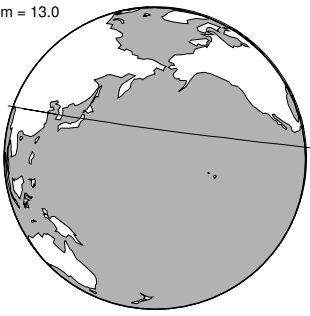
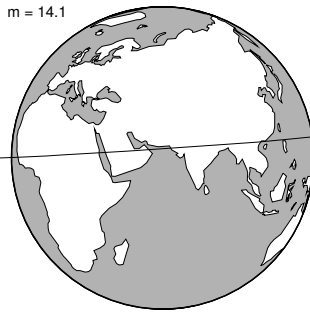
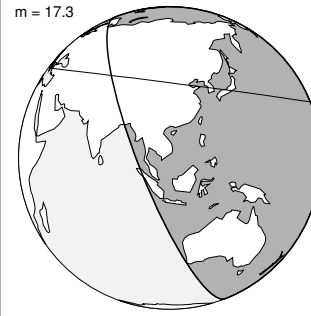
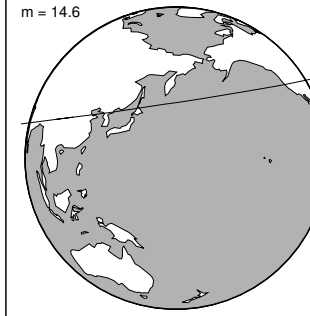
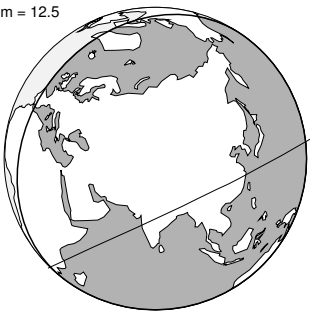
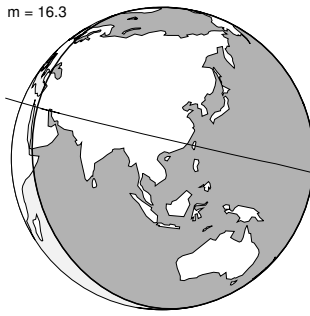
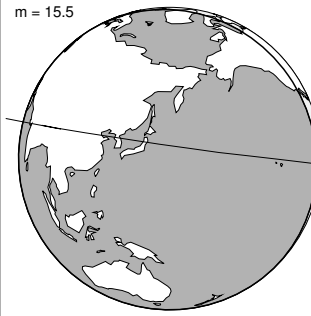
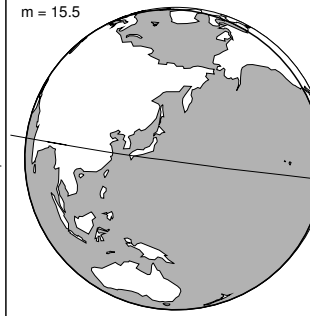
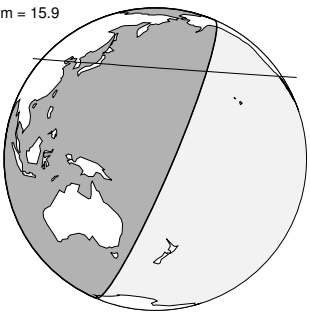
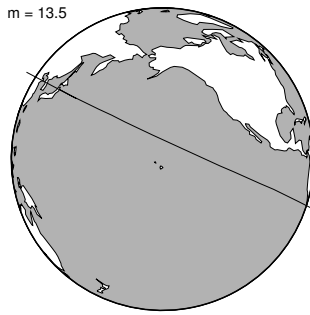
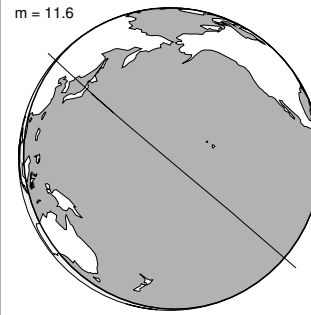
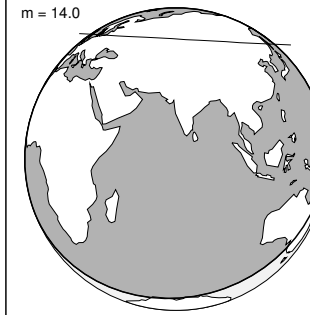
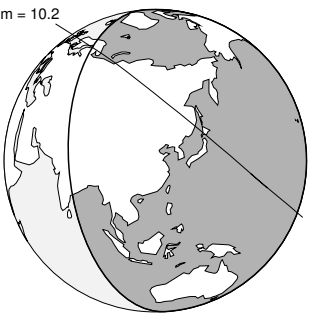
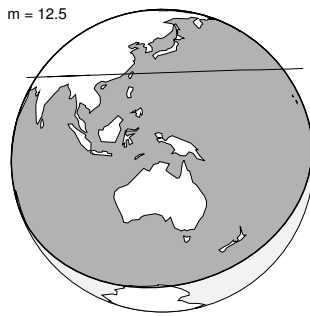
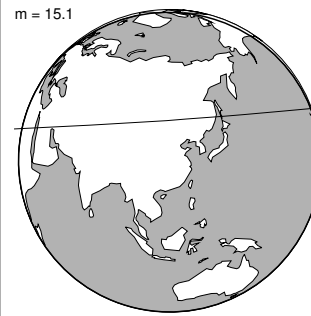
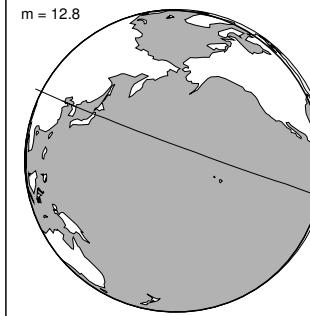


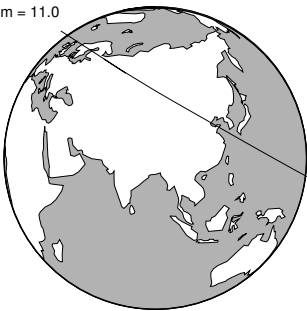
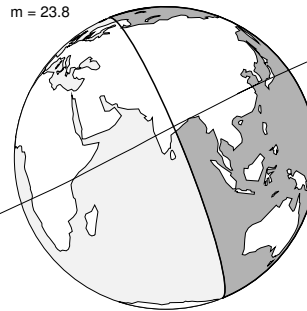
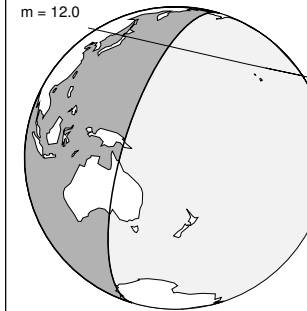
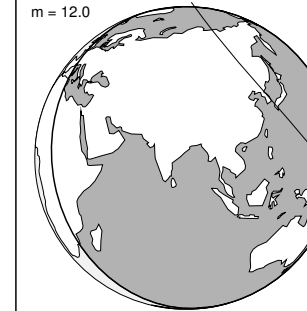
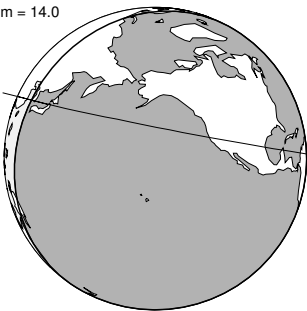
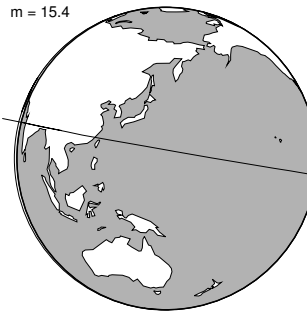
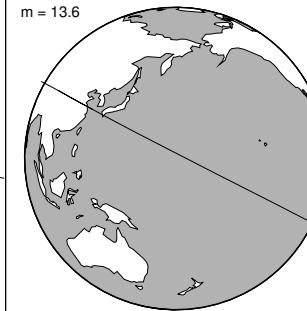
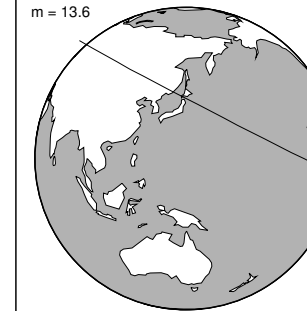
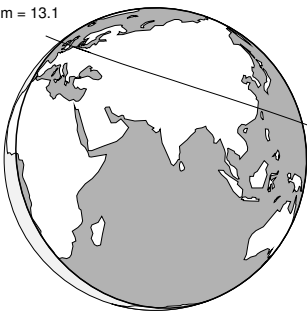
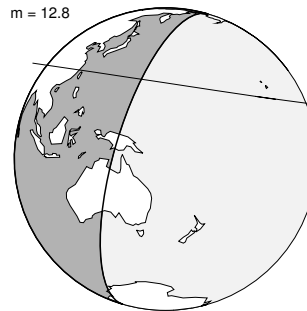
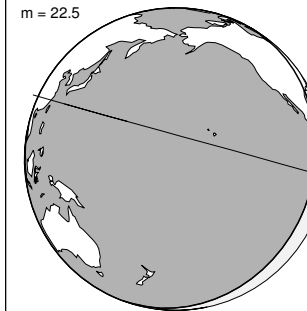
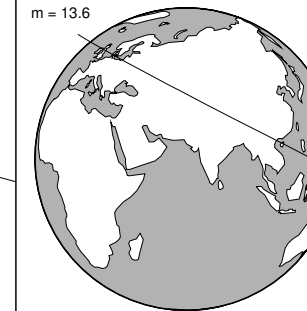
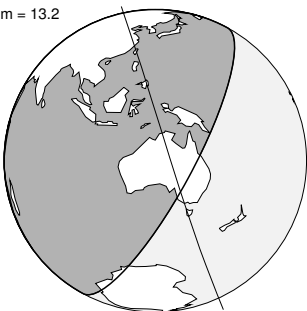
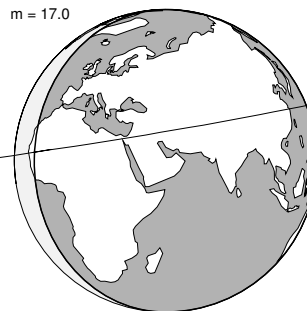
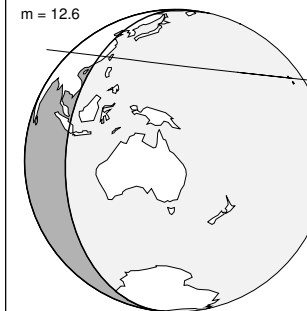
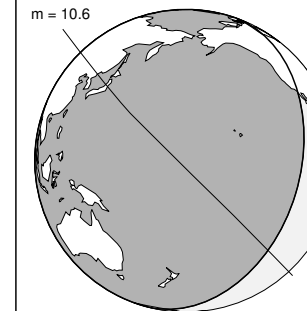
Occultations by major and minor planets – 2023

Region 7

2023 jan 1 12h32.8m A23_01098 604 Tekmessa TYC 1908–00519–1 Diam = 65.3 m = 11.1 m = 13.0  Dur = 5.6s Dmag = 2.1 Sun: 171° Moon: 66°	2023 jan 1 19h37.4m A23_01095 552 Sigelinde HIP 31483 Diam = 81.0 m = 7.8 m = 14.1  Dur = 5.4s Dmag = 6.2 Sun: 176° Moon: 55°	2023 jan 2 11h27.6m A23_01143 1794 Finsen HIP 6720 Diam = 43.1 m = 9.4 m = 17.3  Dur = 5.4s Dmag = 7.8 Sun: 102° Moon: 28°	2023 jan 3 12h57.8m A23_01135 1297 Quadea UCAC5 585–030161 Diam = 66.0 m = 12.5 m = 14.6  Dur = 5.2s Dmag = 2.3 Sun: 174° Moon: 34°
2023 jan 3 17h 6.2m A23_01045 117 Lomia UCAC4 673–035184 Diam = 154.0 m = 12.3 m = 12.5  Dur = 13.5s Dmag = 0.8 Sun: 149° Moon: 23°	2023 jan 4 14h40.5m A23_01146 2260 Neoptolemus UCAC4 546–010798 Diam = 85.0 m = 12.4 m = 16.3  Dur = 6.1s Dmag = 3.9 Sun: 148° Moon: 8°	2023 jan 4 14h53.4m A23_01125 1002 Olbersia UCAC4 618–043832 Diam = 57.1 m = 12.3 m = 15.5  Dur = 4.1s Dmag = 3.3 Sun: 163° Moon: 38°	2023 jan 4 14h59.5m A23_01124 1002 Olbersia TYC 2472–01545–1 Diam = 57.1 m = 10.8 m = 15.5  Dur = 4.1s Dmag = 4.8 Sun: 163° Moon: 38°
2023 jan 5 18h21.8m A23_01065 314 Rosalia TYC 4951–00274–1 Diam = 61.6 m = 11.9 m = 15.9  Dur = 6.0s Dmag = 4.0 Sun: 96° Moon: 96°	2023 jan 7 10h30.7m A23_01112 891 Gunhild UCAC5 564–035844 Diam = 53.6 m = 12.5 m = 13.5  Dur = 3.9s Dmag = 1.4 Sun: 178° Moon: 6°	2023 jan 8 10h35.2m A23_01126 1021 Flammario PPMX 6022148 Diam = 103.0 m = 12.2 m = 11.6  Dur = 9.9s Dmag = 0.5 Sun: 163° Moon: 33°	2023 jan 8 19h43.2m A23_01071 392 Wilhelmina TYC 4832–01100–1 Diam = 64.6 m = 12.2 m = 14.0  Dur = 5.2s Dmag = 1.9 Sun: 155° Moon: 28°
2023 jan 9 12h16.4m A23_01066 324 Bamberg TYC 2348–01503–1 Diam = 227.6 m = 12.1 m = 10.2  Dur = 29.1s Dmag = 0.2 Sun: 124° Moon: 80°	2023 jan 9 15h46.8m A23_01018 25 Phocaea UCAC4 395–036742 Diam = 78.0 m = 12.5 m = 12.5  Dur = 5.2s Dmag = 0.8 Sun: 145° Moon: 38°	2023 jan 10 16h49.0m A23_01137 1437 Diomedes UCAC4 616–041516 Diam = 171.0 m = 12.4 m = 15.1  Dur = 9.6s Dmag = 2.7 Sun: 168° Moon: 40°	2023 jan 13 12h46.0m A23_01077 454 Mathesis TYC 1948–00371–1 Diam = 84.5 m = 10.6 m = 12.8  Dur = 7.7s Dmag = 2.3 Sun: 164° Moon: 60°

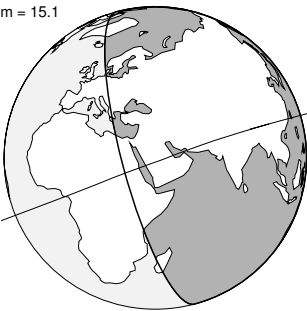
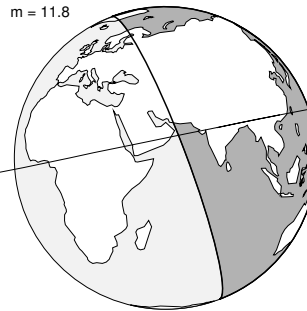
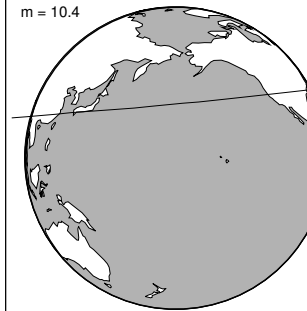
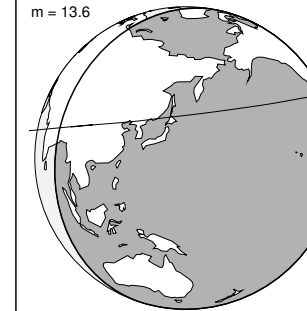
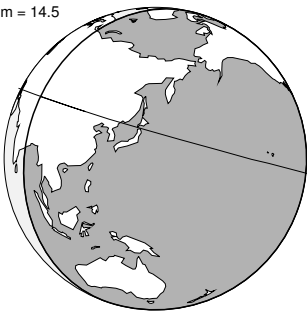
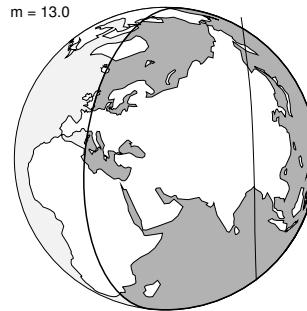
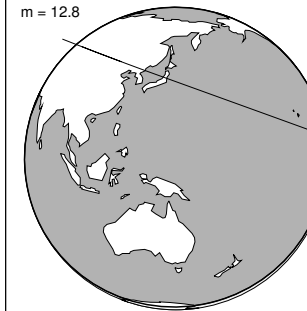
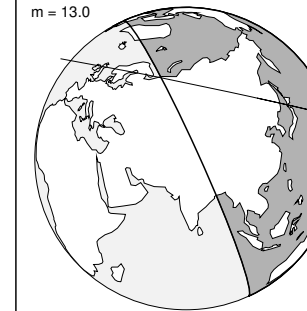
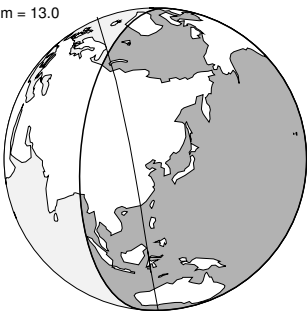
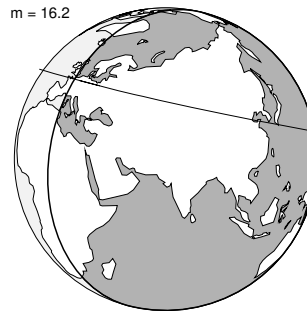
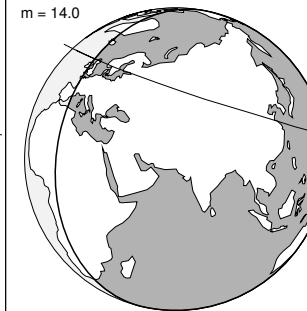
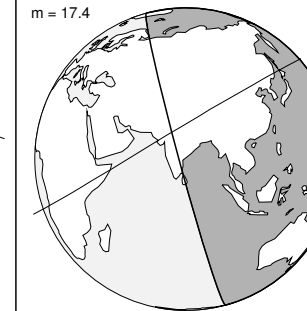
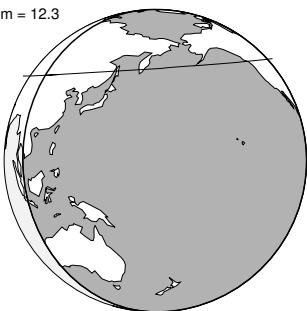
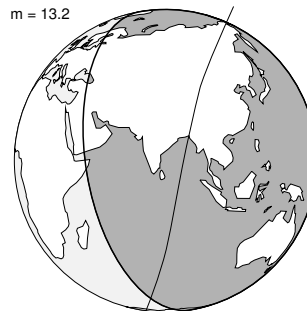
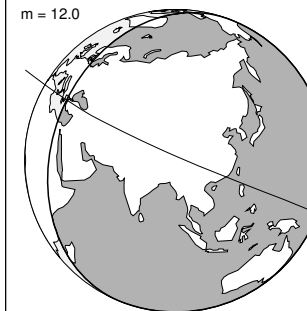
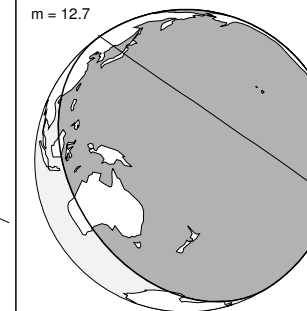
Occultations by major and minor planets – 2023

Region 7

2023 jan 13 18h14.9m A23_01093 505 Cava TYC 1924–00126–1 Diam = 79.1 m = 10.2 m = 11.0  Dur = 8.6s Dmag = 1.3 Sun: 173° Moon: 74°	2023 jan 17 12h16.1m B23_01010 2013SH113 UCAC4 483–001768 Diam = 140.0 m = 14.2 m = 23.8  Dur = 16.3s Dmag = 9.6 Sun: 82° Moon: 143°	2023 jan 17 20h 7.6m A23_01015 16 Psyche TYC 5592–00685–1 Diam = 264.0 m = 10.1 m = 12.0  Dur = 10.2s Dmag = 2.1 Sun: 69° Moon: 14°	2023 jan 18 16h31.9m A23_01127 1021 Flammario TYC 1317–00908–1 Diam = 103.0 m = 11.8 m = 12.0  Dur = 11.4s Dmag = 0.9 Sun: 152° Moon: 160°
2023 jan 20 8h48.5m A23_01110 818 Kapteyenia TYC 2443–00118–1 Diam = 53.0 m = 11.1 m = 14.0  Dur = 4.4s Dmag = 2.9 Sun: 154° Moon: 172°	2023 jan 20 13h23.0m A23_01130 1082 Pirola HIP 35801 Diam = 47.0 m = 7.7 m = 15.4  Dur = 3.2s Dmag = 7.8 Sun: 169° Moon: 170°	2023 jan 22 13h 1.2m A23_01086 484 Pittsburghia UCAC4 540–045604 Diam = 44.5 m = 11.9 m = 13.6  Dur = 3.2s Dmag = 1.9 Sun: 177° Moon: 167°	2023 jan 22 14h33.5m A23_01085 484 Pittsburghia HIP 39805 Diam = 44.5 m = 8.8 m = 13.6  Dur = 3.2s Dmag = 4.8 Sun: 177° Moon: 166°
2023 jan 22 17h52.4m A23_01091 490 Veritas Gaia 101–0047758 Diam = 121.0 m = 11.8 m = 13.1  Dur = 10.2s Dmag = 1.6 Sun: 154° Moon: 142°	2023 jan 22 20h41.0m A23_01024 45 Eugenia UCAC4 386–067550 Diam = 214.0 m = 12.2 m = 12.8  Dur = 7.4s Dmag = 1.1 Sun: 70° Moon: 85°	2023 jan 23 13h11.3m B23_01004 533085 2014BW64 UCAC4 504–051064 Diam = 208.9 m = 13.9 m = 22.5  Dur = 9.1s Dmag = 8.6 Sun: 155° Moon: 173°	2023 jan 23 19h27.2m A23_01087 484 Pittsburghia UCAC4 541–044918 Diam = 44.5 m = 12.1 m = 13.6  Dur = 3.2s Dmag = 1.8 Sun: 176° Moon: 148°
2023 jan 23 19h53.4m A23_01073 426 Hippo UCAC5 337–062077 Diam = 134.0 m = 12.4 m = 13.2  Dur = 8.9s Dmag = 1.2 Sun: 104° Moon: 129°	2023 jan 24 18h39.2m A23_01151 6545 Leitus UCAC4 565–025997 Diam = 41.7 m = 11.6 m = 17.0  Dur = 3.1s Dmag = 5.3 Sun: 150° Moon: 109°	2023 jan 24 23h11.6m A23_01055 196 Philomela TYC 6825–00180–1 Diam = 146.0 m = 8.0 m = 12.6  Dur = 3.8s Dmag = 4.6 Sun: 43° Moon: 87°	2023 jan 25 14h50.6m A23_01021 40 Harmonia TYC 0858–00830–1 Diam = 111.0 m = 12.2 m = 10.6  Dur = 21.4s Dmag = 0.2 Sun: 139° Moon: 168°

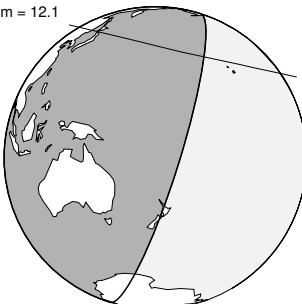
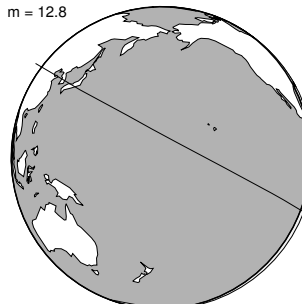
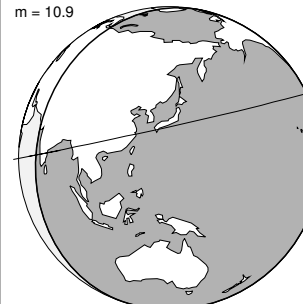
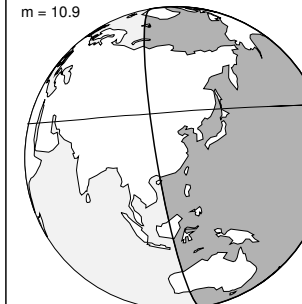
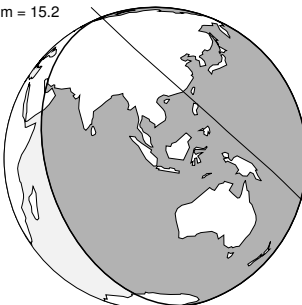
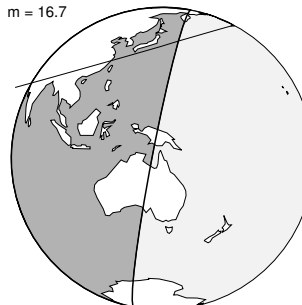
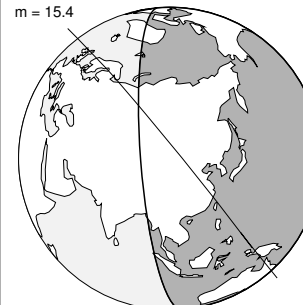
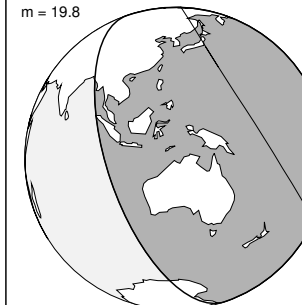
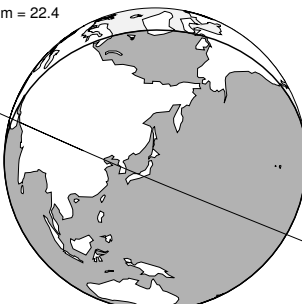
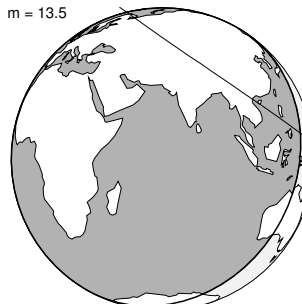
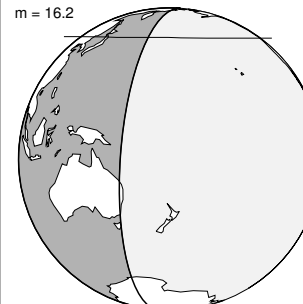
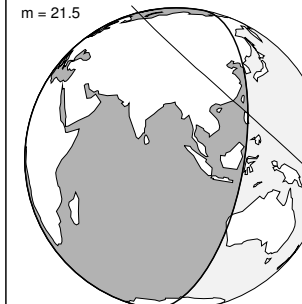
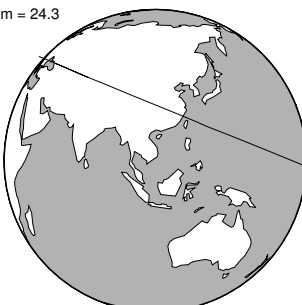
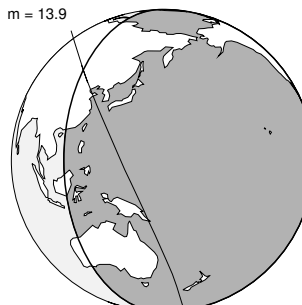
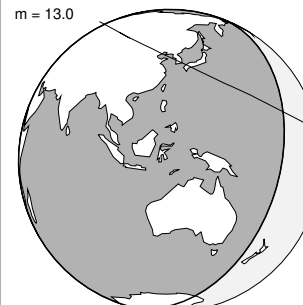
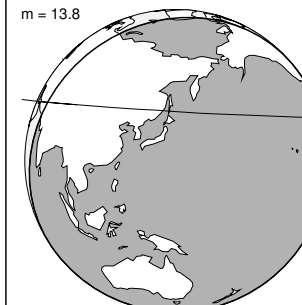
Occultations by major and minor planets – 2023

Region 7

2023 jan 26 15h41.3m A23_01036 99 Dike HIP 13801 Diam = 54.2 m = 9.5 m = 15.1  Dur = 8.0s Dmag = 5.6 Sun: 102° Moon: 38°	2023 jan 27 13h39.2m A23_01063 230 Athamantis TYC 0625–01069–1 Diam = 125.0 m = 9.4 m = 11.8  Dur = 5.5s Dmag = 2.5 Sun: 82° Moon: 6°	2023 jan 29 11h38.3m A23_01035 89 Julia UCAC4 562–045465 Diam = 159.0 m = 12.3 m = 10.4  Dur = 10.9s Dmag = 0.2 Sun: 173° Moon: 74°	2023 jan 31 12h 6.4m A23_01099 604 Tekmessa PPMX 5050239 Diam = 65.3 m = 11.7 m = 13.6  Dur = 8.3s Dmag = 2.1 Sun: 148° Moon: 27°
2023 jan 31 12h13.5m A23_01142 1771 Makover UCAC4 600–037451 Diam = 58.7 m = 12.4 m = 14.5  Dur = 7.0s Dmag = 2.2 Sun: 149° Moon: 27°	2023 feb 2 16h38.4m A23_02031 117 Lomia UCAC4 657–027485 Diam = 154.0 m = 12.4 m = 13.0  Dur = 20.4s Dmag = 1.1 Sun: 122° Moon: 26°	2023 feb 3 14h45.2m A23_02018 56 Melete UCAC4 479–046208 Diam = 90.8 m = 12.1 m = 12.8  Dur = 6.0s Dmag = 1.2 Sun: 168° Moon: 33°	2023 feb 4 11h56.0m A23_02020 71 Niobe TYC 2319–00803–1 Diam = 87.3 m = 9.8 m = 13.0  Dur = 4.3s Dmag = 3.3 Sun: 85° Moon: 80°
2023 feb 5 11h47.9m A23_02033 117 Lomia UCAC4 656–027192 Diam = 154.0 m = 12.4 m = 13.0  Dur = 19.9s Dmag = 1.1 Sun: 119° Moon: 56°	2023 feb 6 16h50.8m A23_02118 1357 Khama UCAC4 607–033541 Diam = 45.1 m = 11.1 m = 16.2  Dur = 6.0s Dmag = 5.1 Sun: 139° Moon: 49°	2023 feb 6 17h13.0m A23_02092 629 Bernardina UCAC4 596–036060 Diam = 43.7 m = 12.2 m = 14.0  Dur = 8.1s Dmag = 2.0 Sun: 141° Moon: 48°	2023 feb 7 12h42.3m A23_02130 5123 Cynus TYC 1232–00592–1 Diam = 43.7 m = 11.5 m = 17.4  Dur = 3.6s Dmag = 5.9 Sun: 92° Moon: 107°
2023 feb 8 11h 8.9m A23_02089 584 Semiramis UCAC4 531–040663 Diam = 56.2 m = 11.9 m = 12.3  Dur = 6.4s Dmag = 0.9 Sun: 151° Moon: 59°	2023 feb 8 14h45.3m A23_02053 236 Honoria TYC 0712–02863–1 Diam = 90.5 m = 10.4 m = 13.2  Dur = 22.6s Dmag = 2.8 Sun: 121° Moon: 90°	2023 feb 10 15h44.7m A23_02085 505 Cava TYC 2452–01975–1 Diam = 79.1 m = 10.1 m = 12.0  Dur = 19.1s Dmag = 2.0 Sun: 145° Moon: 88°	2023 feb 12 10h32.6m A23_02010 25 Phocaea UCAC4 406–031309 Diam = 78.0 m = 11.5 m = 12.7  Dur = 5.8s Dmag = 1.5 Sun: 139° Moon: 101°

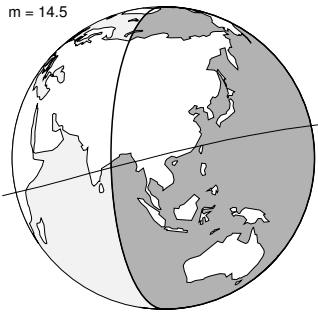
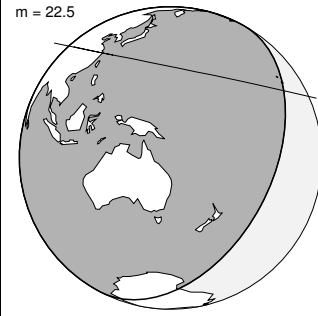
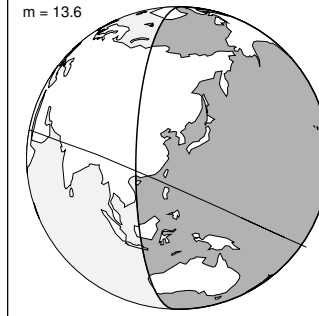
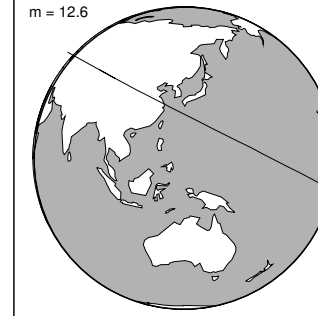
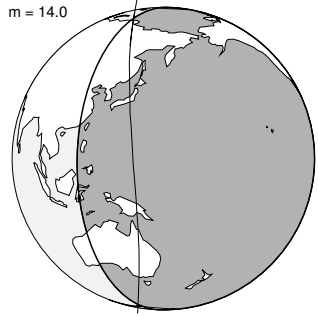
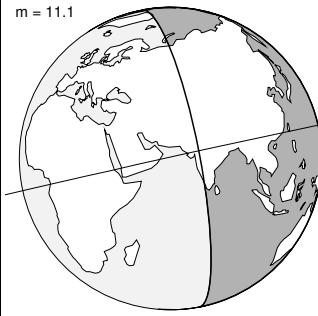
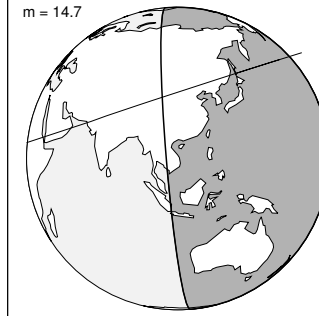
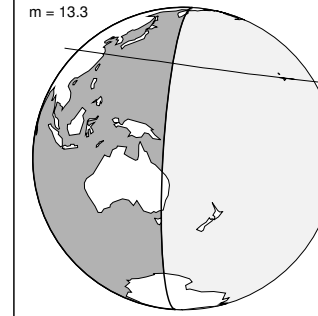
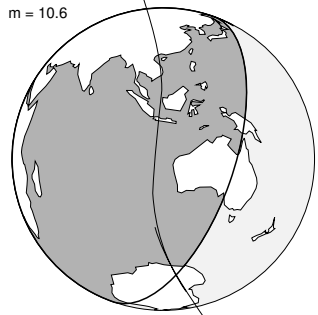
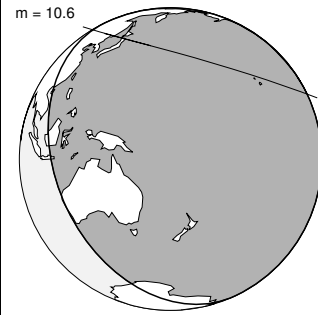
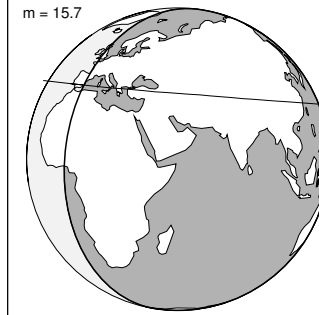
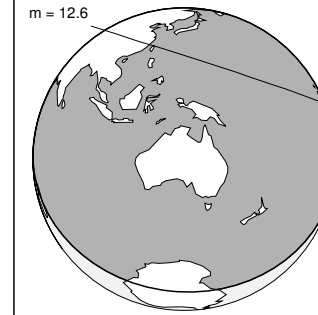
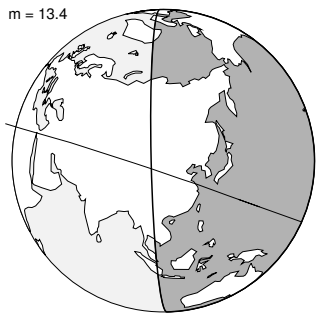
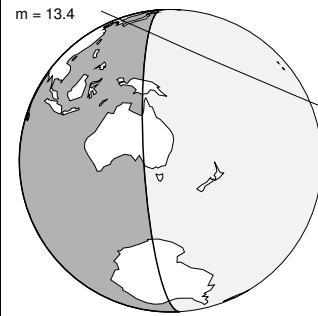
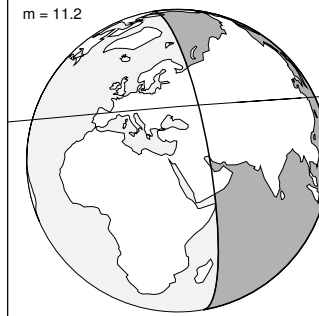
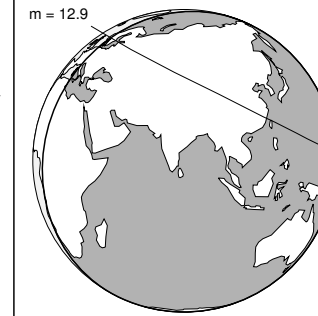
Occultations by major and minor planets – 2023

Region 7

2023 feb 13 17h51.9m A23_02012 32 Pomona TYC 6159–01149–1 Diam = 82.0 m = 11.0 m = 12.1  Dur = 5.9s Dmag = 1.4 Sun: 99° Moon: 10°	2023 feb 14 12h51.2m A23_02070 335 Roberta TYC 0839–00964–1 Diam = 93.6 m = 10.5 m = 12.8  Dur = 7.5s Dmag = 2.4 Sun: 167° Moon: 88°	2023 feb 16 13h14.8m A23_02024 89 Julia TYC 1388–00102–1 Diam = 159.0 m = 12.2 m = 10.9  Dur = 13.7s Dmag = 0.3 Sun: 151° Moon: 156°	2023 feb 17 10h34.9m A23_02071 349 Dembowska UCAC4 593–011702 Diam = 143.0 m = 12.4 m = 10.9  Dur = 10.9s Dmag = 0.2 Sun: 97° Moon: 138°
2023 feb 18 14h24.6m A23_02052 225 Henrietta UCAC4 435–032680 Diam = 124.0 m = 11.3 m = 15.2  Dur = 8.7s Dmag = 4.0 Sun: 135° Moon: 147°	2023 feb 18 20h45.8m A23_02125 2235 Vittore TYC 5624–00261–1 Diam = 54.6 m = 10.8 m = 16.7  Dur = 3.0s Dmag = 6.0 Sun: 86° Moon: 67°	2023 feb 20 11h46.6m A23_02105 911 Agamemnon TYC 2892–00363–1 Diam = 175.0 m = 9.5 m = 15.4  Dur = 13.0s Dmag = 5.9 Sun: 101° Moon: 100°	2023 feb 22 11h47.7m B23_02002 447178 2005RO43 UCAC4 385–014059 Diam = 148.6 m = 14.0 m = 19.8  Dur = 8.9s Dmag = 5.8 Sun: 117° Moon: 92°
2023 feb 22 14h34.1m A23_02133 535230 2014YH50 UCAC4 659–053070 Diam = 234.4 m = 12.0 m = 22.4  Dur = 9.4s Dmag = 10.4 Sun: 148° Moon: 129°	2023 feb 22 21h23.6m A23_02098 737 Arequipa HIP 58491 Diam = 46.3 m = 7.9 m = 13.5  Dur = 4.0s Dmag = 5.6 Sun: 151° Moon: 170°	2023 feb 24 19h46.1m A23_02076 414 Liriope UCAC5 363–098332 Diam = 75.2 m = 12.5 m = 16.2  Dur = 3.1s Dmag = 3.7 Sun: 70° Moon: 131°	2023 feb 24 22h16.9m B23_02003 495613 2015FG345 UCAC4 453–057055 Diam = 354.8 m = 13.7 m = 21.5  Dur = 33.4s Dmag = 7.8 Sun: 116° Moon: 164°
2023 feb 25 17h 9.0m B23_02007 1999CM119 UCAC4 501–054687 Diam = 109.6 m = 14.4 m = 24.3  Dur = 4.3s Dmag = 10.0 Sun: 177° Moon: 110°	2023 feb 26 10h31.5m A23_02047 191 Kolga UCAC4 516–040089 Diam = 105.0 m = 12.4 m = 13.9  Dur = 16.1s Dmag = 1.7 Sun: 130° Moon: 53°	2023 feb 26 18h43.8m A23_02037 138 Tolosa UCAC4 426–058101 Diam = 47.5 m = 11.9 m = 13.0  Dur = 11.0s Dmag = 1.5 Sun: 136° Moon: 139°	2023 feb 27 13h30.8m A23_02100 784 Pickeringia UCAC4 591–047548 Diam = 90.0 m = 12.2 m = 13.8  Dur = 6.7s Dmag = 1.8 Sun: 156° Moon: 68°

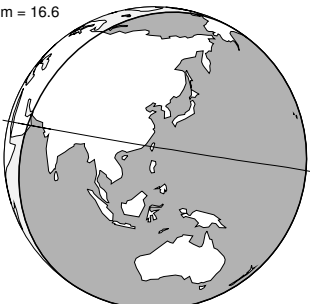
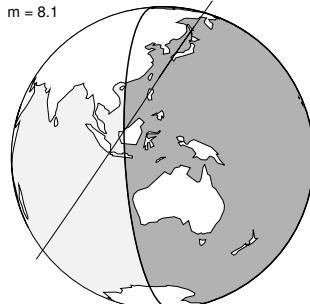
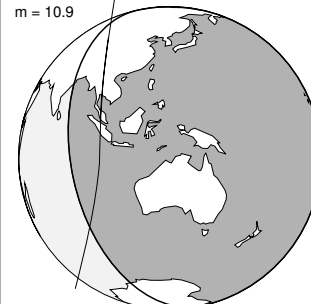
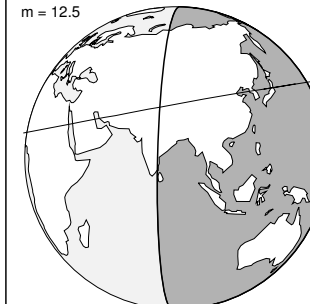
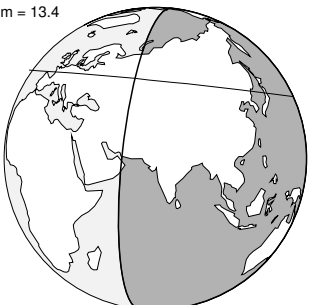
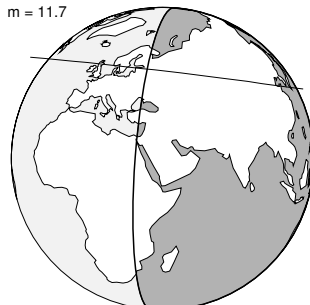
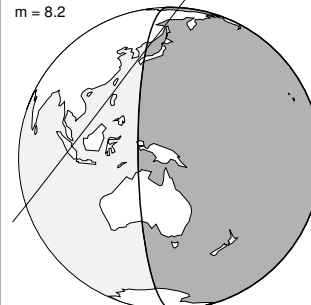
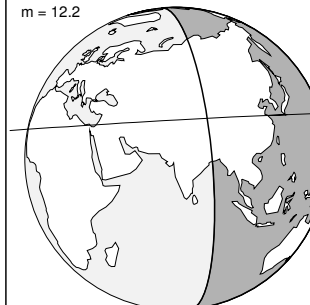
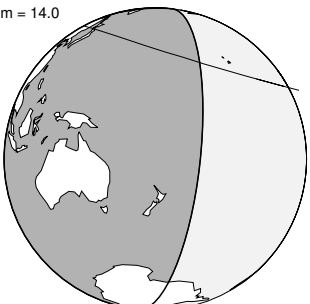
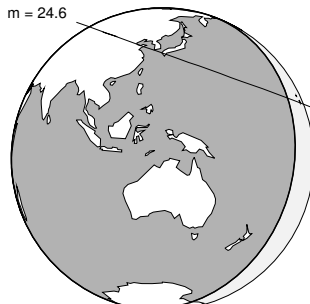
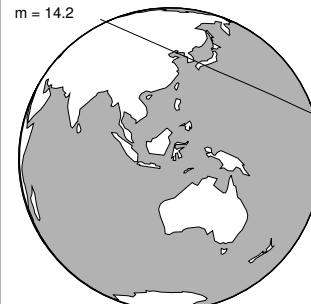
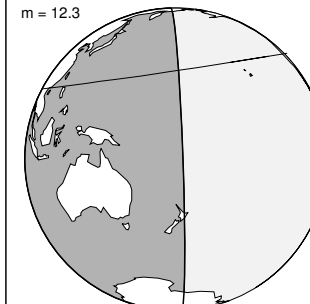
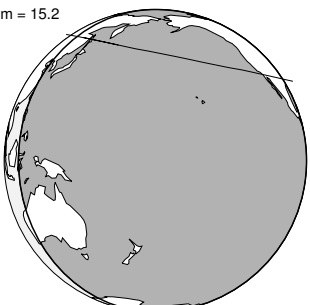
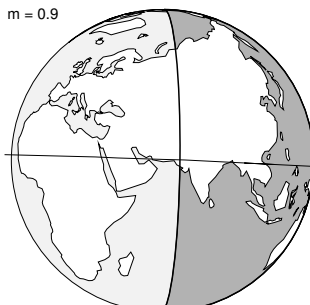
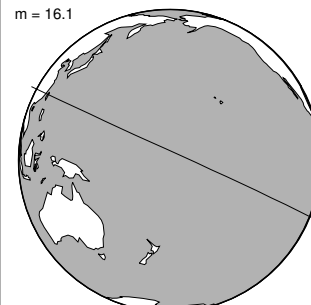
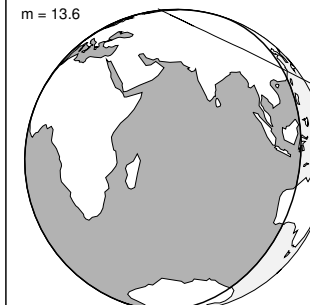
Occultations by major and minor planets – 2023

Region 7

2023 mar 1 12h27.0m A23_03063 167 Urda PPMX 6015153 Diam = 42.2 m = 11.8 m = 14.5  Dur = 7.7s Dmag = 2.8 Sun: 110° Moon: 8°	2023 mar 2 16h44.3m B23_03008 532027 2013EH154 UCAC4 362-064574 Diam = 106.2 m = 13.7 m = 22.5  Dur = 7.4s Dmag = 8.8 Sun: 132° Moon: 101°	2023 mar 3 10h46.8m A23_03085 224 Oceana TYC 1875-00393-1 Diam = 79.8 m = 11.7 m = 13.6  Dur = 9.6s Dmag = 2.1 Sun: 106° Moon: 29°	2023 mar 3 14h57.8m A23_03101 335 Roberta TYC 0841-00804-1 Diam = 93.6 m = 10.7 m = 12.6  Dur = 7.2s Dmag = 2.1 Sun: 171° Moon: 34°
2023 mar 4 10h10.6m A23_03068 191 Kolga TYC 0774-00374-1 Diam = 105.0 m = 12.1 m = 14.0  Dur = 17.9s Dmag = 2.1 Sun: 124° Moon: 25°	2023 mar 5 13h 3.7m A23_03029 27 Euterpe TYC 1262-01569-1 Diam = 124.0 m = 10.9 m = 11.1  Dur = 4.9s Dmag = 0.9 Sun: 78° Moon: 79°	2023 mar 6 11h10.3m A23_03134 585 Bilkis TYC 0711-00294-1 Diam = 60.3 m = 11.6 m = 14.7  Dur = 3.8s Dmag = 3.1 Sun: 94° Moon: 75°	2023 mar 6 19h59.3m A23_03061 146 Lucina UCAC4 361-100852 Diam = 137.0 m = 12.2 m = 13.3  Dur = 6.3s Dmag = 1.5 Sun: 81° Moon: 105°
2023 mar 6 20h41.4m A23_03016 7 Iris UCAC4 339-069785 Diam = 329.6 m = 11.7 m = 10.6  Dur = 266.6s Dmag = 0.3 Sun: 117° Moon: 70°	2023 mar 7 10h44.8m A23_03141 654 Zelinda TYC 5454-01709-1 Diam = 132.0 m = 11.2 m = 10.6  Dur = 40.6s Dmag = 0.5 Sun: 139° Moon: 43°	2023 mar 8 17h57.1m A23_03167 982 Franklina TYC 0808-01081-1 Diam = 43.7 m = 11.8 m = 15.7  Dur = 4.4s Dmag = 3.9 Sun: 138° Moon: 56°	2023 mar 9 15h 1.3m A23_03146 683 Lanzia UCAC4 330-063617 Diam = 116.0 m = 11.0 m = 12.6  Dur = 9.9s Dmag = 1.8 Sun: 151° Moon: 32°
2023 mar 10 11h15.2m A23_03163 912 Maritima UCAC4 666-038447 Diam = 86.6 m = 10.8 m = 13.4  Dur = 5.5s Dmag = 2.7 Sun: 94° Moon: 116°	2023 mar 12 20h42.5m A23_03099 326 Tamara UCAC5 271-142697 Diam = 100.0 m = 12.4 m = 13.4  Dur = 3.5s Dmag = 1.4 Sun: 79° Moon: 39°	2023 mar 14 14h42.1m A23_03104 349 Dembowska TYC 1841-00728-1 Diam = 143.0 m = 10.5 m = 11.2  Dur = 6.2s Dmag = 1.2 Sun: 77° Moon: 173°	2023 mar 14 17h19.0m A23_03102 335 Roberta TYC 0840-00493-1 Diam = 93.6 m = 12.2 m = 12.9  Dur = 8.2s Dmag = 1.1 Sun: 157° Moon: 108°

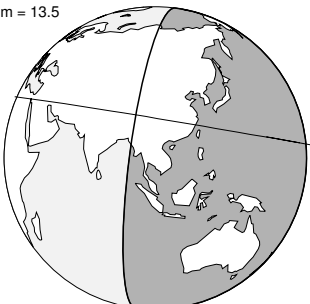
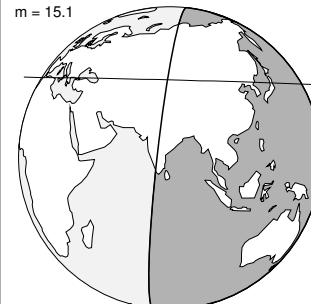
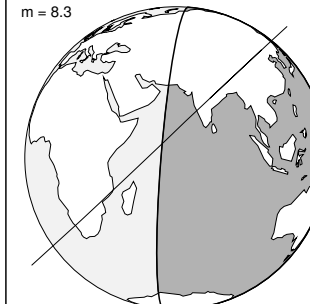
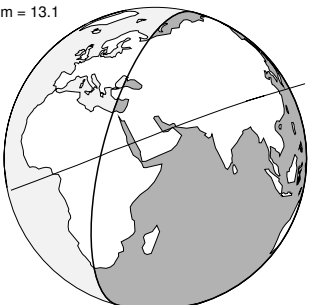
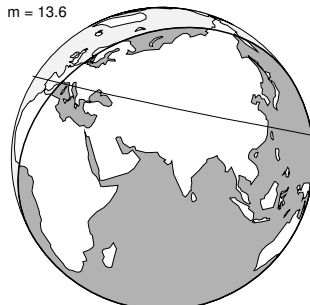
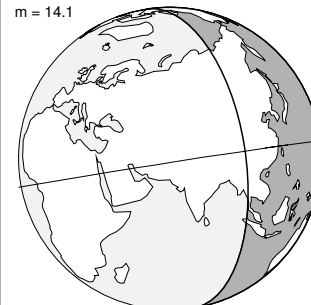
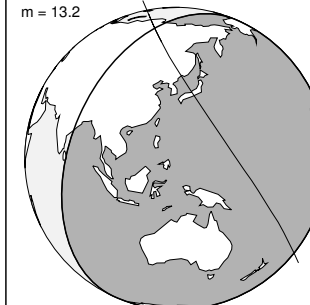
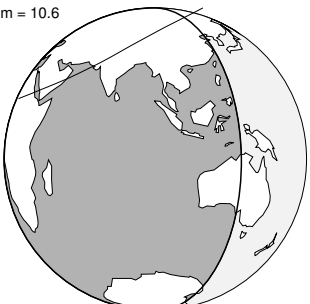
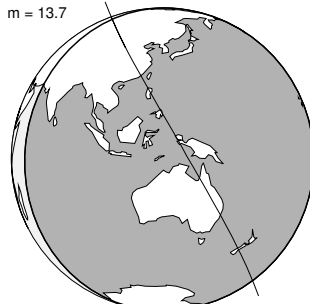
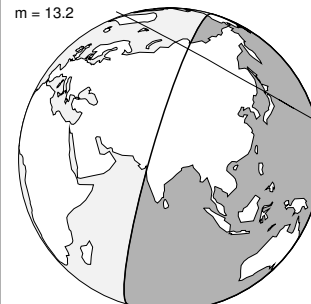
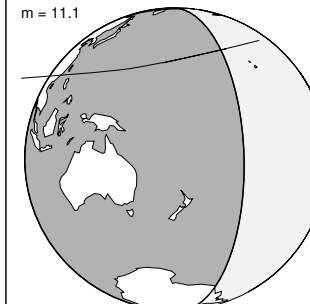
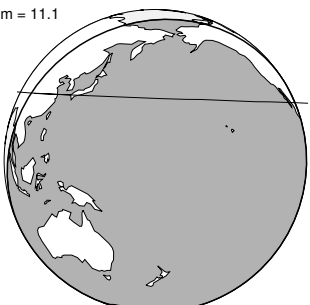
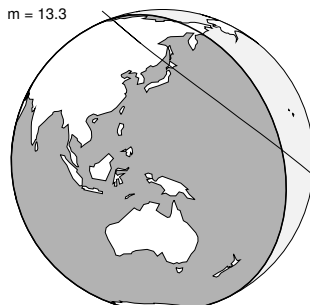
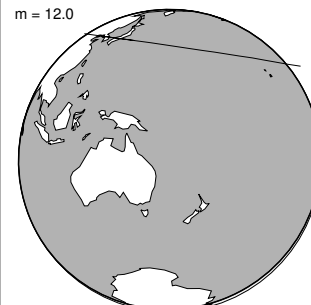
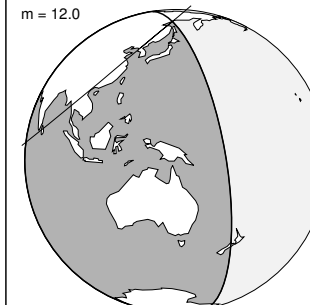
Occultations by major and minor planets – 2023

Region 7

2023 mar 15 14h17.8m A23_03174 1354 Botha UCAC4 549-048044 Diam = 52.5 m = 12.3 m = 16.6  Dur = 4.4s Dmag = 4.2 Sun: 149° Moon: 127°	2023 mar 18 10h42.9m A23_03009 2 Pallas UCAC4 407-018786 Diam = 530.9 m = 12.4 m = 8.1  Dur = 24.0s Dmag = 0.0 Sun: 104° Moon: 135°	2023 mar 19 12h22.6m A23_03142 654 Zelinda TYC 5450-00819-1 Diam = 132.0 m = 11.6 m = 10.9  Dur = 63.7s Dmag = 0.5 Sun: 130° Moon: 144°	2023 mar 19 12h49.5m A23_03020 12 Victoria UCAC4 526-025778 Diam = 117.0 m = 11.7 m = 12.5  Dur = 10.8s Dmag = 1.2 Sun: 97° Moon: 126°
2023 mar 20 14h15.6m A23_03116 449 Hamburga PPMX 5056341 Diam = 88.6 m = 12.0 m = 13.4  Dur = 7.1s Dmag = 1.7 Sun: 102° Moon: 118°	2023 mar 20 15h56.8m A23_03043 64 Angelina TYC 1893-01673-1 Diam = 121.9 m = 11.3 m = 11.7  Dur = 9.6s Dmag = 1.0 Sun: 100° Moon: 115°	2023 mar 22 9h19.6m A23_03010 2 Pallas TYC 4813-00272-1 Diam = 530.9 m = 12.0 m = 8.2  Dur = 23.3s Dmag = 0.0 Sun: 102° Moon: 93°	2023 mar 22 12h13.9m A23_03032 30 Urania UCAC4 569-014434 Diam = 104.0 m = 12.2 m = 12.2  Dur = 4.0s Dmag = 0.8 Sun: 76° Moon: 66°
2023 mar 24 17h19.6m A23_03080 207 Hedda TYC 6814-00941-1 Diam = 60.0 m = 10.0 m = 14.0  Dur = 6.0s Dmag = 4.0 Sun: 107° Moon: 146°	2023 mar 25 17h20.2m B23_03015 2015GJ58 UCAC4 392-058166 Diam = 91.2 m = 13.3 m = 24.6  Dur = 4.4s Dmag = 11.3 Sun: 149° Moon: 159°	2023 mar 27 15h49.2m A23_03121 517 Edith UCAC4 426-056002 Diam = 95.0 m = 12.4 m = 14.2  Dur = 6.6s Dmag = 1.9 Sun: 173° Moon: 102°	2023 mar 27 18h26.4m A23_03038 52 Europa UCAC4 365-125498 Diam = 278.0 m = 11.7 m = 12.3  Dur = 20.5s Dmag = 1.1 Sun: 92° Moon: 164°
2023 mar 28 10h 4.7m A23_03186 2892 Filipenko TYC 4916-00388-1 Diam = 58.5 m = 8.7 m = 15.2  Dur = 4.7s Dmag = 6.5 Sun: 154° Moon: 76°	2023 mar 29 13h35.3m P23_03001 Mars TYC 1868-02053-1 Diam = 6759.2 m = 8.1 m = 0.9  Dur = 318.5s Dmag = 0.0 Sun: 83° Moon: 12°	2023 mar 30 12h15.8m A23_03183 2067 Aksnes TYC 4953-00968-1 Diam = 50.3 m = 10.8 m = 16.1  Dur = 3.3s Dmag = 5.3 Sun: 173° Moon: 80°	2023 mar 30 22h 3.8m A23_03064 168 Sibylla HIP 72769 Diam = 154.0 m = 7.6 m = 13.6  Dur = 16.8s Dmag = 5.9 Sun: 144° Moon: 106°

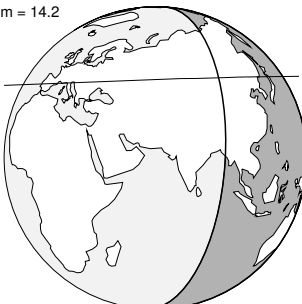
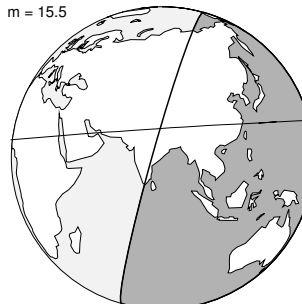
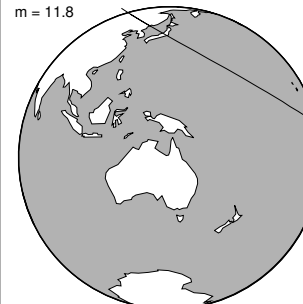
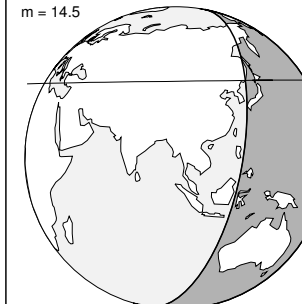
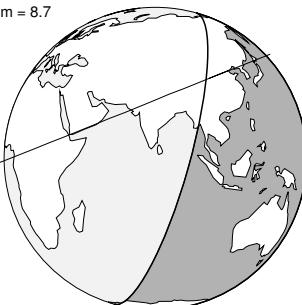
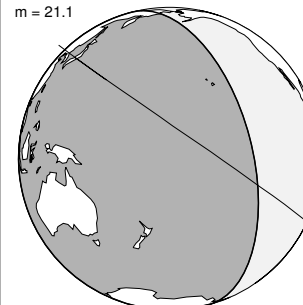
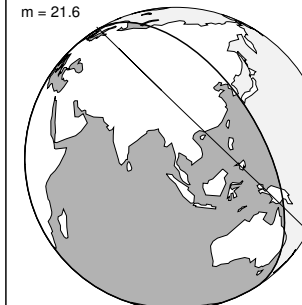
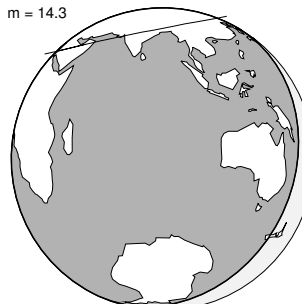
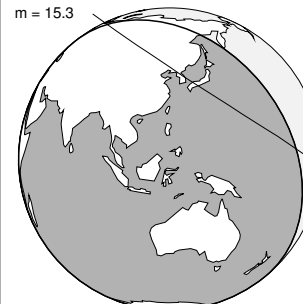
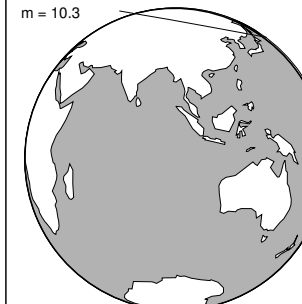
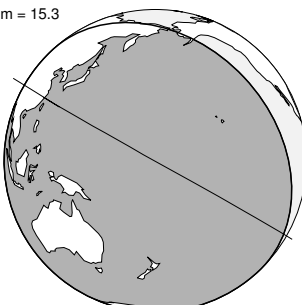
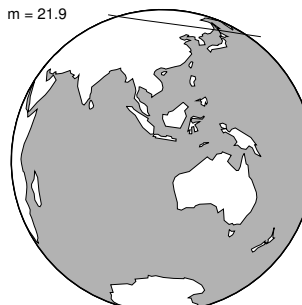
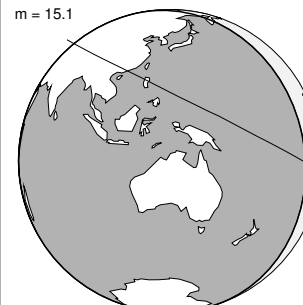
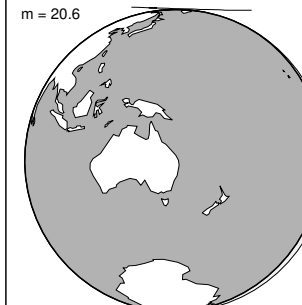
Occultations by major and minor planets – 2023

Region 7

2023 apr 1 11h58.3m A23_04096 584 Semiramis TYC 1347–00268–1 Diam = 56.2 m = 12.1 m = 13.5  Dur = 5.0s Dmag = 1.7 Sun: 99° Moon: 29°	2023 apr 1 19h43.5m A23_04089 471 Papagena TYC 5005–00095–1 Diam = 127.0 m = 10.4 m = 12.1  Dur = 11.4s Dmag = 1.9 Sun: 143° Moon: 82°	2023 apr 2 13h 1.6m A23_04106 764 Gedania TYC 0774–00439–1 Diam = 60.5 m = 11.5 m = 15.1  Dur = 4.4s Dmag = 3.7 Sun: 94° Moon: 45°	2023 apr 2 14h 1.1m A23_04002 2 Pallas UCAC4 433–028787 Diam = 530.9 m = 11.1 m = 8.3  Dur = 21.5s Dmag = 0.1 Sun: 95° Moon: 51°
2023 apr 10 16h22.2m A23_04023 59 Elpis PPMX 7167487 Diam = 173.0 m = 12.4 m = 13.1  Dur = 26.6s Dmag = 1.2 Sun: 110° Moon: 124°	2023 apr 10 18h17.1m A23_04097 618 Elfriede UCAC4 566–048348 Diam = 124.0 m = 11.5 m = 13.6  Dur = 10.9s Dmag = 2.3 Sun: 144° Moon: 86°	2023 apr 14 11h34.9m A23_04044 164 Eva TYC 2407–01498–1 Diam = 110.0 m = 12.2 m = 14.1  Dur = 3.4s Dmag = 2.1 Sun: 60° Moon: 135°	2023 apr 14 12h38.9m A23_04091 489 Comacina TYC 0842–01138–1 Diam = 144.0 m = 9.2 m = 13.2  Dur = 25.5s Dmag = 4.1 Sun: 134° Moon: 151°
2023 apr 16 21h24.1m A23_04010 11 Parthenope UCAC4 365–089384 Diam = 162.0 m = 10.4 m = 10.6  Dur = 62.7s Dmag = 0.8 Sun: 124° Moon: 82°	2023 apr 18 13h54.5m A23_04105 756 Lilliana UCAC4 403–054826 Diam = 73.0 m = 12.5 m = 13.7  Dur = 5.9s Dmag = 1.5 Sun: 155° Moon: 169°	2023 apr 19 13h25.0m A23_04035 110 Lydia TYC 1945–01410–1 Diam = 89.1 m = 11.6 m = 13.2  Dur = 7.6s Dmag = 1.8 Sun: 97° Moon: 105°	2023 apr 19 16h59.2m A23_04015 20 Massalia TYC 6843–00048–1 Diam = 151.0 m = 12.1 m = 11.1  Dur = 56.8s Dmag = 0.4 Sun: 116° Moon: 111°
2023 apr 20 11h44.3m A23_04016 22 Kalliope TYC 0883–00965–1 Diam = 187.0 m = 12.4 m = 11.1  Dur = 14.7s Dmag = 0.3 Sun: 155° Moon: 153°	2023 apr 20 17h10.9m A23_04047 181 Eucharis TYC 0376–01448–1 Diam = 107.0 m = 10.7 m = 13.3  Dur = 8.8s Dmag = 2.7 Sun: 140° Moon: 145°	2023 apr 21 13h37.9m A23_04070 337 Devosa UCAC5 340–066138 Diam = 63.2 m = 12.5 m = 12.0  Dur = 5.4s Dmag = 0.5 Sun: 168° Moon: 168°	2023 apr 22 19h12.0m A23_04078 393 Lampetia UCAC4 406–092201 Diam = 106.0 m = 12.3 m = 12.0  Dur = 6.8s Dmag = 0.6 Sun: 109° Moon: 139°

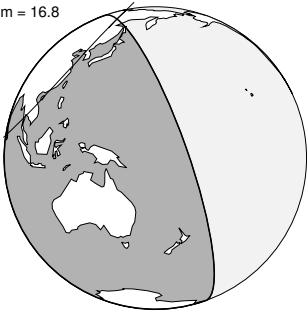
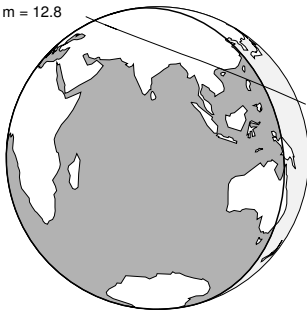
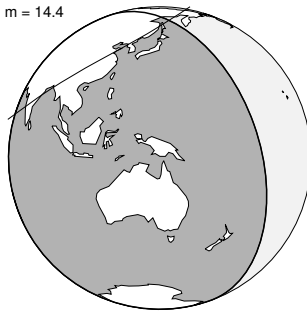
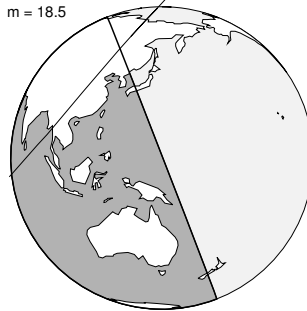
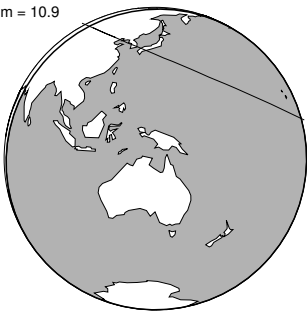
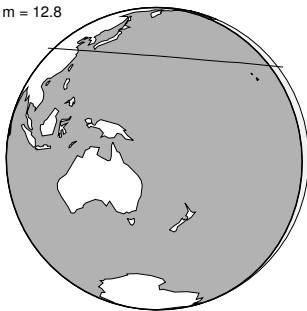
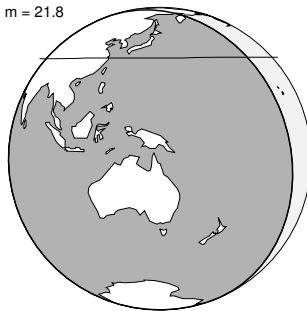
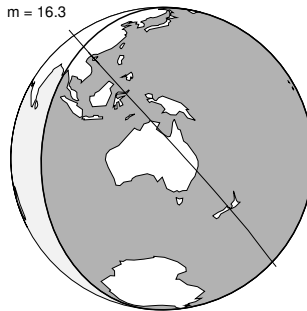
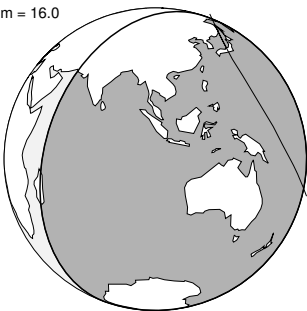
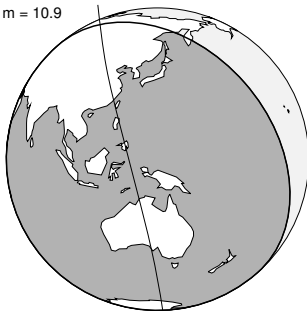
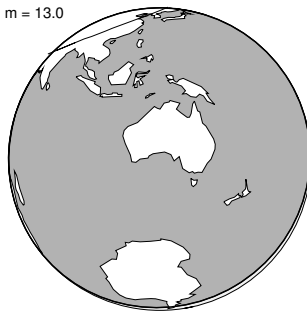
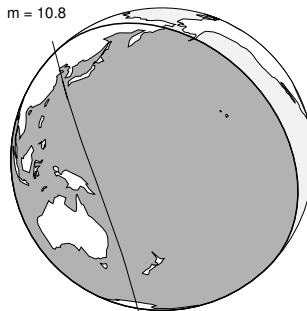
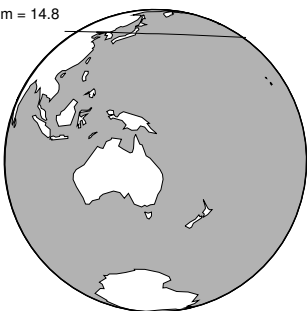
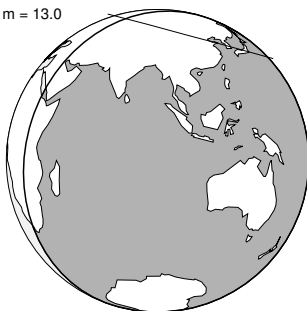
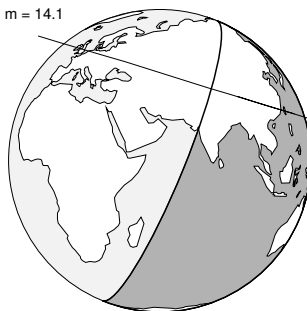
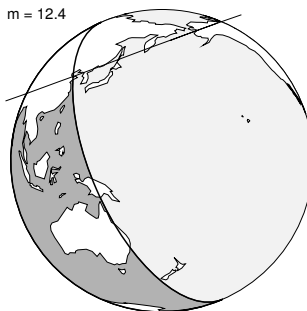
Occultations by major and minor planets – 2023

Region 7

2023 apr 24 12h 3.3m A23_04033 100 Hekate PPMX 6037012 Diam = 92.0 m = 12.0 m = 14.2  Dur = 3.3s Dmag = 2.4 Sun: 62° Moon: 12°	2023 apr 26 12h56.4m A23_04112 893 Leopoldina UCAC5 543-046410 Diam = 78.0 m = 12.5 m = 15.5  Dur = 6.2s Dmag = 3.1 Sun: 93° Moon: 19°	2023 apr 30 14h47.3m A23_04069 336 Lacadiera TYC 6158-00264-1 Diam = 72.0 m = 12.3 m = 11.8  Dur = 8.6s Dmag = 0.6 Sun: 174° Moon: 65°	2023 may 5 10h 1.6m A23_05074 490 Veritas UCAC4 528-040065 Diam = 121.0 m = 12.4 m = 14.5  Dur = 4.2s Dmag = 2.3 Sun: 64° Moon: 112°
2023 may 5 11h51.1m A23_05001 2 Pallas TYC 0189-01020-1 Diam = 530.9 m = 9.9 m = 8.7  Dur = 17.3s Dmag = 0.3 Sun: 76° Moon: 100°	2023 may 9 16h35.4m B23_05010 500839 2013GW137 UCAC4 364-067194 Diam = 120.2 m = 14.9 m = 23.7  Dur = 4.9s Dmag = 8.8 Sun: 179° Moon: 52°	2023 may 11 15h22.2m B23_05015 2010JJ124 UCAC4 398-109894 Diam = 190.5 m = 14.8 m = 21.1  Dur = 13.6s Dmag = 6.2 Sun: 123° Moon: 27°	2023 may 12 20h29.1m B23_05007 470309 2007JK43 UCAC4 507-076920 Diam = 145.2 m = 14.9 m = 21.6  Dur = 6.8s Dmag = 6.6 Sun: 124° Moon: 59°
2023 may 13 14h 4.7m A23_05055 270 Anahita UCAC4 413-057085 Diam = 52.2 m = 12.3 m = 12.3  Dur = 8.8s Dmag = 0.8 Sun: 140° Moon: 142°	2023 may 13 19h53.4m A23_05083 844 Leontina TYC 7369-00740-1 Diam = 66.1 m = 10.8 m = 14.3  Dur = 6.7s Dmag = 3.5 Sun: 150° Moon: 78°	2023 may 15 17h51.1m A23_05088 892 Seeligeria UCAC4 474-063484 Diam = 78.5 m = 12.1 m = 15.3  Dur = 6.1s Dmag = 3.3 Sun: 141° Moon: 103°	2023 may 16 18h 8.0m A23_05018 44 Nysa HIP 78753 Diam = 73.3 m = 8.1 m = 10.3  Dur = 6.3s Dmag = 2.3 Sun: 171° Moon: 137°
2023 may 18 14h 0.3m A23_05089 892 Seeligeria TYC 0409-00375-1 Diam = 78.5 m = 11.5 m = 15.3  Dur = 5.9s Dmag = 3.9 Sun: 143° Moon: 134°	2023 may 18 16h44.8m B23_05012 543435 2014GC54 UCAC4 370-072973 Diam = 160.7 m = 14.0 m = 21.9  Dur = 6.7s Dmag = 7.8 Sun: 176° Moon: 167°	2023 may 20 17h 6.6m A23_05111 2393 Suzuki UCAC4 374-093073 Diam = 50.8 m = 11.9 m = 15.1  Dur = 5.2s Dmag = 3.2 Sun: 152° Moon: 163°	2023 may 22 14h49.6m A23_05123 470308 2007JH43 UCAC4 319-095150 Diam = 524.8 m = 11.2 m = 20.6  Dur = 21.8s Dmag = 9.4 Sun: 164° Moon: 160°

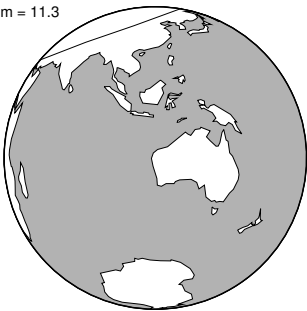
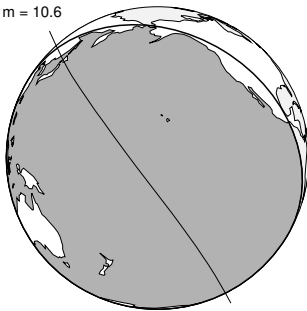
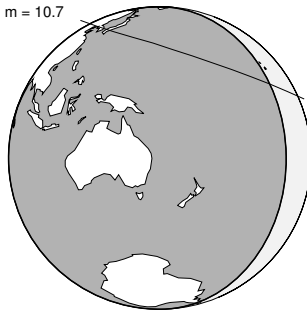
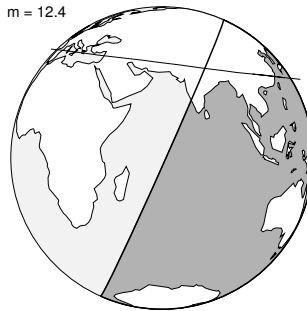
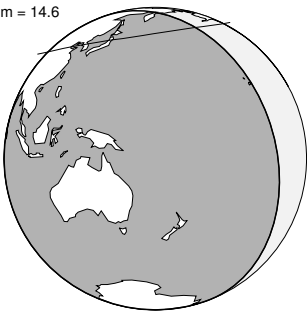
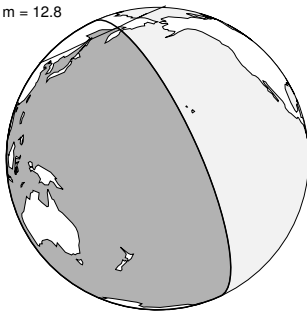
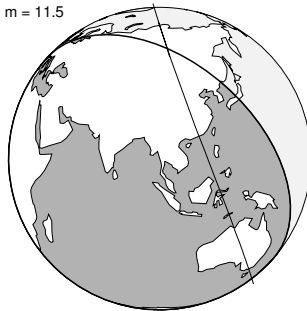
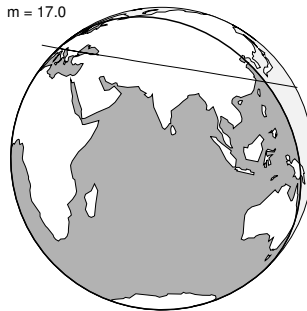
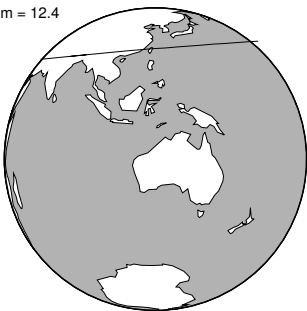
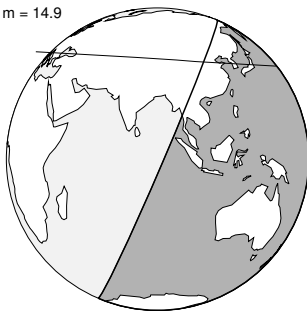
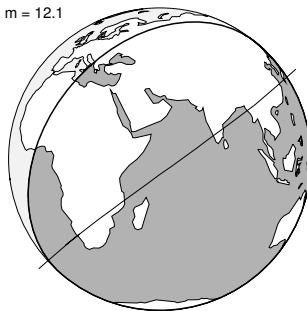
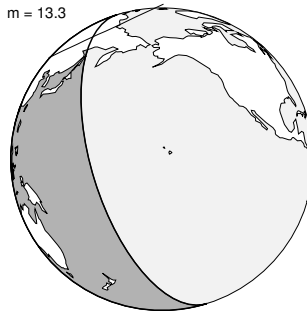
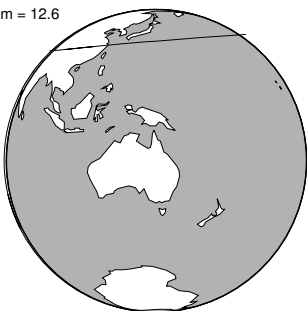
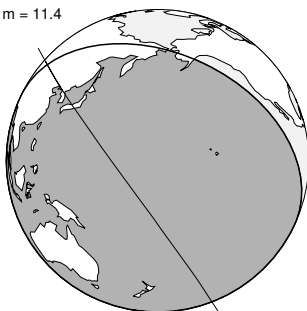
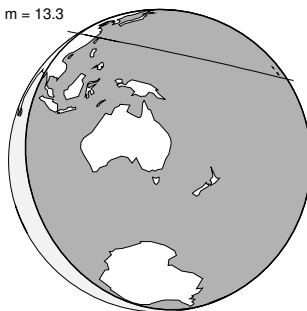
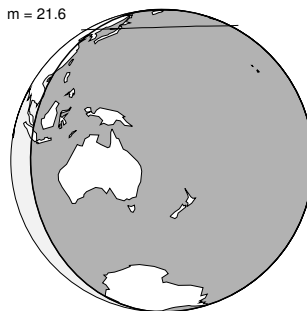
Occultations by major and minor planets – 2023

Region 7

2023 may 22 18h26.8m A23_05119 4348 Poulydamas UCAC4 415–141956 Diam = 60.3 m = 12.5 m = 16.8  Dur = 7.2s Dmag = 4.3 Sun: 102° Moon: 137°	2023 may 24 20h49.9m A23_05036 153 Hilda UCAC4 367–123733 Diam = 175.0 m = 12.4 m = 12.8  Dur = 21.3s Dmag = 1.0 Sun: 145° Moon: 151°	2023 may 25 17h50.1m A23_05084 856 Backlunda UCAC4 402–110929 Diam = 52.0 m = 11.4 m = 14.4  Dur = 22.0s Dmag = 3.1 Sun: 131° Moon: 152°	2023 may 25 19h58.2m A23_05108 1873 Agenor UCAC4 487–134436 Diam = 64.8 m = 12.4 m = 18.5  Dur = 4.9s Dmag = 6.1 Sun: 90° Moon: 149°
2023 may 26 14h 4.5m A23_05025 67 Asia TYC 5603–00158–1 Diam = 60.0 m = 9.9 m = 10.9  Dur = 6.8s Dmag = 1.3 Sun: 166° Moon: 90°	2023 may 26 14h30.5m A23_05044 206 Hersilia UCAC5 362–086363 Diam = 76.6 m = 12.5 m = 12.8  Dur = 7.0s Dmag = 0.9 Sun: 162° Moon: 117°	2023 may 30 16h22.2m B23_05002 5145 Pholus UCAC4 386–102432 Diam = 166.0 m = 12.7 m = 21.8  Dur = 7.5s Dmag = 9.1 Sun: 149° Moon: 85°	2023 jun 6 12h 4.9m A23_06124 1213 Algeria TYC 6734–01170–1 Diam = 43.2 m = 11.4 m = 16.3  Dur = 3.9s Dmag = 4.9 Sun: 142° Moon: 67°
2023 jun 8 14h15.9m A23_06133 1760 Sandra TYC 5560–00951–1 Diam = 40.1 m = 10.5 m = 16.0  Dur = 9.1s Dmag = 5.5 Sun: 136° Moon: 103°	2023 jun 8 16h54.4m A23_06066 393 Lampetia TYC 0467–02373–1 Diam = 106.0 m = 9.0 m = 10.9  Dur = 14.5s Dmag = 2.1 Sun: 140° Moon: 41°	2023 jun 10 15h51.6m A23_06105 886 Washingtonia UCAC5 279–115110 Diam = 93.3 m = 12.4 m = 13.0  Dur = 6.8s Dmag = 1.1 Sun: 167° Moon: 81°	2023 jun 11 14h 3.7m A23_06069 393 Lampetia TYC 0467–01596–1 Diam = 106.0 m = 8.1 m = 10.8  Dur = 15.0s Dmag = 2.8 Sun: 141° Moon: 74°
2023 jun 12 13h37.2m A23_06132 1581 Abanderada UCAC5 346–083617 Diam = 40.0 m = 12.4 m = 14.8  Dur = 3.5s Dmag = 2.5 Sun: 174° Moon: 118°	2023 jun 13 15h48.9m A23_06040 150 Nuwa UCAC4 367–068012 Diam = 157.0 m = 11.9 m = 13.0  Dur = 15.9s Dmag = 1.4 Sun: 150° Moon: 155°	2023 jun 15 13h49.1m A23_06076 489 Comacina UCAC4 499–055777 Diam = 144.0 m = 11.5 m = 14.1  Dur = 6.9s Dmag = 2.7 Sun: 80° Moon: 111°	2023 jun 16 20h46.0m A23_06035 144 Vibia UCAC4 477–002189 Diam = 178.0 m = 12.2 m = 12.4  Dur = 5.0s Dmag = 0.9 Sun: 61° Moon: 47°

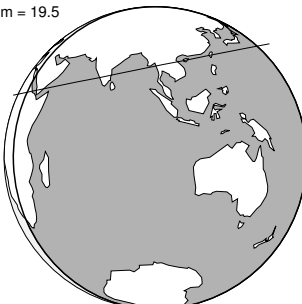
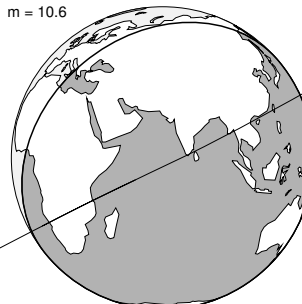
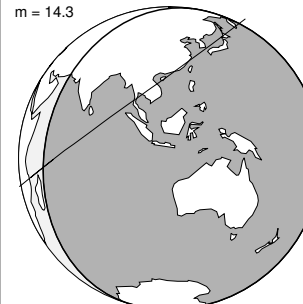
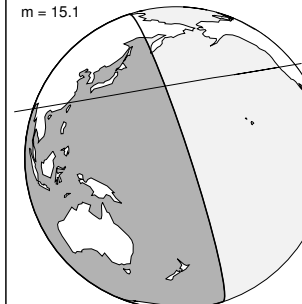
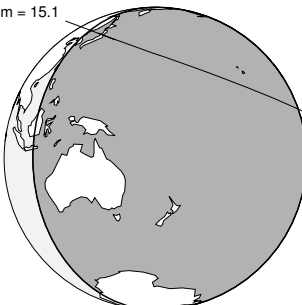
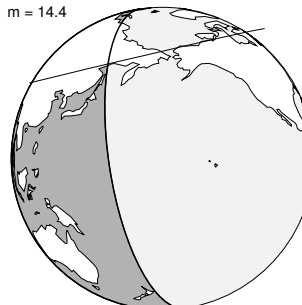
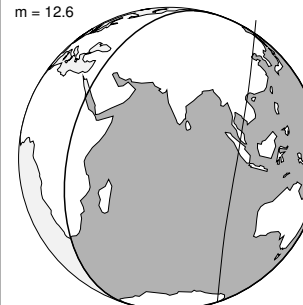
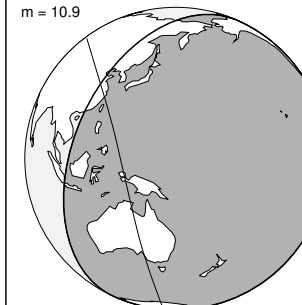
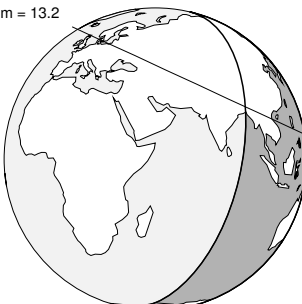
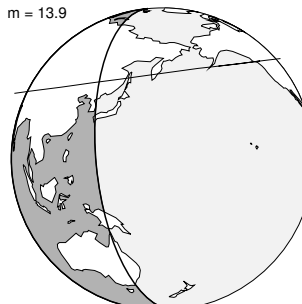
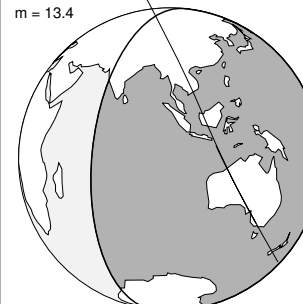
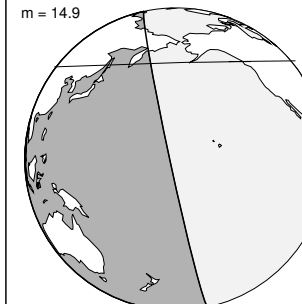
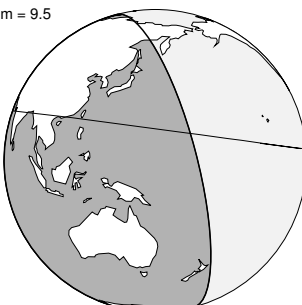
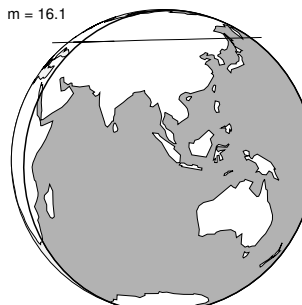
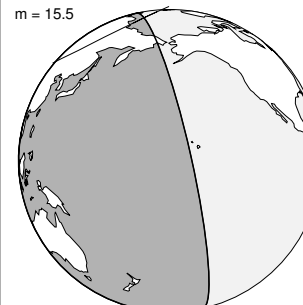
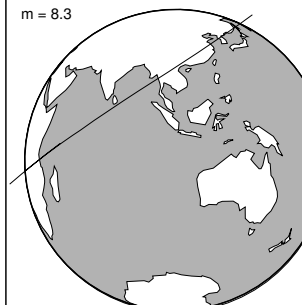
Occultations by major and minor planets – 2023

Region 7

2023 jun 18 16h15.5m A23_06037 146 Lucina UCAC4 329–107146 Diam = 137.0 m = 10.7 m = 11.3  Dur = 11.8s Dmag = 1.1 Sun: 178° Moon: 172°	2023 jun 20 11h53.7m A23_06070 393 Lampetia UCAC4 476–090238 Diam = 106.0 m = 10.6 m = 12.3  Dur = 16.6s Dmag = 0.2 Sun: 146° Moon: 147°	2023 jun 22 16h 1.5m A23_06018 54 Alexandra TYC 6915–01298–1 Diam = 171.0 m = 9.3 m = 10.7  Dur = 38.3s Dmag = 1.7 Sun: 146° Moon: 162°	2023 jun 25 13h26.9m A23_06071 405 Thia TYC 5517–01194–1 Diam = 129.0 m = 9.5 m = 12.4  Dur = 5.8s Dmag = 3.0 Sun: 88° Moon: 14°
2023 jun 26 15h44.5m A23_06078 495 Eulalia TYC 5769–01261–1 Diam = 41.7 m = 9.7 m = 14.6  Dur = 9.3s Dmag = 4.9 Sun: 142° Moon: 123°	2023 jun 29 16h11.9m A23_06019 69 Hesperia TYC 0578–00476–1 Diam = 143.0 m = 11.8 m = 12.8  Dur = 20.3s Dmag = 1.4 Sun: 105° Moon: 125°	2023 jun 29 19h44.0m A23_06109 914 Palisana UCAC4 523–139279 Diam = 79.0 m = 11.5 m = 11.9  Dur = 6.0s Dmag = 0.6 Sun: 130° Moon: 91°	2023 jun 29 20h40.1m A23_06143 5130 Ilioneus UCAC4 435–109309 Diam = 45.7 m = 17.0 m = 12.3  Dur = 3.3s Dmag = 4.7 Sun: 148° Moon: 77°
2023 jun 30 15h33.2m A23_06072 431 Nephela Gaia 068–0222208 Diam = 97.7 m = 11.5 m = 12.4  Dur = 9.1s Dmag = 1.3 Sun: 175° Moon: 34°	2023 jul 2 11h55.8m A23_07087 756 Lilliana UCAC4 438–056122 Diam = 73.0 m = 12.3 m = 14.9  Dur = 3.8s Dmag = 2.6 Sun: 87° Moon: 79°	2023 jul 3 18h17.0m A23_07052 218 Bianca UCAC4 462–058567 Diam = 62.0 m = 12.0 m = 12.1  Dur = 9.2s Dmag = 0.8 Sun: 139° Moon: 46°	2023 jul 4 18h14.2m A23_07028 93 Minerva UCAC5 536–004087 Diam = 170.8 m = 12.5 m = 13.3  Dur = 5.8s Dmag = 1.3 Sun: 62° Moon: 100°
2023 jul 5 13h49.7m A23_07075 431 Nephela UCAC4 338–128828 Diam = 97.7 m = 12.0 m = 12.6  Dur = 9.3s Dmag = 1.1 Sun: 170° Moon: 40°	2023 jul 11 13h22.4m A23_07101 914 Palisana PPMX 6631924 Diam = 79.0 m = 12.5 m = 11.4  Dur = 6.7s Dmag = 0.3 Sun: 135° Moon: 81°	2023 jul 19 12h14.3m A23_07065 356 Liguria UCAC4 278–146886 Diam = 135.0 m = 12.0 m = 13.3  Dur = 11.0s Dmag = 1.6 Sun: 150° Moon: 134°	2023 jul 23 11h10.8m B23_07016 2013KY18 UCAC4 329–121097 Diam = 182.0 m = 14.8 m = 21.6  Dur = 9.1s Dmag = 6.8 Sun: 150° Moon: 88°

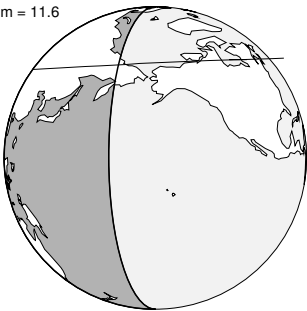
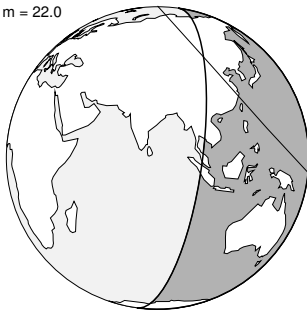
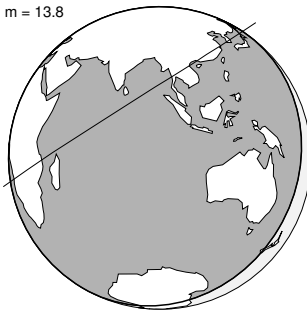
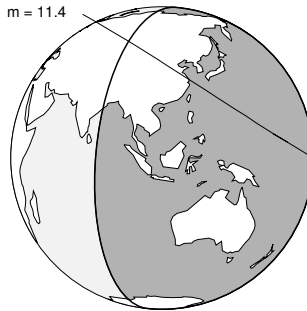
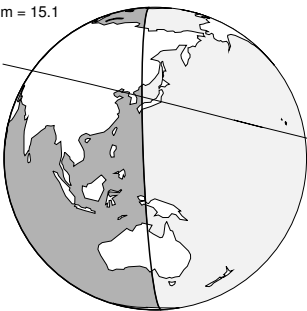
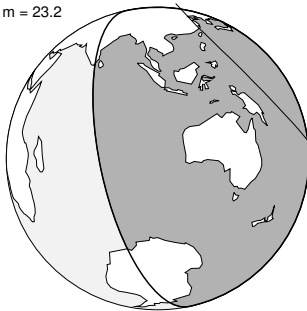
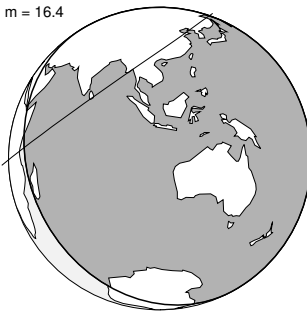
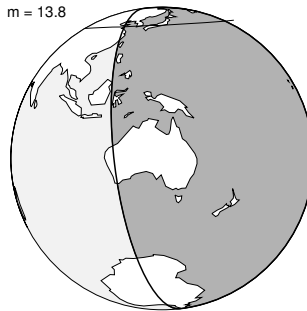
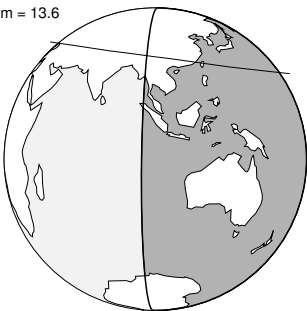
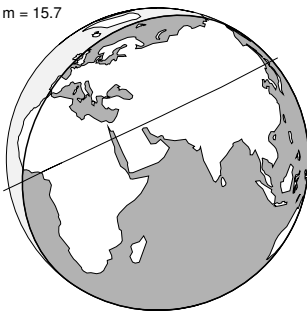
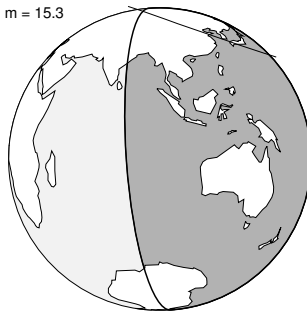
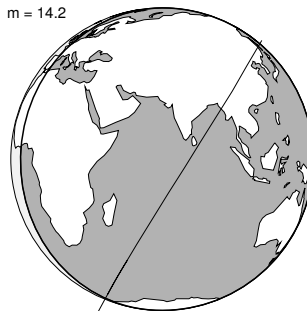
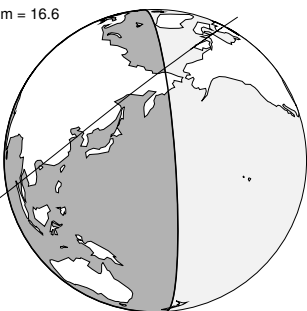
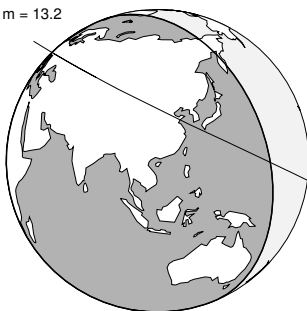
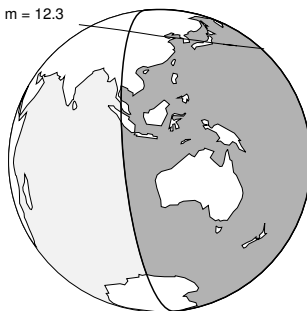
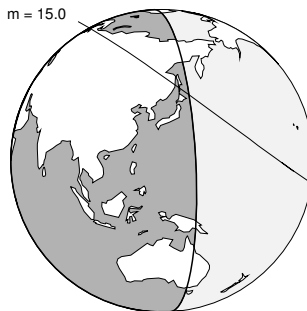
Occultations by major and minor planets – 2023

Region 7

2023 jul 25 16h11.7m B23_07002 95626 2002GZ32 UCAC4 342-169132 Diam = 173.8 m = 14.6 m = 19.5  Dur = 8.6s Dmag = 5.0 Sun: 159° Moon: 73°	2023 jul 25 18h 3.8m A23_07068 393 Lampetia UCAC4 487-089744 Diam = 106.0 m = 12.3 m = 10.6  Dur = 30.0s Dmag = 0.2 Sun: 144° Moon: 76°	2023 aug 3 14h16.7m A23_08107 1069 Planckia TYC 5699-01959-1 Diam = 43.2 m = 10.6 m = 14.3  Dur = 4.2s Dmag = 3.7 Sun: 145° Moon: 60°	2023 aug 4 18h 6.8m A23_08054 307 Nike TYC 0045-00130-1 Diam = 58.0 m = 11.9 m = 15.1  Dur = 3.7s Dmag = 3.3 Sun: 95° Moon: 43°
2023 aug 9 10h29.8m A23_08114 1456 Saldanha UCAC4 350-156096 Diam = 45.5 m = 10.8 m = 15.1  Dur = 7.0s Dmag = 4.3 Sun: 144° Moon: 137°	2023 aug 9 19h 0.3m A23_08033 160 Una TYC 1816-01454-1 Diam = 85.0 m = 11.3 m = 14.4  Dur = 3.0s Dmag = 3.1 Sun: 69° Moon: 5°	2023 aug 11 15h58.5m A23_08050 246 Asporina UCAC5 426-072076 Diam = 63.8 m = 12.4 m = 12.6  Dur = 7.7s Dmag = 0.9 Sun: 131° Moon: 156°	2023 aug 15 10h55.7m A23_08061 393 Lampetia UCAC4 475-085818 Diam = 106.0 m = 11.8 m = 10.9  Dur = 21.6s Dmag = 0.4 Sun: 132° Moon: 137°
2023 aug 15 12h22.4m A23_08037 194 Prokne TYC 0306-00077-1 Diam = 174.0 m = 8.6 m = 13.2  Dur = 5.4s Dmag = 4.6 Sun: 55° Moon: 64°	2023 aug 17 20h45.3m A23_08075 488 Kreusa UCAC4 549-014159 Diam = 158.0 m = 12.1 m = 13.9  Dur = 5.4s Dmag = 2.0 Sun: 63° Moon: 80°	2023 aug 18 13h27.3m A23_08013 34 Circe UCAC4 369-103082 Diam = 118.0 m = 11.6 m = 13.4  Dur = 36.2s Dmag = 2.0 Sun: 120° Moon: 97°	2023 aug 20 17h33.4m A23_08053 269 Justitia TYC 1249-00217-1 Diam = 54.7 m = 11.8 m = 14.9  Dur = 3.5s Dmag = 3.2 Sun: 87° Moon: 135°
2023 aug 20 18h42.7m A23_08010 18 Melpomene TYC 0053-01084-1 Diam = 135.0 m = 9.9 m = 9.5  Dur = 9.8s Dmag = 0.6 Sun: 105° Moon: 153°	2023 aug 27 15h49.9m A23_08125 5120 Bitias UCAC4 424-126694 Diam = 52.5 m = 12.0 m = 16.1  Dur = 3.6s Dmag = 4.2 Sun: 155° Moon: 32°	2023 aug 27 16h24.9m A23_08105 1048 Feodosia UCAC4 523-006563 Diam = 72.5 m = 11.6 m = 15.5  Dur = 8.0s Dmag = 4.0 Sun: 98° Moon: 129°	2023 aug 27 17h12.8m A23_08002 8 Flora HIP 111333 Diam = 141.0 m = 7.9 m = 8.3  Dur = 17.7s Dmag = 1.0 Sun: 171° Moon: 47°

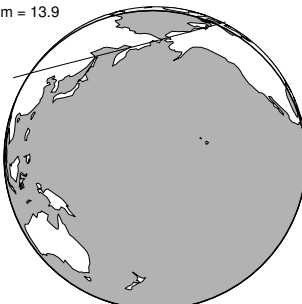
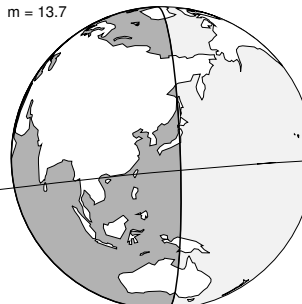
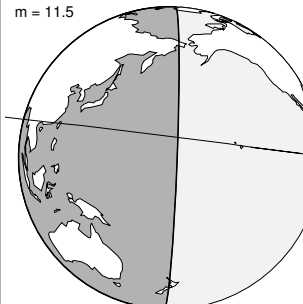
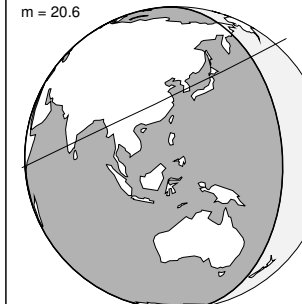
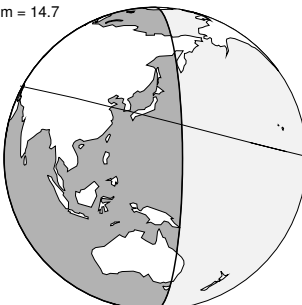
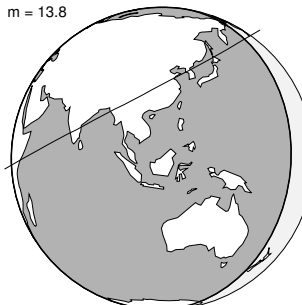
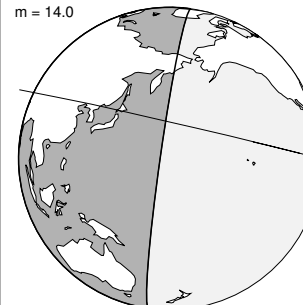
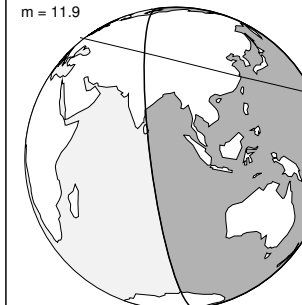
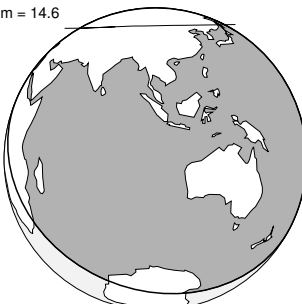
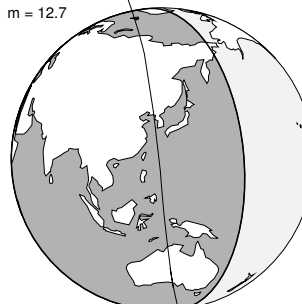
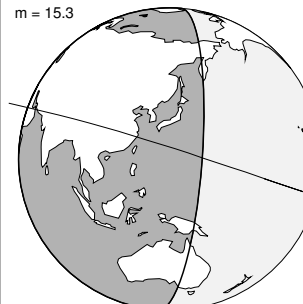
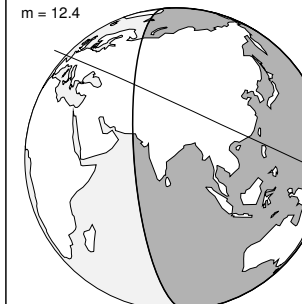
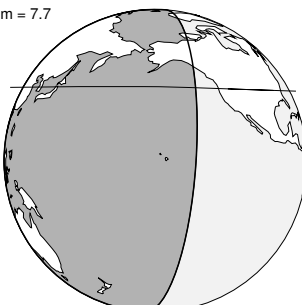
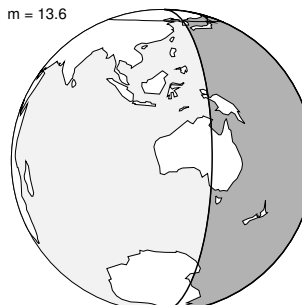
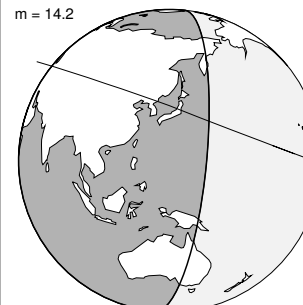
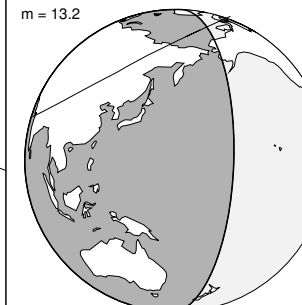
Occultations by major and minor planets – 2023

Region 7

2023 aug 27 17h52.8m A23_08086 704 Interamnia PPMX 3980823 Diam = 333.0 m = 12.2 m = 11.6  Dur = 13.2s Dmag = 0.5 Sun: 72° Moon: 155°	2023 aug 30 11h19.1m B23_08005 560039 2015FP36 UCAC4 477-055915 Diam = 136.8 m = 14.2 m = 22.0  Dur = 7.1s Dmag = 7.8 Sun: 72° Moon: 101°	2023 sep 7 19h 4.7m A23_09124 786 Bredichina UCAC4 354-000484 Diam = 93.2 m = 11.5 m = 13.8  Dur = 6.7s Dmag = 2.4 Sun: 156° Moon: 89°	2023 sep 11 12h21.8m A23_09085 393 Lampetia TYC 0462-01115-1 Diam = 106.0 m = 10.6 m = 11.4  Dur = 9.3s Dmag = 1.3 Sun: 115° Moon: 144°
2023 sep 14 20h58.7m A23_09076 319 Leona TYC 0726-00981-1 Diam = 73.3 m = 10.9 m = 15.1  Dur = 3.5s Dmag = 4.2 Sun: 85° Moon: 84°	2023 sep 15 12h44.0m B23_09006 395699 2012GN12 UCAC4 280-210683 Diam = 30.2 m = 12.6 m = 23.2  Dur = 4.0s Dmag = 10.6 Sun: 112° Moon: 108°	2023 sep 15 14h59.4m A23_09152 4832 Palinurus TYC 6371-00801-1 Diam = 45.7 m = 11.6 m = 16.4  Dur = 3.8s Dmag = 4.8 Sun: 149° Moon: 144°	2023 sep 17 9h59.7m A23_09084 380 Fiducia UCAC4 316-220033 Diam = 76.3 m = 12.4 m = 13.8  Dur = 8.4s Dmag = 1.7 Sun: 108° Moon: 82°
2023 sep 17 11h28.9m A23_09048 153 Hilda UCAC4 369-114667 Diam = 175.0 m = 11.8 m = 13.6  Dur = 12.2s Dmag = 2.0 Sun: 95° Moon: 69°	2023 sep 18 18h29.0m A23_09144 1867 Deiphobus UCAC4 541-144858 Diam = 131.0 m = 12.4 m = 15.7  Dur = 8.6s Dmag = 3.3 Sun: 147° Moon: 118°	2023 sep 20 12h21.6m A23_09128 856 Backlunda UCAC4 339-162137 Diam = 52.0 m = 11.7 m = 15.3  Dur = 4.2s Dmag = 3.7 Sun: 102° Moon: 41°	2023 sep 21 17h56.7m A23_09134 1051 Merope TYC 0567-01280-1 Diam = 68.6 m = 9.3 m = 14.2  Dur = 5.0s Dmag = 4.9 Sun: 159° Moon: 85°
2023 sep 25 18h24.9m A23_09142 1637 Swings UCAC4 622-024484 Diam = 49.7 m = 12.1 m = 16.6  Dur = 3.8s Dmag = 4.6 Sun: 97° Moon: 133°	2023 sep 25 19h14.9m A23_09107 595 Polyxena UCAC4 553-005449 Diam = 114.0 m = 12.3 m = 13.2  Dur = 12.7s Dmag = 1.3 Sun: 136° Moon: 95°	2023 sep 26 11h 9.3m A23_09032 79 Eurynome UCAC4 366-163234 Diam = 68.0 m = 12.1 m = 12.3  Dur = 7.2s Dmag = 0.9 Sun: 103° Moon: 36°	2023 sep 26 20h 8.1m A23_09115 663 Gerlinda TYC 1291-00825-1 Diam = 104.0 m = 10.9 m = 15.0  Dur = 10.2s Dmag = 4.1 Sun: 102° Moon: 113°

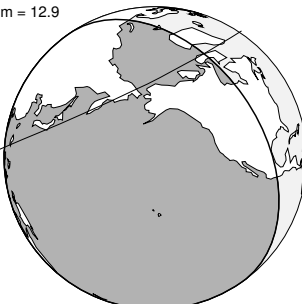
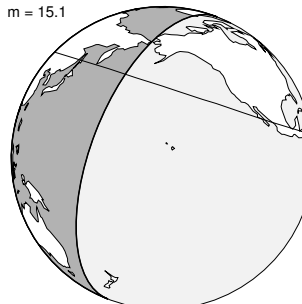
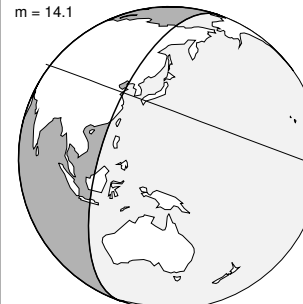
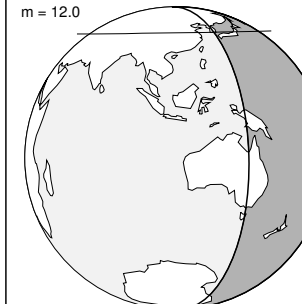
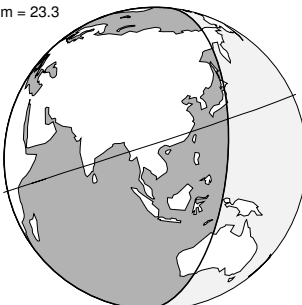
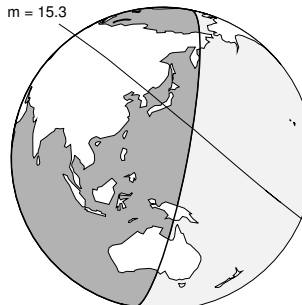
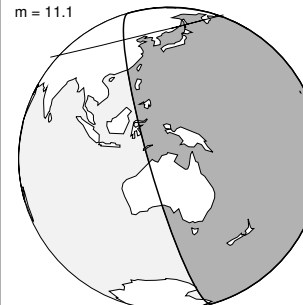
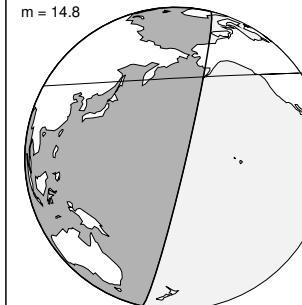
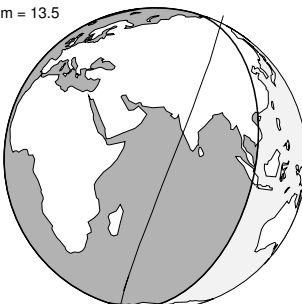
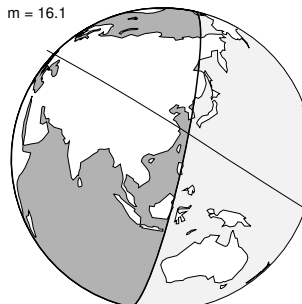
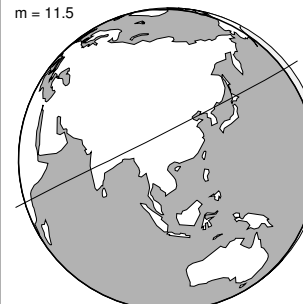
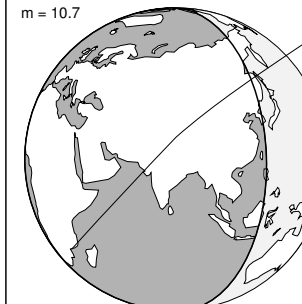
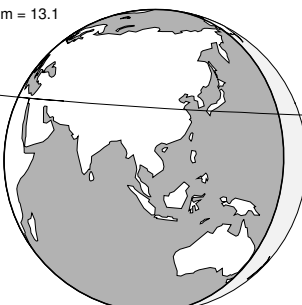
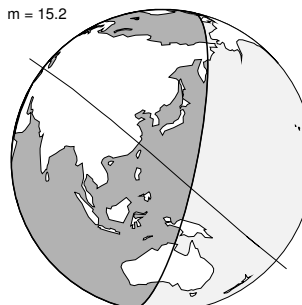
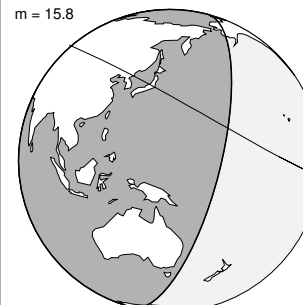
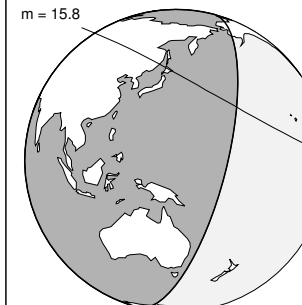
Occultations by major and minor planets – 2023

Region 7

2023 sep 27 11h56.6m A23_09137 1086 Nata TYC 0609–00861–1 Diam = 70.5 m = 10.6 m = 13.9  Dur = 5.5s Dmag = 3.4 Sun: 166° Moon: 39°	2023 sep 27 20h34.9m A23_09089 407 Arachne TYC 2405–01306–1 Diam = 97.0 m = 12.1 m = 13.7  Dur = 7.4s Dmag = 1.8 Sun: 96° Moon: 105°	2023 sep 30 18h 4.7m A23_09006 5 Astraea TYC 1319–00693–1 Diam = 125.0 m = 10.4 m = 11.5  Dur = 7.1s Dmag = 1.4 Sun: 92° Moon: 69°	2023 sep 30 18h39.2m A23_09154 144897 2004UX10 TYC 0650–00980–1 Diam = 532.1 m = 11.6 m = 20.6  Dur = 31.0s Dmag = 8.9 Sun: 134° Moon: 28°
2023 sep 30 19h46.1m A23_09062 239 Adrastea UCAC4 535–018139 Diam = 43.0 m = 11.8 m = 14.7  Dur = 3.3s Dmag = 3.0 Sun: 100° Moon: 61°	2023 oct 7 18h19.7m A23_10080 559 Nanon TYC 0051–01058–1 Diam = 80.0 m = 11.7 m = 13.8  Dur = 8.2s Dmag = 2.3 Sun: 148° Moon: 76°	2023 oct 7 19h 1.7m A23_10076 476 Hedwig TYC 1913–00883–1 Diam = 121.0 m = 11.1 m = 14.0  Dur = 7.1s Dmag = 3.0 Sun: 86° Moon: 10°	2023 oct 10 12h18.5m A23_10070 393 Lampetia UCAC4 433–104590 Diam = 106.0 m = 11.8 m = 11.9  Dur = 5.5s Dmag = 0.9 Sun: 99° Moon: 141°
2023 oct 12 16h10.9m A23_10101 977 Philippa UCAC4 348–000348 Diam = 67.0 m = 12.0 m = 14.6  Dur = 5.6s Dmag = 2.7 Sun: 149° Moon: 162°	2023 oct 12 19h 2.9m A23_10077 480 Hansa TYC 1832–00464–1 Diam = 58.0 m = 10.2 m = 12.7  Dur = 8.4s Dmag = 2.6 Sun: 122° Moon: 101°	2023 oct 14 20h 2.3m A23_10105 1143 Odysseus TYC 1341–01612–1 Diam = 135.0 m = 12.1 m = 15.3  Dur = 18.5s Dmag = 3.2 Sun: 102° Moon: 103°	2023 oct 15 13h 7.7m A23_10098 914 Palisana TYC 1631–00442–1 Diam = 79.0 m = 10.3 m = 12.4  Dur = 5.5s Dmag = 2.2 Sun: 106° Moon: 99°
2023 oct 15 15h31.2m A23_10001 4 Vesta TYC 1336–01324–1 Diam = 523.2 m = 9.6 m = 7.7  Dur = 67.7s Dmag = 0.2 Sun: 105° Moon: 116°	2023 oct 16 8h49.2m A23_10040 146 Lucina UCAC4 302–209131 Diam = 137.0 m = 11.5 m = 13.6  Dur = 5.0s Dmag = 2.3 Sun: 70° Moon: 52°	2023 oct 17 19h55.8m A23_10037 125 Liberatrix UCAC4 539–030677 Diam = 47.5 m = 10.5 m = 14.2  Dur = 5.9s Dmag = 3.7 Sun: 104° Moon: 139°	2023 oct 18 17h53.7m A23_10078 488 Kreusa TYC 1326–01300–1 Diam = 158.0 m = 11.6 m = 13.2  Dur = 28.4s Dmag = 1.8 Sun: 112° Moon: 159°

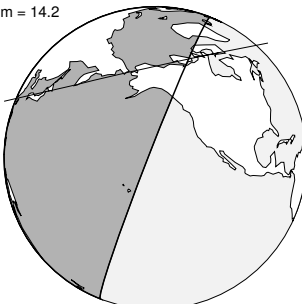
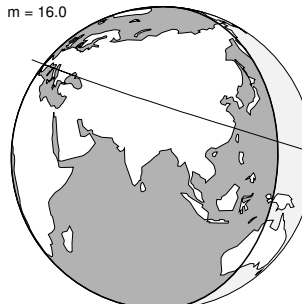
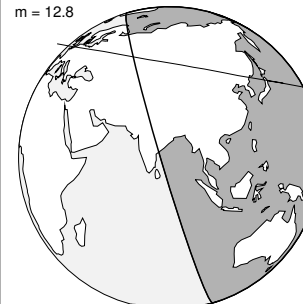
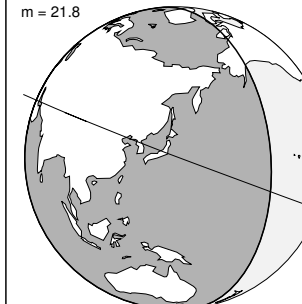
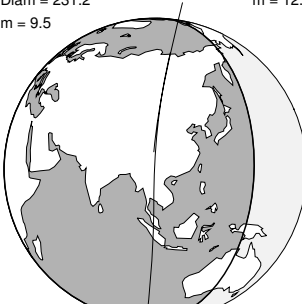
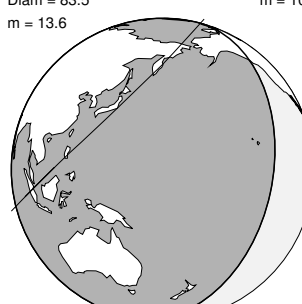
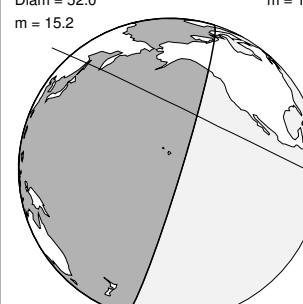
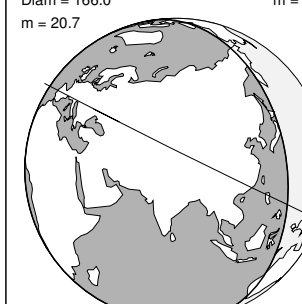
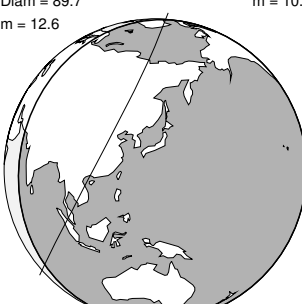
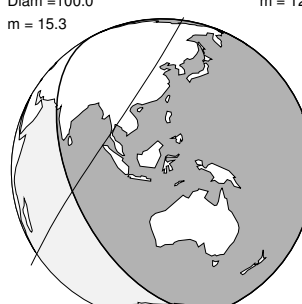
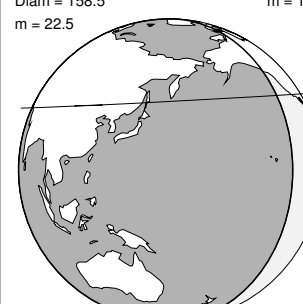
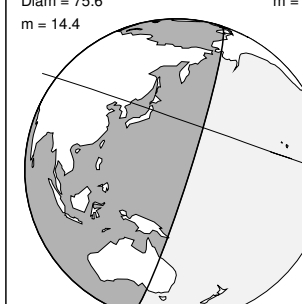
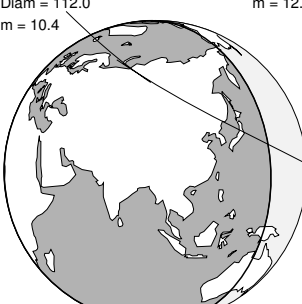
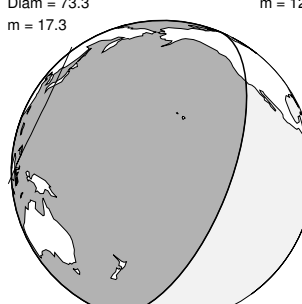
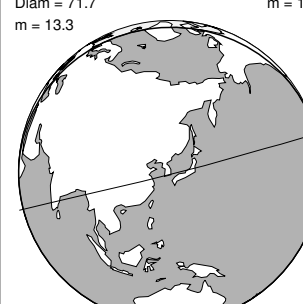
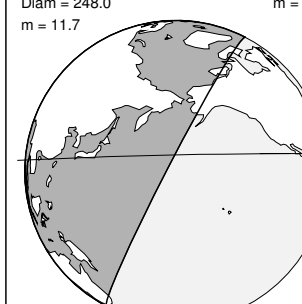
Occultations by major and minor planets – 2023

Region 7

2023 oct 19 12h36.8m A23_10094 895 Helio UCAC4 659–019536 Diam = 147.0 m = 12.5 m = 12.9  Dur = 23.0s Dmag = 1.0 Sun: 135° Moon: 157°	2023 oct 19 18h37.6m A23_10044 175 Andromache TYC 1411–00778–1 Diam = 107.0 m = 11.8 m = 15.1  Dur = 4.0s Dmag = 3.3 Sun: 61° Moon: 122°	2023 oct 23 22h15.2m A23_10019 46 Hestia UCAC4 505–051717 Diam = 131.0 m = 11.8 m = 14.1  Dur = 4.6s Dmag = 2.4 Sun: 63° Moon: 173°	2023 oct 25 8h36.8m A23_10011 20 Massalia UCAC4 337–124204 Diam = 151.0 m = 12.5 m = 12.0  Dur = 4.9s Dmag = 0.5 Sun: 61° Moon: 72°
2023 oct 25 20h60.0m B23_10010 2003UV292 UCAC4 534–023768 Diam = 144.5 m = 13.0 m = 23.3  Dur = 13.4s Dmag = 10.2 Sun: 118° Moon: 101°	2023 oct 27 20h11.6m A23_10116 1596 Itzigssohn UCAC4 526–043956 Diam = 51.1 m = 12.4 m = 15.3  Dur = 3.8s Dmag = 3.0 Sun: 99° Moon: 94°	2023 oct 29 9h36.2m A23_10006 10 Hygiea TYC 5782–01296–1 Diam = 429.0 m = 12.2 m = 11.1  Dur = 33.8s Dmag = 0.3 Sun: 98° Moon: 89°	2023 oct 29 18h 1.1m A23_10109 1248 Jugurtha TYC 1928–01697–1 Diam = 47.9 m = 11.6 m = 14.8  Dur = 3.2s Dmag = 3.3 Sun: 93° Moon: 74°
2023 oct 29 22h46.7m A23_10059 276 Adelheid HIP 25725 Diam = 127.0 m = 8.2 m = 13.5  Dur = 11.2s Dmag = 5.3 Sun: 131° Moon: 37°	2023 oct 31 21h53.9m A23_10124 3063 Makhaon TYC 1385–00965–1 Diam = 125.0 m = 12.1 m = 16.1  Dur = 13.5s Dmag = 4.1 Sun: 97° Moon: 43°	2023 nov 1 17h39.0m A23_11082 409 Aspasia UCAC4 565–007207 Diam = 168.0 m = 11.6 m = 11.5  Dur = 13.5s Dmag = 0.7 Sun: 163° Moon: 32°	2023 nov 1 21h55.7m A23_11015 37 Fides UCAC4 588–027297 Diam = 112.0 m = 11.7 m = 10.7  Dur = 43.0s Dmag = 0.4 Sun: 126° Moon: 2°
2023 nov 3 18h52.5m A23_11070 347 Pariana UCAC5 526–008943 Diam = 96.4 m = 12.4 m = 13.1  Dur = 11.2s Dmag = 1.1 Sun: 147° Moon: 43°	2023 nov 4 20h27.1m A23_11125 1040 Klumpkea TYC 1388–01109–1 Diam = 42.5 m = 10.8 m = 15.2  Dur = 3.6s Dmag = 4.4 Sun: 102° Moon: 8°	2023 nov 5 18h38.9m A23_11127 1191 Alfaterna TYC 0177–00951–1 Diam = 45.6 m = 10.9 m = 15.8  Dur = 8.5s Dmag = 5.0 Sun: 109° Moon: 32°	2023 nov 5 18h40.7m A23_11128 1191 Alfaterna UCAC4 485–038650 Diam = 45.6 m = 10.0 m = 15.8  Dur = 8.5s Dmag = 5.8 Sun: 109° Moon: 32°

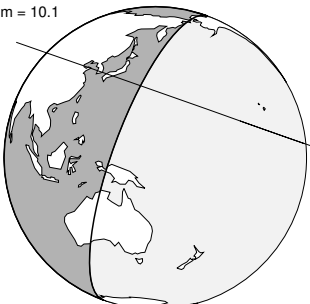
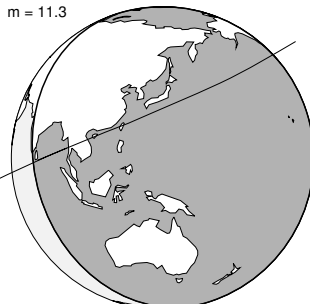
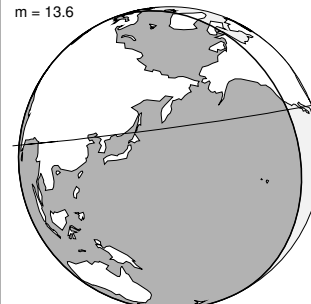
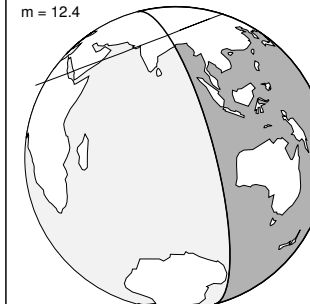
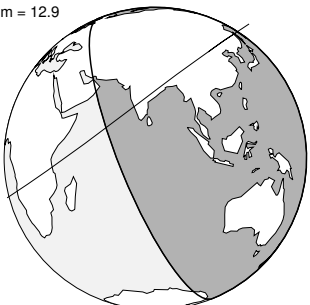
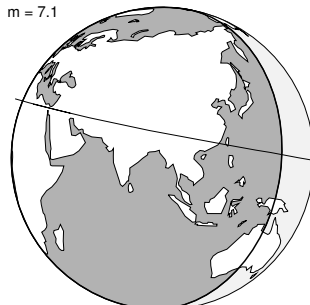
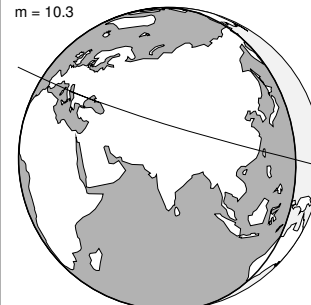
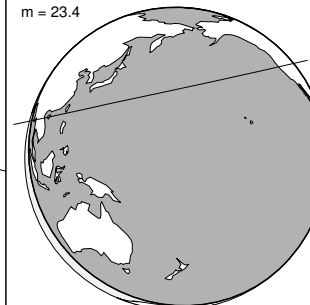
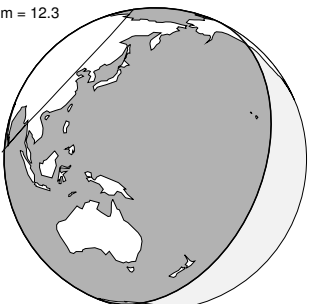
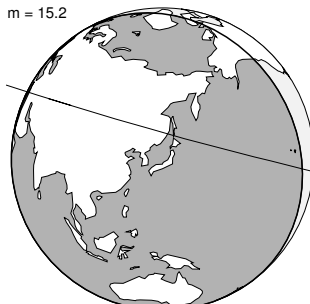
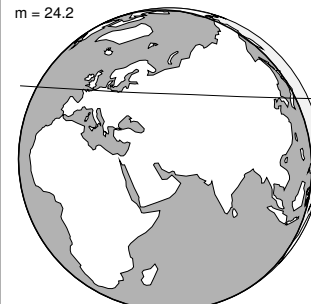
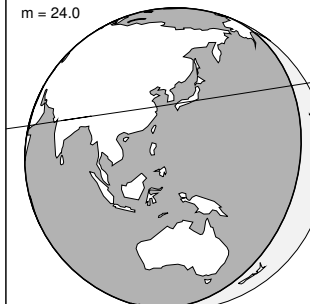
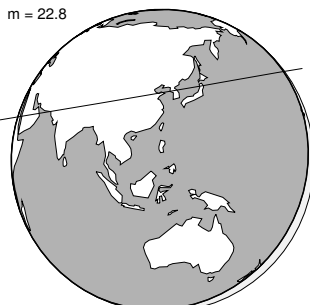
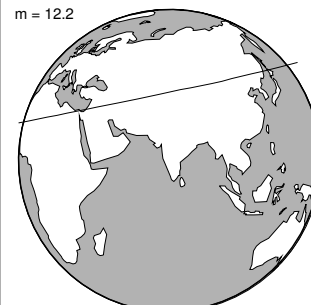
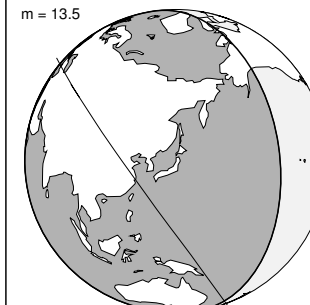
Occultations by major and minor planets – 2023

Region 7

2023 nov 7 16h19.5m A23_11069 344 Desiderata UCAC4 614-045533 Diam = 138.0 m = 12.3 m = 14.2  Dur = 8.0s Dmag = 2.1 Sun: 87° Moon: 26°	2023 nov 7 20h40.2m A23_11145 4489 Dracius UCAC4 546-017448 Diam = 66.1 m = 11.3 m = 16.0  Dur = 5.9s Dmag = 4.8 Sun: 139° Moon: 77°	2023 nov 9 11h59.3m A23_11120 914 Palisana UCAC4 520-134614 Diam = 79.0 m = 11.4 m = 12.8  Dur = 3.7s Dmag = 1.6 Sun: 93° Moon: 129°	2023 nov 9 17h42.0m B23_11002 78799 2002XW93 UCAC4 622-034366 Diam = 416.9 m = 13.3 m = 21.8  Dur = 25.3s Dmag = 8.5 Sun: 128° Moon: 87°
2023 nov 10 20h25.0m A23_11004 9 Metis UCAC4 572-030201 Diam = 231.2 m = 12.4 m = 9.5  Dur = 95.8s Dmag = 0.1 Sun: 130° Moon: 101°	2023 nov 11 15h53.0m A23_11048 205 Martha UCAC4 514-018989 Diam = 83.5 m = 10.7 m = 13.6  Dur = 11.4s Dmag = 3.0 Sun: 136° Moon: 117°	2023 nov 11 16h 3.7m A23_11056 248 Lameia TYC 0818-01370-1 Diam = 52.0 m = 10.9 m = 15.2  Dur = 3.6s Dmag = 4.3 Sun: 94° Moon: 74°	2023 nov 12 21h15.5m A23_11153 2011UH413 TYC 2427-00338-1 Diam = 166.0 m = 10.1 m = 20.7  Dur = 8.4s Dmag = 10.6 Sun: 136° Moon: 131°
2023 nov 13 12h53.1m A23_11099 568 Cheruskia TYC 1751-01552-1 Diam = 89.7 m = 10.4 m = 12.6  Dur = 7.8s Dmag = 2.3 Sun: 154° Moon: 154°	2023 nov 14 12h34.6m A23_11142 3451 Mentor UCAC5 428-000034 Diam = 100.0 m = 12.4 m = 15.3  Dur = 14.8s Dmag = 3.0 Sun: 127° Moon: 113°	2023 nov 14 15h51.7m A23_11152 535168 2014XU40 UCAC4 564-019837 Diam = 158.5 m = 11.7 m = 22.5  Dur = 8.2s Dmag = 10.7 Sun: 144° Moon: 159°	2023 nov 14 19h30.1m A23_11100 569 Misa UCAC4 531-048542 Diam = 75.6 m = 12.5 m = 14.4  Dur = 4.9s Dmag = 2.1 Sun: 95° Moon: 113°
2023 nov 14 20h18.5m A23_11016 37 Fides PPMX 5018662 Diam = 112.0 m = 12.4 m = 10.4  Dur = 38.8s Dmag = 0.2 Sun: 139° Moon: 158°	2023 nov 16 14h46.0m A23_11137 2759 Idomeneus TYC 4830-01333-1 Diam = 73.3 m = 12.0 m = 17.3  Dur = 9.7s Dmag = 5.3 Sun: 116° Moon: 146°	2023 nov 17 15h 1.6m A23_11041 174 Phaedra UCAC4 632-011774 Diam = 71.7 m = 12.1 m = 13.3  Dur = 4.9s Dmag = 1.5 Sun: 162° Moon: 129°	2023 nov 17 18h56.2m A23_11013 31 Euphrosyne UCAC4 640-046061 Diam = 248.0 m = 12.3 m = 11.7  Dur = 11.5s Dmag = 0.5 Sun: 86° Moon: 137°

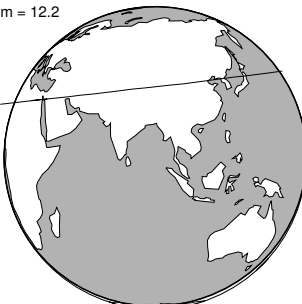
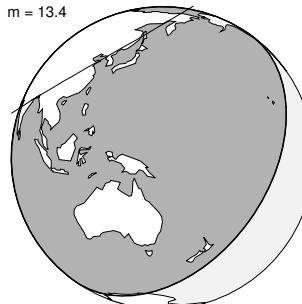
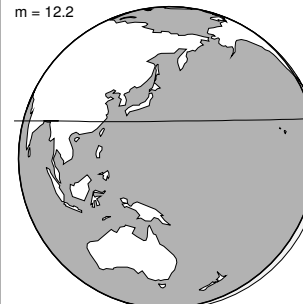
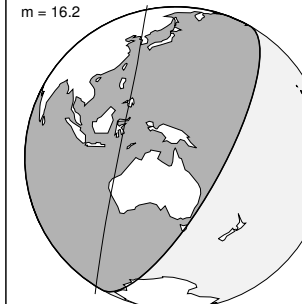
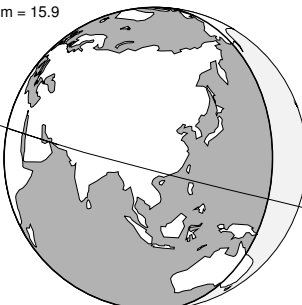
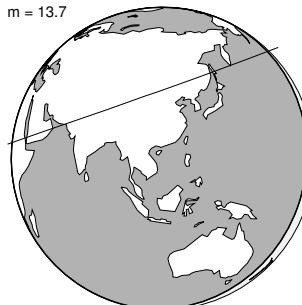
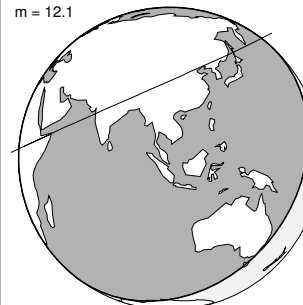
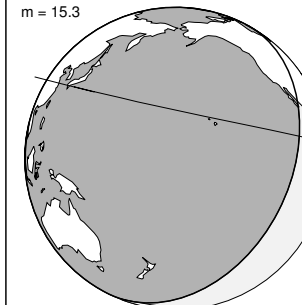
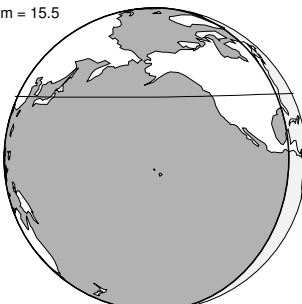
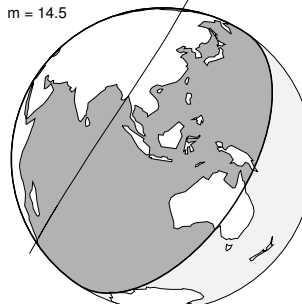
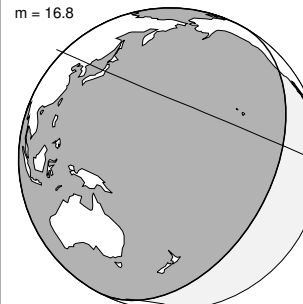
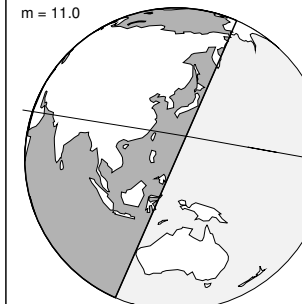
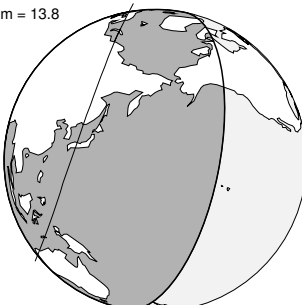
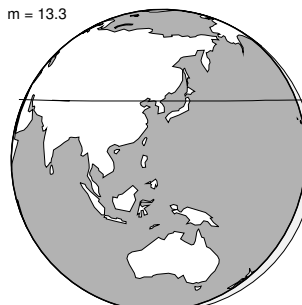
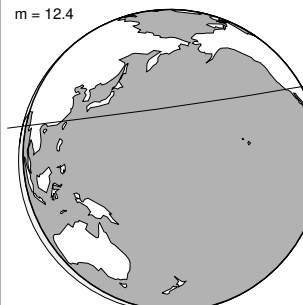
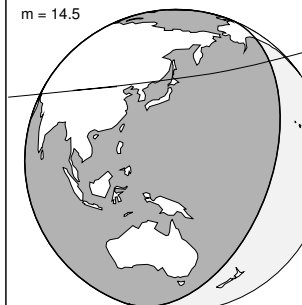
Occultations by major and minor planets – 2023

Region 7

2023 nov 17 20h37.0m A23_11001 3 Juno TYC 0254–00392–1 Diam = 257.6 m = 11.9 m = 10.1  Dur = 10.8s Dmag = 0.2 Sun: 73° Moon: 128°	2023 nov 18 12h22.6m A23_11033 135 Hertha TYC 0617–00540–1 Diam = 82.0 m = 11.3  Dur = 18.7s Dmag = 0.9 Sun: 148° Moon: 84°	2023 nov 18 15h 5.3m A23_11085 466 Tisiphone UCAC4 639–027114 Diam = 121.0 m = 12.3 m = 13.6  Dur = 10.8s Dmag = 1.6 Sun: 147° Moon: 143°	2023 nov 20 11h27.4m A23_11096 511 Davida TYC 6932–00582–1 Diam = 337.0 m = 9.4 m = 12.4  Dur = 15.3s Dmag = 3.0 Sun: 75° Moon: 17°
2023 nov 20 13h22.2m A23_11023 81 Terpsichore UCAC4 417–148240 Diam = 124.0 m = 11.2 m = 12.9  Dur = 11.2s Dmag = 1.9 Sun: 103° Moon: 13°	2023 nov 20 20h16.2m A23_11002 4 Vesta UCAC5 547–025513 Diam = 523.2 m = 7.1 m = 12.5  Dur = 75.8s Dmag = 0.0 Sun: 141° Moon: 122°	2023 nov 20 20h57.6m A23_11019 37 Fides PPMX 5016212 Diam = 112.0 m = 10.3 m = 12.2  Dur = 24.9s Dmag = 0.2 Sun: 146° Moon: 118°	2023 nov 21 11h20.5m B23_11015 2014TL95 UCAC4 484–003851 Diam = 113.2 m = 23.4 m = 13.7  Dur = 4.8s Dmag = 9.7 Sun: 161° Moon: 60°
2023 nov 21 16h 2.0m A23_11062 258 Tyche PPMX 8101869 Diam = 67.7 m = 12.5 m = 12.3  Dur = 7.9s Dmag = 0.7 Sun: 135° Moon: 113°	2023 nov 21 16h16.7m A23_11108 680 Genoveva TYC 2909–01777–1 Diam = 86.7 m = 10.8 m = 15.2  Dur = 5.3s Dmag = 4.4 Sun: 152° Moon: 98°	2023 nov 22 21h32.3m B23_11010 2004VG131 UCAC4 609–018391 Diam = 83.2 m = 12.9 m = 24.2  Dur = 3.6s Dmag = 11.3 Sun: 157° Moon: 79°	2023 nov 23 17h32.4m B23_11011 2004VM131 UCAC4 513–024267 Diam = 87.1 m = 13.6 m = 24.0  Dur = 4.2s Dmag = 10.5 Sun: 143° Moon: 82°
2023 nov 23 20h59.6m A23_11134 1637 Swings TYC 2913–02146–1 Diam = 49.7 m = 12.1 m = 15.7  Dur = 3.8s Dmag = 3.6 Sun: 153° Moon: 68°	2023 nov 24 16h47.5m B23_11006 535025 2014WT509 UCAC4 504–009995 Diam = 151.4 m = 13.0 m = 22.8  Dur = 6.3s Dmag = 9.9 Sun: 161° Moon: 50°	2023 nov 24 19h 8.8m A23_11072 358 Apollonia UCAC4 530–008674 Diam = 91.8 m = 11.5 m = 12.2  Dur = 9.5s Dmag = 1.1 Sun: 172° Moon: 39°	2023 nov 25 17h49.1m A23_11104 599 Luisa UCAC4 649–043661 Diam = 69.6 m = 12.0 m = 13.5  Dur = 6.5s Dmag = 1.8 Sun: 133° Moon: 66°

Occultations by major and minor planets – 2023

Region 7

2023 nov 25 17h54.1m A23_11066 306 Unitas TYC 0667–00338–1 Diam = 49.2 m = 10.8 m = 12.2  Dur = 4.2s Dmag = 1.6 Sun: 168° Moon: 25°	2023 dec 1 16h 8.3m A23_12108 491 Carina TYC 4818–01328–1 Diam = 101.0 m = 12.3 m = 13.4  Dur = 11.6s Dmag = 1.5 Sun: 135° Moon: 33°	2023 dec 2 14h50.0m A23_12057 159 Aemilia TYC 1297–01132–1 Diam = 131.0 m = 11.3 m = 12.2  Dur = 12.0s Dmag = 1.3 Sun: 164° Moon: 49°	2023 dec 2 18h33.4m A23_12160 1583 Antiochus TYC 5455–01746–1 Diam = 109.0 m = 11.8 m = 16.2  Dur = 8.0s Dmag = 4.4 Sun: 107° Moon: 36°
2023 dec 2 19h32.9m A23_12167 1749 Telamon UCAC4 593–040710 Diam = 115.0 m = 12.4 m = 15.9  Dur = 12.4s Dmag = 3.6 Sun: 140° Moon: 25°	2023 dec 4 17h40.1m A23_12135 790 Pretoria TYC 1316–00296–1 Diam = 176.0 m = 12.5 m = 13.7  Dur = 10.5s Dmag = 1.5 Sun: 161° Moon: 68°	2023 dec 5 18h36.6m A23_12074 258 Tyche UCAC5 467–017337 Diam = 67.7 m = 12.4 m = 12.1  Dur = 6.4s Dmag = 0.6 Sun: 148° Moon: 73°	2023 dec 6 13h51.6m A23_12149 1191 Alfaterna TYC 0177–02819–1 Diam = 45.6 m = 11.7 m = 15.3  Dur = 6.0s Dmag = 3.6 Sun: 139° Moon: 68°
2023 dec 7 12h24.0m A23_12154 1280 Baillauda TYC 1898–00857–1 Diam = 55.3 m = 10.9 m = 15.5  Dur = 5.1s Dmag = 4.6 Sun: 151° Moon: 87°	2023 dec 7 19h41.0m A23_12151 1264 Letaba TYC 5413–00042–1 Diam = 77.5 m = 10.3 m = 14.5  Dur = 5.9s Dmag = 4.2 Sun: 124° Moon: 70°	2023 dec 8 15h14.1m A23_12170 2146 Stentor UCAC4 463–038870 Diam = 47.9 m = 12.1 m = 16.8  Dur = 4.2s Dmag = 4.8 Sun: 132° Moon: 83°	2023 dec 8 21h36.6m A23_12021 23 Thalia UCAC5 528–050911 Diam = 111.0 m = 12.5 m = 11.0  Dur = 5.5s Dmag = 0.3 Sun: 90° Moon: 42°
2023 dec 9 17h15.9m A23_12086 344 Desiderata UCAC4 625–044878 Diam = 138.0 m = 12.4 m = 13.8  Dur = 14.4s Dmag = 1.6 Sun: 114° Moon: 78°	2023 dec 10 16h38.8m A23_12048 125 Liberatrix TYC 1328–01827–1 Diam = 47.5 m = 10.9 m = 13.3  Dur = 3.9s Dmag = 2.5 Sun: 160° Moon: 132°	2023 dec 11 11h29.5m A23_12090 358 Apollonia HIP 19499 Diam = 91.8 m = 8.6 m = 12.4  Dur = 10.5s Dmag = 3.8 Sun: 163° Moon: 170°	2023 dec 11 17h45.1m A23_12137 799 Gudula TYC 0805–00996–1 Diam = 46.5 m = 12.1 m = 14.5  Dur = 24.3s Dmag = 2.5 Sun: 129° Moon: 113°

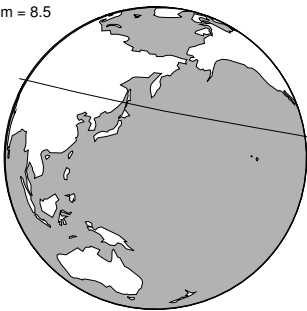
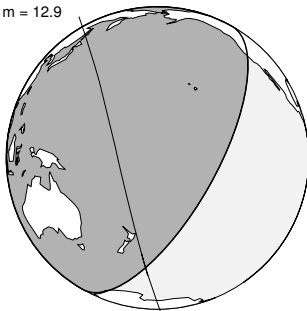
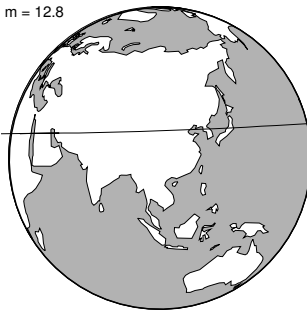
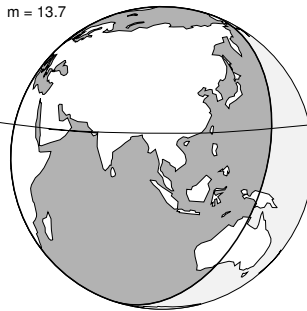
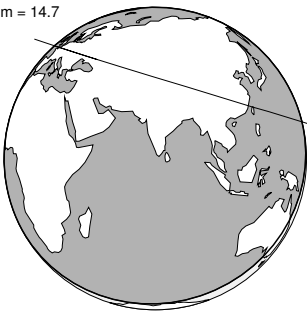
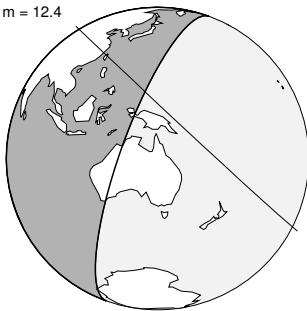
Occultations by major and minor planets – 2023

Region 7

2023 dec 12 15h41.2m A23_12012 9 Metis TYC 1885-00092-1 Diam = 231.2 m = 10.9 m = 8.6 Dur = 27.8s Dmag = 0.1 Sun: 166° Moon: 163°	2023 dec 12 20h46.2m A23_12069 225 Henrietta TYC 5492-00961-1 Diam = 124.0 m = 9.8 m = 15.5 Dur = 12.1s Dmag = 5.8 Sun: 95° Moon: 93°	2023 dec 13 12h26.3m A23_12148 1191 Alfaterna TYC 0176-02107-1 Diam = 45.6 m = 11.1 m = 15.1 Dur = 4.6s Dmag = 4.1 Sun: 146° Moon: 150°	2023 dec 14 17h20.7m A23_12125 731 Soga UCAC4 606-015838 Diam = 46.6 m = 11.7 m = 13.9 Dur = 3.4s Dmag = 2.4 Sun: 169° Moon: 151°
2023 dec 14 19h30.8m A23_12189 4902 Thessandrus TYC 0757-02177-1 Diam = 50.1 m = 9.9 m = 16.6 Dur = 3.5s Dmag = 6.7 Sun: 154° Moon: 165°	2023 dec 15 18h 2.4m A23_12015 9 Metis UCAC4 585-025748 Diam = 231.2 m = 12.4 m = 8.5 Dur = 26.8s Dmag = 0.0 Sun: 170° Moon: 153°	2023 dec 16 14h54.8m A23_12179 3564 Talthybius TYC 2929-00576-1 Diam = 66.1 m = 10.7 m = 16.2 Dur = 3.8s Dmag = 5.5 Sun: 161° Moon: 137°	2023 dec 17 12h26.2m A23_12061 173 Ino UCAC4 453-008547 Diam = 159.0 m = 11.8 m = 11.1 Dur = 15.7s Dmag = 0.5 Sun: 155° Moon: 107°
2023 dec 18 18h47.7m A23_12070 227 Philosophia TYC 1775-00633-1 Diam = 90.1 m = 6.7 m = 14.6 Dur = 9.0s Dmag = 7.9 Sun: 138° Moon: 64°	2023 dec 19 15h18.6m B23_12003 60558 Echeclus UCAC4 537-043188 Diam = 61.1 m = 13.1 m = 20.3 Dur = 3.0s Dmag = 7.2 Sun: 152° Moon: 119°	2023 dec 19 19h46.4m A23_12155 1297 Quadea UCAC4 404-053655 Diam = 66.0 m = 12.5 m = 16.6 Dur = 3.1s Dmag = 4.2 Sun: 80° Moon: 167°	2023 dec 19 21h10.7m A23_12140 850 Altona UCAC4 519-029174 Diam = 84.5 m = 11.7 m = 14.5 Dur = 5.6s Dmag = 2.9 Sun: 164° Moon: 100°
2023 dec 19 22h30.2m A23_12138 814 Tauris TYC 1448-00157-1 Diam = 116.0 m = 12.0 m = 15.3 Dur = 6.4s Dmag = 3.3 Sun: 85° Moon: 160°	2023 dec 22 12h34.2m A23_12079 267 Tirza UCAC4 582-026614 Diam = 53.6 m = 12.2 m = 14.7 Dur = 3.8s Dmag = 2.6 Sun: 174° Moon: 59°	2023 dec 25 15h15.9m A23_12185 4833 Meges UCAC4 559-035232 Diam = 63.1 m = 11.6 m = 15.9 Dur = 3.1s Dmag = 4.3 Sun: 170° Moon: 26°	2023 dec 26 17h41.0m A23_12150 1191 Alfaterna TYC 0762-03496-1 Diam = 45.6 m = 11.0 m = 14.9 Dur = 3.5s Dmag = 3.9 Sun: 160° Moon: 26°

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Region 7

2023 dec 27 12h60.0m A23_12017 9 Metis UCAC4 588-023397 Diam = 231.2 m = 12.5 m = 8.5  Dur = 26.7s Dmag = 0.0 Sun: 172° Moon: 12°	2023 dec 27 15h28.1m A23_12101 478 Tergeste UCAC4 411-050740 Diam = 82.0 m = 12.5 m = 12.9  Dur = 10.4s Dmag = 1.0 Sun: 112° Moon: 62°	2023 dec 27 16h42.0m A23_12047 108 Hecuba UCAC4 597-025560 Diam = 67.0 m = 12.4 m = 12.8  Dur = 4.8s Dmag = 1.0 Sun: 171° Moon: 13°	2023 dec 27 20h36.1m A23_12115 569 Misa TYC 0827-01419-1 Diam = 75.6 m = 9.8 m = 13.7  Dur = 50.2s Dmag = 3.9 Sun: 133° Moon: 37°
2023 dec 29 19h24.4m A23_12134 781 Kartvelia UCAC4 487-032120 Diam = 60.0 m = 10.3 m = 14.7  Dur = 3.7s Dmag = 4.4 Sun: 162° Moon: 31°	2023 dec 29 20h59.5m A23_12043 89 Julia TYC 6118-01156-1 Diam = 159.0 m = 10.7 m = 12.4  Dur = 6.7s Dmag = 1.9 Sun: 75° Moon: 74°		