105°	2024 dec 9 9h38.7m A24_12057 238 Hypatia TYC 0186–00610–1 Diam = 156.0 m = 11.9 m = 12.6  Dur = 19.7s Dmag = 1.2 Sun: 139° Moon: 115°	2024 dec 9 10h 5.3m A24_12116 691 Lehigh TYC 1878–00750–1 Diam = 92.6 m = 12.1 m = 13.3  Dur = 7.8s Dmag = 1.6 Sun: 161° Moon: 98°
2024 dec 9 11h54.7m A24_12022 51 Nemausa UCAC4 479–041175 Diam = 152.3 m = 11.5 m = 11.1  Dur = 38.1s Dmag = 0.6 Sun: 134° Moon: 121°	2024 dec 10 4h13.3m A24_12132 888 Parysatis TYC 0752–02224–1 Diam = 44.8 m = 8.4 m = 12.6  Dur = 5.9s Dmag = 4.2 Sun: 151° Moon: 96°	2024 dec 10 8h16.6m A24_12002 13 Egeria UCAC4 628–016995 Diam = 215.0 m = 11.8 m = 10.0  Dur = 18.5s Dmag = 0.2 Sun: 163° Moon: 59°	2024 dec 10 8h56.4m A24_12160 1356 Nyanza TYC 1886–01532–1 Diam = 67.2 m = 11.0 m = 14.3  Dur = 5.3s Dmag = 3.4 Sun: 164° Moon: 83°
2024 dec 10 9h 1.2m A24_12163 1437 Diomedes TYC 5510–01375–1 Diam = 171.0 m = 12.0 m = 16.2  Dur = 8.6s Dmag = 4.2 Sun: 79° Moon: 164°	2024 dec 11 9h45.8m A24_12072 358 Apollonia TYC 4932–00246–1 Diam = 91.8 m = 10.6 m = 14.6  Dur = 4.5s Dmag = 4.1 Sun: 80° Moon: 154°	2024 dec 12 11h38.3m A24_12089 472 Roma TYC 0798–00688–1 Diam = 47.6 m = 11.8 m = 12.6  Dur = 9.3s Dmag = 1.3 Sun: 136° Moon: 83°	2024 dec 13 7h41.2m B24_12008 2012UQ177 UCAC4 639–011293 Diam = 104.7 m = 14.6 m = 23.8  Dur = 4.9s Dmag = 9.2 Sun: 145° Moon: 16°
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 11h24.6m A24_12176 7119 Hiera TYC 0231–00963–1 Diam = 45.7 m = 12.2 m = 17.2  Dur = 5.3s Dmag = 5.0 Sun: 120° Moon: 72°	2024 dec 15 0h42.7m A24_12024 54 Alexandra UCAC4 630–014106 Diam = 171.0 m = 12.4 m = 12.2  Dur = 13.3s Dmag = 0.6 Sun: 155° Moon: 18°	2024 dec 16 0h44.9m A24_12114 679 Pax TYC 0139–00850–1 Diam = 65.5 m = 8.9 m = 11.5  Dur = 5.0s Dmag = 2.7 Sun: 159° Moon: 24°

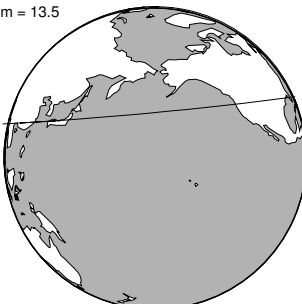
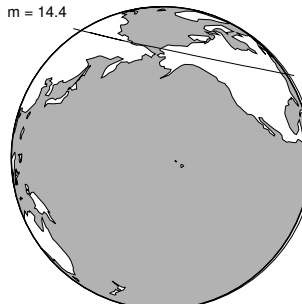
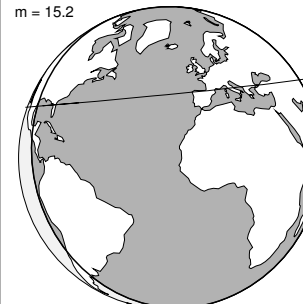
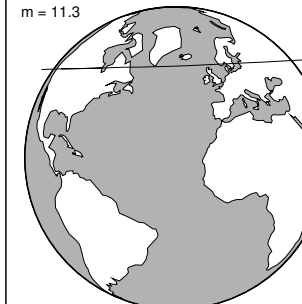
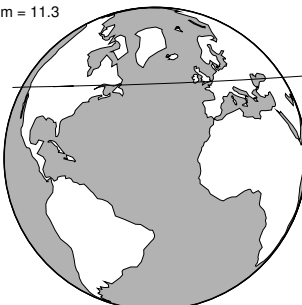
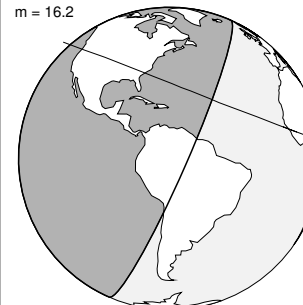
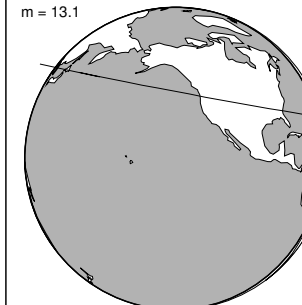
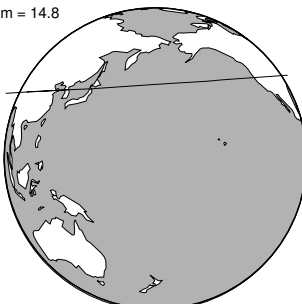
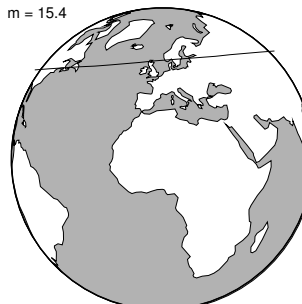
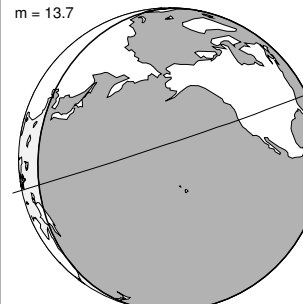
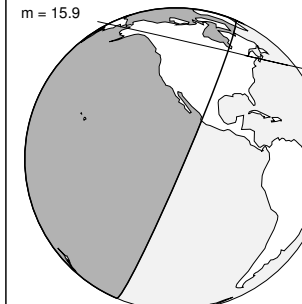
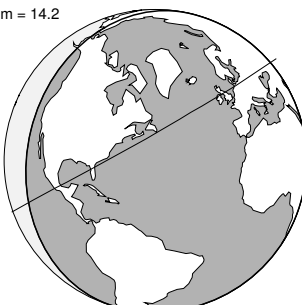
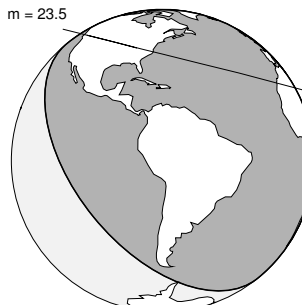
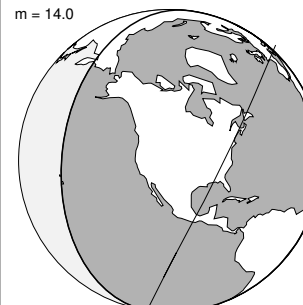
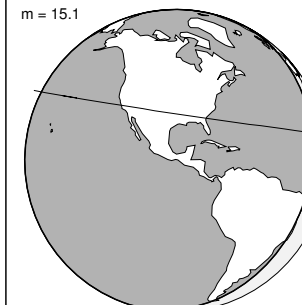
Occultations by major and minor planets – 2024

Region 1

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 4h13.4m A24_12113 679 Pax UCAC4 473–016227 Diam = 65.5 m = 12.0 m = 11.5  Dur = 5.0s Dmag = 0.6 Sun: 159° Moon: 24°	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 7h29.8m B24_12007 612688 2003UT292 UCAC5 477–026360 Diam = 160.0 m = 14.9 m = 21.6  Dur = 7.2s Dmag = 6.7 Sun: 153° Moon: 24°
2024 dec 17 5h 8.4m A24_12130 829 Academia TYC 0599–01284–1 Diam = 44.0 m = 11.8 m = 15.0  Dur = 4.1s Dmag = 3.3 Sun: 104° Moon: 98°	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 6h33.5m A24_12143 973 Aralia UCAC4 639–009714 Diam = 54.7 m = 11.4 m = 14.3  Dur = 8.2s Dmag = 2.9 Sun: 135° Moon: 99°	2024 dec 20 8h11.5m A24_12063 271 Penthesilea TYC 0269–00835–1 Diam = 61.2 m = 10.5 m = 15.4  Dur = 7.0s Dmag = 5.0 Sun: 102° Moon: 17°
2024 dec 20 11h 9.1m A24_12146 1010 Marlene UCAC5 564–034373 Diam = 45.2 m = 12.5 m = 14.5  Dur = 3.9s Dmag = 2.2 Sun: 163° Moon: 46°	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 22 10h15.4m A24_12083 416 Vaticana PPMX 3989752 Diam = 89.5 m = 12.4 m = 12.8  Dur = 5.5s Dmag = 1.0 Sun: 169° Moon: 91°	2024 dec 22 11h10.1m A24_12117 691 Lehigh TYC 1881–01450–1 Diam = 92.6 m = 12.0 m = 12.9  Dur = 7.1s Dmag = 1.3 Sun: 177° Moon: 83°
2024 dec 23 5h46.8m A24_12120 709 Fringilla TYC 2947–00801–1 Diam = 99.6 m = 11.2 m = 13.5  Dur = 7.3s Dmag = 2.4 Sun: 159° Moon: 82°	2024 dec 23 9h59.8m A24_12167 2266 Tchaikovsky TYC 0665–00817–1 Diam = 53.6 m = 10.4 m = 15.1  Dur = 6.7s Dmag = 4.7 Sun: 149° Moon: 125°	2024 dec 24 1h25.4m B24_12011 2014UG241 UCAC4 494–004892 Diam = 114.8 m = 14.2 m = 22.9  Dur = 6.9s Dmag = 8.7 Sun: 138° Moon: 142°	2024 dec 24 4h16.0m A24_12006 14 Irene PPMX 5069577 Diam = 152.4 m = 12.2 m = 9.6  Dur = 13.9s Dmag = 0.1 Sun: 166° Moon: 91°

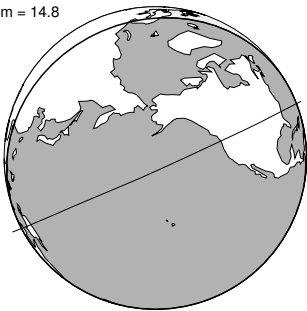
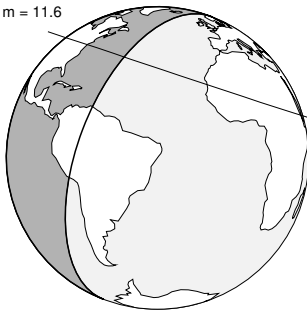
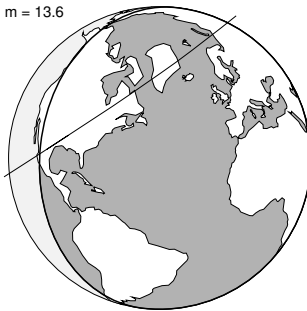
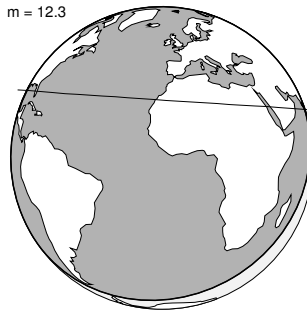
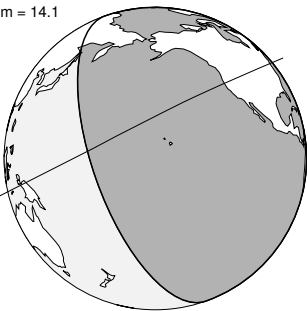
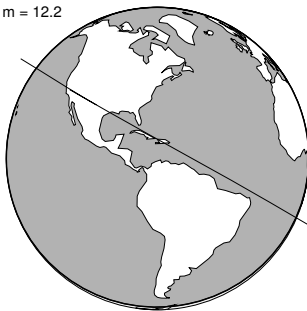
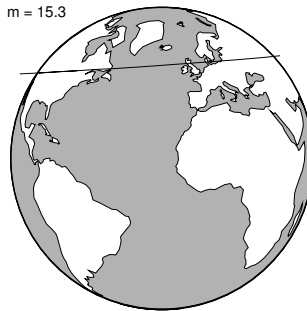
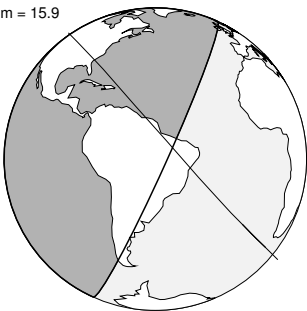
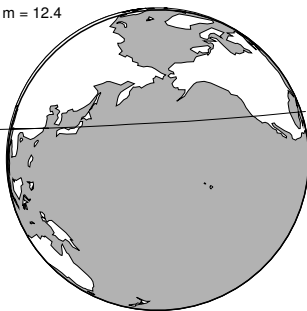
Occultations by major and minor planets – 2024

Region 1

2024 dec 24 11h42.9m A24_12150 1086 Nata UCAC4 605–032653 Diam = 70.5 m = 11.9 m = 13.5  Dur = 5.5s Dmag = 1.8 Sun: 171° Moon: 104°	2024 dec 24 11h43.4m A24_12145 1010 Marlene UCAC4 565–035581 Diam = 45.2 m = 11.8 m = 14.4  Dur = 3.7s Dmag = 2.8 Sun: 168° Moon: 95°	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 10h 1.1m A24_12060 239 Adrastea UCAC4 445–053958 Diam = 43.0 m = 12.1 m = 16.2  Dur = 4.3s Dmag = 4.1 Sun: 96° Moon: 33°	2024 dec 25 10h 9.8m A24_12045 140 Siwa TYC 1358–01648–1 Diam = 114.0 m = 11.3 m = 13.1  Dur = 7.7s Dmag = 2.0 Sun: 165° Moon: 103°
2024 dec 25 12h 7.3m A24_12079 368 Haidea PPMX 6016845 Diam = 74.0 m = 12.3 m = 14.8  Dur = 4.8s Dmag = 2.6 Sun: 171° Moon: 120°	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 8h41.0m A24_12017 35 Leukothea UCAC4 610–012365 Diam = 108.0 m = 12.3 m = 13.7  Dur = 8.7s Dmag = 1.6 Sun: 150° Moon: 154°	2024 dec 26 13h37.9m A24_12062 267 Tirza UCAC4 477–050750 Diam = 53.6 m = 12.2 m = 15.9  Dur = 3.5s Dmag = 3.7 Sun: 93° Moon: 44°
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 1h55.0m A24_12181 2014SC374 UCAC4 399–004172 Diam = 96.4 m = 12.4 m = 23.5  Dur = 5.3s Dmag = 11.1 Sun: 126° Moon: 148°	2024 dec 27 3h50.5m A24_12128 773 Irmintraud PPMX 2905610 Diam = 99.1 m = 12.2 m = 14.0  Dur = 10.0s Dmag = 2.0 Sun: 135° Moon: 161°	2024 dec 27 8h11.2m A24_12164 1542 Schalen TYC 1378–01118–1 Diam = 50.1 m = 11.8 m = 15.1  Dur = 4.6s Dmag = 3.3 Sun: 152° Moon: 111°

Occultations by major and minor planets – 2024

Region 1

2024 dec 27 10h 6.4m A24_12127 759 Vinifera PPMX 2134485 Diam = 52.7 m = 12.4 m = 14.8  Dur = 3.6s Dmag = 2.5 Sun: 155° Moon: 144°	2024 dec 27 10h28.6m A24_12001 9 Metis UCAC4 397-056308 Diam = 231.2 m = 11.4 m = 11.6  Dur = 7.1s Dmag = 0.8 Sun: 57° Moon: 19°	2024 dec 28 0h19.3m A24_12075 366 Vincentina TYC 2363-02135-1 Diam = 98.1 m = 11.1 m = 13.6  Dur = 10.8s Dmag = 2.6 Sun: 142° Moon: 170°	2024 dec 28 1h38.0m A24_12059 238 Hypatia UCAC4 469-029288 Diam = 156.0 m = 11.1 m = 12.3  Dur = 13.4s Dmag = 1.5 Sun: 156° Moon: 127°
2024 dec 28 6h12.6m A24_12054 207 Hedda UCAC4 520-003082 Diam = 60.0 m = 12.4 m = 14.1  Dur = 11.8s Dmag = 1.9 Sun: 114° Moon: 146°	2024 dec 29 5h 0.8m A24_12134 888 Parysatis UCAC4 513-028900 Diam = 44.8 m = 11.2 m = 12.2  Dur = 4.2s Dmag = 1.4 Sun: 169° Moon: 153°	2024 dec 29 23h 3.4m A24_12071 356 Liguria TYC 0590-00515-1 Diam = 135.0 m = 11.3 m = 12.8  Dur = 6.1s Dmag = 1.8 Sun: 81° Moon: 93°	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 31 8h55.3m A24_12142 972 Cohnia TYC 5519-01044-1 Diam = 79.0 m = 12.4 m = 15.9  Dur = 6.9s Dmag = 3.5 Sun: 94° Moon: 99°	2024 dec 31 11h26.6m A24_12040 120 Lachesis TYC 2424-00357-1 Diam = 178.0 m = 10.8 m = 12.4  Dur = 12.9s Dmag = 1.8 Sun: 168° Moon: 166°		