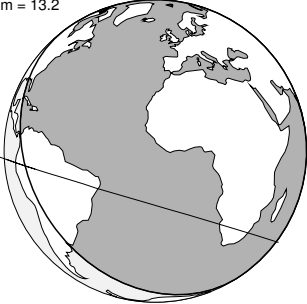
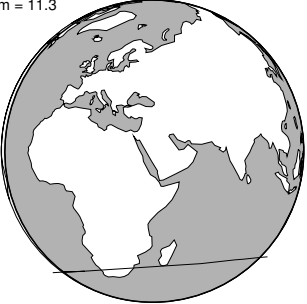
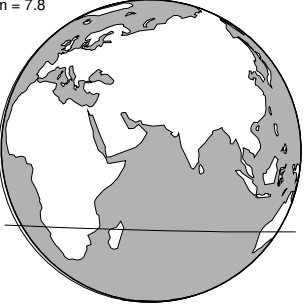
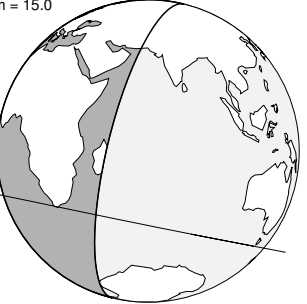
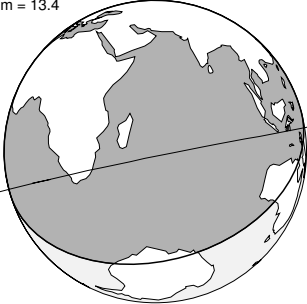
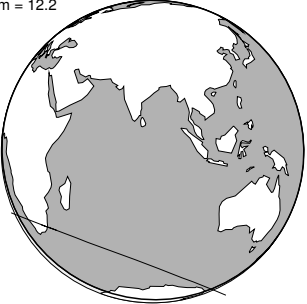


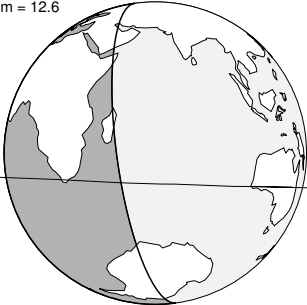
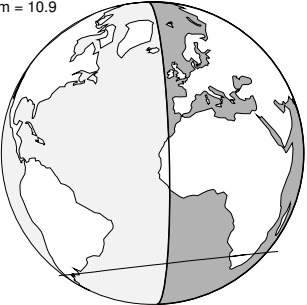
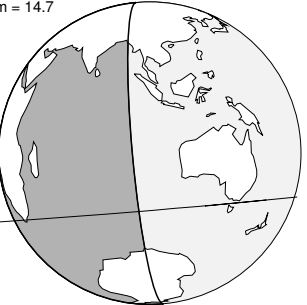
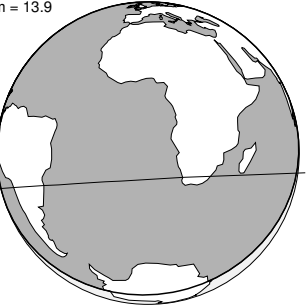
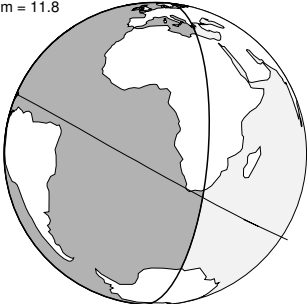
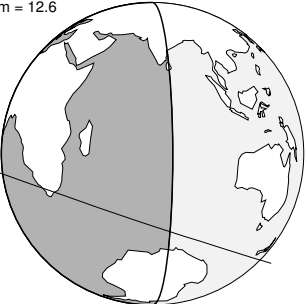
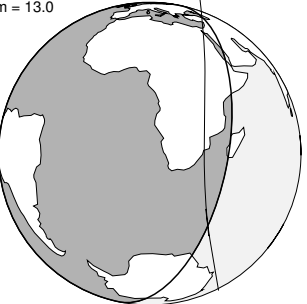
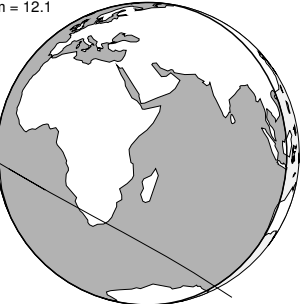


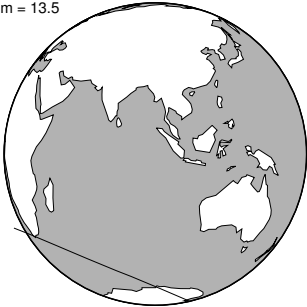
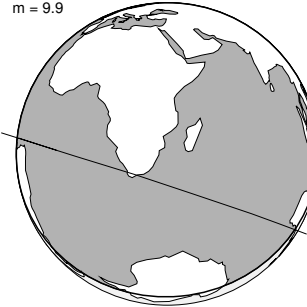
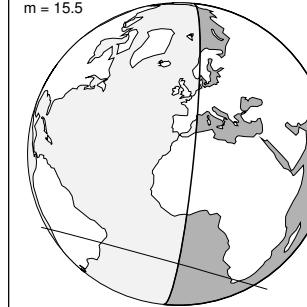
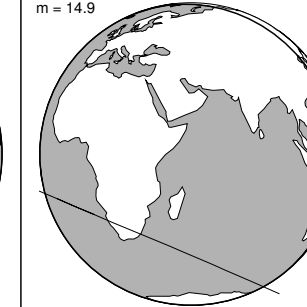
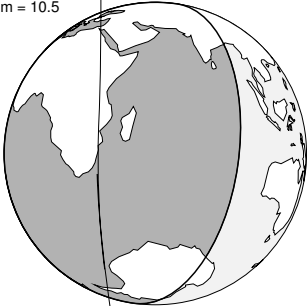
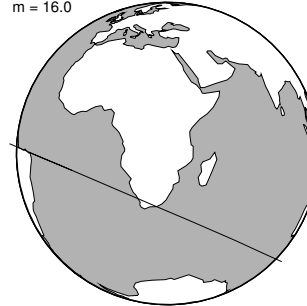
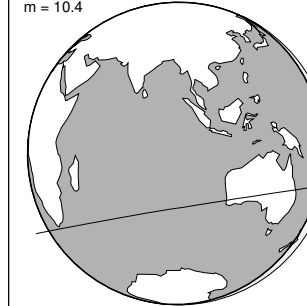
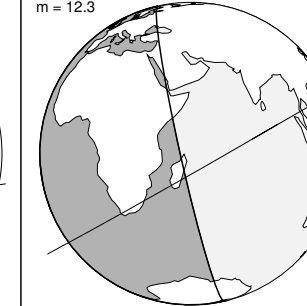
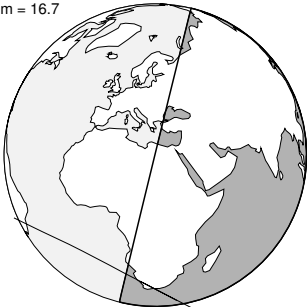
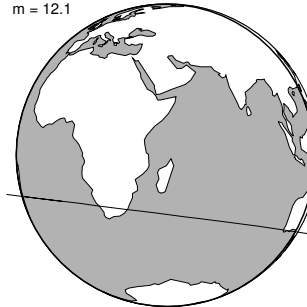
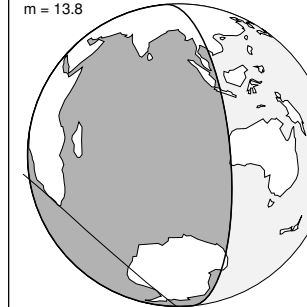
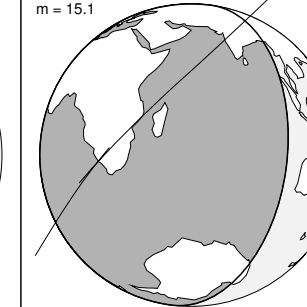
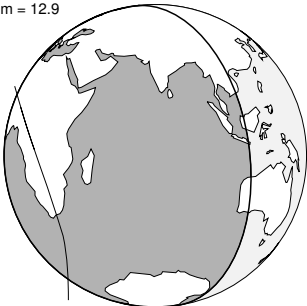
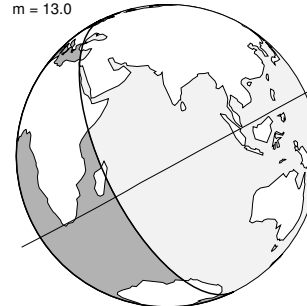
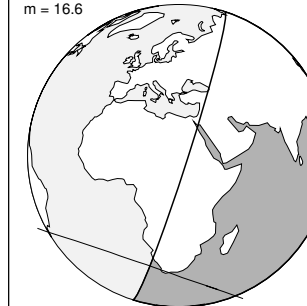
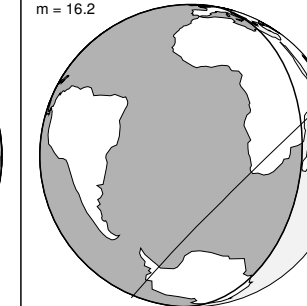
Occultations by major and minor planets – 2022

Region 4

<p>2022 jan 5 23h 2.2m A22_01085 489 Comacina UCAC4 475-009399 Diam = 144.0 m = 11.9</p>  <p>Dur = 13.1s Dmag = 1.6 Sun: 146° Moon: 105°</p>	<p>2022 jan 12 20h31.4m A22_01093 554 Peraga TYC 1893-00244-1 Diam = 98.5 m = 11.3</p>  <p>Dur = 12.6s Dmag = 0.7 Sun: 167° Moon: 43°</p>	<p>2022 jan 21 19h22.2m A22_01006 7 Iris TYC 1360-01710-1 Diam = 329.6 m = 7.8</p>  <p>Dur = 39.3s Dmag = 0.0 Sun: 168° Moon: 55°</p>	<p>2022 jan 31 2h32.1m A22_01058 240 Vanadis UCAC4 363-072231 Diam = 108.0 m = 12.0 m = 15.0</p>  <p>Dur = 4.8s Dmag = 3.1 Sun: 74° Moon: 59°</p>
<p>2022 feb 7 21h 3.4m A22_02106 914 Palisana UCAC4 314-061507 Diam = 79.0 m = 12.0 m = 13.4</p>  <p>Dur = 5.9s Dmag = 1.7 Sun: 136° Moon: 117°</p>	<p>2022 feb 27 18h13.3m A22_02066 441 Bathilde TYC 4908-00183-1 Diam = 73.2 m = 11.4 m = 12.2</p>  <p>Dur = 6.3s Dmag = 1.2 Sun: 167° Moon: 138°</p>	<p>2022 feb 28 18h24.6m A22_02101 835 Olivia TYC 1395-00443-1 Diam = 41.0 m = 10.8 m = 16.5</p>  <p>Dur = 4.4s Dmag = 5.7 Sun: 146° Moon: 170°</p>	<p>2022 mar 4 17h44.1m A22_03012 22 Kalliope UCAC4 629-031205 Diam = 187.0 m = 11.8 m = 11.3</p>  <p>Dur = 24.2s Dmag = 0.6 Sun: 108° Moon: 84°</p>
<p>2022 mar 18 2h51.5m A22_03031 93 Minerva UCAC4 296-214793 Diam = 170.8 m = 10.4 m = 12.6</p>  <p>Dur = 6.2s Dmag = 2.4 Sun: 75° Moon: 108°</p>	<p>2022 mar 22 18h58.9m A22_03018 44 Nysa UCAC4 561-019113 Diam = 73.3 m = 10.6 m = 10.9</p>  <p>Dur = 3.3s Dmag = 0.9 Sun: 83° Moon: 154°</p>	<p>2022 mar 24 23h54.3m A22_03081 465 Alekto UCAC4 319-202353 Diam = 76.6 m = 12.2 m = 14.7</p>  <p>Dur = 3.5s Dmag = 2.7 Sun: 83° Moon: 10°</p>	<p>2022 mar 28 0h13.6m A22_03110 733 Moccia PPMX 12460291 Diam = 92.0 m = 12.1 m = 13.9</p>  <p>Dur = 6.4s Dmag = 2.0 Sun: 159° Moon: 111°</p>
<p>2022 mar 28 4h25.8m A22_03073 416 Vaticana TYC 6231-02424-1 Diam = 89.5 m = 11.1 m = 11.8</p>  <p>Dur = 8.2s Dmag = 1.2 Sun: 110° Moon: 59°</p>	<p>2022 mar 30 0h38.9m A22_03026 70 Panopaea UCAC5 312-136052 Diam = 127.0 m = 12.4 m = 12.6</p>  <p>Dur = 7.5s Dmag = 0.8 Sun: 97° Moon: 70°</p>	<p>2022 apr 3 3h13.9m A22_04019 55 Pandora TYC 6808-01085-1 Diam = 67.5 m = 8.7 m = 13.0</p>  <p>Dur = 17.1s Dmag = 4.3 Sun: 120° Moon: 142°</p>	<p>2022 apr 4 22h31.6m A22_04056 275 Sapiientia TYC 4983-01259-1 Diam = 103.0 m = 11.5 m = 12.1</p>  <p>Dur = 13.7s Dmag = 1.1 Sun: 156° Moon: 158°</p>

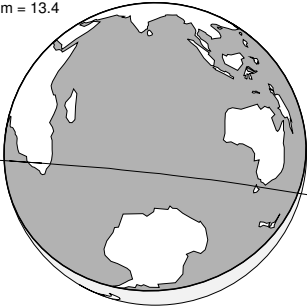
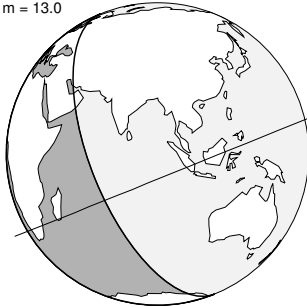
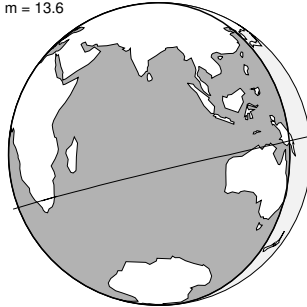
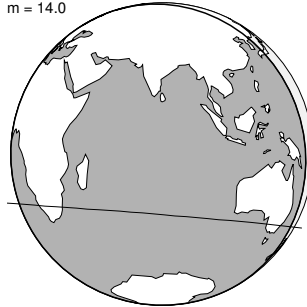
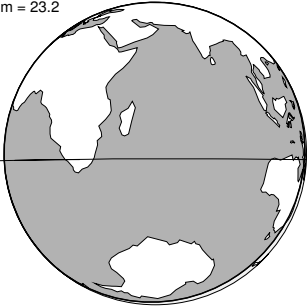
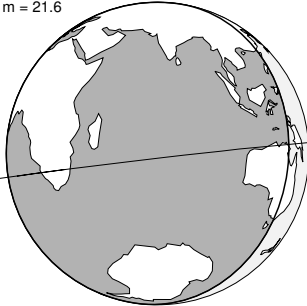
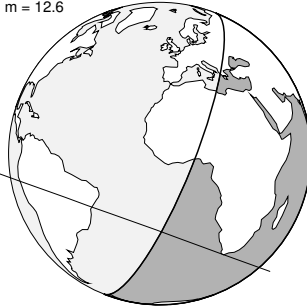
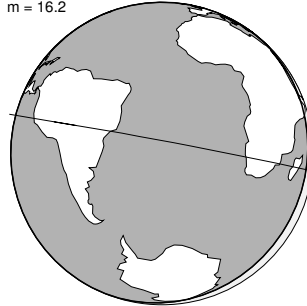
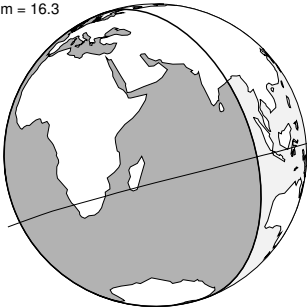
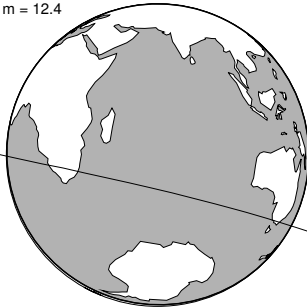
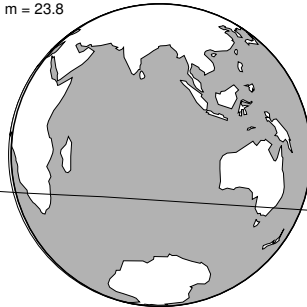
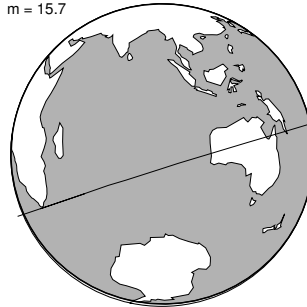
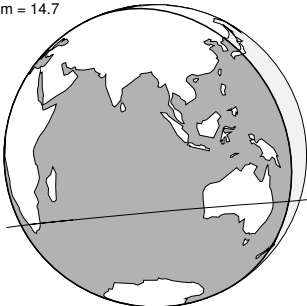
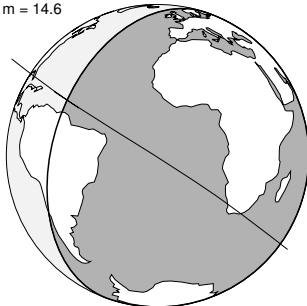
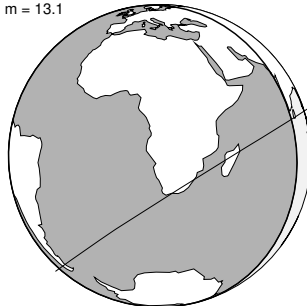
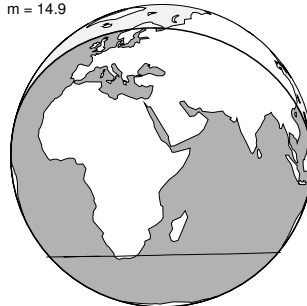
Occultations by major and minor planets – 2022

Region 4

<p>2022 apr 7 17h44.2m A22_04086 431 Nephela HIP 63938 Diam = 97.7 m = 8.2 m = 13.5</p>  <p>Dur = 6.6s Sun: 177° Dmag = 5.4 Moon: 106°</p>	<p>2022 apr 8 21h42.8m A22_04005 15 Eunomia UCAC4 318-071959 Diam = 272.0 m = 11.9 m = 9.9</p>  <p>Dur = 19.2s Sun: 160° Dmag = 0.2 Moon: 104°</p>	<p>2022 apr 9 18h16.4m A22_04064 331 Etheridgea TYC 1907-00716-1 Diam = 78.5 m = 11.2 m = 15.5</p>  <p>Dur = 4.2s Sun: 84° Dmag = 4.4 Moon: 11°</p>	<p>2022 apr 9 21h30.8m A22_04082 414 Liriope TYC 0317-00199-1 Diam = 75.2 m = 8.0 m = 14.9</p>  <p>Dur = 5.3s Sun: 162° Dmag = 6.9 Moon: 93°</p>
<p>2022 apr 16 23h56.7m A22_04013 29 Amphitrite UCAC4 296-123012 Diam = 219.0 m = 12.4 m = 10.5</p>  <p>Dur = 66.6s Sun: 123° Dmag = 0.2 Moon: 54°</p>	<p>2022 apr 17 21h42.5m A22_04123 1057 Wanda UCAC4 384-063009 Diam = 49.1 m = 12.4 m = 16.0</p>  <p>Dur = 3.1s Sun: 175° Dmag = 3.6 Moon: 18°</p>	<p>2022 apr 19 18h56.8m A22_04004 13 Egeria TYC 6168-00749-1 Diam = 215.0 m = 11.2 m = 10.4</p>  <p>Dur = 18.2s Sun: 161° Dmag = 0.4 Moon: 22°</p>	<p>2022 apr 20 2h57.9m A22_04081 409 Aspasia UCAC4 389-129804 Diam = 168.0 m = 12.0 m = 12.3</p>  <p>Dur = 8.1s Sun: 85° Dmag = 0.9 Moon: 50°</p>
<p>2022 apr 21 16h50.8m A22_04125 1119 Euboea TYC 1947-00651-1 Diam = 44.8 m = 11.2 m = 16.7</p>  <p>Dur = 3.1s Sun: 90° Dmag = 5.5 Moon: 156°</p>	<p>2022 apr 27 21h41.0m A22_04027 87 Sylvia UCAC4 396-059911 Diam = 271.0 m = 12.4 m = 12.1</p>  <p>Dur = 19.8s Sun: 166° Dmag = 0.6 Moon: 134°</p>	<p>2022 apr 30 22h52.7m A22_04093 508 Princetonia UCAC4 282-208395 Diam = 147.0 m = 12.4 m = 13.8</p>  <p>Dur = 15.5s Sun: 109° Dmag = 1.6 Moon: 111°</p>	<p>2022 may 1 23h29.7m A22_05124 5144 Achates UCAC5 285-140702 Diam = 69.2 m = 12.4 m = 15.1</p>  <p>Dur = 22.9s Sun: 129° Dmag = 2.8 Moon: 142°</p>
<p>2022 may 6 22h32.1m A22_05031 119 Althaea UCAC5 368-126531 Diam = 60.7 m = 12.4 m = 12.9</p>  <p>Dur = 19.0s Sun: 128° Dmag = 1.0 Moon: 161°</p>	<p>2022 may 10 3h 3.8m A22_05100 804 Hispania UCAC4 393-135091 Diam = 140.6 m = 12.4 m = 13.0</p>  <p>Dur = 4.5s Sun: 64° Dmag = 1.1 Moon: 167°</p>	<p>2022 may 11 16h18.3m A22_05111 1578 Kirkwood TYC 1402-00215-1 Diam = 57.0 m = 10.4 m = 16.6</p>  <p>Dur = 3.2s Sun: 86° Dmag = 6.2 Moon: 35°</p>	<p>2022 may 14 3h38.1m A22_05126 5648 1990VU1 UCAC4 294-187395 Diam = 60.3 m = 11.1 m = 16.2</p>  <p>Dur = 5.3s Sun: 137° Dmag = 5.0 Moon: 70°</p>

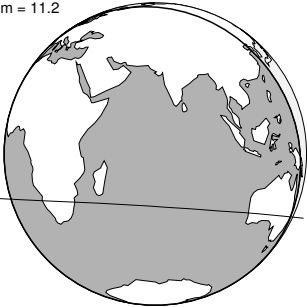
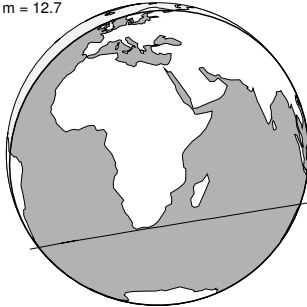
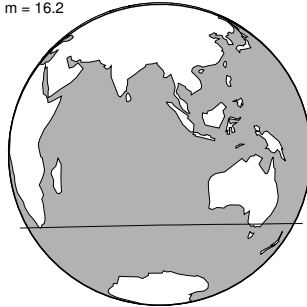
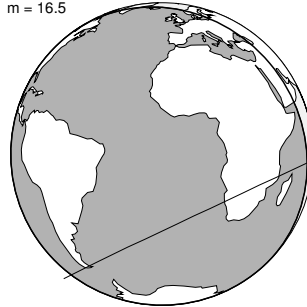
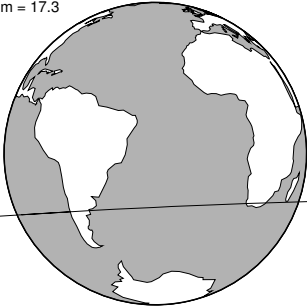
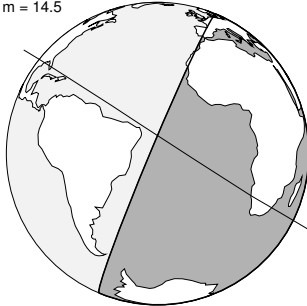
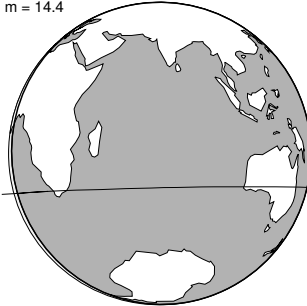
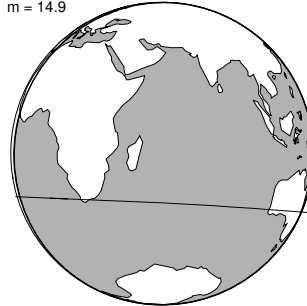
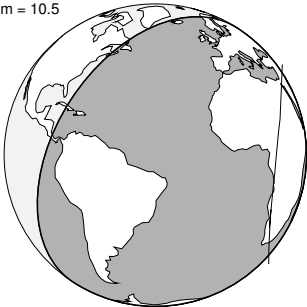
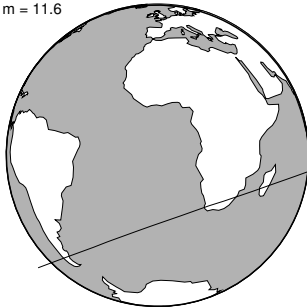
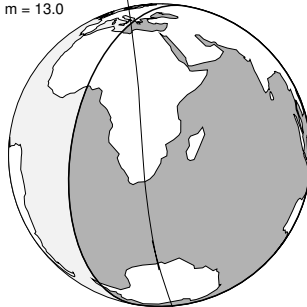
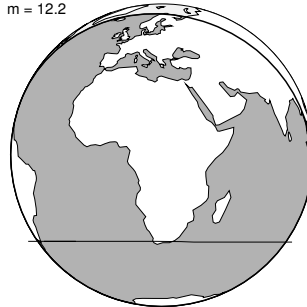
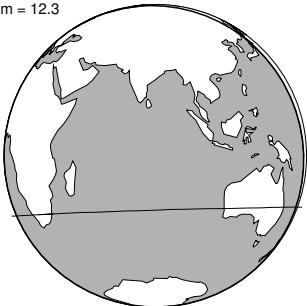
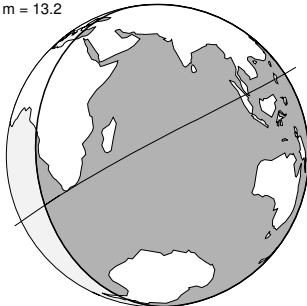
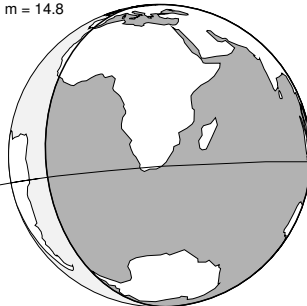
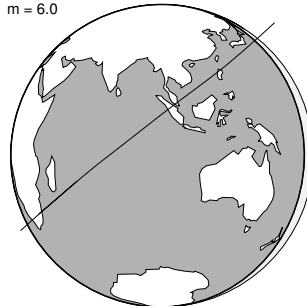
Occultations by major and minor planets – 2022

Region 4

<p>2022 may 20 18h45.4m A22_05092 709 Fringilla TYC 8311–01120–1 Diam = 99.6 m = 11.3 m = 13.4</p>  <p>Dur = 8.5s Dmag = 2.3 Sun: 154° Moon: 55°</p>	<p>2022 may 21 1h41.9m A22_05016 48 Doris UCAC4 454–120146 Diam = 219.0 m = 12.1 m = 13.0</p>  <p>Dur = 7.4s Dmag = 1.3 Sun: 63° Moon: 49°</p>	<p>2022 may 22 20h30.2m A22_05069 563 Suleika UCAC4 336–126972 Diam = 54.8 m = 11.7 m = 13.6</p>  <p>Dur = 5.0s Dmag = 2.0 Sun: 149° Moon: 60°</p>	<p>2022 may 26 19h53.2m A22_05077 627 Charis UCAC4 379–084199 Diam = 51.0 m = 12.4 m = 14.0</p>  <p>Dur = 5.1s Dmag = 1.8 Sun: 160° Moon: 121°</p>
<p>2022 may 30 20h41.7m B22_05003 160148 2001KV76 UCAC4 286–115493 Diam = 114.8 m = 13.7 m = 23.2</p>  <p>Dur = 5.0s Dmag = 9.5 Sun: 166° Moon: 170°</p>	<p>2022 jun 2 21h16.3m A22_06149 471136 2010EO65 HIP 92527 Diam = 52.5 m = 7.8 m = 21.6</p>  <p>Dur = 3.0s Dmag = 13.8 Sun: 150° Moon: 172°</p>	<p>2022 jun 9 17h59.6m A22_06004 19 Fortuna TYC 0838–00816–1 Diam = 149.0 m = 11.3 m = 12.6</p>  <p>Dur = 6.5s Dmag = 1.6 Sun: 76° Moon: 39°</p>	<p>2022 jun 17 2h40.2m A22_06141 5120 Bitias UCAC4 282–197188 Diam = 52.5 m = 12.2 m = 16.2</p>  <p>Dur = 3.3s Dmag = 4.0 Sun: 161° Moon: 23°</p>
<p>2022 jun 17 23h47.4m A22_06134 2207 Antenor TYC 5779–00129–1 Diam = 92.6 m = 11.4 m = 16.3</p>  <p>Dur = 15.2s Dmag = 4.9 Sun: 130° Moon: 9°</p>	<p>2022 jun 20 19h12.0m A22_06061 382 Dodona Gaia 058–0445670 Diam = 60.0 m = 11.3 m = 12.4</p>  <p>Dur = 5.9s Dmag = 1.4 Sun: 170° Moon: 90°</p>	<p>2022 jun 23 17h26.4m A22_06148 24978 1998HJ151 UCAC4 328–104460 Diam = 131.8 m = 10.6 m = 23.8</p>  <p>Dur = 5.4s Dmag = 13.2 Sun: 169° Moon: 131°</p>	<p>2022 jun 24 17h39.5m A22_06144 5648 1990VU1 TYC 7399–00183–1 Diam = 60.3 m = 12.2 m = 15.7</p>  <p>Dur = 3.6s Dmag = 3.5 Sun: 169° Moon: 133°</p>
<p>2022 jun 26 19h42.7m A22_06045 239 Adrastea UCAC4 394–119357 Diam = 43.0 m = 11.4 m = 14.7</p>  <p>Dur = 5.3s Dmag = 3.3 Sun: 150° Moon: 126°</p>	<p>2022 jun 26 21h50.7m A22_06057 368 Haidea TYC 5592–00654–1 Diam = 74.0 m = 10.5 m = 14.6</p>  <p>Dur = 17.5s Dmag = 4.1 Sun: 133° Moon: 157°</p>	<p>2022 jun 28 0h44.0m A22_06079 559 Nanon UCAC4 352–180490 Diam = 80.0 m = 11.8 m = 13.1</p>  <p>Dur = 9.2s Dmag = 1.6 Sun: 154° Moon: 142°</p>	<p>2022 jun 28 21h45.5m A22_06131 1796 Riga TYC 1026–00505–1 Diam = 76.5 m = 11.7 m = 14.9</p>  <p>Dur = 6.1s Dmag = 3.2 Sun: 147° Moon: 143°</p>

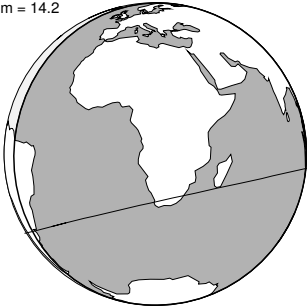
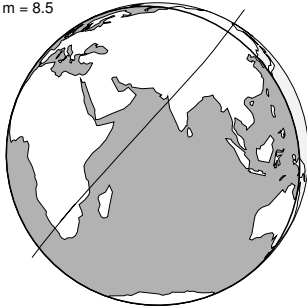
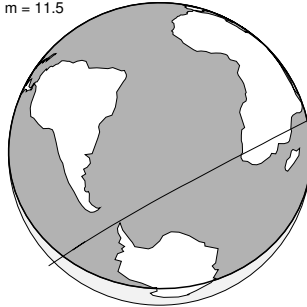
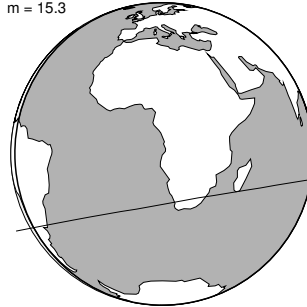
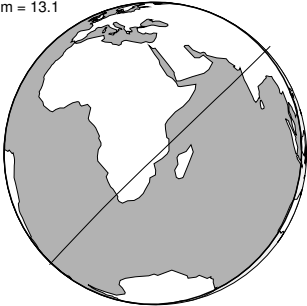
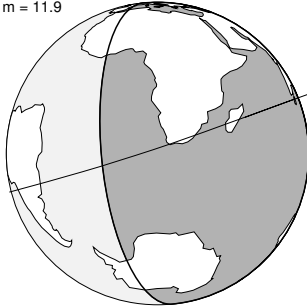
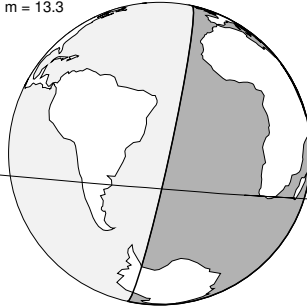
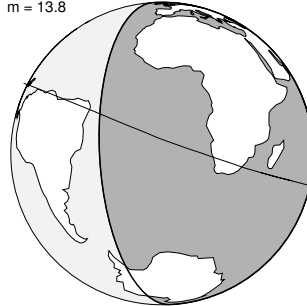
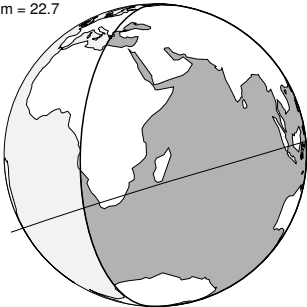
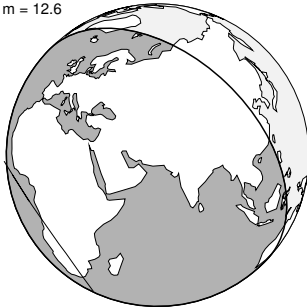
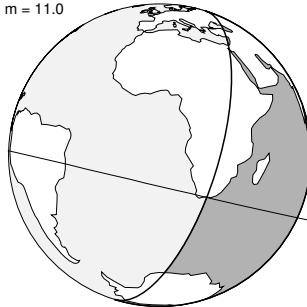
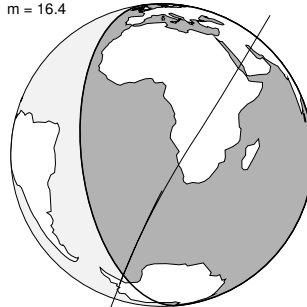
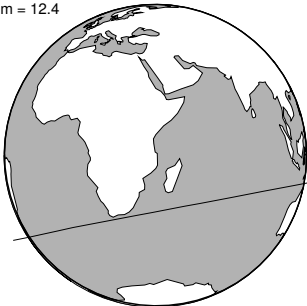
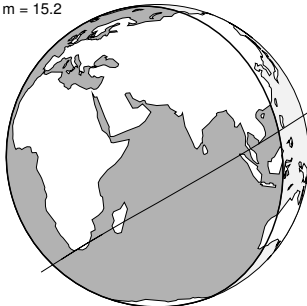
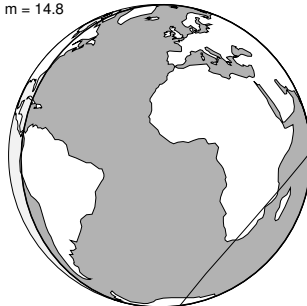
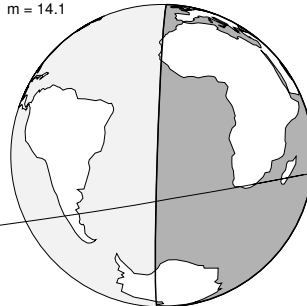
Occultations by major and minor planets – 2022

Region 4

<p>2022 jun 30 20h35.9m A22_06022 72 Feronia TYC 5729–02015–1 Diam = 89.3 m = 10.8 m = 11.2</p>  <p>Dur = 14.9s Dmag = 1.0 Sun: 158° Moon: 165°</p>	<p>2022 jul 1 21h13.6m A22_07066 313 Chaldaea TYC 5090–00214–1 Diam = 101.0 m = 10.9 m = 12.7</p>  <p>Dur = 8.6s Dmag = 2.0 Sun: 158° Moon: 132°</p>	<p>2022 jul 2 17h45.0m A22_07189 4348 Poulydamas UCAC4 377–127944 Diam = 60.3 m = 12.4 m = 16.2</p>  <p>Dur = 3.7s Dmag = 3.8 Sun: 171° Moon: 137°</p>	<p>2022 jul 4 2h 4.1m A22_07187 2895 Memnon UCAC4 401–120652 Diam = 57.5 m = 12.2 m = 16.5</p>  <p>Dur = 3.4s Dmag = 4.3 Sun: 158° Moon: 141°</p>
<p>2022 jul 5 1h53.6m A22_07184 2483 Guinevere TYC 6289–02678–1 Diam = 53.3 m = 11.5 m = 17.3</p>  <p>Dur = 3.0s Dmag = 5.8 Sun: 177° Moon: 113°</p>	<p>2022 jul 6 19h45.4m A22_07133 795 Fini UCAC4 375–064893 Diam = 78.7 m = 12.5 m = 14.5</p>  <p>Dur = 4.9s Dmag = 2.2 Sun: 92° Moon: 14°</p>	<p>2022 jul 8 18h20.2m A22_07152 1332 Marconia UCAC5 315–162941 Diam = 49.5 m = 12.5 m = 14.4</p>  <p>Dur = 4.3s Dmag = 2.1 Sun: 167° Moon: 58°</p>	<p>2022 jul 11 19h22.0m A22_07136 882 Svetlana TYC 6274–01532–1 Diam = 48.8 m = 12.0 m = 14.9</p>  <p>Dur = 3.9s Dmag = 2.9 Sun: 167° Moon: 18°</p>
<p>2022 jul 16 23h54.8m A22_07018 41 Daphne UCAC4 468–058666 Diam = 182.0 m = 11.7 m = 10.5</p>  <p>Dur = 28.7s Dmag = 0.3 Sun: 131° Moon: 89°</p>	<p>2022 jul 17 0h32.5m A22_07009 28 Bellona UCAC4 379–154701 Diam = 126.0 m = 12.4 m = 11.6</p>  <p>Dur = 8.9s Dmag = 0.4 Sun: 172° Moon: 43°</p>	<p>2022 jul 17 18h 1.4m A22_07102 596 Scheila TYC 6778–01906–1 Diam = 117.0 m = 10.2 m = 13.0</p>  <p>Dur = 27.3s Dmag = 2.9 Sun: 126° Moon: 108°</p>	<p>2022 jul 25 23h 9.9m A22_07033 95 Arethusa TYC 0512–01011–1 Diam = 145.0 m = 10.3 m = 12.2</p>  <p>Dur = 12.6s Dmag = 2.1 Sun: 157° Moon: 132°</p>
<p>2022 jul 26 19h21.0m A22_07075 407 Arachne UCAC5 388–133796 Diam = 97.0 m = 12.5 m = 12.3</p>  <p>Dur = 9.6s Dmag = 0.7 Sun: 166° Moon: 145°</p>	<p>2022 jul 30 17h 5.3m A22_07132 786 Bredichina PPMX 12681251 Diam = 93.2 m = 11.7 m = 13.2</p>  <p>Dur = 14.1s Dmag = 1.7 Sun: 143° Moon: 122°</p>	<p>2022 jul 31 19h24.0m A22_07165 1356 Nyanza PPMX 12665115 Diam = 67.2 m = 12.4 m = 14.8</p>  <p>Dur = 11.4s Dmag = 2.6 Sun: 138° Moon: 105°</p>	<p>2022 aug 7 18h57.7m A22_08004 4 Vesta TYC 6388–00152–1 Diam = 523.2 m = 11.3 m = 6.0</p>  <p>Dur = 59.1s Dmag = 0.0 Sun: 160° Moon: 77°</p>

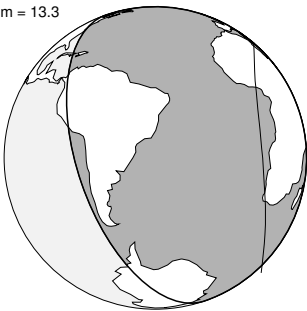
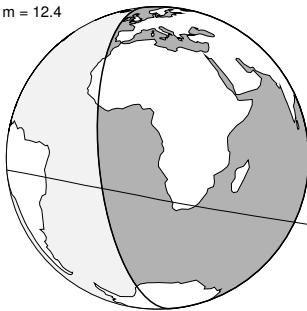
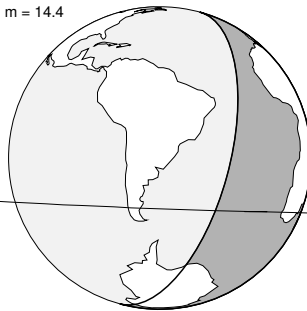
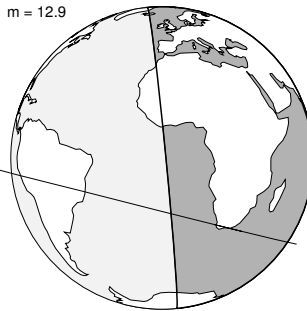
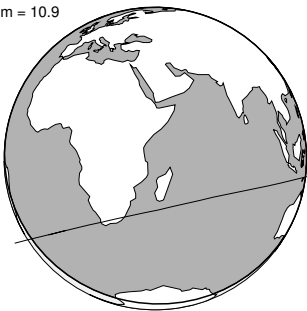
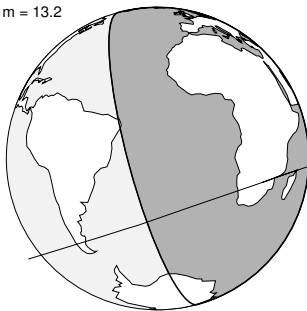
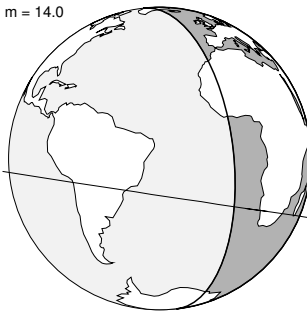
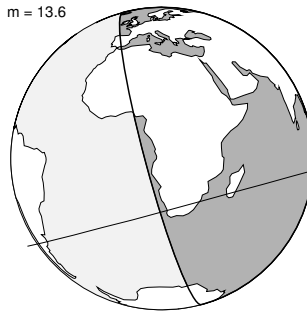
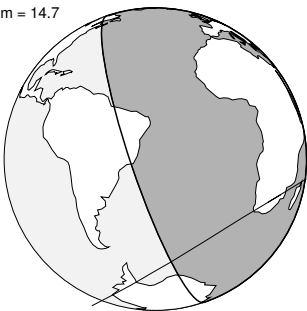
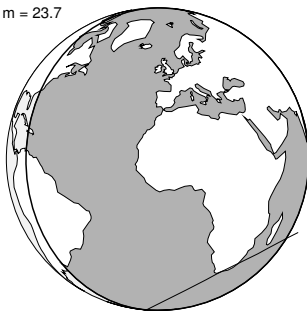
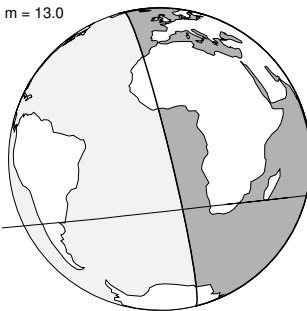
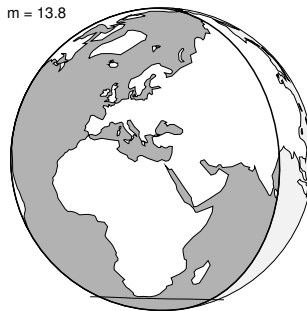
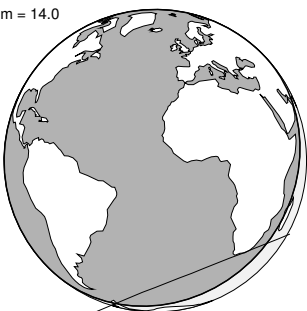

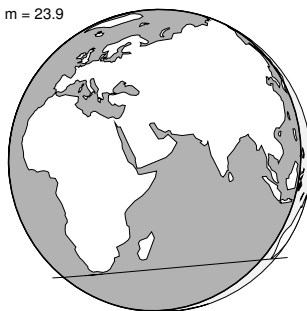
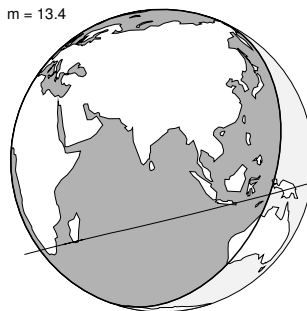
Occultations by major and minor planets – 2022

Region 4

<p>2022 aug 7 21h25.2m A22_08096 743 Eugénis TYC 5736–00135–1 Diam = 55.7 m = 11.2 m = 14.2</p>  <p>Dur = 5.4s Dmag = 3.1 Sun: 159° Moon: 40°</p>	<p>2022 aug 18 20h52.3m A22_08003 3 Juno TYC 5243–00518–1 Diam = 257.6 m = 12.1 m = 8.5</p>  <p>Dur = 31.5s Dmag = 0.0 Sun: 156° Moon: 63°</p>	<p>2022 aug 19 1h24.9m A22_08104 776 Berbericia TYC 7985–00811–1 Diam = 121.3 m = 11.5</p>  <p>Dur = 11.4s Dmag = 0.6 Sun: 152° Moon: 99°</p>	<p>2022 aug 21 22h18.4m A22_08118 884 Priamus UCAC4 385–156349 Diam = 72.1 m = 12.0 m = 15.3</p>  <p>Dur = 5.0s Dmag = 3.3 Sun: 166° Moon: 133°</p>
<p>2022 aug 24 22h40.2m A22_08074 527 Euryanthe TYC 6395–00719–1 Diam = 55.2 m = 9.8 m = 13.1</p>  <p>Dur = 6.1s Dmag = 3.3 Sun: 164° Moon: 142°</p>	<p>2022 aug 29 18h26.3m A22_08023 70 Panopaea UCAC4 259–135878 Diam = 127.0 m = 11.8 m = 11.9</p>  <p>Dur = 14.3s Dmag = 0.8 Sun: 111° Moon: 85°</p>	<p>2022 aug 29 19h39.4m A22_08018 55 Pandora TYC 6787–01925–1 Diam = 67.5 m = 10.4 m = 13.3</p>  <p>Dur = 3.8s Dmag = 2.9 Sun: 86° Moon: 58°</p>	<p>2022 aug 29 19h57.2m A22_08110 786 Bredichina PPMX 12679426 Diam = 93.2 m = 12.3 m = 13.8</p>  <p>Dur = 16.3s Dmag = 1.7 Sun: 114° Moon: 86°</p>
<p>2022 aug 30 16h58.1m B22_08003 306792 2001KQ77 UCAC5 375–117882 Diam = 151.4 m = 15.0 m = 22.7</p>  <p>Dur = 16.0s Dmag = 7.7 Sun: 119° Moon: 80°</p>	<p>2022 aug 30 21h51.9m A22_08091 695 Bella TYC 1744–00526–1 Diam = 51.2 m = 11.5 m = 12.6</p>  <p>Dur = 9.7s Dmag = 1.4 Sun: 131° Moon: 155°</p>	<p>2022 sep 2 16h 4.1m A22_09005 10 Hygiea UCAC5 356–069078 Diam = 429.0 m = 12.4 m = 11.0</p>  <p>Dur = 14.5s Dmag = 0.3 Sun: 67° Moon: 9°</p>	<p>2022 sep 3 19h33.9m A22_09155 2893 Peiroos Gaia 066–0635748 Diam = 92.8 m = 12.2 m = 16.4</p>  <p>Dur = 26.2s Dmag = 4.2 Sun: 122° Moon: 31°</p>
<p>2022 sep 11 20h59.6m A22_09040 139 Juewa TYC 5823–00155–1 Diam = 164.0 m = 11.6 m = 12.4</p>  <p>Dur = 11.0s Dmag = 1.3 Sun: 171° Moon: 26°</p>	<p>2022 sep 12 22h 3.1m A22_09114 738 Alagasta TYC 0034–00971–1 Diam = 64.8 m = 12.4 m = 15.2</p>  <p>Dur = 7.5s Dmag = 2.9 Sun: 144° Moon: 4°</p>	<p>2022 sep 13 23h13.0m A22_09146 1628 Strobil UCAC4 449–133730 Diam = 59.1 m = 12.3 m = 14.8</p>  <p>Dur = 4.3s Dmag = 2.5 Sun: 156° Moon: 67°</p>	<p>2022 sep 16 19h 1.6m A22_09075 382 Dodona UCAC4 315–117491 Diam = 60.0 m = 11.3 m = 14.1</p>  <p>Dur = 3.3s Dmag = 2.8 Sun: 91° Moon: 166°</p>

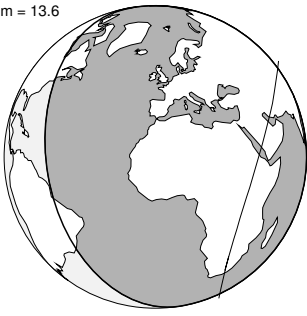
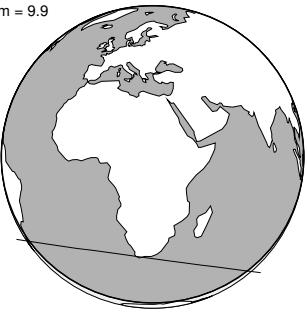
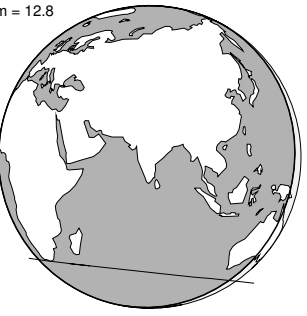


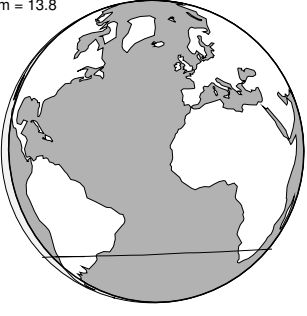
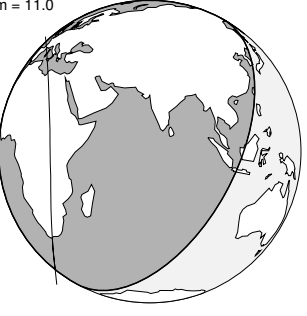
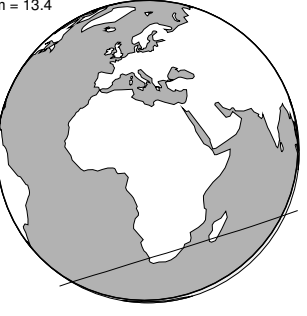
Occultations by major and minor planets – 2022

Region 4

<p>2022 sep 19 22h58.3m A22_09036 127 Johanna TYC 7441-00601-1 Diam = 91.2 m = 12.1 m = 13.3</p>  <p>Dur = 21.0s Dmag = 1.5 Sun: 121° Moon: 169°</p>	<p>2022 sep 20 18h41.4m A22_09025 72 Feronia UCAC4 378-156781 Diam = 89.3 m = 11.0 m = 12.4</p>  <p>Dur = 9.7s Dmag = 1.6 Sun: 112° Moon: 165°</p>	<p>2022 sep 27 19h33.1m A22_09098 545 Messalina TYC 7330-00607-1 Diam = 115.0 m = 11.5 m = 14.4</p>  <p>Dur = 3.6s Dmag = 3.0 Sun: 62° Moon: 40°</p>	<p>2022 oct 7 18h13.6m A22_10061 258 Tyche UCAC4 413-098505 Diam = 67.7 m = 12.2 m = 12.9</p>  <p>Dur = 3.4s Dmag = 1.1 Sun: 88° Moon: 67°</p>
<p>2022 oct 10 20h34.5m A22_10008 23 Thalia UCAC4 404-000917 Diam = 111.0 m = 12.4 m = 10.9</p>  <p>Dur = 8.6s Dmag = 0.3 Sun: 163° Moon: 25°</p>	<p>2022 oct 18 20h12.1m A22_10027 90 Antiope TYC 6342-01585-1 Diam = 125.0 m = 11.5 m = 13.2</p>  <p>Dur = 9.4s Dmag = 1.9 Sun: 101° Moon: 177°</p>	<p>2022 oct 23 18h 4.4m A22_10057 238 Hypatia UCAC4 387-088022 Diam = 156.0 m = 12.4 m = 14.0</p>  <p>Dur = 4.9s Dmag = 1.8 Sun: 60° Moon: 81°</p>	<p>2022 oct 28 17h18.5m A22_10078 407 Arachne UCAC4 391-128468 Diam = 97.0 m = 11.8 m = 13.6</p>  <p>Dur = 6.7s Dmag = 2.0 Sun: 96° Moon: 54°</p>
<p>2022 oct 29 20h58.8m A22_10087 503 Evelyn TYC 6359-01377-1 Diam = 79.5 m = 10.3 m = 14.7</p>  <p>Dur = 7.7s Dmag = 4.4 Sun: 99° Moon: 41°</p>	<p>2022 oct 30 22h15.5m A22_10165 91554 1999RZ215 PPMX 5793930 Diam = 114.8 m = 12.1 m = 23.7</p>  <p>Dur = 5.4s Dmag = 11.6 Sun: 150° Moon: 83°</p>	<p>2022 oct 31 18h 1.1m A22_10022 72 Feronia UCAC4 378-166365 Diam = 89.3 m = 11.5 m = 13.0</p>  <p>Dur = 4.0s Dmag = 1.7 Sun: 85° Moon: 10°</p>	<p>2022 nov 25 0h31.4m A22_11098 665 Sabine TYC 2436-00187-1 Diam = 56.1 m = 11.4 m = 13.8</p>  <p>Dur = 5.5s Dmag = 2.6 Sun: 140° Moon: 156°</p>
<p>2022 nov 25 2h18.6m A22_11133 1469 Linzia UCAC4 476-010129 Diam = 60.2 m = 11.3 m = 14.0</p>  <p>Dur = 4.9s Dmag = 2.8 Sun: 156° Moon: 159°</p>	<p>2022 nov 30 20h 1.2m A22_11138 1749 Telamon TYC 1808-01907-1 Diam = 115.0 m = 11.2 m = 15.6</p>  <p>Dur = 7.4s Dmag = 4.4 Sun: 169° Moon: 80°</p>	<p>2022 nov 30 21h49.5m A22_11156 91205 1998US43 TYC 1312-01782-1 Diam = 104.7 m = 9.4 m = 23.9</p>  <p>Dur = 4.4s Dmag = 14.5 Sun: 157° Moon: 106°</p>	<p>2022 dec 1 20h57.6m A22_12065 490 Veritas TYC 0767-00135-1 Diam = 121.0 m = 9.4 m = 13.4</p>  <p>Dur = 16.0s Dmag = 4.0 Sun: 138° Moon: 113°</p>

Occultations by major and minor planets – 2022

Region 4

<p>2022 dec 1 21h 4.9m A22_12071 543 Charlotte TYC 1203-00957-1 Diam = 44.2 m = 10.2 m = 13.6</p>  <p>Dur = 9.0s Dmag = 3.4 Sun: 136° Moon: 35°</p>	<p>2022 dec 4 22h 3.0m A22_12069 532 Herculina UCAC4 486-007786 Diam = 216.5 m = 11.4 m = 9.9</p>  <p>Dur = 15.1s Dmag = 0.3 Sun: 164° Moon: 37°</p>	<p>2022 dec 12 19h53.7m A22_12014 100 Hekate UCAC4 541-028018 Diam = 92.0 m = 10.8 m = 12.8</p>  <p>Dur = 6.4s Dmag = 2.2 Sun: 162° Moon: 36°</p>	<p>2022 dec 18 1h27.4m A22_12032 224 Oceana UCAC4 611-033476 Diam = 79.8 m = 12.4 m = 12.5</p>  <p>Dur = 6.5s Dmag = 0.8 Sun: 165° Moon: 98°</p>
<p>2022 dec 20 23h46.8m A22_12123 1082 Pirola PPMX 6119625 Diam = 47.0 m = 12.5 m = 15.7</p>  <p>Dur = 3.7s Dmag = 3.2 Sun: 153° Moon: 120°</p>	<p>2022 dec 23 0h17.1m A22_12048 316 Goberta TYC 1275-01040-1 Diam = 49.3 m = 9.8 m = 13.8</p>  <p>Dur = 5.0s Dmag = 4.1 Sun: 161° Moon: 166°</p>	<p>2022 dec 25 22h36.7m A22_12084 654 Zelinda TYC 0236-01589-1 Diam = 132.0 m = 12.2 m = 11.0</p>  <p>Dur = 12.1s Dmag = 0.3 Sun: 124° Moon: 154°</p>	<p>2022 dec 28 23h24.5m A22_12131 1197 Rhodisia TYC 0757-00888-1 Diam = 49.0 m = 11.0 m = 13.4</p>  <p>Dur = 4.2s Dmag = 2.5 Sun: 167° Moon: 111°</p>