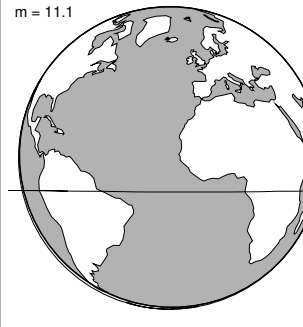
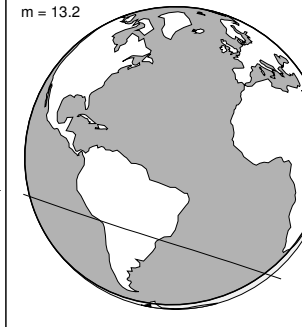
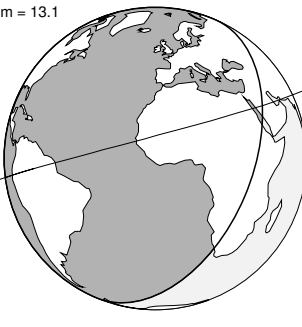
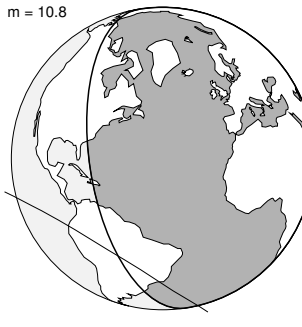
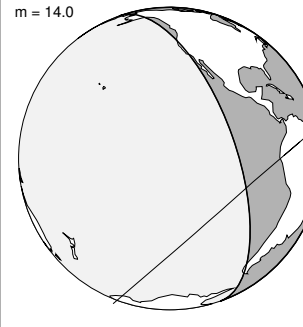
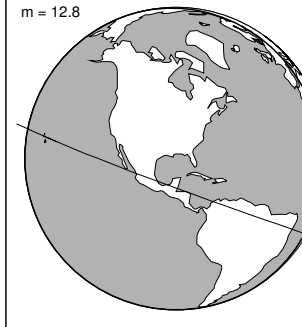
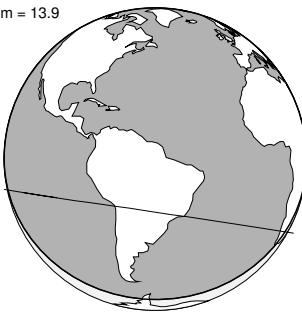
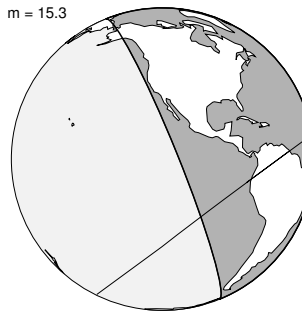
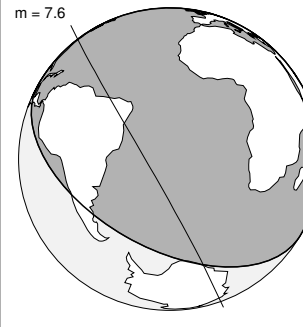
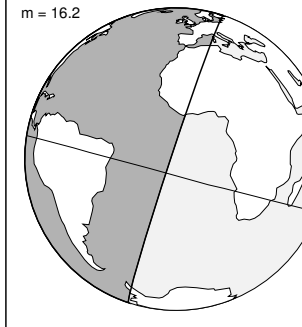
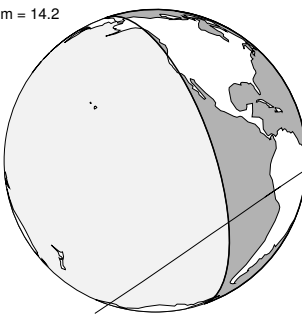
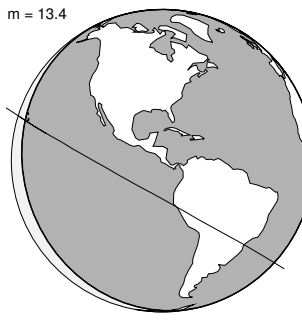
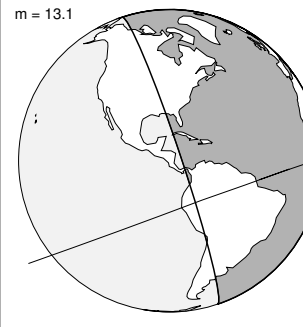
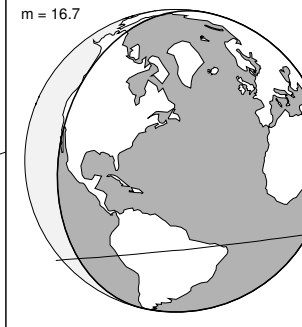


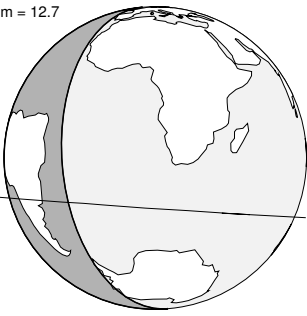
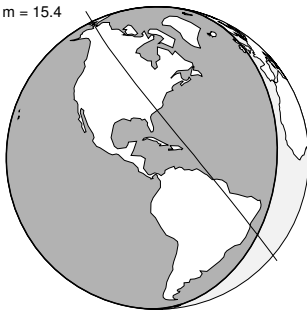
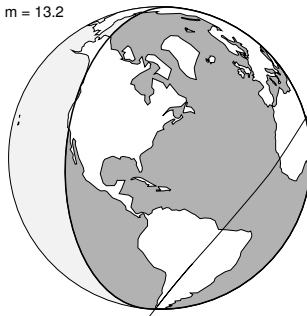
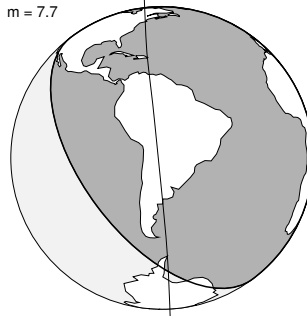
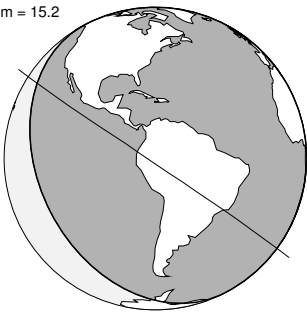
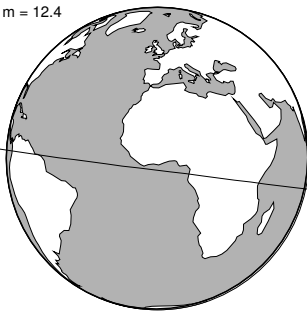
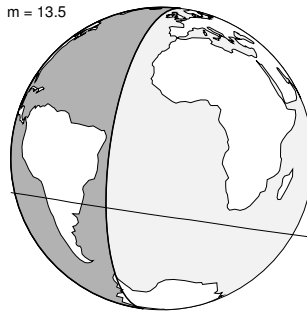
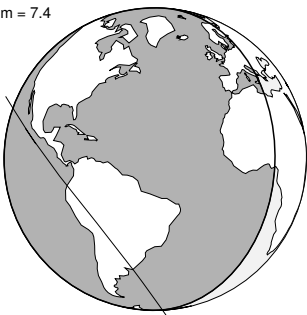
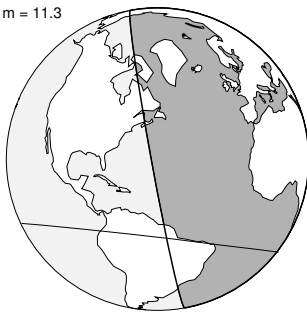
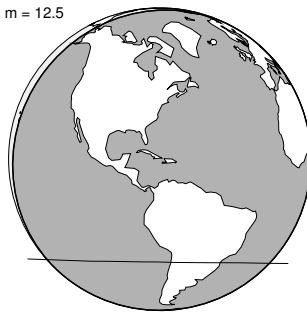
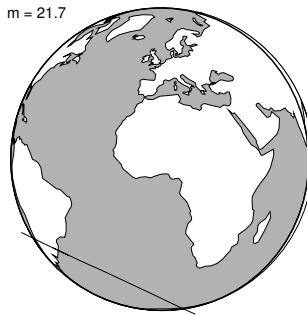
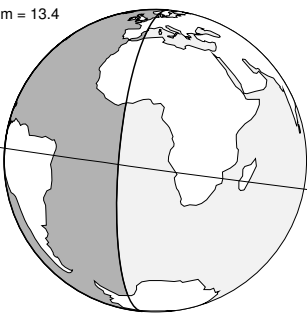
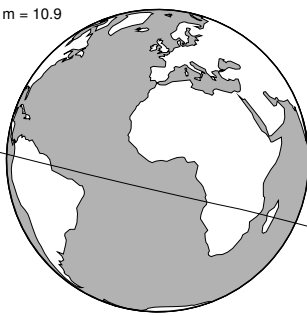
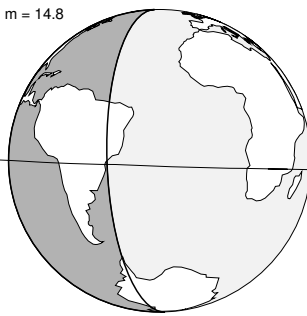
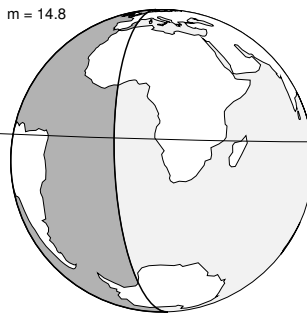
Occultations by major and minor planets – 2023

Region 2

2023 jan 3 22h 6.1m B23_01003 523601 2003UY413 UCAC4 599–004486 Diam = 331.1 m = 14.3 m = 21.9  Dur = 32.5s Dmag = 7.7 Sun: 111° Moon: 37°	2023 jan 5 2h59.4m A23_01092 505 Cava TYC 1933–00249–1 Diam = 79.1 m = 11.5 m = 11.2  Dur = 8.7s Dmag = 0.6 Sun: 167° Moon: 31°	2023 jan 7 1h 3.1m A23_01011 12 Victoria PPMX 7039079 Diam = 117.0 m = 11.9 m = 11.1  Dur = 8.2s Dmag = 0.4 Sun: 169° Moon: 15°	2023 jan 8 3h17.6m A23_01054 191 Kolga UCAC5 493–045453 Diam = 105.0 m = 12.5 m = 13.2  Dur = 8.3s Dmag = 1.2 Sun: 164° Moon: 18°
2023 jan 9 4h 3.0m A23_01050 141 Lumen TYC 0259–00049–1 Diam = 135.0 m = 11.4 m = 13.1  Dur = 22.0s Dmag = 1.9 Sun: 129° Moon: 27°	2023 jan 12 22h24.0m A23_01042 115 Thyra PPMX 3858322 Diam = 83.5 m = 10.8 m = 10.8  Dur = 8.9s Dmag = 0.4 Sun: 118° Moon: 123°	2023 jan 13 1h 2.8m A23_01051 154 Bertha TYC 5831–01132–1 Diam = 192.0 m = 11.8 m = 14.0  Dur = 6.6s Dmag = 2.3 Sun: 63° Moon: 174°	2023 jan 13 7h 7.7m A23_01078 454 Mathesis TYC 1948–00571–1 Diam = 84.5 m = 10.4 m = 12.8  Dur = 7.7s Dmag = 2.5 Sun: 163° Moon: 57°
2023 jan 15 3h42.1m A23_01072 392 Wilhelmina TYC 4831–00671–1 Diam = 64.6 m = 9.3 m = 13.9  Dur = 5.1s Dmag = 4.6 Sun: 158° Moon: 88°	2023 jan 17 1h18.0m A23_01102 680 Genoveva TYC 0613–00471–1 Diam = 86.7 m = 10.6 m = 15.3  Dur = 4.6s Dmag = 4.8 Sun: 84° Moon: 150°	2023 jan 22 23h52.7m A23_01005 2 Pallas TYC 6520–01624–1 Diam = 530.9 m = 8.3 m = 7.6  Dur = 42.3s Dmag = 0.5 Sun: 126° Moon: 116°	2023 jan 28 6h46.2m A23_01069 383 Janina TYC 5571–01035–1 Diam = 49.7 m = 9.6 m = 16.2  Dur = 3.3s Dmag = 6.6 Sun: 88° Moon: 173°
2023 jan 30 1h20.6m A23_01089 488 Kreusa UCAC4 444–001508 Diam = 158.0 m = 12.4 m = 14.2  Dur = 6.0s Dmag = 2.0 Sun: 67° Moon: 41°	2023 feb 1 4h24.4m A23_02046 191 Kolga TYC 0768–00476–1 Diam = 105.0 m = 9.0 m = 13.4  Dur = 8.8s Dmag = 4.4 Sun: 157° Moon: 33°	2023 feb 1 23h21.4m A23_02014 46 Hestia TYC 0635–00280–1 Diam = 131.0 m = 11.3 m = 13.1  Dur = 6.0s Dmag = 2.0 Sun: 85° Moon: 53°	2023 feb 2 1h11.9m A23_02128 3548 Eurybates UCAC4 608–031607 Diam = 45.7 m = 12.3 m = 16.7  Dur = 4.7s Dmag = 4.4 Sun: 140° Moon: 5°

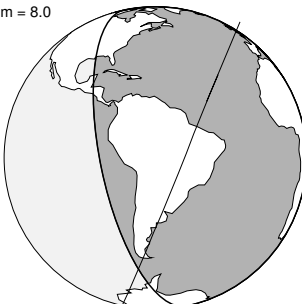
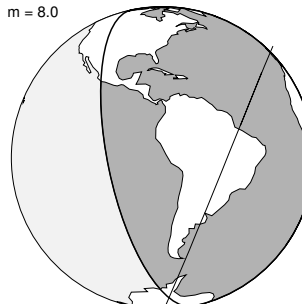
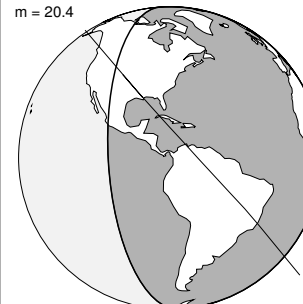
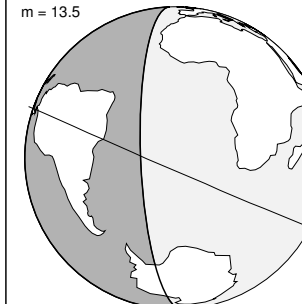
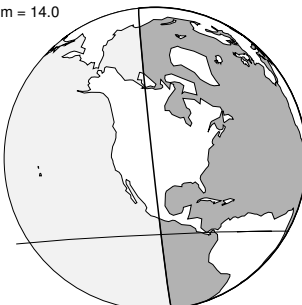
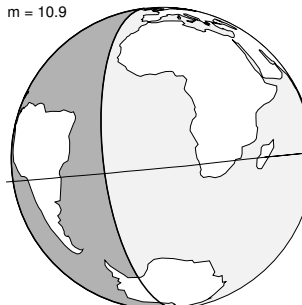
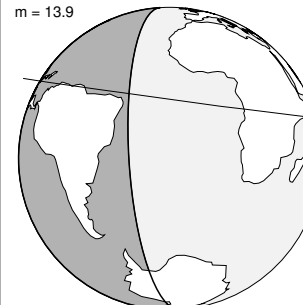
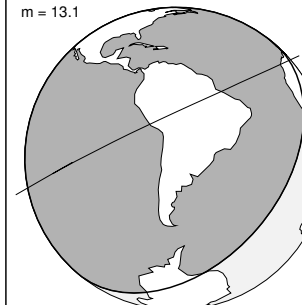
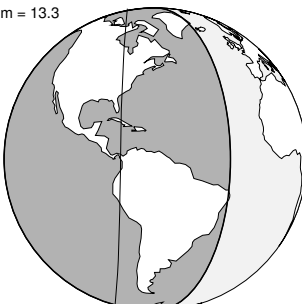
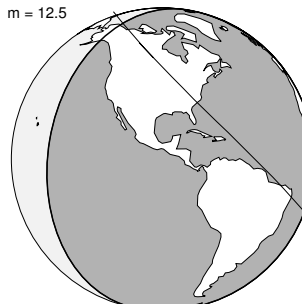
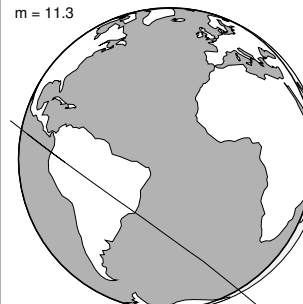
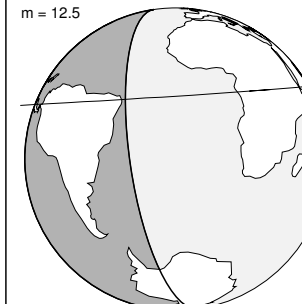
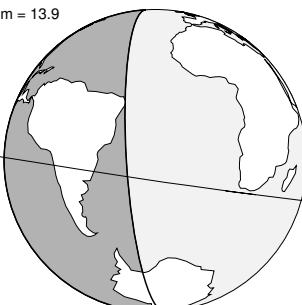
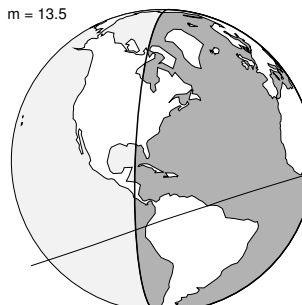
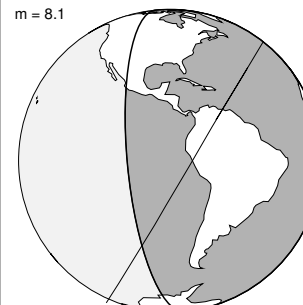
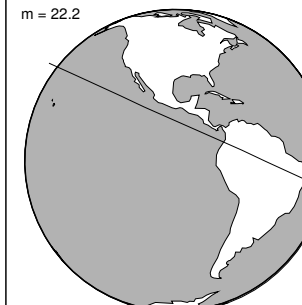
Occultations by major and minor planets – 2023

Region 2

2023 feb 5 7h52.7m A23_02016 54 Alexandra TYC 7380–00962–1 Diam = 171.0 m = 9.9 m = 12.7  Dur = 4.4s Dmag = 2.9 Sun: 51° Moon: 134°	2023 feb 6 8h 5.3m A23_02116 1075 Helina TYC 1441–01261–1 Diam = 40.5 m = 11.6 m = 15.4  Dur = 3.8s Dmag = 3.9 Sun: 142° Moon: 30°	2023 feb 8 1h29.1m A23_02050 224 Oceana UCAC4 605–025192 Diam = 79.8 m = 11.8 m = 13.2  Dur = 20.8s Dmag = 1.7 Sun: 128° Moon: 76°	2023 feb 9 1h27.3m A23_02002 2 Pallas TYC 6507–00123–1 Diam = 530.9 m = 8.9 m = 7.7  Dur = 33.6s Dmag = 0.3 Sun: 122° Moon: 82°
2023 feb 12 2h48.6m A23_02051 225 Henrietta UCAC4 433–034139 Diam = 124.0 m = 11.9 m = 15.2  Dur = 8.0s Dmag = 3.3 Sun: 141° Moon: 101°	2023 feb 13 0h52.4m A23_02038 141 Lumen UCAC4 487–050603 Diam = 135.0 m = 11.7 m = 12.4  Dur = 9.2s Dmag = 1.1 Sun: 170° Moon: 74°	2023 feb 14 4h41.2m A23_02093 654 Zelinda UCAC5 385–050654 Diam = 132.0 m = 12.4 m = 10.2  Dur = 17.2s Dmag = 0.1 Sun: 151° Moon: 97°	2023 feb 16 8h18.1m A23_02039 146 Lucina TYC 6236–00371–1 Diam = 137.0 m = 12.0 m = 13.5  Dur = 4.8s Dmag = 1.7 Sun: 69° Moon: 17°
2023 feb 20 5h45.8m A23_02001 1 Ceres TYC 0885–00677–1 Diam = 952.5 m = 11.5 m = 7.4  Dur = 140.1s Dmag = 0.0 Sun: 142° Moon: 143°	2023 feb 22 21h49.5m A23_02067 324 Bamberga UCAC4 608–011929 Diam = 227.6 m = 12.4 m = 11.3  Dur = 11.1s Dmag = 0.4 Sun: 92° Moon: 58°	2023 feb 24 4h19.0m A23_02073 375 Ursula TYC 1406–00791–1 Diam = 216.0 m = 10.3 m = 12.5  Dur = 14.2s Dmag = 2.4 Sun: 163° Moon: 112°	2023 feb 25 1h 0.8m A23_02134 553893 2012BW154 TYC 0859–00424–1 Diam = 316.2 m = 11.9 m = 21.7  Dur = 12.9s Dmag = 9.8 Sun: 165° Moon: 128°
2023 feb 26 6h34.5m A23_02041 146 Lucina UCAC4 362–089236 Diam = 137.0 m = 12.5 m = 13.4  Dur = 5.5s Dmag = 1.3 Sun: 76° Moon: 153°	2023 feb 27 0h22.1m A23_02029 111 Ate UCAC4 477–048154 Diam = 139.0 m = 12.2 m = 10.9  Dur = 13.6s Dmag = 0.3 Sun: 175° Moon: 92°	2023 mar 2 9h 8.2m A23_03076 203 Pompeja UCAC4 319–135465 Diam = 120.0 m = 10.1 m = 14.8  Dur = 4.4s Dmag = 4.7 Sun: 69° Moon: 167°	2023 mar 5 6h23.0m A23_03077 203 Pompeja TYC 6851–05185–1 Diam = 120.0 m = 9.8 m = 14.8  Dur = 4.6s Dmag = 5.0 Sun: 71° Moon: 134°

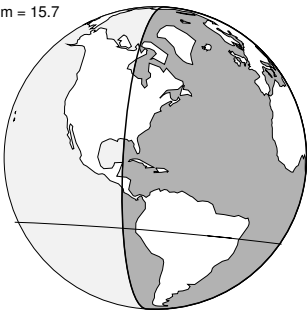
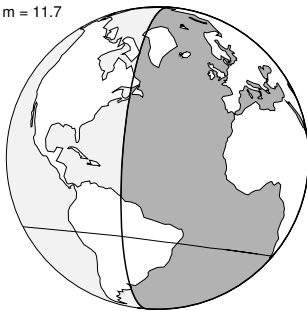
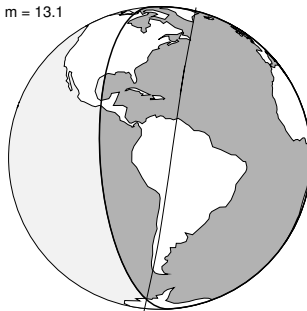
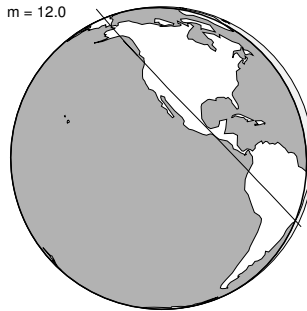
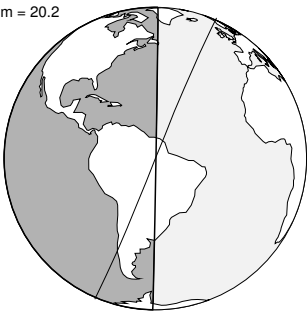
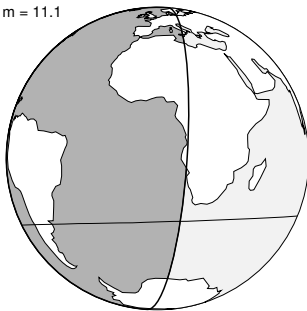
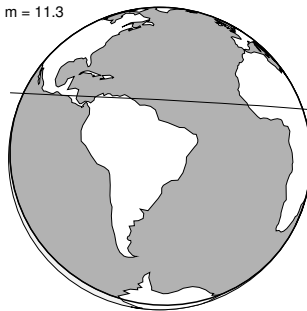
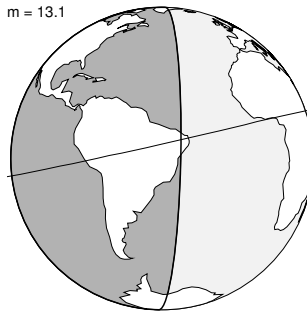
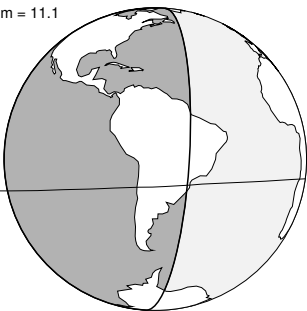
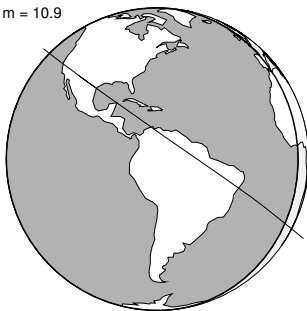
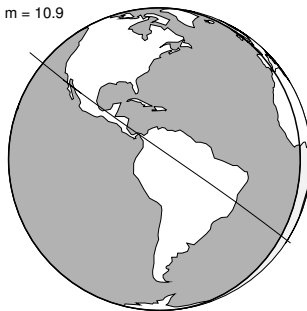
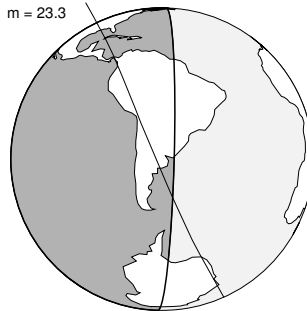
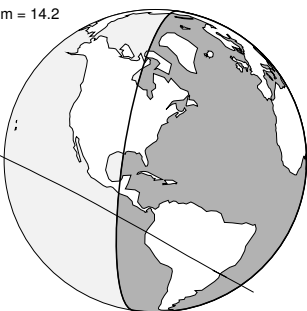
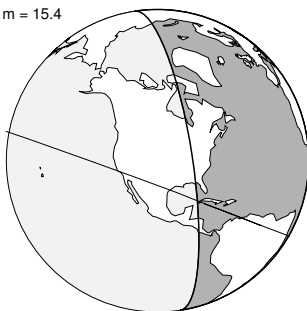
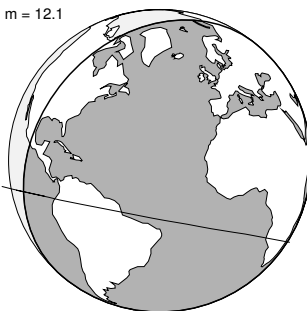
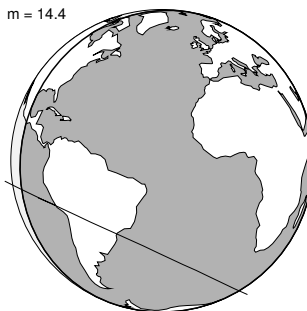
Occultations by major and minor planets – 2023

Region 2

2023 mar 5 23h56.4m A23_03004 2 Pallas TYC 5390–02209–1 Diam = 530.9 m = 9.7 m = 8.0  Dur = 26.5s Dmag = 0.2 Sun: 111° Moon: 60°	2023 mar 6 0h58.9m A23_03005 2 Pallas PPMX 10128554 Diam = 530.9 m = 12.1 m = 8.0  Dur = 26.5s Dmag = 0.0 Sun: 111° Moon: 60°	2023 mar 6 0h59.8m B23_03001 55638 2002VE95 UCAC4 484–024681 Diam = 363.1 m = 12.9 m = 20.4  Dur = 35.0s Dmag = 7.5 Sun: 113° Moon: 52°	2023 mar 6 7h44.1m A23_03097 326 Tamara UCAC4 278–146299 Diam = 100.0 m = 10.4 m = 13.5  Dur = 3.3s Dmag = 3.2 Sun: 76° Moon: 118°
2023 mar 7 0h45.3m A23_03155 772 Tanete UCAC4 653–025894 Diam = 123.0 m = 12.1 m = 14.0  Dur = 10.1s Dmag = 2.1 Sun: 91° Moon: 82°	2023 mar 7 7h41.9m A23_03021 15 Eunomia TYC 6871–00362–1 Diam = 272.0 m = 11.1 m = 10.9  Dur = 9.6s Dmag = 0.7 Sun: 66° Moon: 116°	2023 mar 8 8h18.7m A23_03046 94 Aurora UCAC4 297–170931 Diam = 212.0 m = 11.7 m = 13.9  Dur = 8.9s Dmag = 2.4 Sun: 74° Moon: 97°	2023 mar 11 6h39.8m A23_03153 762 Pulcova HIP 66108 Diam = 142.0 m = 9.2 m = 13.1  Dur = 18.2s Dmag = 4.0 Sun: 135° Moon: 17°
2023 mar 11 8h30.1m A23_03058 130 Elektra TYC 0927–00734–1 Diam = 189.0 m = 11.0 m = 13.3  Dur = 16.0s Dmag = 2.4 Sun: 119° Moon: 28°	2023 mar 13 3h46.4m A23_03041 59 Elpis TYC 0813–01352–1 Diam = 173.0 m = 9.6 m = 12.5  Dur = 23.8s Dmag = 3.0 Sun: 139° Moon: 106°	2023 mar 14 3h11.2m A23_03056 114 Cassandra TYC 4949–00454–1 Diam = 103.0 m = 11.6 m = 11.3  Dur = 12.4s Dmag = 0.6 Sun: 161° Moon: 60°	2023 mar 14 8h21.1m A23_03039 54 Alexandra TYC 7412–00470–1 Diam = 171.0 m = 11.3 m = 12.5  Dur = 5.8s Dmag = 1.5 Sun: 72° Moon: 28°
2023 mar 14 8h27.5m A23_03047 94 Aurora UCAC4 296–185474 Diam = 212.0 m = 12.4 m = 13.9  Dur = 9.9s Dmag = 1.7 Sun: 79° Moon: 21°	2023 mar 14 23h48.6m A23_03170 1021 Flammario TYC 1882–01450–1 Diam = 103.0 m = 10.4 m = 13.5  Dur = 7.0s Dmag = 3.1 Sun: 100° Moon: 168°	2023 mar 15 1h 5.1m A23_03007 2 Pallas PPMX 10136542 Diam = 530.9 m = 12.1 m = 8.1  Dur = 24.7s Dmag = 0.0 Sun: 106° Moon: 139°	2023 mar 15 6h51.6m B23_03009 553138 2011BQ170 PPMX 9464089 Diam = 216.8 m = 12.9 m = 22.2  Dur = 8.8s Dmag = 9.3 Sun: 172° Moon: 86°

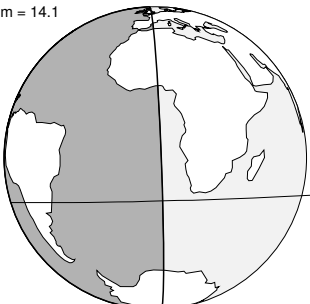
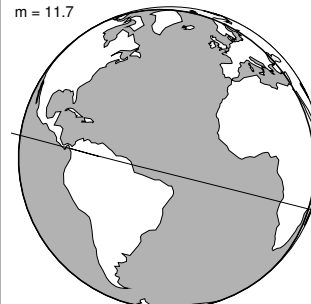
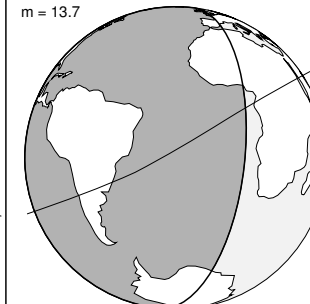
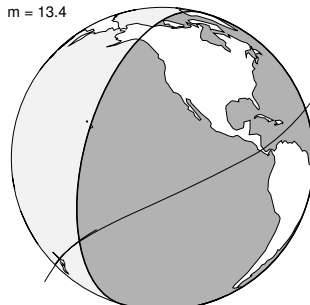
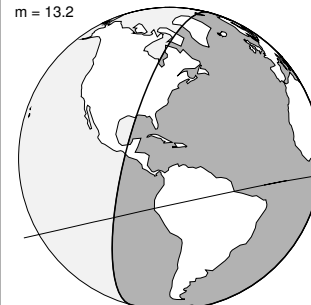
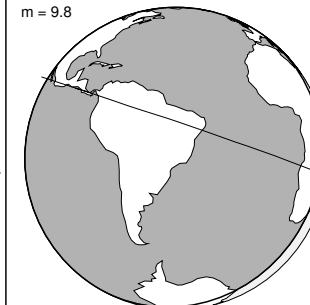
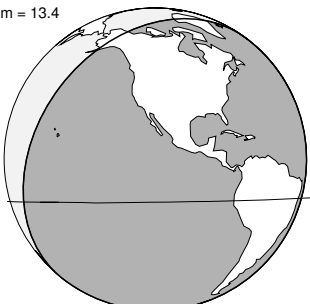
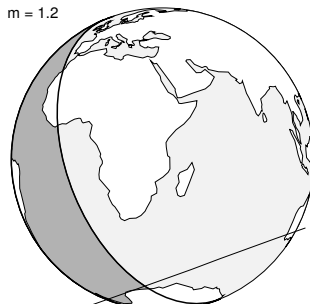
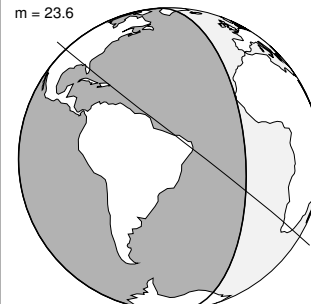
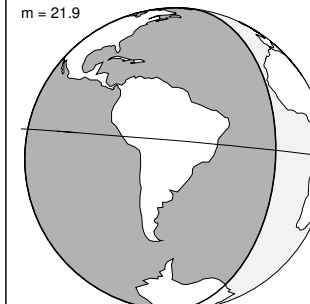
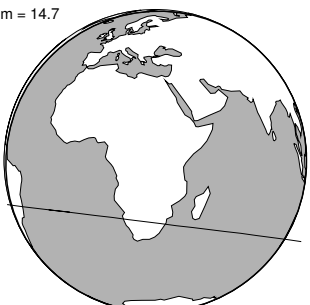
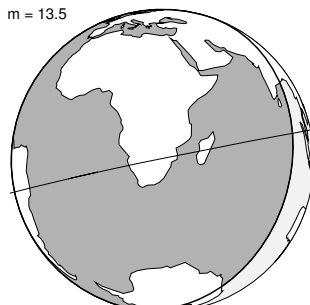
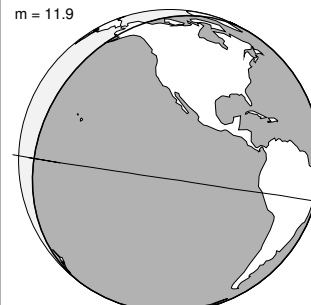
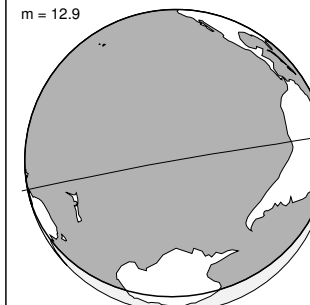
Occultations by major and minor planets – 2023

Region 2

2023 mar 15 23h53.1m A23_03117 468 Lina TYC 1879–00782–1 Diam = 71.7 m = 11.8 m = 15.7  Dur = 8.1s Dmag = 4.0 Sun: 102° Moon: 176°	2023 mar 16 22h 3.0m A23_03042 64 Angelina PPMX 5043708 Diam = 121.9 m = 12.2 m = 11.7  Dur = 10.8s Dmag = 0.5 Sun: 103° Moon: 168°	2023 mar 17 0h23.5m A23_03028 25 Phocaea TYC 4824–03241–1 Diam = 78.0 m = 10.8 m = 13.1  Dur = 7.5s Dmag = 2.4 Sun: 113° Moon: 149°	2023 mar 18 8h53.8m A23_03071 194 Prokne TYC 0883–01179–1 Diam = 174.0 m = 9.2 m = 12.0  Dur = 11.6s Dmag = 2.9 Sun: 161° Moon: 121°
2023 mar 18 9h46.0m B23_03006 174567 Varda UCAC4 440–072597 Diam = 871.0 m = 15.0 m = 20.2  Dur = 72.4s Dmag = 5.2 Sun: 90° Moon: 51°	2023 mar 20 5h10.5m A23_03018 11 Parthenope TYC 6236–00776–1 Diam = 162.0 m = 10.3 m = 11.1  Dur = 12.5s Dmag = 1.3 Sun: 101° Moon: 81°	2023 mar 22 2h53.7m A23_03049 96 Aegle TYC 5515–00643–1 Diam = 174.0 m = 10.4 m = 11.3  Dur = 15.1s Dmag = 1.3 Sun: 163° Moon: 160°	2023 mar 22 8h39.0m A23_03074 202 Chryseïs UCAC4 380–086683 Diam = 85.5 m = 11.8 m = 13.1  Dur = 7.0s Dmag = 1.6 Sun: 97° Moon: 106°
2023 mar 22 9h27.3m A23_03019 11 Parthenope UCAC4 362–082982 Diam = 162.0 m = 11.8 m = 11.1  Dur = 13.3s Dmag = 0.4 Sun: 102° Moon: 112°	2023 mar 23 6h14.4m A23_03025 17 Thetis Gaia 090–0103596 Diam = 93.2 m = 8.4 m = 10.9  Dur = 11.6s Dmag = 2.6 Sun: 158° Moon: 172°	2023 mar 23 6h17.3m A23_03024 17 Thetis HIP 66212 Diam = 93.2 m = 7.5 m = 10.9  Dur = 11.6s Dmag = 3.4 Sun: 158° Moon: 172°	2023 mar 24 9h47.9m B23_03004 95625 2002GX32 UCAC4 273–130594 Diam = 138.0 m = 14.9 m = 23.3  Dur = 18.1s Dmag = 8.4 Sun: 94° Moon: 129°
2023 mar 25 0h13.8m A23_03095 303 Josephina TYC 1904–01062–1 Diam = 103.0 m = 11.2 m = 14.2  Dur = 10.0s Dmag = 3.1 Sun: 102° Moon: 60°	2023 mar 25 23h49.0m A23_03140 624 Hektor TYC 2900–01654–1 Diam = 132.4 m = 10.5 m = 15.4  Dur = 6.2s Dmag = 4.9 Sun: 76° Moon: 26°	2023 mar 26 0h45.2m A23_03036 42 Isis PPMX 6223418 Diam = 107.0 m = 12.3 m = 12.1  Dur = 10.0s Dmag = 0.7 Sun: 145° Moon: 92°	2023 mar 28 0h40.0m A23_03130 570 Kythera TYC 0265–00842–1 Diam = 106.0 m = 11.6 m = 14.4  Dur = 7.9s Dmag = 2.8 Sun: 158° Moon: 81°

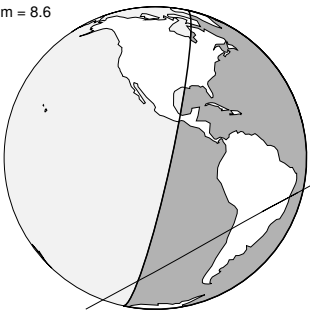
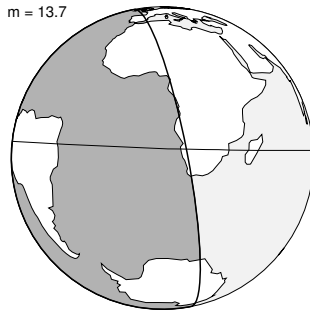
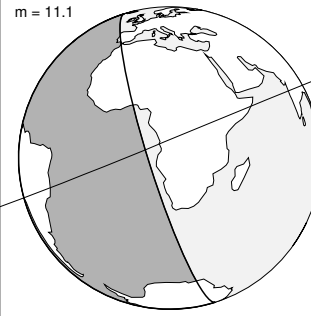
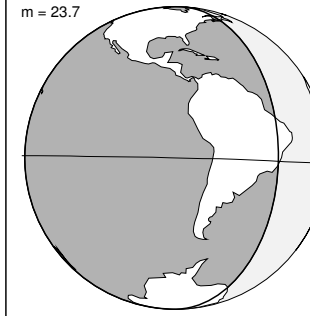
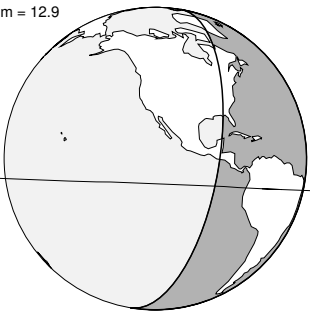
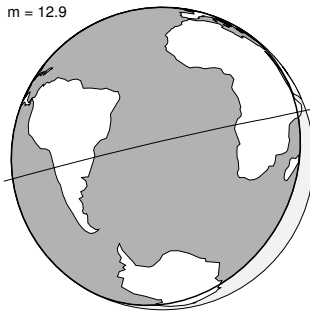
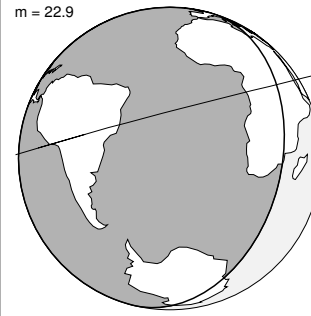
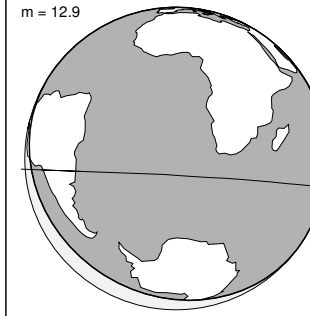
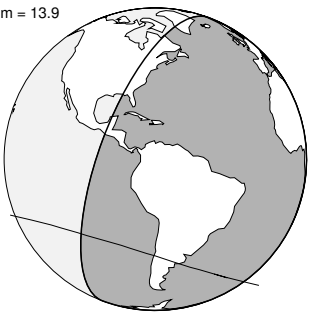
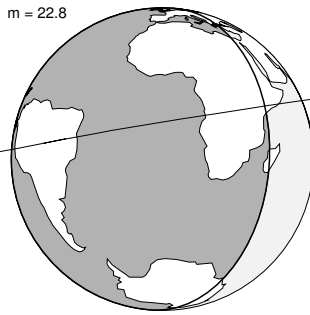
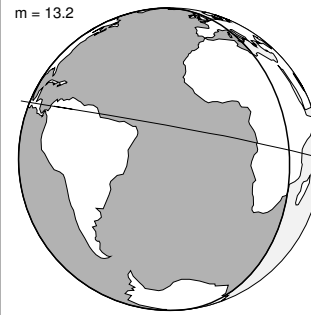
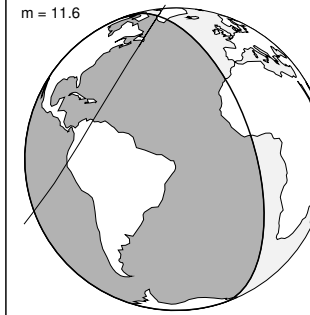
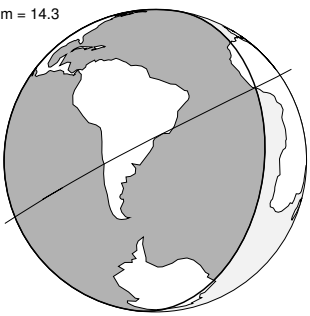
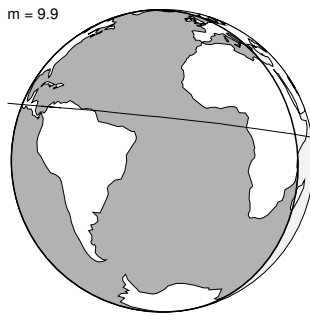
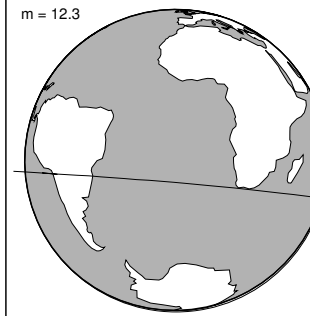
Occultations by major and minor planets – 2023

Region 2

2023 mar 28 5h52.2m A23_03065 171 Ophelia TYC 6277–00420–1 Diam = 121.0 m = 11.1 m = 14.1  Dur = 8.4s Dmag = 3.0 Sun: 92° Moon: 171°	2023 mar 30 7h12.3m A23_03189 183964 2004DJ71 TYC 0870–00540–1 Diam = 124.2 m = 11.1 m = 22.9  Dur = 5.4s Dmag = 11.8 Sun: 160° Moon: 61°	2023 apr 5 3h35.6m A23_04037 145 Adeona UCAC4 479–053263 Diam = 155.0 m = 12.2 m = 11.7  Dur = 14.6s Dmag = 0.5 Sun: 159° Moon: 27°	2023 apr 5 5h42.5m A23_04086 441 Bathilde UCAC4 325–099036 Diam = 73.2 m = 12.3 m = 13.7  Dur = 26.2s Dmag = 1.6 Sun: 116° Moon: 74°
2023 apr 9 0h29.0m A23_04011 12 Victoria UCAC5 528–028918 Diam = 117.0 m = 12.5 m = 12.7  Dur = 6.1s Dmag = 0.9 Sun: 80° Moon: 133°	2023 apr 12 4h37.2m A23_04036 141 Lumen UCAC4 494–053253 Diam = 135.0 m = 11.8 m = 13.4  Dur = 110.1s Dmag = 1.9 Sun: 121° Moon: 132°	2023 apr 15 0h22.0m A23_04024 59 Elpis TYC 0817–01570–1 Diam = 173.0 m = 10.5 m = 13.2  Dur = 21.5s Dmag = 2.7 Sun: 106° Moon: 170°	2023 apr 15 4h10.7m A23_04007 7 Iris TYC 6165–01305–1 Diam = 329.6 m = 11.1 m = 9.8  Dur = 25.6s Dmag = 0.3 Sun: 160° Moon: 94°
2023 apr 15 5h31.6m A23_04094 535 Montague TYC 0862–00080–1 Diam = 77.0 m = 9.7 m = 13.4  Dur = 12.4s Dmag = 3.7 Sun: 142° Moon: 151°	2023 apr 15 6h22.3m P23_04005 Saturn TYC 5807–01344–1 Diam = 107085.0 m = 8.6 m = 1.2  Dur = 4207.8s Dmag = 0.0 Sun: 50° Moon: 15°	2023 apr 15 6h59.1m A23_04132 2006HZ122 TYC 5667–01319–1 Diam = 125.9 m = 9.8 m = 23.6  Dur = 9.9s Dmag = 13.8 Sun: 120° Moon: 58°	2023 apr 19 7h 1.7m B23_04004 469506 2003FF128 UCAC4 339–086245 Diam = 176.2 m = 14.9 m = 21.9  Dur = 13.3s Dmag = 7.0 Sun: 131° Moon: 120°
2023 apr 19 21h30.4m A23_04111 859 Bouzaréah HIP 64498 Diam = 77.5 m = 7.6 m = 14.7  Dur = 5.2s Dmag = 7.1 Sun: 167° Moon: 171°	2023 apr 22 0h 5.8m A23_04039 152 Atala TYC 6783–02089–1 Diam = 89.9 m = 8.5 m = 13.5  Dur = 8.5s Dmag = 5.0 Sun: 147° Moon: 171°	2023 apr 22 6h 5.7m A23_04028 68 Leto TYC 0284–00355–1 Diam = 127.0 m = 11.5 m = 11.9  Dur = 10.8s Dmag = 0.9 Sun: 149° Moon: 124°	2023 apr 22 8h33.7m A23_04102 705 Erminia TYC 7804–00570–1 Diam = 139.0 m = 11.7 m = 12.9  Dur = 9.3s Dmag = 1.6 Sun: 153° Moon: 155°

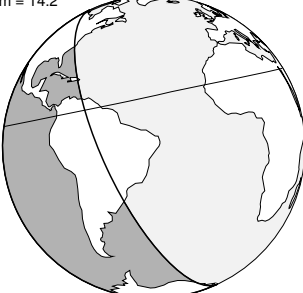
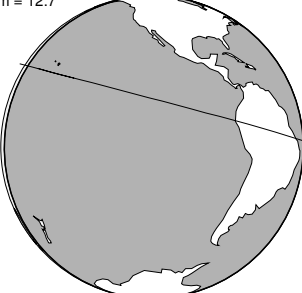
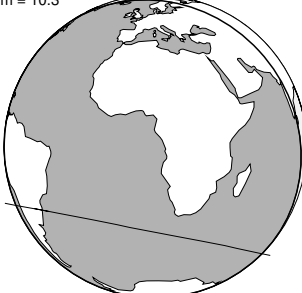
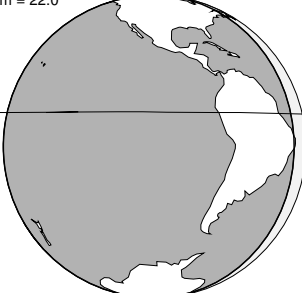
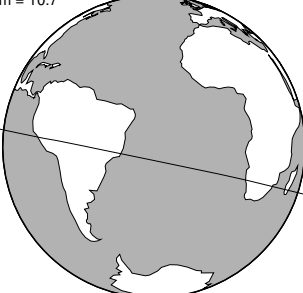
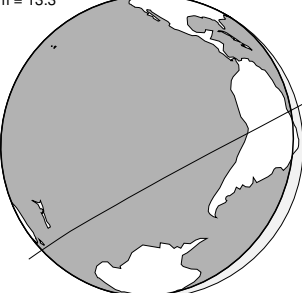
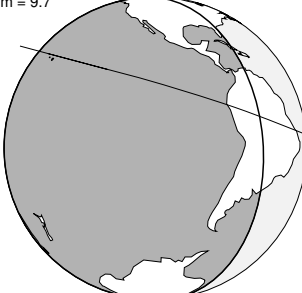
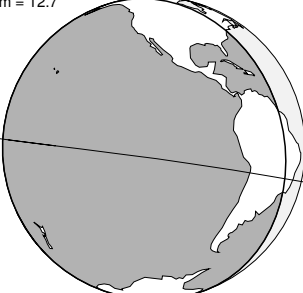
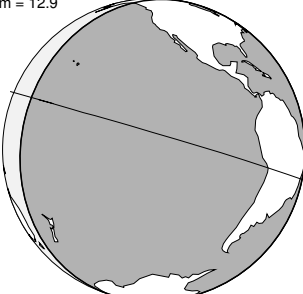
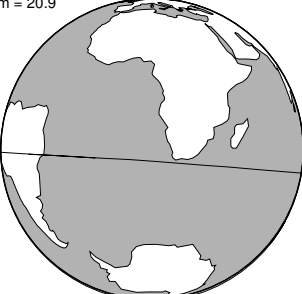
Occultations by major and minor planets – 2023

Region 2

2023 apr 23 0h36.3m A23_04006 2 Pallas TYC 0182–00388–1 Diam = 530.9 m = 11.2 m = 8.6  Dur = 18.7s Dmag = 0.1 Sun: 83° Moon: 53°	2023 apr 28 5h15.7m A23_04051 209 Dido UCAC4 308–268579 Diam = 149.0 m = 12.1 m = 13.7  Dur = 12.1s Dmag = 1.8 Sun: 99° Moon: 167°	2023 apr 30 5h39.0m A23_04009 10 Hygiea UCAC5 377–160955 Diam = 429.0 m = 12.4 m = 11.1  Dur = 20.7s Dmag = 0.3 Sun: 82° Moon: 162°	2023 apr 30 8h57.9m B23_04002 88267 2001KE76 UCAC4 335–118585 Diam = 151.4 m = 14.1 m = 23.7  Dur = 10.0s Dmag = 9.6 Sun: 132° Moon: 110°
2023 may 1 0h12.7m A23_05007 12 Victoria TYC 1344–01856–1 Diam = 117.0 m = 11.7 m = 12.9  Dur = 4.3s Dmag = 1.5 Sun: 65° Moon: 60°	2023 may 5 2h51.1m A23_05052 250 Bettina TYC 7348–00894–1 Diam = 85.5 m = 10.5 m = 12.9  Dur = 6.8s Dmag = 2.5 Sun: 151° Moon: 36°	2023 may 6 4h 5.9m A23_05122 135571 2002GG32 TYC 7384–00023–1 Diam = 151.4 m = 11.6 m = 22.9  Dur = 8.9s Dmag = 11.3 Sun: 137° Moon: 37°	2023 may 6 22h59.4m A23_05082 705 Erminia TYC 7790–00105–1 Diam = 139.0 m = 11.5 m = 12.9  Dur = 9.8s Dmag = 1.6 Sun: 154° Moon: 30°
2023 may 8 0h21.6m A23_05049 212 Medea UCAC4 476–048496 Diam = 140.0 m = 11.4 m = 13.9  Dur = 30.8s Dmag = 2.6 Sun: 111° Moon: 97°	2023 may 8 3h19.1m B23_05006 119067 2001KP76 UCAC4 306–192637 Diam = 199.5 m = 14.6 m = 22.8  Dur = 12.5s Dmag = 8.1 Sun: 134° Moon: 14°	2023 may 8 4h 5.0m A23_05042 206 Hersilia TYC 6252–02422–1 Diam = 76.6 m = 10.5 m = 13.2  Dur = 12.0s Dmag = 2.7 Sun: 142° Moon: 11°	2023 may 11 6h 9.4m A23_05065 393 Lampetia TYC 5136–00926–1 Diam = 106.0 m = 11.6 m = 11.6  Dur = 9.2s Dmag = 0.7 Sun: 121° Moon: 28°
2023 may 14 6h14.0m A23_05030 109 Felicitas TYC 7398–01735–1 Diam = 91.0 m = 9.6 m = 14.3  Dur = 11.3s Dmag = 4.7 Sun: 135° Moon: 68°	2023 may 15 3h27.2m A23_05004 11 Parthenope UCAC4 368–086185 Diam = 162.0 m = 11.7 m = 9.9  Dur = 24.2s Dmag = 0.2 Sun: 153° Moon: 98°	2023 may 16 7h39.2m A23_05023 52 Europa PPMX 11659779 Diam = 278.0 m = 11.8 m = 11.7  Dur = 37.3s Dmag = 0.7 Sun: 139° Moon: 98°	2023 may 17 0h53.7m A23_05027 75 Eurydike TYC 6786–01543–1 Diam = 58.3 m = 10.0 m = 12.3  Dur = 5.3s Dmag = 2.4 Sun: 170° Moon: 141°

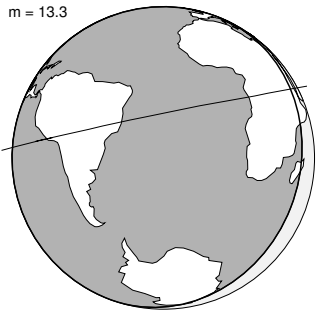
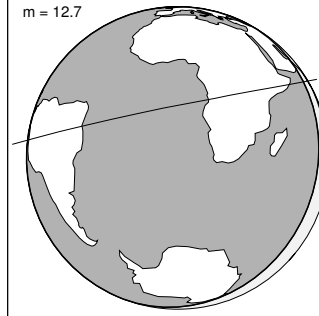
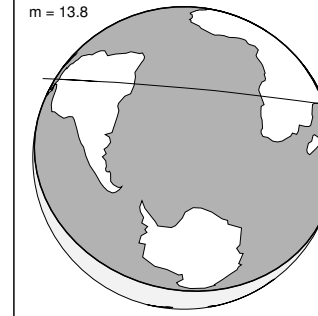
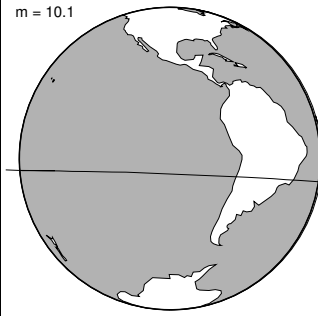
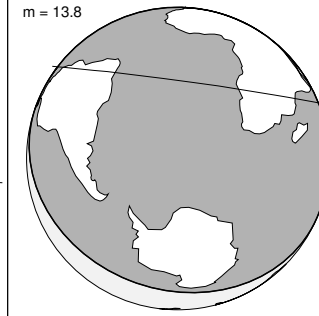
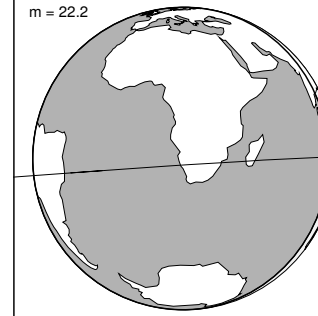
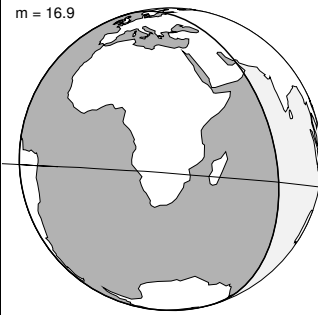
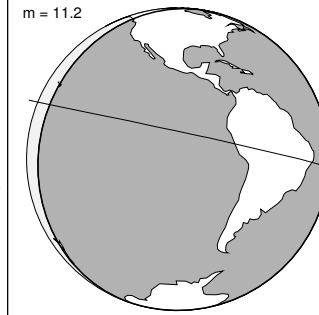
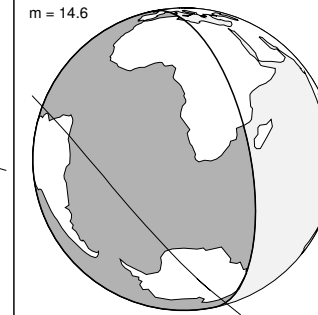
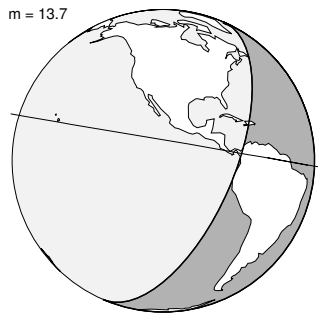
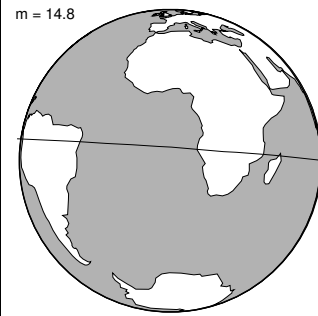
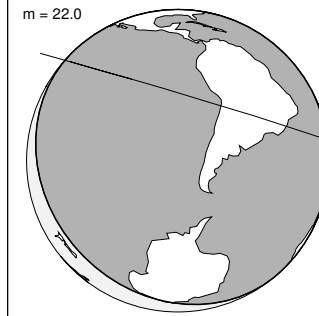
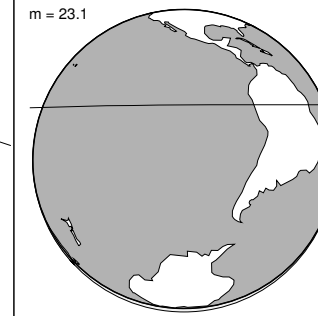
Occultations by major and minor planets – 2023

Region 2

2023 may 17 6h50.9m A23_05124 523705 2014HE200 UCAC4 359–071526 Diam = 208.9 m = 10.8 m = 21.9  Dur = 8.8s Dmag = 11.2 Sun: 178° Moon: 152°	2023 may 18 4h53.7m A23_05033 137 Meliboea UCAC4 414–059524 Diam = 150.0 m = 11.7 m = 12.1  Dur = 12.3s Dmag = 1.0 Sun: 165° Moon: 168°	2023 may 19 10h 5.8m A23_05063 381 Myrrha HIP 115457 Diam = 136.5 m = 7.8 m = 14.2  Dur = 5.1s Dmag = 6.4 Sun: 70° Moon: 67°	2023 may 21 6h42.2m A23_05011 33 Polyhymnia UCAC4 357–069923 Diam = 81.3 m = 12.1 m = 12.7  Dur = 6.1s Dmag = 1.1 Sun: 167° Moon: 148°
2023 may 27 0h25.4m A23_05016 39 Laetitia UCAC4 414–068599 Diam = 159.0 m = 11.1 m = 10.3  Dur = 14.2s Dmag = 0.4 Sun: 158° Moon: 109°	2023 may 27 8h33.6m A23_05125 2005LB54 UCAC4 336–117034 Diam = 288.4 m = 12.5 m = 22.0  Dur = 12.9s Dmag = 9.6 Sun: 157° Moon: 116°	2023 may 29 1h37.1m A23_05010 19 Fortuna UCAC5 352–074273 Diam = 149.0 m = 12.4 m = 10.7  Dur = 11.7s Dmag = 0.2 Sun: 176° Moon: 71°	2023 may 29 8h57.7m A23_05087 886 Washingtonia UCAC4 285–137650 Diam = 93.3 m = 11.7 m = 13.3  Dur = 7.5s Dmag = 1.8 Sun: 156° Moon: 92°
2023 may 29 10h29.5m A23_05009 15 Eunomia TYC 6893–00021–1 Diam = 272.0 m = 9.8 m = 9.7  Dur = 63.8s Dmag = 0.7 Sun: 135° Moon: 115°	2023 may 30 8h 0.3m A23_05024 54 Alexandra UCAC4 306–279491 Diam = 171.0 m = 12.2 m = 11.3  Dur = 47.0s Dmag = 0.4 Sun: 124° Moon: 115°	2023 may 30 9h36.4m A23_05013 34 Circe UCAC4 375–130426 Diam = 118.0 m = 12.0 m = 12.7  Dur = 13.6s Dmag = 1.2 Sun: 149° Moon: 89°	2023 jun 2 8h22.9m A23_06042 171 Ophelia UCAC5 338–124275 Diam = 121.0 m = 12.4 m = 13.2  Dur = 10.9s Dmag = 1.2 Sun: 156° Moon: 47°
2023 jun 3 7h29.6m A23_06013 34 Circe UCAC4 376–121879 Diam = 118.0 m = 12.2 m = 12.7  Dur = 12.4s Dmag = 1.0 Sun: 153° Moon: 38°	2023 jun 3 8h28.8m A23_06048 203 Pompeja UCAC4 313–236395 Diam = 120.0 m = 12.4 m = 13.4  Dur = 14.2s Dmag = 1.4 Sun: 150° Moon: 40°	2023 jun 4 6h10.1m A23_06012 33 Polyhymnia HIP 72134 Diam = 81.3 m = 8.1 m = 12.9  Dur = 7.5s Dmag = 4.8 Sun: 151° Moon: 30°	2023 jun 4 23h28.3m B23_06001 47932 2000GN171 UCAC4 294–104836 Diam = 239.9 m = 13.1 m = 20.9  Dur = 10.3s Dmag = 7.8 Sun: 171° Moon: 10°

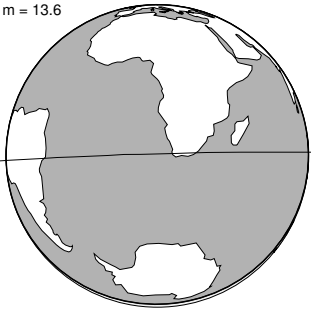
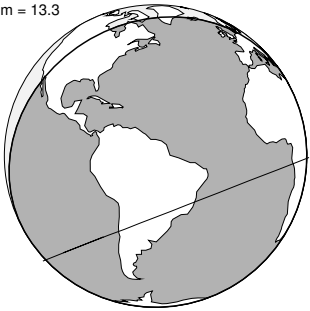
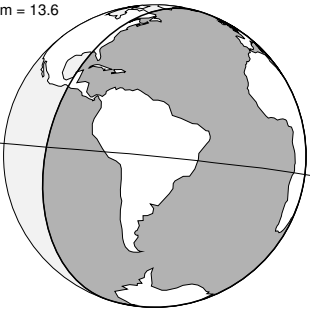
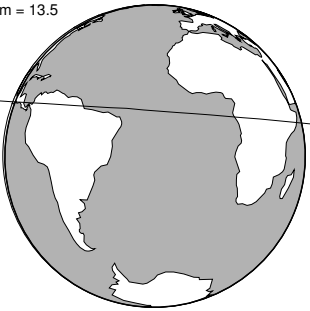
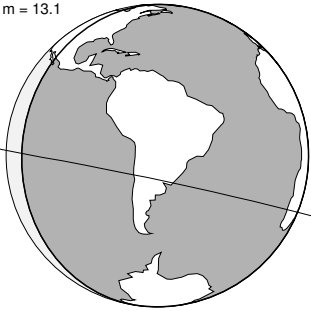
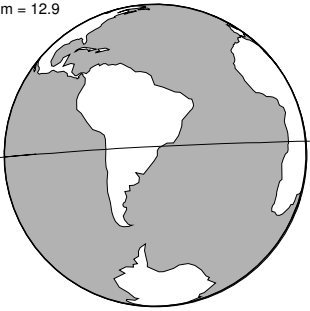
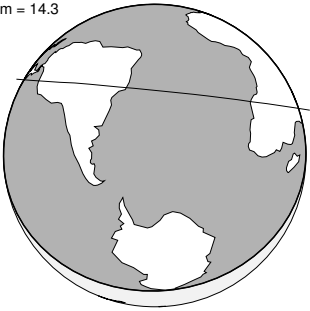
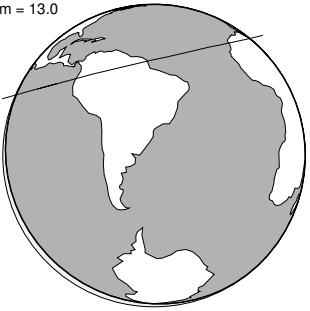
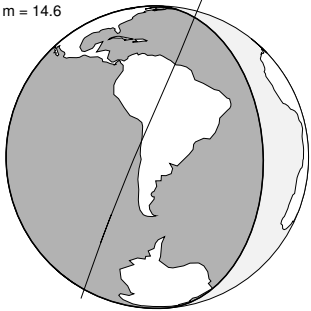
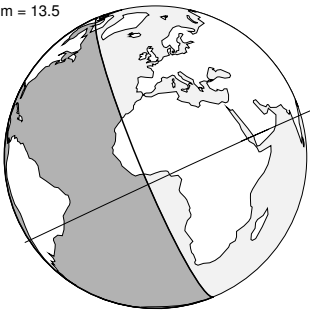
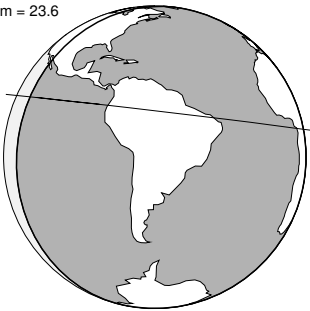
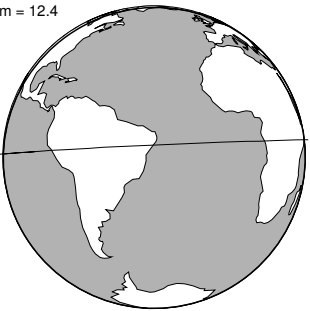
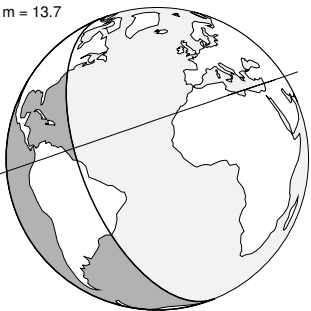
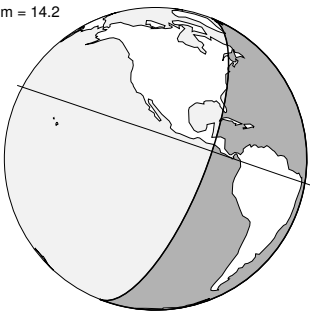
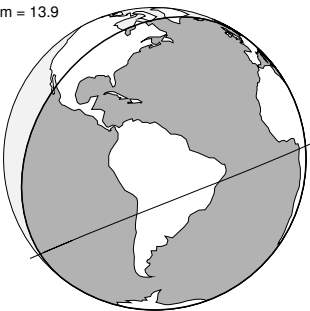
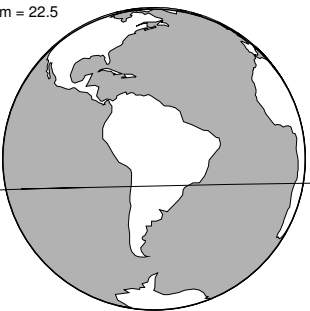
Occultations by major and minor planets – 2023

Region 2

2023 jun 6 3h12.5m A23_06062 356 Liguria UCAC4 278–203730 Diam = 135.0 m = 11.9 m = 13.3  Dur = 10.5s Dmag = 1.6 Sun: 154° Moon: 8°	2023 jun 6 9h 8.0m A23_06021 79 Eurynome TYC 5750–02144–1 Diam = 68.0 m = 11.0 m = 12.1  Dur = 17.2s Dmag = 1.4 Sun: 135° Moon: 18°	2023 jun 7 1h23.8m A23_06028 94 Aurora UCAC4 279–190454 Diam = 212.0 m = 12.1 m = 12.7  Dur = 17.5s Dmag = 1.1 Sun: 156° Moon: 20°	2023 jun 8 0h41.0m A23_06082 501 Urhixidur UCAC4 193–135585 Diam = 80.1 m = 11.9 m = 13.8  Dur = 6.2s Dmag = 2.1 Sun: 150° Moon: 58°
2023 jun 9 5h29.1m A23_06005 19 Fortuna UCAC4 355–076245 Diam = 149.0 m = 11.3 m = 11.0  Dur = 12.7s Dmag = 0.6 Sun: 163° Moon: 85°	2023 jun 9 7h17.5m A23_06007 20 Massalia UCAC5 338–102564 Diam = 151.0 m = 12.4 m = 10.1  Dur = 12.3s Dmag = 0.1 Sun: 171° Moon: 62°	2023 jun 10 0h 1.6m A23_06081 501 Urhixidur TYC 8324–01466–1 Diam = 80.1 m = 10.6 m = 13.8  Dur = 6.3s Dmag = 3.3 Sun: 150° Moon: 83°	2023 jun 10 0h 4.5m B23_06005 119069 2001KN77 UCAC4 325–161338 Diam = 158.5 m = 14.7 m = 22.2  Dur = 7.1s Dmag = 7.5 Sun: 163° Moon: 62°
2023 jun 10 3h51.1m A23_06004 19 Fortuna UCAC5 355–073107 Diam = 149.0 m = 12.5 m = 11.1  Dur = 12.9s Dmag = 0.3 Sun: 162° Moon: 99°	2023 jun 11 1h27.7m A23_06142 4708 Polydorus TYC 6330–00253–1 Diam = 52.5 m = 10.9 m = 16.9  Dur = 7.1s Dmag = 6.0 Sun: 133° Moon: 47°	2023 jun 15 5h 2.7m A23_06006 19 Fortuna UCAC4 357–074766 Diam = 149.0 m = 11.9 m = 11.2  Dur = 14.0s Dmag = 0.4 Sun: 156° Moon: 168°	2023 jun 17 4h 3.0m A23_06097 795 Fini TYC 7500–00826–1 Diam = 78.7 m = 11.5 m = 14.6  Dur = 12.9s Dmag = 3.1 Sun: 115° Moon: 106°
2023 jun 17 23h20.9m A23_06023 85 Io TYC 0243–01485–1 Diam = 178.0 m = 11.7 m = 13.7  Dur = 6.3s Dmag = 2.1 Sun: 61° Moon: 65°	2023 jun 18 0h25.0m A23_06116 1057 Wanda TYC 6276–00468–1 Diam = 49.1 m = 11.8 m = 14.8  Dur = 4.1s Dmag = 3.2 Sun: 173° Moon: 170°	2023 jun 19 4h25.9m B23_06012 2011HO60 UCAC4 230–107628 Diam = 239.9 m = 13.5 m = 22.0  Dur = 10.8s Dmag = 8.5 Sun: 152° Moon: 148°	2023 jun 19 7h 4.5m B23_06002 95625 2002GX32 Gaia 055–0199889 Diam = 138.0 m = 14.3 m = 23.1  Dur = 5.8s Dmag = 8.8 Sun: 167° Moon: 165°

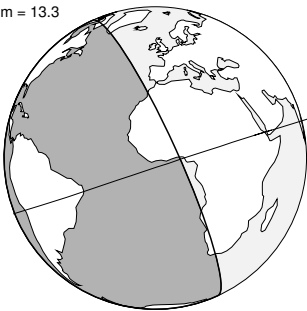
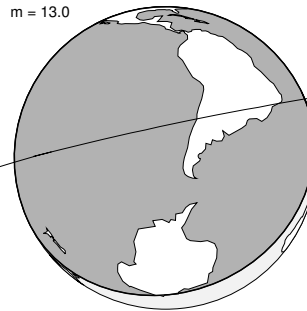
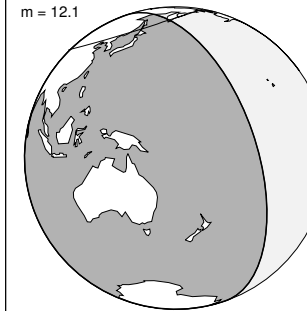
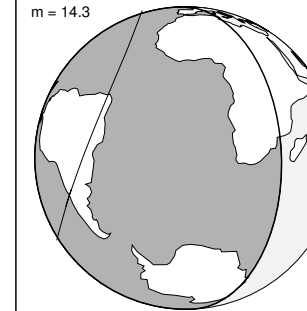
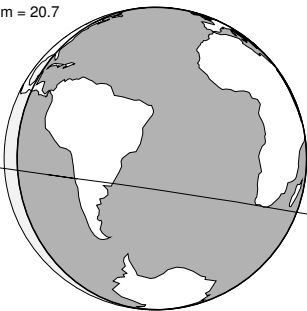
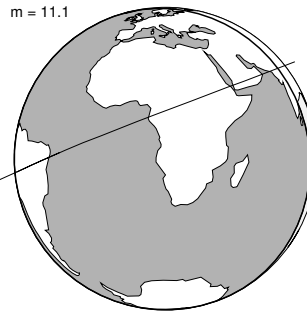
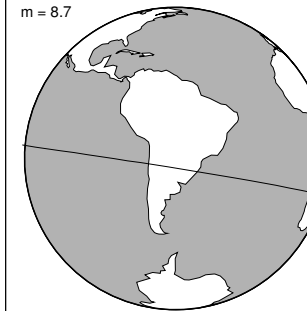
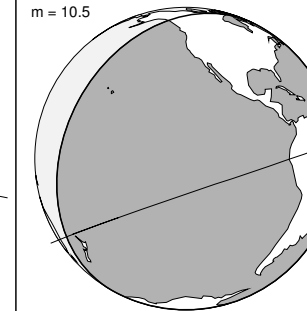
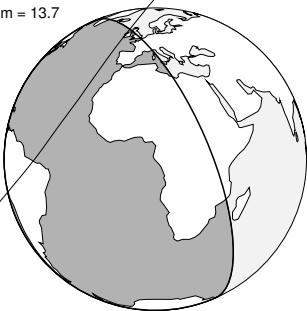
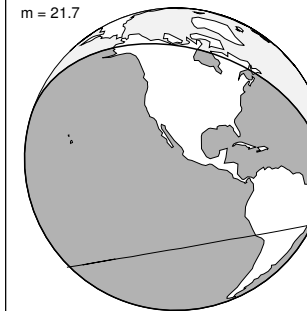
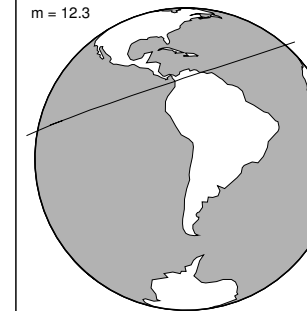
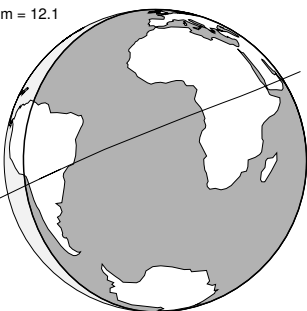
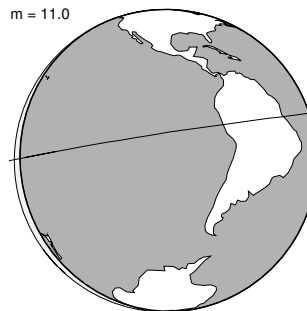
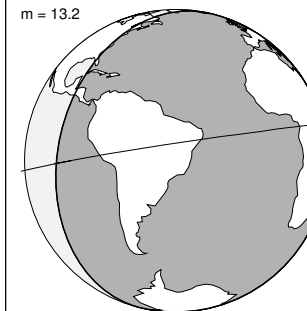
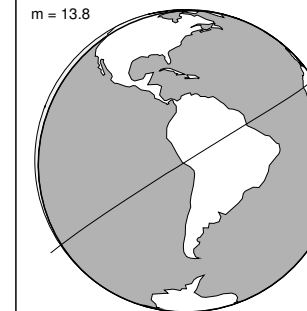
Occultations by major and minor planets – 2023

Region 2

2023 jun 19 23h22.5m A23_06032 109 Felicitas UCAC4 277-144122 Diam = 91.0 m = 11.9 m = 13.6  Dur = 6.0s Dmag = 1.9 Sun: 168° Moon: 161°	2023 jun 20 2h39.5m A23_06092 679 Pax UCAC4 449-063487 Diam = 65.5 m = 11.5 m = 13.3  Dur = 4.3s Dmag = 2.0 Sun: 152° Moon: 133°	2023 jun 21 0h39.7m A23_06056 245 Vera UCAC4 373-070353 Diam = 84.8 m = 12.4 m = 13.6  Dur = 11.3s Dmag = 1.5 Sun: 135° Moon: 103°	2023 jun 22 0h49.6m A23_06020 76 Freia UCAC5 347-090283 Diam = 190.0 m = 12.4 m = 13.5  Dur = 12.5s Dmag = 1.4 Sun: 169° Moon: 127°
2023 jun 22 2h11.7m A23_06027 91 Aegina HIP 78809 Diam = 114.0 m = 7.6 m = 13.1  Dur = 11.6s Dmag = 5.5 Sun: 153° Moon: 110°	2023 jun 24 3h44.1m A23_06050 203 Pompeja TYC 6865-01508-1 Diam = 120.0 m = 9.2 m = 12.9  Dur = 10.1s Dmag = 3.8 Sun: 172° Moon: 119°	2023 jun 25 2h10.6m A23_06095 733 Mocia TYC 8366-00307-1 Diam = 92.0 m = 10.8 m = 14.3  Dur = 6.8s Dmag = 3.5 Sun: 153° Moon: 105°	2023 jun 25 2h29.0m A23_06107 886 Washington TYC 7383-00449-1 Diam = 93.3 m = 11.6 m = 13.0  Dur = 7.0s Dmag = 1.7 Sun: 164° Moon: 94°
2023 jun 25 7h43.3m A23_06084 593 Titania PPMX 13862904 Diam = 78.2 m = 10.7 m = 14.6  Dur = 7.5s Dmag = 3.9 Sun: 134° Moon: 142°	2023 jun 27 6h12.2m A23_06060 345 Tercidina HIP 2479 Diam = 100.0 m = 7.1 m = 13.5  Dur = 4.7s Dmag = 6.4 Sun: 83° Moon: 170°	2023 jun 28 2h25.1m B23_06008 2000JF81 UCAC4 348-084223 Diam = 151.4 m = 13.6 m = 23.6  Dur = 6.9s Dmag = 10.0 Sun: 155° Moon: 45°	2023 jun 29 2h 6.1m A23_06016 34 Circe TYC 5688-00927-1 Diam = 118.0 m = 12.0 m = 12.4  Dur = 10.0s Dmag = 1.0 Sun: 170° Moon: 54°
2023 jun 29 9h33.7m A23_06075 481 Emita TYC 0632-00585-1 Diam = 116.0 m = 11.8 m = 13.7  Dur = 3.4s Dmag = 2.1 Sun: 59° Moon: 171°	2023 jun 30 0h19.2m A23_06077 489 Comacina TYC 0855-00478-1 Diam = 144.0 m = 10.6 m = 14.2  Dur = 5.5s Dmag = 3.6 Sun: 70° Moon: 63°	2023 jun 30 2h12.4m A23_06064 357 Ninina UCAC4 434-065244 Diam = 110.0 m = 11.4 m = 13.9  Dur = 9.8s Dmag = 2.7 Sun: 144° Moon: 24°	2023 jul 2 4h 7.1m B23_07007 306792 2001KQ77 UCAC4 378-132589 Diam = 151.4 m = 13.0 m = 22.5  Dur = 6.3s Dmag = 9.5 Sun: 171° Moon: 22°

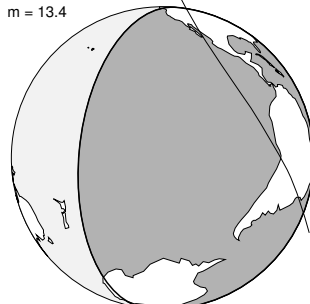
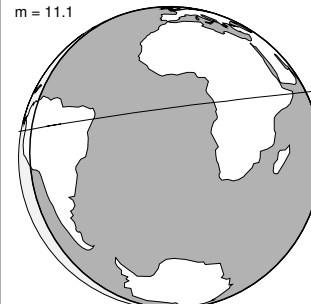
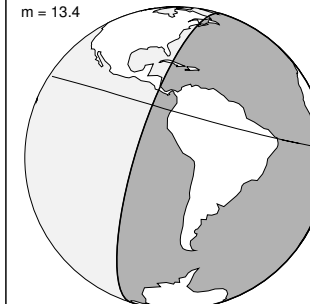
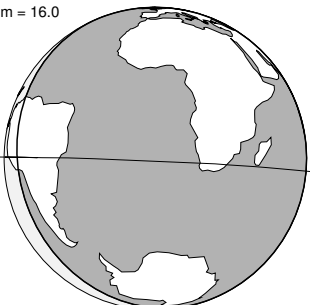
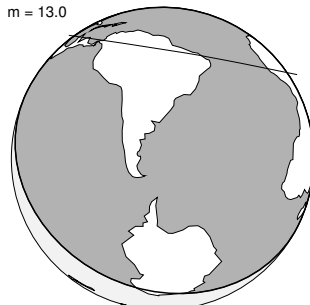
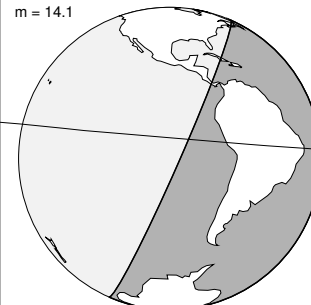
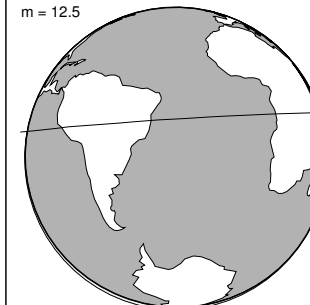
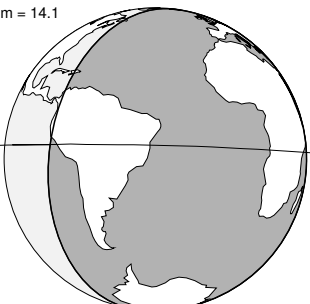
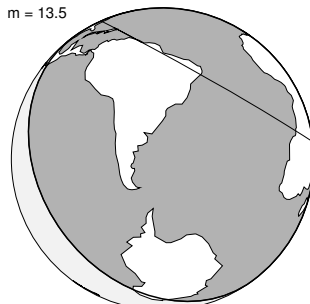
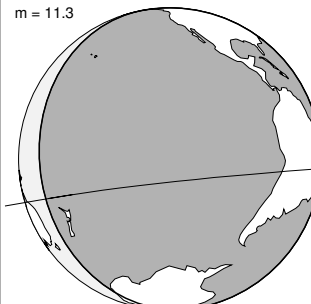
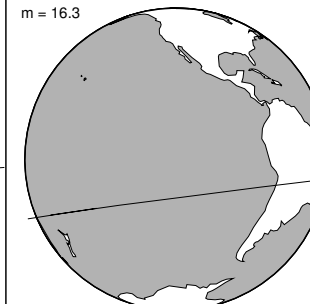
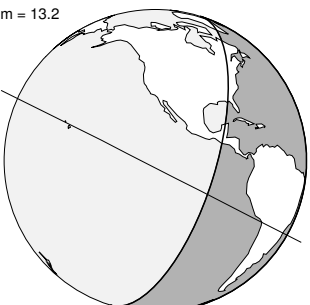
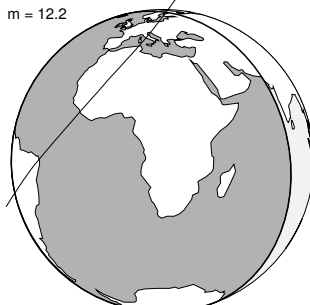
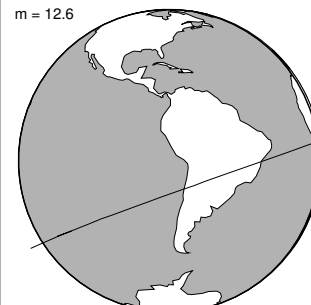
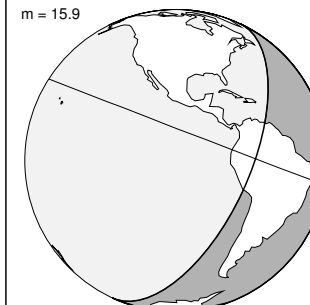
Occultations by major and minor planets – 2023

Region 2

2023 jul 2 5h41.4m A23_07055 238 Hypatia Diam = 156.0 m = 13.3  Dur = 12.1s Sun: 98° Dmag = 2.8 Moon: 99°	2023 jul 2 6h33.3m A23_07015 36 Atalante Diam = 109.0 m = 13.0  Dur = 8.2s Sun: 152° Dmag = 1.0 Moon: 32°	2023 jul 2 17h19.4m A23_07020 47 Aglaja Diam = 137.0 m = 12.1  Dur = 44.8s Sun: 122° Dmag = 0.9 Moon: 68°	2023 jul 3 4h14.2m A23_07092 795 Fini Diam = 78.7 m = 14.3  Dur = 13.2s Sun: 129° Dmag = 2.0 Moon: 52°
2023 jul 6 0h36.7m B23_07006 278361 2007JJ43 Diam = 524.8 m = 20.7  Dur = 23.9s Sun: 156° Dmag = 7.2 Moon: 59°	2023 jul 7 0h16.5m A23_07036 103 Hera Diam = 95.2 m = 11.1  Dur = 11.0s Sun: 161° Dmag = 0.7 Moon: 32°	2023 jul 7 4h 7.4m A23_07003 15 Eunomia Diam = 272.0 m = 8.7  Dur = 21.8s Sun: 177° Dmag = 0.1 Moon: 51°	2023 jul 7 6h 5.4m A23_07017 39 Laetitia Diam = 159.0 m = 10.5  Dur = 18.5s Sun: 143° Dmag = 0.3 Moon: 87°
2023 jul 8 3h57.9m A23_07080 545 Messalina Diam = 115.0 m = 13.7  Dur = 14.7s Sun: 111° Dmag = 5.5 Moon: 5°	2023 jul 8 5h21.5m A23_07033 98 Ianthe Diam = 109.0 m = 13.2  Dur = 8.5s Sun: 156° Dmag = 3.8 Moon: 74°	2023 jul 10 8h 7.2m B23_07011 523700 2014GM54 Diam = 158.5 m = 21.7  Dur = 6.9s Sun: 137° Dmag = 8.9 Moon: 77°	2023 jul 12 4h46.9m A23_07067 380 Fiducia Diam = 76.3 m = 12.3  Dur = 7.7s Sun: 176° Dmag = 1.8 Moon: 119°
2023 jul 12 22h22.5m A23_07039 146 Lucina Diam = 137.0 m = 12.1  Dur = 16.8s Sun: 150° Dmag = 1.0 Moon: 154°	2023 jul 13 5h37.5m A23_07043 196 Philomela Diam = 146.0 m = 11.0  Dur = 12.9s Sun: 163° Dmag = 1.7 Moon: 144°	2023 jul 14 0h23.1m A23_07049 206 Hersilia Diam = 76.6 m = 13.2  Dur = 12.2s Sun: 141° Dmag = 1.7 Moon: 171°	2023 jul 16 4h 7.6m A23_07094 856 Backlunda Diam = 52.0 m = 13.8  Dur = 4.7s Sun: 165° Dmag = 4.4 Moon: 166°

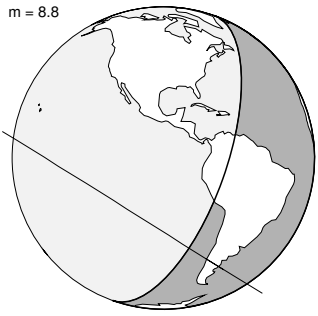
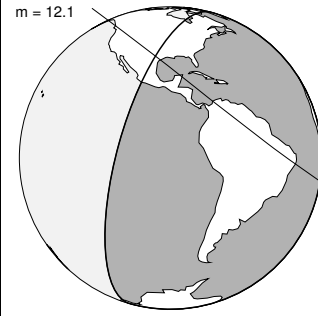
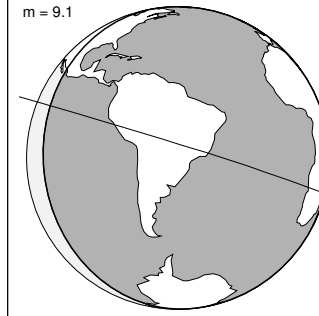
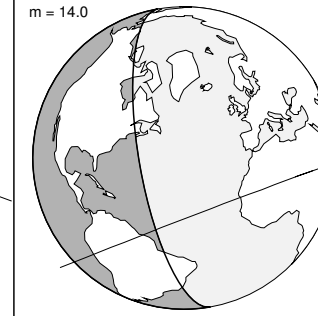
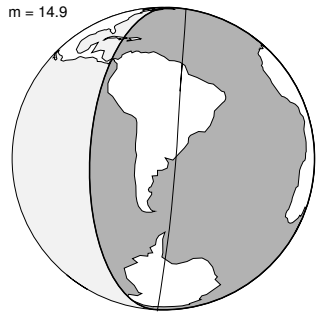
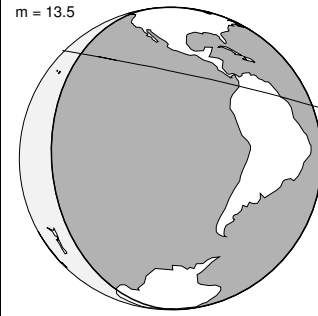
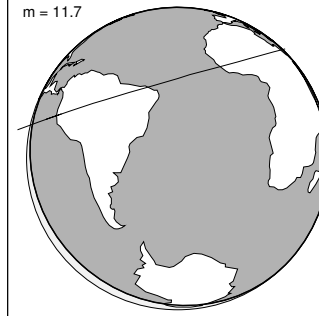
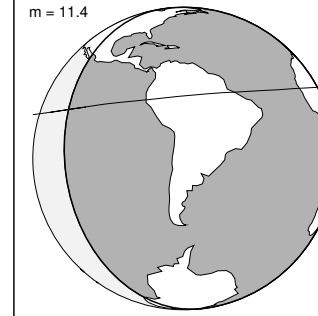
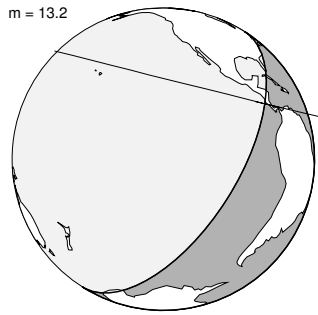
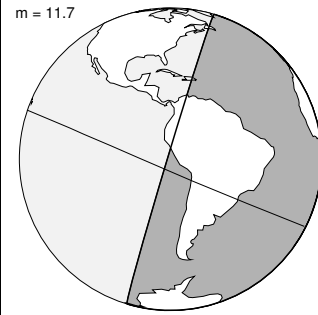
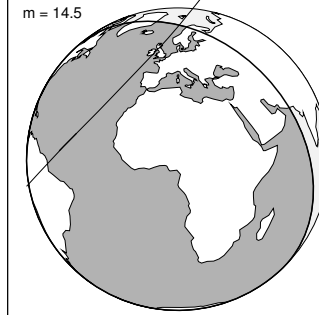
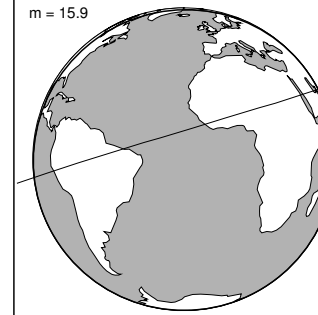
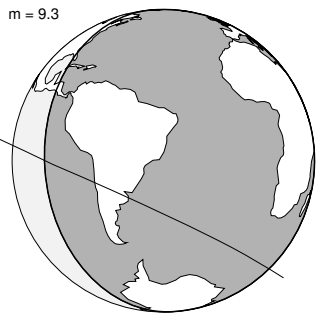
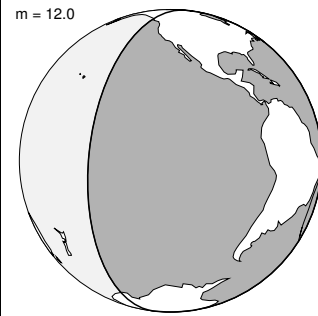
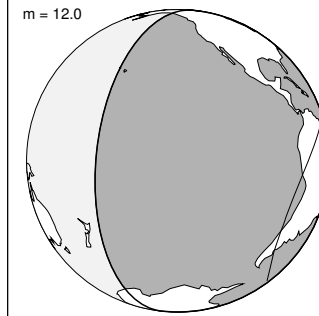
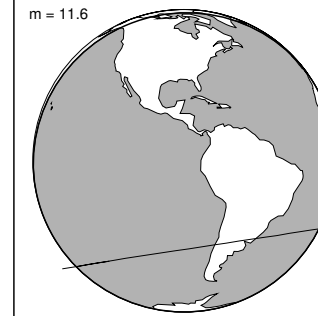
Occultations by major and minor planets – 2023

Region 2

2023 jul 18 3h15.4m A23_07030 94 Aurora UCAC4 278–146153 Diam = 212.0 m = 11.6 m = 12.8  Dur = 18.8s Dmag = 1.4 Sun: 151° Moon: 150°	2023 jul 18 4h19.9m A23_07057 250 Bettina UCAC4 291–083221 Diam = 85.5 m = 12.1 m = 13.4  Dur = 27.9s Dmag = 1.6 Sun: 123° Moon: 120°	2023 jul 18 22h50.2m A23_07044 196 Philomela UCAC4 308–203192 Diam = 146.0 m = 12.2 m = 11.1  Dur = 14.2s Dmag = 0.3 Sun: 157° Moon: 145°	2023 jul 19 23h58.3m A23_07008 33 Polyhymnia TYC 6157–01534–1 Diam = 81.3 m = 10.3 m = 13.4  Dur = 13.0s Dmag = 3.2 Sun: 105° Moon: 81°
2023 jul 20 22h33.3m A23_07127 1961 Dufour TYC 7396–00196–1 Diam = 55.5 m = 11.8 m = 16.0  Dur = 4.6s Dmag = 4.2 Sun: 154° Moon: 122°	2023 jul 21 2h45.1m A23_07016 36 Atalante UCAC4 207–173752 Diam = 109.0 m = 12.4 m = 13.0  Dur = 8.2s Dmag = 1.0 Sun: 149° Moon: 125°	2023 jul 21 23h48.2m A23_07089 762 Pulcova UCAC4 340–066911 Diam = 142.0 m = 12.0 m = 14.1  Dur = 7.3s Dmag = 2.3 Sun: 86° Moon: 43°	2023 jul 22 1h44.9m A23_07050 209 Dido UCAC4 294–219189 Diam = 149.0 m = 12.3 m = 12.5  Dur = 12.7s Dmag = 0.9 Sun: 168° Moon: 127°
2023 jul 24 23h19.9m A23_07023 76 Freia UCAC4 349–085775 Diam = 190.0 m = 12.5 m = 14.1  Dur = 27.3s Dmag = 1.8 Sun: 134° Moon: 56°	2023 jul 26 1h29.3m A23_07034 98 Ianne TYC 7913–00924–1 Diam = 109.0 m = 11.8 m = 13.5  Dur = 9.9s Dmag = 1.9 Sun: 145° Moon: 62°	2023 jul 26 6h13.8m A23_07045 196 Philomela UCAC4 308–186448 Diam = 146.0 m = 11.8 m = 11.3  Dur = 17.3s Dmag = 0.5 Sun: 149° Moon: 56°	2023 jul 26 7h42.4m A23_07137 4708 Polydorus UCAC4 367–173701 Diam = 52.5 m = 10.5 m = 16.3  Dur = 3.2s Dmag = 5.8 Sun: 176° Moon: 84°
2023 jul 28 0h31.5m A23_07042 194 Prokne TYC 0883–00547–1 Diam = 174.0 m = 11.1 m = 13.2  Dur = 6.6s Dmag = 2.2 Sun: 66° Moon: 52°	2023 jul 28 1h 1.0m A23_07051 213 Lilaea TYC 5818–00333–1 Diam = 84.6 m = 11.4 m = 12.2  Dur = 13.5s Dmag = 1.3 Sun: 146° Moon: 97°	2023 jul 28 5h54.8m A23_07056 240 Vanadis UCAC4 363–196461 Diam = 108.0 m = 11.7 m = 12.6  Dur = 9.6s Dmag = 1.3 Sun: 170° Moon: 71°	2023 jul 28 22h43.1m A23_07079 517 Edith HIP 60006 Diam = 95.0 m = 8.5 m = 15.9  Dur = 3.3s Dmag = 7.4 Sun: 60° Moon: 66°

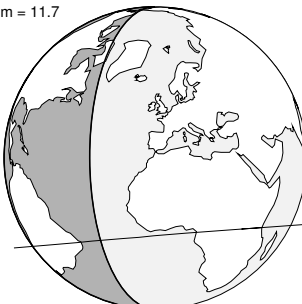
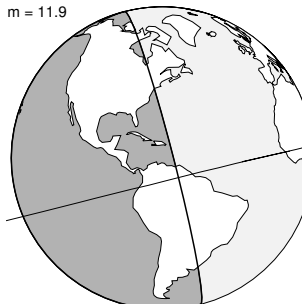
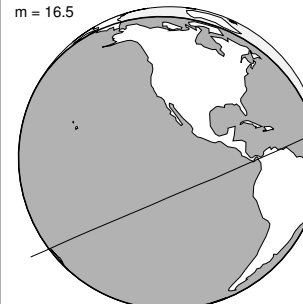
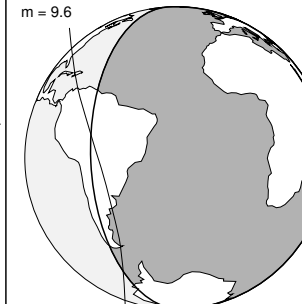
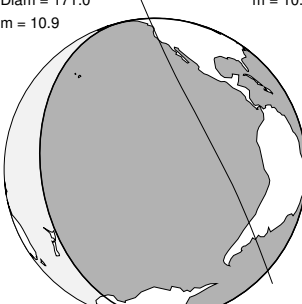
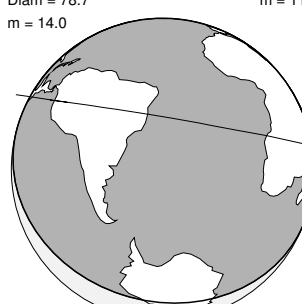
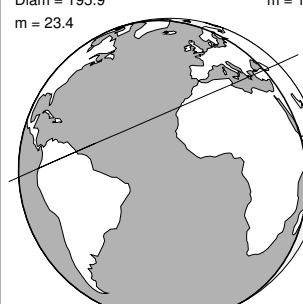
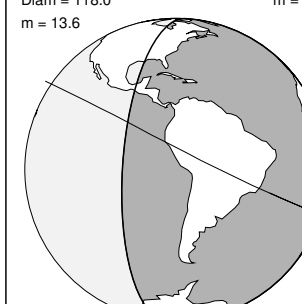
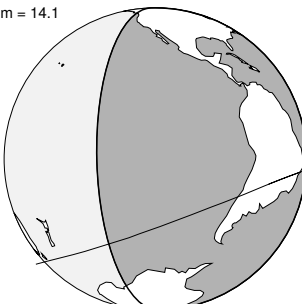
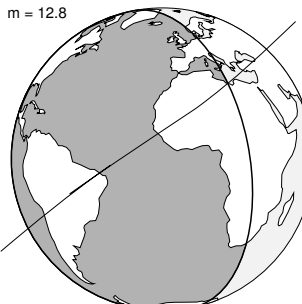
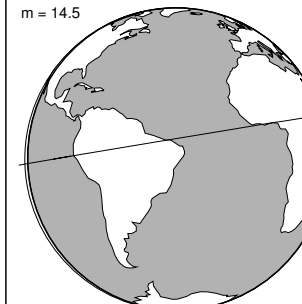
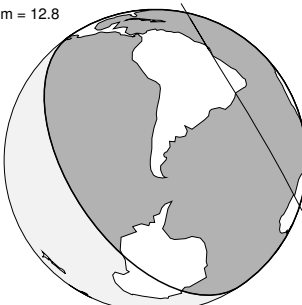
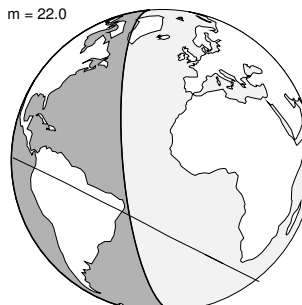
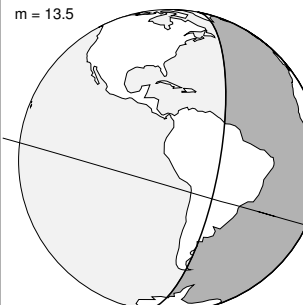
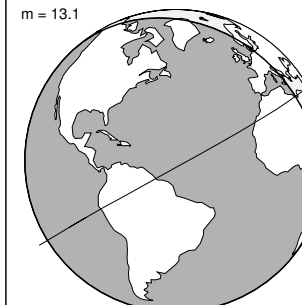
Occultations by major and minor planets – 2023

Region 2

2023 jul 29 22h48.5m A23_07001 1 Ceres UCAC4 461-051377 Diam = 952.5 m = 11.9  Dur = 30.9s Dmag = 0.1 Sun: 65° Moon: 76°	2023 jul 30 1h26.3m A23_07019 45 Eugenia UCAC4 391-065392 Diam = 214.0 m = 12.1  Dur = 24.4s Dmag = 1.1 Sun: 110° Moon: 33°	2023 jul 31 1h46.1m A23_07005 15 Eunomia UCAC4 331-180177 Diam = 272.0 m = 12.1 m = 9.1  Dur = 27.2s Dmag = 0.1 Sun: 152° Moon: 5°	2023 jul 31 9h16.8m A23_07099 895 Helio TYC 2848-01702-1 Diam = 147.0 m = 10.6 m = 14.0  Dur = 5.8s Dmag = 3.4 Sun: 72° Moon: 127°
2023 jul 31 23h37.0m A23_07077 445 Edna TYC 7351-00838-1 Diam = 89.0 m = 11.5 m = 14.9  Dur = 9.1s Dmag = 3.4 Sun: 119° Moon: 49°	2023 aug 1 4h22.2m A23_08041 203 Pompeja PPMX 12677793 Diam = 120.0 m = 12.4 m = 13.5  Dur = 18.9s Dmag = 1.5 Sun: 141° Moon: 29°	2023 aug 2 1h 5.1m A23_08024 87 Sylvia UCAC4 288-217349 Diam = 271.0 m = 12.2 m = 11.7  Dur = 23.7s Dmag = 0.5 Sun: 161° Moon: 20°	2023 aug 2 1h52.4m A23_08039 196 Philomela UCAC4 307-177851 Diam = 146.0 m = 11.0 m = 11.4  Dur = 22.7s Dmag = 1.0 Sun: 141° Moon: 42°
2023 aug 3 0h 4.0m A23_08080 654 Zelinda TYC 6095-00878-1 Diam = 132.0 m = 11.9 m = 13.2  Dur = 3.6s Dmag = 1.6 Sun: 60° Moon: 135°	2023 aug 6 23h 9.5m A23_08008 16 Psyche TYC 5590-00020-1 Diam = 264.0 m = 11.6 m = 11.7  Dur = 18.5s Dmag = 0.8 Sun: 91° Moon: 160°	2023 aug 7 1h20.0m A23_08106 1051 Merope TYC 1153-00782-1 Diam = 68.6 m = 10.0 m = 14.5  Dur = 8.1s Dmag = 4.4 Sun: 142° Moon: 40°	2023 aug 9 1h 0.5m A23_08124 4348 Poulydamas UCAC4 415-140502 Diam = 60.3 m = 12.5 m = 15.9  Dur = 3.8s Dmag = 3.5 Sun: 169° Moon: 99°
2023 aug 10 0h 7.1m A23_08006 15 Eunomia UCAC4 334-178996 Diam = 272.0 m = 12.1 m = 9.3  Dur = 36.2s Dmag = 0.1 Sun: 141° Moon: 147°	2023 aug 13 3h57.3m A23_08018 52 Europa UCAC4 359-096592 Diam = 278.0 m = 11.4 m = 12.0  Dur = 77.3s Dmag = 1.1 Sun: 122° Moon: 156°	2023 aug 13 5h 0.3m A23_08017 52 Europa UCAC4 358-098700 Diam = 278.0 m = 12.4 m = 12.0  Dur = 77.4s Dmag = 0.6 Sun: 122° Moon: 156°	2023 aug 14 5h33.7m A23_08082 675 Ludmilla TYC 5197-00224-1 Diam = 109.1 m = 10.6 m = 11.6  Dur = 9.3s Dmag = 1.4 Sun: 166° Moon: 151°

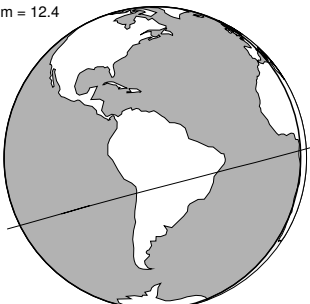
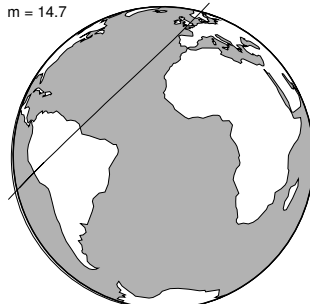
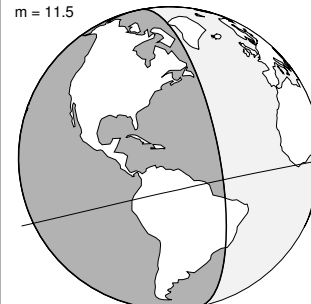
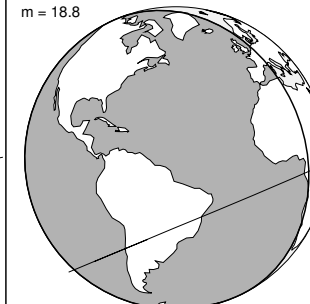
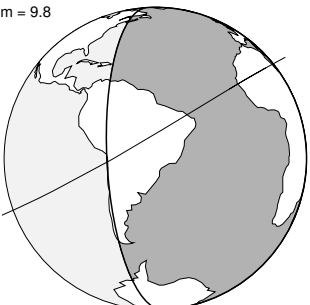
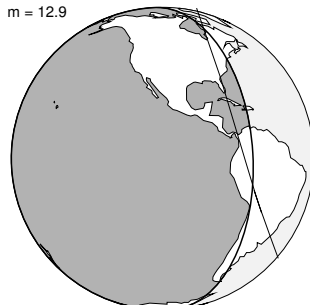
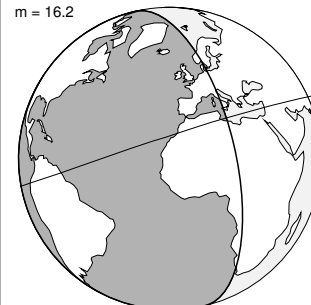
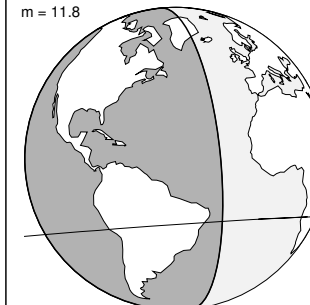
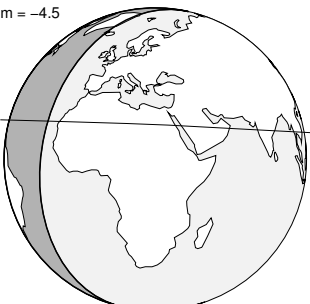
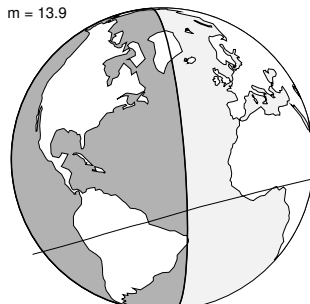
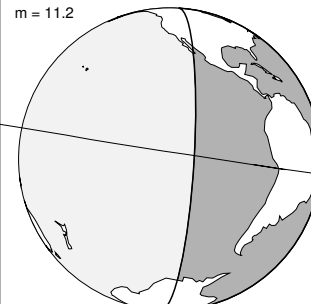
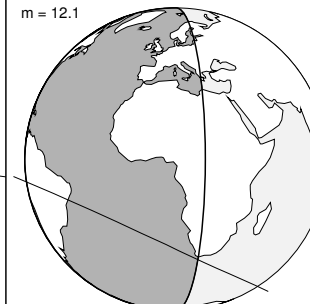
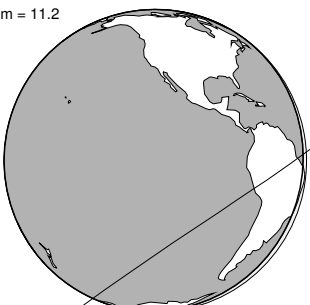
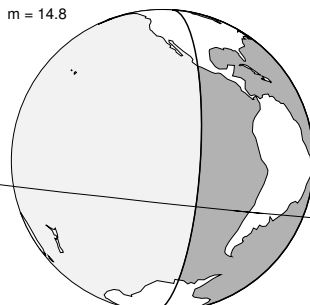
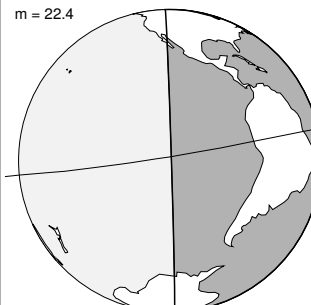
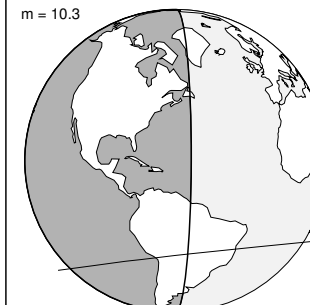
Occultations by major and minor planets – 2023

Region 2

2023 aug 15 7h55.1m A23_08085 704 Interamnia TYC 2392–01500–1 Diam = 333.0 m = 10.4 m = 11.7  Dur = 11.3s Dmag = 1.5 Sun: 64° Moon: 52°	2023 aug 18 10h12.8m A23_08031 144 Vibilia UCAC4 517–005435 Diam = 178.0 m = 12.4 m = 11.9  Dur = 10.3s Dmag = 0.5 Sun: 94° Moon: 116°	2023 aug 26 8h14.4m A23_08118 2223 Sarpedon UCAC4 502–143377 Diam = 105.0 m = 12.2 m = 16.5  Dur = 6.7s Dmag = 4.3 Sun: 157° Moon: 83°	2023 aug 26 22h 4.2m A23_08007 15 Eunomia UCAC4 339–150025 Diam = 272.0 m = 12.5 m = 9.6  Dur = 78.6s Dmag = 0.1 Sun: 124° Moon: 6°
2023 aug 27 5h31.1m A23_08022 54 Alexandra TYC 6889–01241–1 Diam = 171.0 m = 10.8 m = 10.9  Dur = 34.9s Dmag = 0.8 Sun: 138° Moon: 13°	2023 aug 28 1h39.2m A23_08090 795 Fini TYC 7981–00898–1 Diam = 78.7 m = 11.2 m = 14.0  Dur = 6.3s Dmag = 2.9 Sun: 150° Moon: 30°	2023 aug 28 3h 1.2m A23_08127 2002PO149 UCAC4 451–000138 Diam = 195.9 m = 11.7 m = 23.4  Dur = 8.8s Dmag = 11.7 Sun: 152° Moon: 69°	2023 aug 30 0h24.0m A23_08014 34 Circe UCAC5 366–102568 Diam = 118.0 m = 12.5 m = 13.6  Dur = 16.9s Dmag = 1.5 Sun: 110° Moon: 55°
2023 aug 31 3h 4.8m A23_08044 203 Pompeja TYC 6849–01750–1 Diam = 120.0 m = 11.4 m = 14.1  Dur = 22.0s Dmag = 2.8 Sun: 112° Moon: 68°	2023 aug 31 4h31.2m A23_08065 416 Vaticana TYC 0038–00351–1 Diam = 89.5 m = 9.5 m = 12.8  Dur = 27.4s Dmag = 3.4 Sun: 124° Moon: 53°	2023 sep 3 0h 8.2m B23_09010 2001KH76 UCAC4 338–147249 Diam = 182.0 m = 12.5 m = 23.2  Dur = 23.2s Dmag = 10.7 Sun: 115° Moon: 105°	2023 sep 3 1h46.4m A23_09153 5144 Achates TYC 5805–01100–1 Diam = 69.2 m = 11.0 m = 14.5  Dur = 5.5s Dmag = 3.6 Sun: 168° Moon: 53°
2023 sep 4 1h55.3m A23_09068 247 Eukrate PPMX 15755323 Diam = 137.0 m = 12.2 m = 12.8  Dur = 10.8s Dmag = 1.1 Sun: 125° Moon: 104°	2023 sep 4 8h16.9m A23_09155 599752 2010VQ11 TYC 0719–00561–1 Diam = 310.5 m = 10.3 m = 22.0  Dur = 22.2s Dmag = 11.7 Sun: 74° Moon: 49°	2023 sep 4 21h51.9m A23_09042 137 Meliboea TYC 5595–00806–1 Diam = 150.0 m = 10.6 m = 13.5  Dur = 5.6s Dmag = 2.9 Sun: 70° Moon: 167°	2023 sep 6 4h33.3m A23_09092 429 Lotis TYC 0601–01242–1 Diam = 70.3 m = 10.3 m = 13.1  Dur = 10.4s Dmag = 2.9 Sun: 152° Moon: 56°

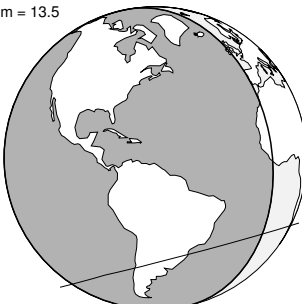
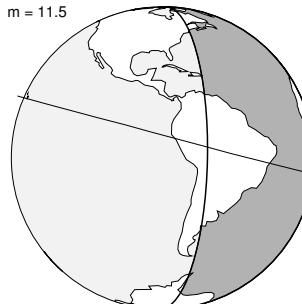
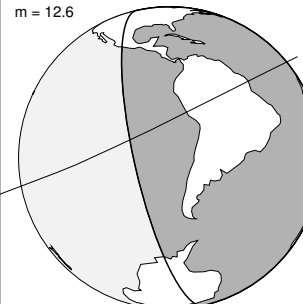
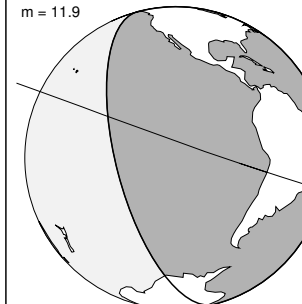
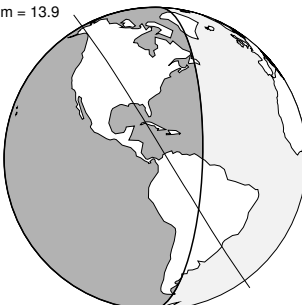
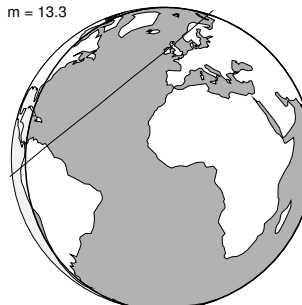
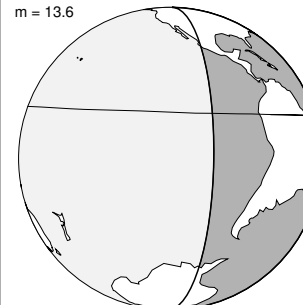
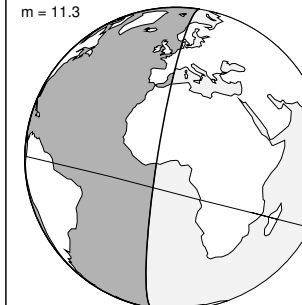
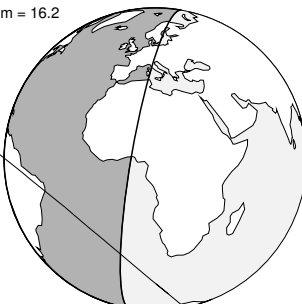
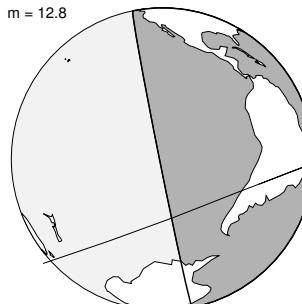
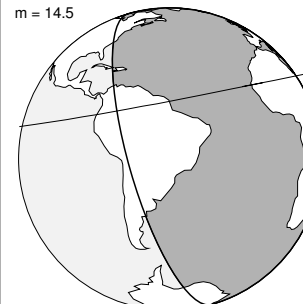
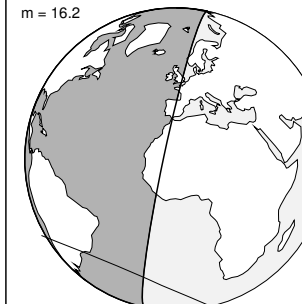
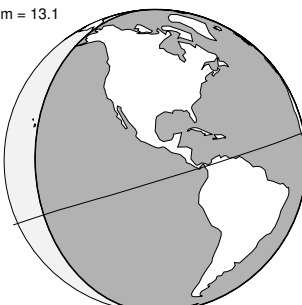
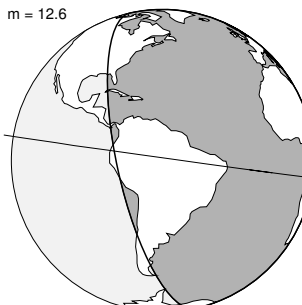
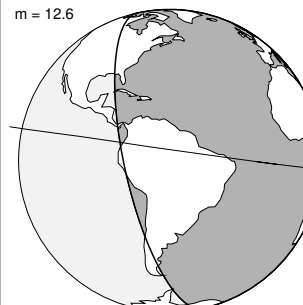
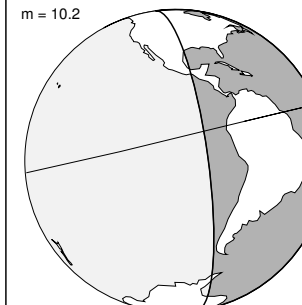
Occultations by major and minor planets – 2023

Region 2

2023 sep 7 5h12.9m A23_09083 362 Havnia Diam = 66.1 m = 12.4  Dur = 6.5s Sun: 163° Dmag = 6.0 Moon: 80°	2023 sep 9 0h32.1m A23_09146 2326 Tololo Diam = 45.6 m = 14.7  Dur = 3.7s Sun: 169° Dmag = 8.4 Moon: 124°	2023 sep 9 8h57.8m A23_09044 144 Vibilia Diam = 178.0 m = 11.5  Dur = 18.6s Sun: 109° Dmag = 1.5 Moon: 48°	2023 sep 10 5h 8.0m B23_09001 2060 Chiron Diam = 200.0 m = 18.8 UCAC4 494-001531 m = 13.3  Dur = 10.0s Sun: 148° Dmag = 5.6 Moon: 95°
2023 sep 12 22h32.0m A23_09015 15 Eunomia Diam = 272.0 m = 9.8 PPMX 11676546 m = 12.5  Dur = 37.9s Sun: 108° Dmag = 0.1 Moon: 132°	2023 sep 15 10h39.0m A23_09073 304 Olga Diam = 68.5 m = 12.9 UCAC4 447-003977 m = 12.3  Dur = 8.1s Sun: 126° Dmag = 1.1 Moon: 131°	2023 sep 16 4h53.8m A23_09148 3148 Grechko Diam = 51.5 m = 16.2 TYC 1243-00226-1 m = 10.0  Dur = 8.5s Sun: 115° Dmag = 6.2 Moon: 128°	2023 sep 20 7h53.1m A23_09080 346 Hermentaria Diam = 110.0 m = 11.8 UCAC4 522-008508 m = 11.8  Dur = 13.1s Sun: 107° Dmag = 0.8 Moon: 163°
2023 sep 22 7h23.9m P23_09001 Venus Diam = 12104.0 m = -4.5 HIP 45363 m = 7.4  Dur = 1481.6s Sun: 41° Dmag = 0.0 Moon: 124°	2023 sep 22 8h13.7m A23_09055 210 Isabella Diam = 90.0 m = 13.9 UCAC4 578-014978 m = 11.9  Dur = 6.5s Sun: 98° Dmag = 2.2 Moon: 177°	2023 sep 24 1h12.5m A23_09014 11 Parthenope Diam = 162.0 m = 11.2 UCAC4 342-093814 m = 12.2  Dur = 6.9s Sun: 80° Dmag = 0.4 Moon: 26°	2023 sep 26 4h28.6m A23_09054 173 Ino Diam = 159.0 m = 12.1 UCAC5 479-010710 m = 12.4  Dur = 12.1s Sun: 101° Dmag = 0.6 Moon: 120°
2023 sep 27 8h33.3m A23_09020 28 Bellona Diam = 126.0 m = 11.2 UCAC4 429-001189 m = 11.9  Dur = 9.8s Sun: 166° Dmag = 0.5 Moon: 38°	2023 sep 28 0h42.4m A23_09029 76 Freia Diam = 190.0 m = 14.8 UCAC4 345-095342 m = 12.3  Dur = 9.0s Sun: 75° Dmag = 2.5 Moon: 85°	2023 sep 28 1h15.9m B23_09003 119069 2001KN77 Diam = 158.5 m = 22.4 UCAC4 325-143214 m = 13.6  Dur = 24.4s Sun: 89° Dmag = 8.8 Moon: 71°	2023 sep 29 9h41.8m A23_09012 9 Metis Diam = 231.2 m = 10.3 HIP 28355 m = 9.6  Dur = 14.5s Sun: 95° Dmag = 1.2 Moon: 84°

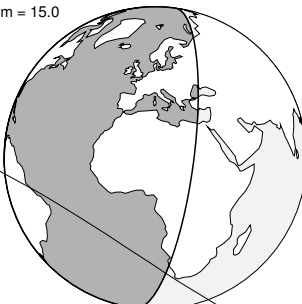
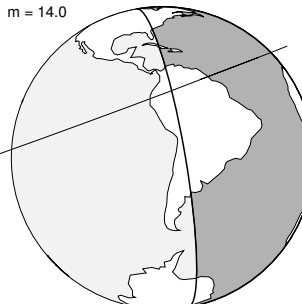
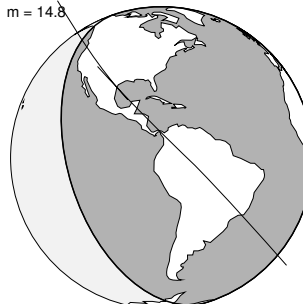
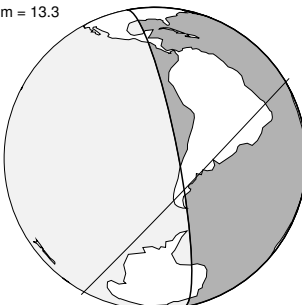
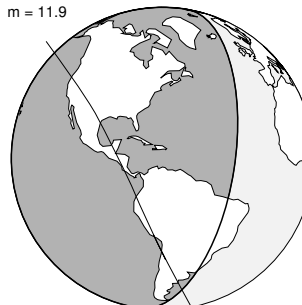
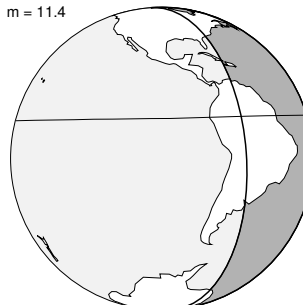
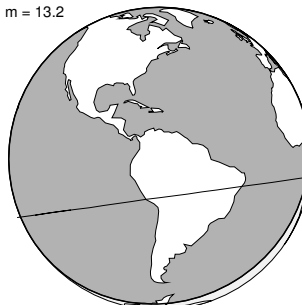
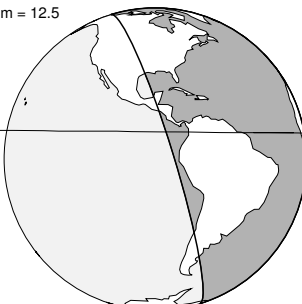
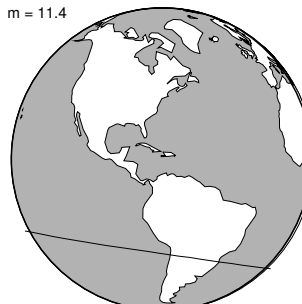
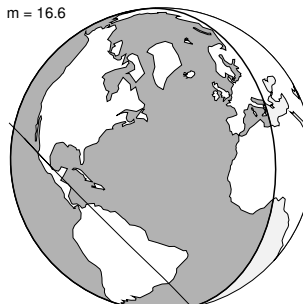
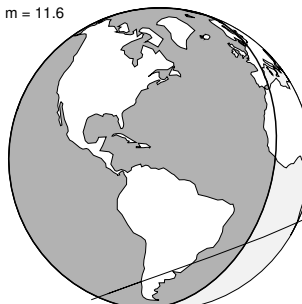
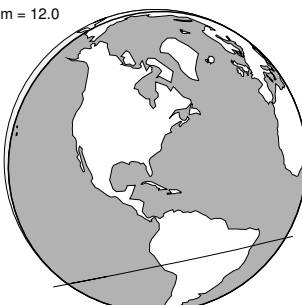
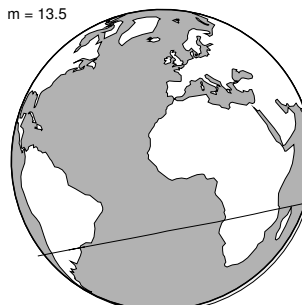
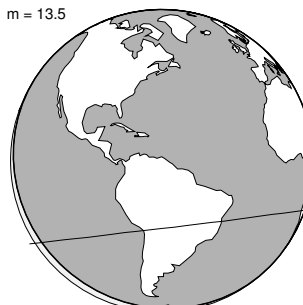
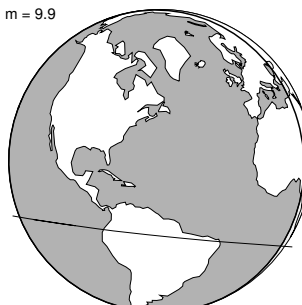
Occultations by major and minor planets – 2023

Region 2

2023 sep 30 6h36.7m A23_09097 447 Valentine TYC 0647–00111–1 Diam = 82.0 m = 10.2 m = 13.5  Dur = 14.4s Dmag = 3.4 Sun: 140° Moon: 28°	2023 oct 1 22h19.2m A23_10017 39 Laetitia UCAC5 376–080797 Diam = 159.0 m = 12.4 m = 11.5  Dur = 6.1s Dmag = 0.4 Sun: 72° Moon: 140°	2023 oct 2 0h32.5m A23_10026 87 Sylvia UCAC4 291–216418 Diam = 271.0 m = 12.4 m = 12.6  Dur = 27.5s Dmag = 0.9 Sun: 103° Moon: 111°	2023 oct 2 3h 3.7m A23_10049 234 Barbara TYC 6906–00995–1 Diam = 44.6 m = 9.8 m = 11.9  Dur = 4.2s Dmag = 2.3 Sun: 113° Moon: 103°
2023 oct 4 9h51.1m A23_10057 276 Adelheid TYC 0700–00511–1 Diam = 127.0 m = 10.5 m = 13.9  Dur = 10.0s Dmag = 3.4 Sun: 108° Moon: 19°	2023 oct 5 22h52.6m A23_10043 156 Xanthippe UCAC4 490–144176 Diam = 126.0 m = 12.5 m = 13.3  Dur = 10.2s Dmag = 1.2 Sun: 154° Moon: 103°	2023 oct 13 0h33.8m A23_10039 146 Lucina UCAC4 302–196029 Diam = 137.0 m = 11.6 m = 13.6  Dur = 5.2s Dmag = 2.1 Sun: 73° Moon: 93°	2023 oct 14 6h 3.0m A23_10065 354 Eleonora UCAC4 486–043593 Diam = 162.0 m = 11.6 m = 11.3  Dur = 7.8s Dmag = 0.6 Sun: 82° Moon: 78°
2023 oct 16 5h35.8m A23_10118 1712 Angola TYC 0202–01220–1 Diam = 66.2 m = 9.8 m = 16.2  Dur = 3.1s Dmag = 6.4 Sun: 80° Moon: 97°	2023 oct 17 1h50.4m A23_10027 87 Sylvia UCAC5 295–214737 Diam = 271.0 m = 12.4 m = 12.8  Dur = 16.7s Dmag = 1.0 Sun: 91° Moon: 64°	2023 oct 17 22h29.7m A23_10056 275 Sappientia UCAC4 355–197029 Diam = 103.0 m = 12.2 m = 14.5  Dur = 13.7s Dmag = 2.4 Sun: 105° Moon: 68°	2023 oct 18 6h35.4m A23_10123 3063 Makhaon UCAC4 553–042613 Diam = 125.0 m = 11.8 m = 16.2  Dur = 8.1s Dmag = 4.5 Sun: 85° Moon: 127°
2023 oct 19 3h44.1m A23_10091 709 Fringilla TYC 1163–01276–1 Diam = 99.6 m = 11.1 m = 13.1  Dur = 16.7s Dmag = 2.1 Sun: 142° Moon: 95°	2023 oct 19 23h 2.1m A23_10087 675 Ludmilla UCAC4 423–134501 Diam = 109.1 m = 12.2 m = 12.6  Dur = 13.4s Dmag = 1.0 Sun: 107° Moon: 48°	2023 oct 19 23h 4.3m A23_10088 675 Ludmilla Gaia 085–0224929 Diam = 109.1 m = 11.8 m = 12.6  Dur = 13.4s Dmag = 1.2 Sun: 107° Moon: 48°	2023 oct 22 23h49.6m A23_10009 15 Eunomia UCAC4 356–179411 Diam = 272.0 m = 12.1 m = 10.2  Dur = 11.9s Dmag = 0.2 Sun: 77° Moon: 25°

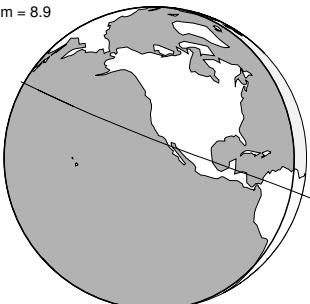
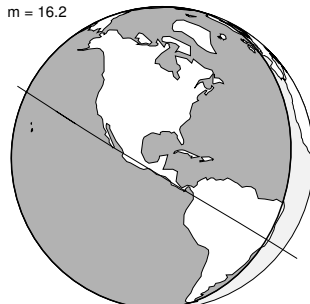
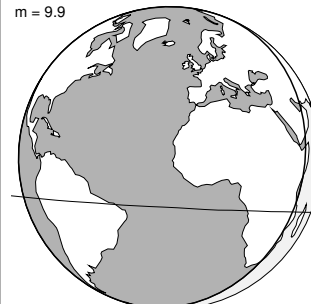
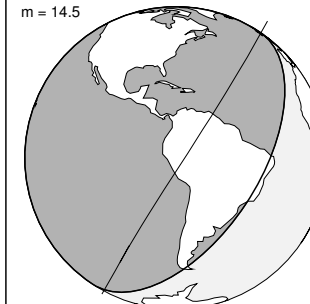
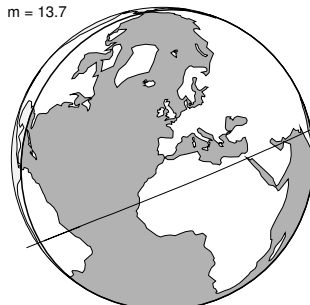
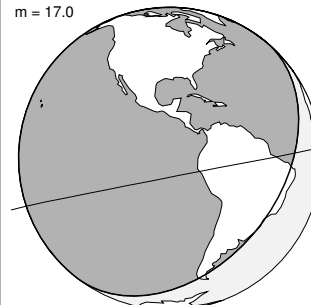
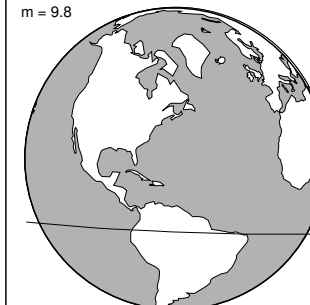
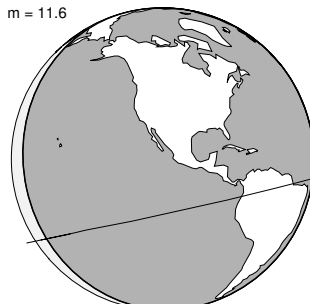
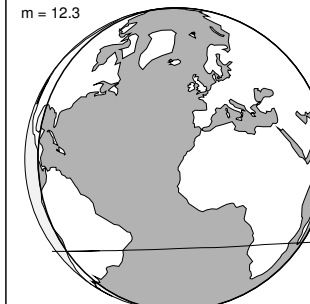
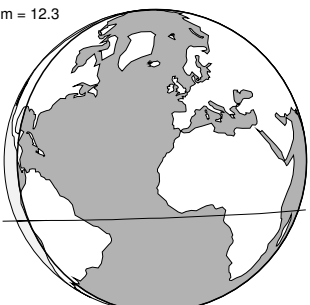
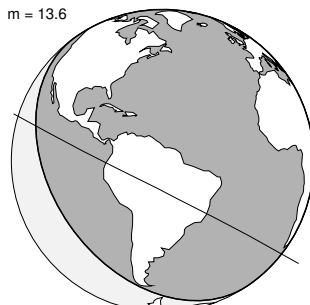
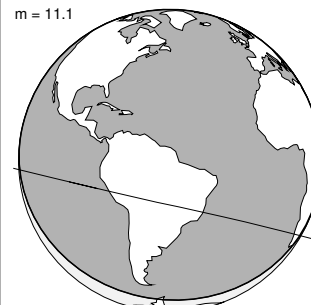
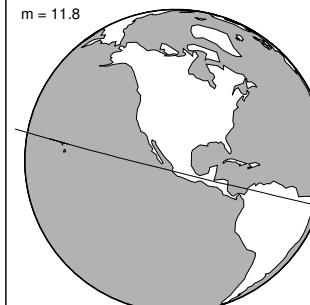
Occultations by major and minor planets – 2023

Region 2

2023 oct 24 4h20.0m A23_10100 976 Benjamin TYC 1353–00212–1 Diam = 86.6 m = 11.8 m = 15.0  Dur = 10.3s Dmag = 3.3 Sun: 104° Moon: 138°	2023 oct 26 22h34.9m A23_10048 209 Dido TYC 6898–01910–1 Diam = 149.0 m = 10.6 m = 14.0  Dur = 6.8s Dmag = 3.5 Sun: 81° Moon: 73°	2023 oct 28 1h35.8m A23_10103 1049 Gotho TYC 5234–00539–1 Diam = 58.2 m = 11.7 m = 14.8  Dur = 19.2s Dmag = 3.2 Sun: 128° Moon: 41°	2023 oct 28 23h20.7m A23_10022 54 Alexandra TYC 6328–01085–1 Diam = 171.0 m = 8.8 m = 12.1  Dur = 8.2s Dmag = 3.4 Sun: 88° Moon: 93°
2023 oct 30 23h25.5m A23_10052 247 Eukrate TYC 7454–01239–1 Diam = 137.0 m = 11.4 m = 13.3  Dur = 5.8s Dmag = 2.1 Sun: 81° Moon: 126°	2023 nov 2 8h38.6m A23_11021 48 Doris UCAC4 525–032132 Diam = 219.0 m = 12.4 m = 11.9  Dur = 54.6s Dmag = 0.6 Sun: 118° Moon: 14°	2023 nov 5 22h18.3m A23_11007 11 Parthenope TYC 6858–01739–1 Diam = 162.0 m = 10.6 m = 11.4  Dur = 4.5s Dmag = 1.2 Sun: 55° Moon: 139°	2023 nov 7 5h 1.9m A23_11083 412 Elisabetha TYC 0057–00232–1 Diam = 93.0 m = 10.7 m = 13.2  Dur = 7.2s Dmag = 2.6 Sun: 161° Moon: 105°
2023 nov 11 23h21.5m A23_11077 393 Lampetia UCAC4 424–126270 Diam = 106.0 m = 11.6 m = 12.5  Dur = 3.8s Dmag = 1.3 Sun: 83° Moon: 100°	2023 nov 13 5h22.9m A23_11089 481 Erita TYC 1253–00170–1 Diam = 116.0 m = 10.4 m = 11.4  Dur = 12.1s Dmag = 1.4 Sun: 169° Moon: 167°	2023 nov 21 5h42.9m A23_11148 5027 Androgeos TYC 2439–00575–1 Diam = 55.0 m = 11.9 m = 16.6  Dur = 3.7s Dmag = 4.7 Sun: 138° Moon: 120°	2023 nov 22 6h55.4m A23_11022 48 Doris TYC 0758–01954–1 Diam = 219.0 m = 11.2 m = 11.6  Dur = 35.2s Dmag = 1.0 Sun: 138° Moon: 106°
2023 nov 25 4h 3.3m A23_11036 139 Juewa TYC 2339–00347–1 Diam = 164.0 m = 8.7 m = 12.0  Dur = 12.6s Dmag = 3.3 Sun: 163° Moon: 22°	2023 nov 28 1h 5.5m A23_11061 253 Mathilde TYC 0691–00356–1 Diam = 61.0 m = 9.4 m = 13.5  Dur = 5.3s Dmag = 4.1 Sun: 167° Moon: 14°	2023 nov 29 3h13.2m A23_11084 442 Eichsfeldia TYC 0650–01051–1 Diam = 67.5 m = 10.5 m = 13.5  Dur = 6.0s Dmag = 3.0 Sun: 163° Moon: 38°	2023 dec 4 5h 1.1m A23_12023 37 Fides PPMX 5004007 Diam = 112.0 m = 11.8 m = 9.9  Dur = 15.2s Dmag = 0.2 Sun: 161° Moon: 61°

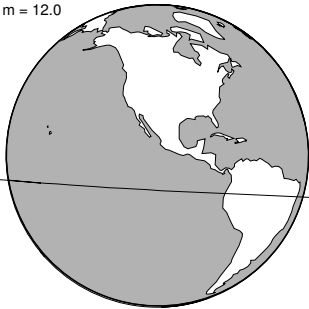
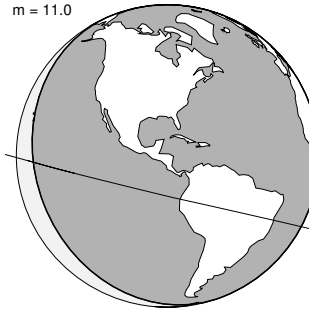
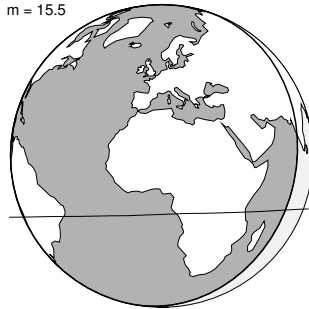
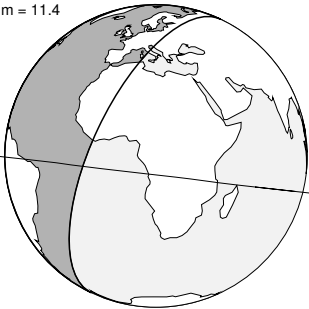
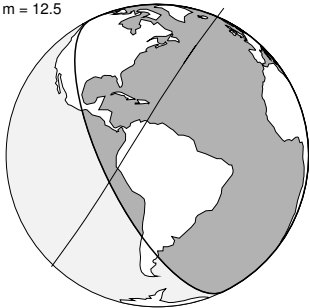
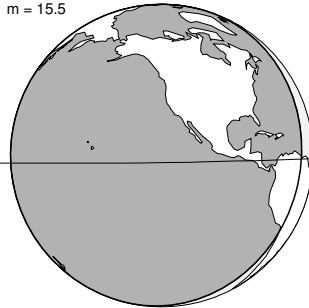
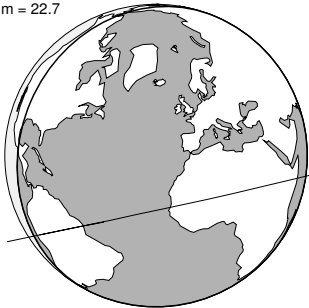
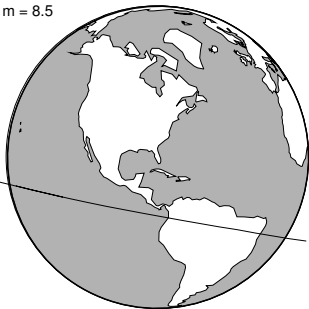
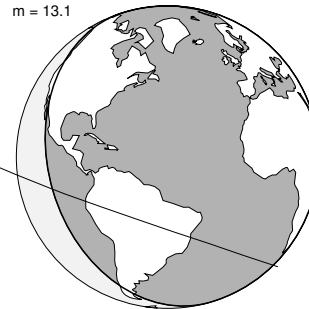
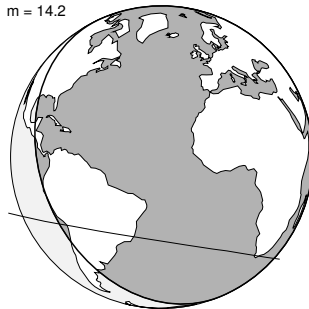
Occultations by major and minor planets – 2023

Region 2

2023 dec 4 9h38.9m A23_12011 9 Metis UCAC4 581–027141 Diam = 231.2 m = 11.9 m = 8.9  Dur = 32.9s Dmag = 0.1 Sun: 156° Moon: 58°	2023 dec 5 8h 6.1m A23_12184 4833 Meges TYC 1352–00889–1 Diam = 63.1 m = 9.5 m = 16.2  Dur = 3.8s Dmag = 6.7 Sun: 147° Moon: 59°	2023 dec 6 2h57.6m A23_12005 5 Astraea UCAC5 529–029377 Diam = 125.0 m = 12.4 m = 9.9  Dur = 21.0s Dmag = 0.1 Sun: 152° Moon: 73°	2023 dec 7 8h 9.8m A23_12152 1264 Letaba TYC 4859–02547–1 Diam = 77.5 m = 10.6 m = 14.5  Dur = 5.9s Dmag = 4.0 Sun: 123° Moon: 65°
2023 dec 9 3h15.8m A23_12097 466 Tisiphone TYC 2402–01333–1 Diam = 121.0 m = 12.1 m = 13.3  Dur = 7.9s Dmag = 1.5 Sun: 165° Moon: 127°	2023 dec 9 22h49.9m A23_12099 469 Argentina TYC 2350–01779–1 Diam = 129.0 m = 9.3 m = 13.7  Dur = 9.4s Dmag = 4.5 Sun: 156° Moon: 156°	2023 dec 10 8h17.5m A23_12173 2759 Idomeneus TYC 4821–00309–1 Diam = 73.3 m = 9.9 m = 17.0  Dur = 5.9s Dmag = 7.1 Sun: 138° Moon: 109°	2023 dec 12 4h41.9m A23_12027 37 Fides TYC 1874–01288–1 Diam = 112.0 m = 10.7 m = 9.8  Dur = 13.4s Dmag = 0.4 Sun: 170° Moon: 162°
2023 dec 12 5h 5.8m A23_12002 4 Vesta TYC 1321–01123–1 Diam = 523.2 m = 12.4 m = 6.6  Dur = 43.0s Dmag = 0.0 Sun: 167° Moon: 157°	2023 dec 12 5h34.3m A23_12022 24 Themis UCAC4 550–007203 Diam = 160.0 m = 12.3 m = 11.6  Dur = 14.6s Dmag = 0.5 Sun: 156° Moon: 166°	2023 dec 13 5h59.3m B23_12001 15875 1996TP66 UCAC4 585–031090 Diam = 141.3 m = 14.6 m = 22.3  Dur = 6.1s Dmag = 7.7 Sun: 162° Moon: 166°	2023 dec 13 23h20.1m A23_12034 70 Panopaea TYC 1802–01434–1 Diam = 127.0 m = 11.7 m = 12.3  Dur = 11.4s Dmag = 1.1 Sun: 155° Moon: 144°
2023 dec 13 23h20.2m A23_12035 70 Panopaea UCAC4 576–008397 Diam = 127.0 m = 10.8 m = 12.3  Dur = 11.4s Dmag = 1.7 Sun: 155° Moon: 144°	2023 dec 14 1h20.6m A23_12094 412 Elisabetha TYC 0048–00685–1 Diam = 93.0 m = 10.7 m = 13.6  Dur = 10.0s Dmag = 3.0 Sun: 138° Moon: 124°	2023 dec 15 3h 7.8m A23_12062 173 Ino UCAC4 453–008707 Diam = 159.0 m = 12.4 m = 11.1  Dur = 15.5s Dmag = 0.3 Sun: 156° Moon: 136°	2023 dec 15 7h 9.4m A23_12105 488 Kreusa UCAC4 571–019855 Diam = 158.0 m = 11.5 m = 11.8  Dur = 11.9s Dmag = 0.9 Sun: 175° Moon: 153°

Occultations by major and minor planets – 2023

Region 2

2023 dec 17 6h48.3m A23_12059 159 Aemilia TYC 1296–01408–1 Diam = 131.0 m = 10.6 m = 12.0  Dur = 11.1s Dmag = 1.7 Sun: 171° Moon: 118°	2023 dec 20 3h43.2m A23_12087 346 Hermentaria TYC 1249–00217–1 Diam = 110.0 m = 11.8 m = 11.0  Dur = 12.9s Dmag = 0.4 Sun: 151° Moon: 57°	2023 dec 24 1h32.2m A23_12177 3063 Makhaon TYC 1384–01732–1 Diam = 125.0 m = 10.6 m = 15.5  Dur = 9.0s Dmag = 4.9 Sun: 152° Moon: 63°	2023 dec 26 6h43.5m A23_12010 6 Hebe TYC 4975–00722–1 Diam = 186.0 m = 11.4 m = 11.4  Dur = 6.5s Dmag = 0.7 Sun: 64° Moon: 123°
2023 dec 26 23h57.7m A23_12082 287 Nephthys TYC 4686–01173–1 Diam = 70.1 m = 11.1 m = 12.5  Dur = 8.9s Dmag = 1.7 Sun: 111° Moon: 70°	2023 dec 27 3h37.0m A23_12008 5 Astraea UCAC4 532–025102 Diam = 125.0 m = 12.5 m = 9.3  Dur = 13.9s Dmag = 0.1 Sun: 172° Moon: 12°	2023 dec 27 10h 4.2m A23_12176 3063 Makhaon PPMX 6133558 Diam = 125.0 m = 12.5 m = 15.5  Dur = 8.5s Dmag = 3.0 Sun: 156° Moon: 20°	2023 dec 28 23h48.0m B23_12004 118228 1996TQ66 UCAC4 631–019646 Diam = 155.6 m = 12.9 m = 22.7  Dur = 6.8s Dmag = 9.8 Sun: 154° Moon: 45°
2023 dec 29 4h53.3m A23_12016 9 Metis UCAC4 589–022993 Diam = 231.2 m = 12.0 m = 8.5  Dur = 27.1s Dmag = 0.0 Sun: 171° Moon: 33°	2023 dec 30 0h35.4m A23_12088 347 Pariana Gaia 107–0014539 Diam = 96.4 m = 10.4 m = 13.1  Dur = 11.3s Dmag = 2.7 Sun: 142° Moon: 72°	2023 dec 31 23h34.4m A23_12073 253 Mathilde TYC 0675–00413–1 Diam = 61.0 m = 11.2 m = 14.2  Dur = 9.6s Dmag = 3.0 Sun: 143° Moon: 92°	