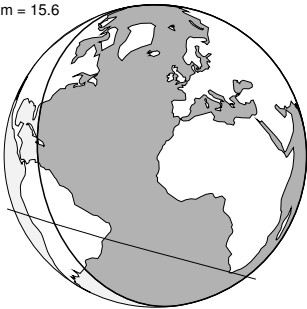
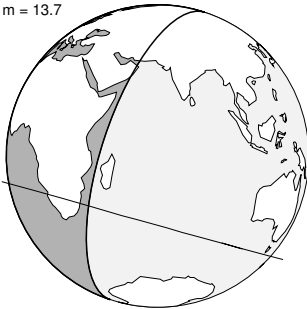
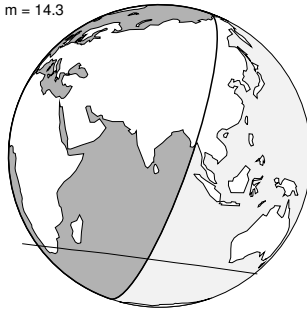
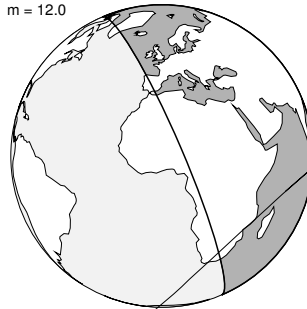
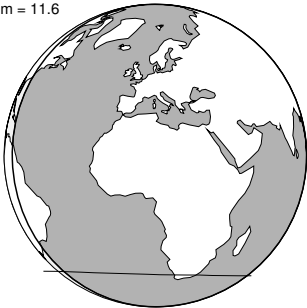
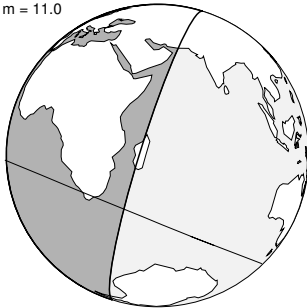
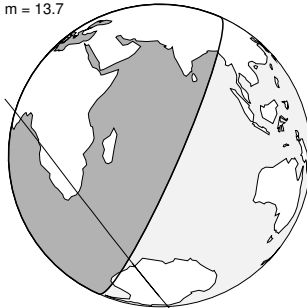
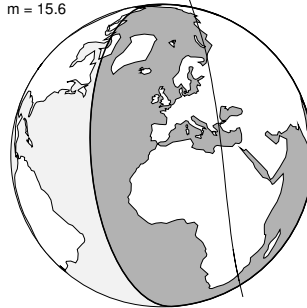
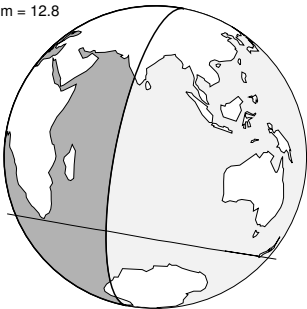
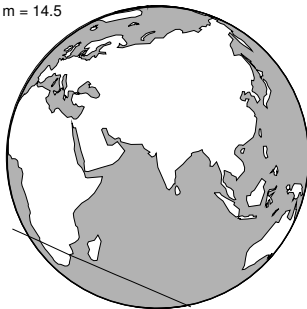


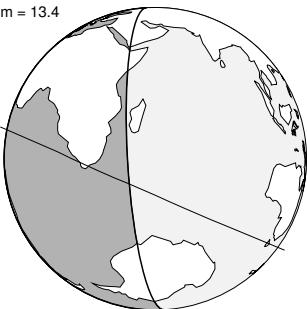
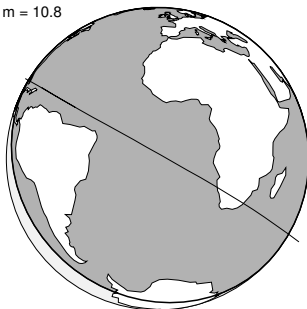
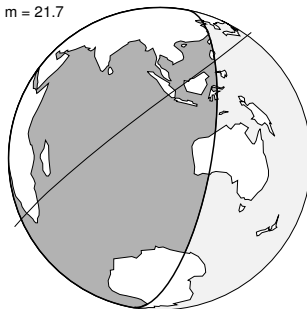
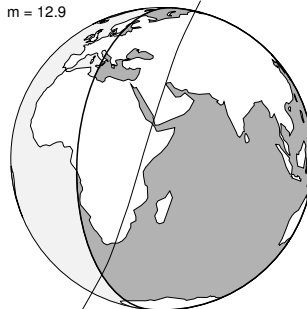


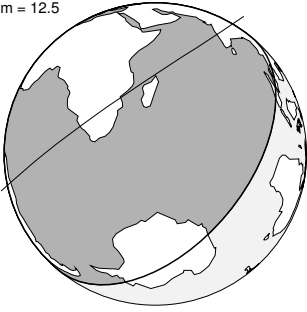
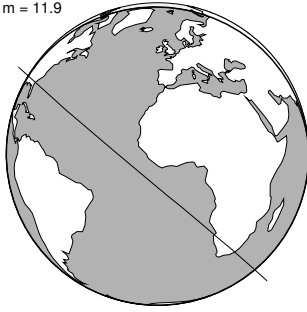
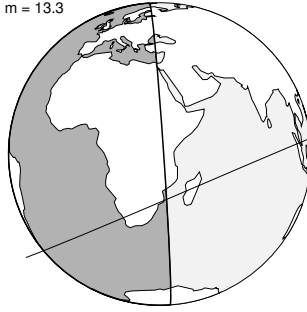
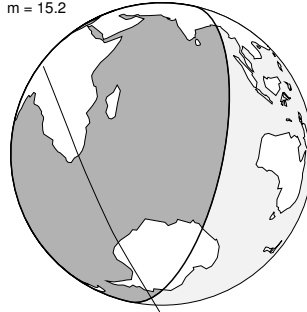
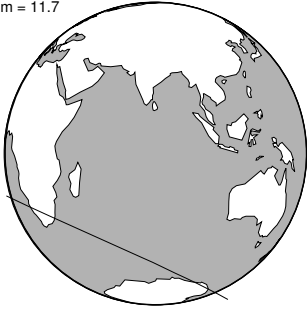
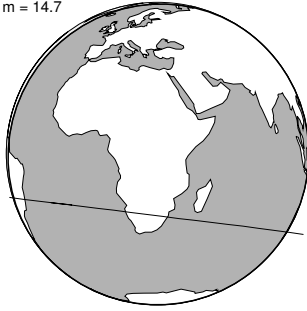
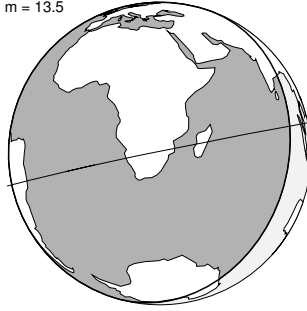
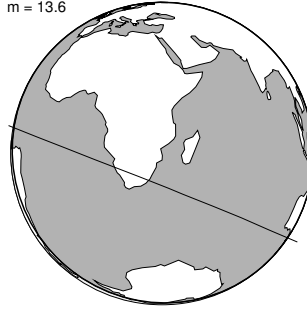
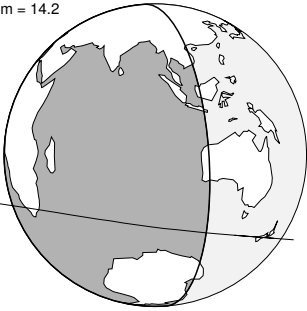
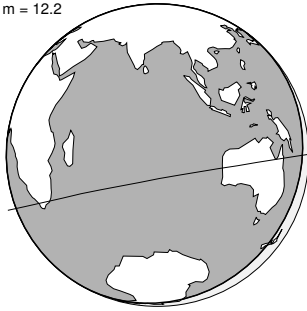
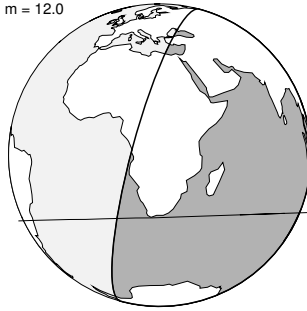
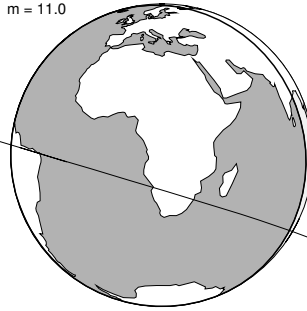
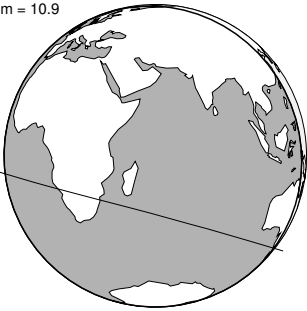
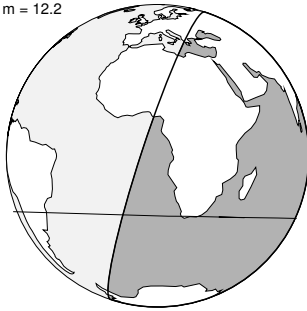
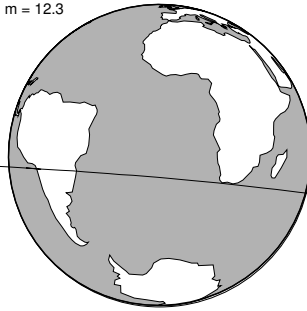
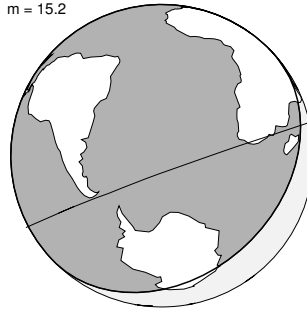
# Occultations by major and minor planets – 2023

# Region 4

<p><b>2023 jan 3 22h24.1m</b> A23_01139 1484 Postrema UCAC4 562-008974 Diam = 46.3 m = 11.8 m = 15.6</p>  <p>Dur = 4.7s Dmag = 3.9 Sun: 140° Moon: 6°</p>	<p><b>2023 jan 12 2h51.9m</b> A23_01064 268 Adorea TYC 5577-00378-1 Diam = 142.0 m = 9.9 m = 13.7</p>  <p>Dur = 4.8s Dmag = 3.9 Sun: 68° Moon: 56°</p>	<p><b>2023 jan 16 0h 9.9m</b> A23_01117 907 Rhoda TYC 0897-00174-1 Diam = 65.8 m = 11.3 m = 14.3</p>  <p>Dur = 5.9s Dmag = 3.0 Sun: 101° Moon: 30°</p>	<p><b>2023 jan 16 17h17.1m</b> A23_01020 31 Euphrosyne UCAC4 507-001479 Diam = 248.0 m = 11.4 m = 12.0</p>  <p>Dur = 12.3s Dmag = 1.1 Sun: 82° Moon: 152°</p>
<p><b>2023 jan 19 22h11.7m</b> A23_01023 43 Ariadne TYC 1342-01201-1 Diam = 65.3 m = 9.9 m = 11.6</p>  <p>Dur = 5.4s Dmag = 1.9 Sun: 161° Moon: 169°</p>	<p><b>2023 jan 27 2h40.6m</b> A23_01010 7 Iris TYC 6161-01552-1 Diam = 329.6 m = 11.1 m = 11.0</p>  <p>Dur = 18.5s Dmag = 0.8 Sun: 83° Moon: 154°</p>	<p><b>2023 jan 28 0h35.7m</b> A23_01106 762 Pulcova HIP 66029 Diam = 142.0 m = 9.1 m = 13.7</p>  <p>Dur = 9.7s Dmag = 4.6 Sun: 97° Moon: 166°</p>	<p><b>2023 jan 30 19h58.7m</b> A23_01097 588 Achilles PPMX 3932611 Diam = 147.0 m = 12.5 m = 15.6</p>  <p>Dur = 26.7s Dmag = 3.2 Sun: 118° Moon: 8°</p>
<p><b>2023 feb 7 1h25.0m</b> A23_02008 19 Fortuna Gaia 070-0138933 Diam = 149.0 m = 11.5 m = 12.8</p>  <p>Dur = 6.2s Dmag = 1.5 Sun: 74° Moon: 92°</p>	<p><b>2023 feb 8 18h57.2m</b> A23_02102 861 Aida UCAC4 554-044155 Diam = 70.1 m = 11.6 m = 14.5</p>  <p>Dur = 4.7s Dmag = 3.0 Sun: 171° Moon: 40°</p>	<p><b>2023 mar 1 0h12.5m</b> A23_03001 2 Pallas Gaia 075-0030692 Diam = 530.9 m = 9.4 m = 7.9</p>  <p>Dur = 27.6s Dmag = 0.3 Sun: 113° Moon: 44°</p>	<p><b>2023 mar 1 21h54.8m</b> A23_03160 866 Fatme TYC 4997-00771-1 Diam = 91.7 m = 11.2 m = 14.7</p>  <p>Dur = 32.2s Dmag = 3.6 Sun: 119° Moon: 120°</p>
<p><b>2023 mar 12 3h15.8m</b> A23_03098 326 Tamara UCAC4 272-150358 Diam = 100.0 m = 10.2 m = 13.4</p>  <p>Dur = 3.4s Dmag = 3.3 Sun: 79° Moon: 48°</p>	<p><b>2023 mar 17 23h52.5m</b> A23_03110 405 Thia TYC 6075-01436-1 Diam = 129.0 m = 11.2 m = 10.8</p>  <p>Dur = 18.7s Dmag = 0.6 Sun: 156° Moon: 128°</p>	<p><b>2023 mar 23 21h57.7m</b> B23_03007 523706 2014HF200 UCAC5 302-089688 Diam = 275.4 m = 14.9 m = 21.7</p>  <p>Dur = 47.0s Dmag = 6.8 Sun: 109° Moon: 138°</p>	<p><b>2023 mar 29 17h16.3m</b> A23_03149 712 Boliviana HIP 43172 Diam = 132.0 m = 7.6 m = 12.9</p>  <p>Dur = 20.5s Dmag = 5.3 Sun: 124° Moon: 36°</p>

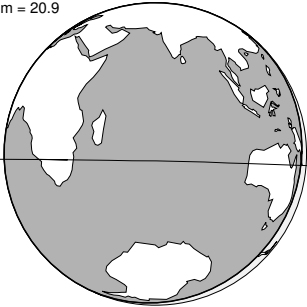
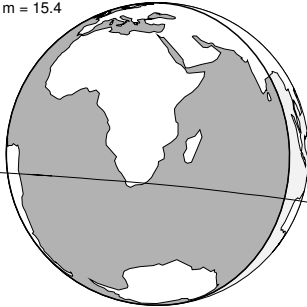
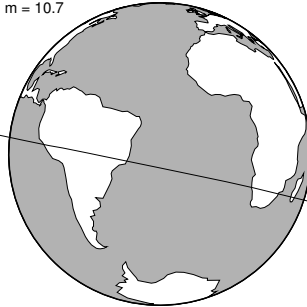
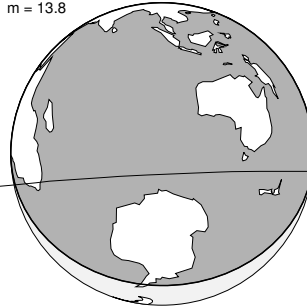
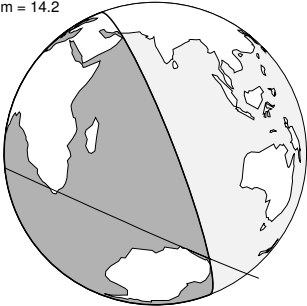
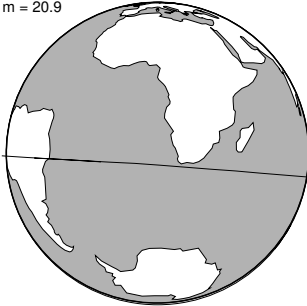
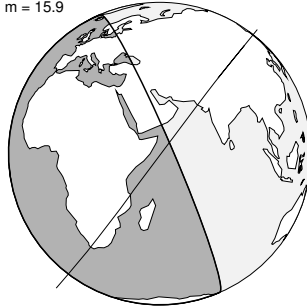
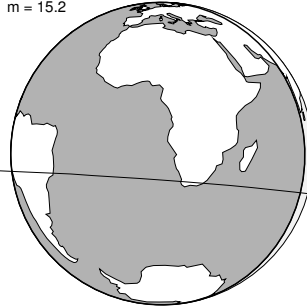
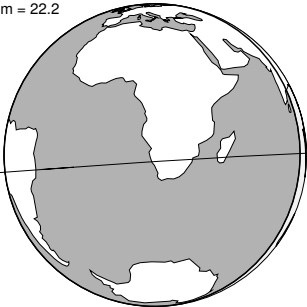
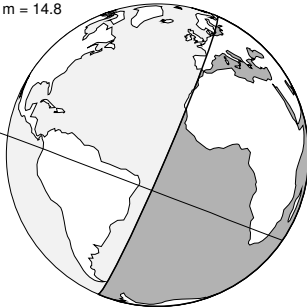
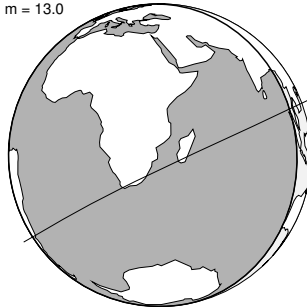
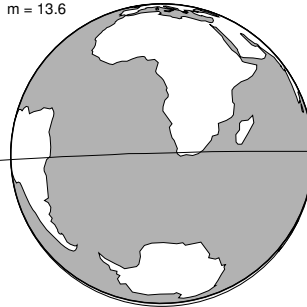
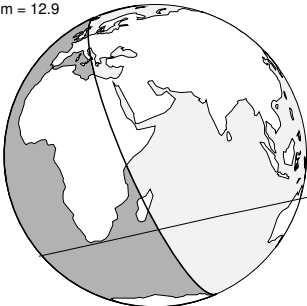
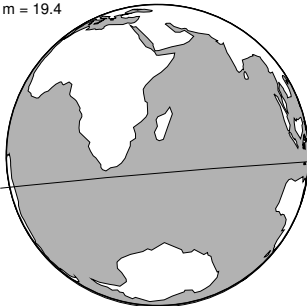
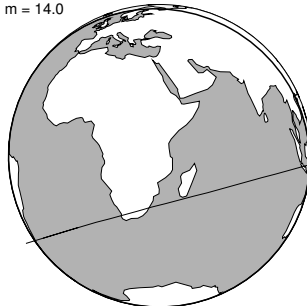
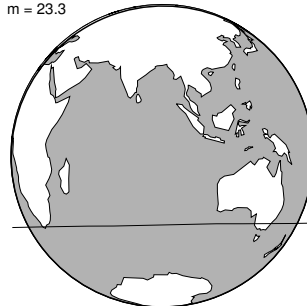
# Occultations by major and minor planets – 2023

# Region 4

<p><b>2023 mar 29 23h17.3m</b> A23_03148 702 Alauda PPMX 14540243 Diam = 202.0 m = 12.2 m = 12.5</p>  <p>Dur = 29.5s Dmag = 0.9 Sun: 128° Moon: 126°</p>	<p><b>2023 mar 31 0h54.6m</b> A23_03072 194 Prokne PPMX 7266763 Diam = 174.0 m = 11.9</p>  <p>Dur = 11.4s Dmag = 0.6 Sun: 165° Moon: 66°</p>	<p><b>2023 mar 31 3h45.0m</b> A23_03088 246 Asporina UCAC4 422-080817 Diam = 63.8 m = 11.9 m = 13.3</p>  <p>Dur = 3.3s Dmag = 1.7 Sun: 91° Moon: 147°</p>	<p><b>2023 apr 7 23h51.9m</b> A23_04087 445 Edna UCAC4 243-122879 Diam = 89.0 m = 12.1 m = 15.2</p>  <p>Dur = 21.4s Dmag = 3.2 Sun: 113° Moon: 46°</p>
<p><b>2023 apr 14 18h11.8m</b> A23_04059 270 Anahita UCAC4 398-054894 Diam = 52.2 m = 12.5 m = 11.7</p>  <p>Dur = 4.5s Dmag = 0.4 Sun: 173° Moon: 113°</p>	<p><b>2023 apr 19 21h30.4m</b> A23_04111 859 Bouzaréah HIP 64498 Diam = 77.5 m = 7.6 m = 14.7</p>  <p>Dur = 5.2s Dmag = 7.1 Sun: 167° Moon: 171°</p>	<p><b>2023 apr 22 0h 5.8m</b> A23_04039 152 Atala TYC 6783-02089-1 Diam = 89.9 m = 8.5 m = 13.5</p>  <p>Dur = 8.5s Dmag = 5.0 Sun: 147° Moon: 171°</p>	<p><b>2023 apr 23 21h 4.7m</b> A23_04060 283 Emma TYC 6133-00097-1 Diam = 150.0 m = 10.5 m = 13.6</p>  <p>Dur = 10.3s Dmag = 3.2 Sun: 168° Moon: 131°</p>
<p><b>2023 apr 23 22h34.1m</b> A23_04050 203 Pompeja UCAC5 317-196028 Diam = 120.0 m = 11.8 m = 14.2</p>  <p>Dur = 18.5s Dmag = 2.5 Sun: 110° Moon: 157°</p>	<p><b>2023 apr 27 19h23.8m</b> A23_04041 161 Athor Gaia 064-0146072 Diam = 45.7 m = 12.4 m = 12.2</p>  <p>Dur = 5.1s Dmag = 0.7 Sun: 159° Moon: 110°</p>	<p><b>2023 may 6 16h53.4m</b> A23_05078 654 Zelinda TYC 5463-01013-1 Diam = 132.0 m = 10.7 m = 12.0</p>  <p>Dur = 8.4s Dmag = 1.6 Sun: 100° Moon: 90°</p>	<p><b>2023 may 9 23h55.1m</b> A23_05020 45 Eugenia UCAC4 398-064286 Diam = 214.0 m = 11.6 m = 11.0</p>  <p>Dur = 24.3s Dmag = 0.5 Sun: 160° Moon: 42°</p>
<p><b>2023 may 12 21h 9.3m</b> A23_05021 45 Eugenia TYC 5617-00936-1 Diam = 214.0 m = 11.0 m = 10.9</p>  <p>Dur = 23.4s Dmag = 0.7 Sun: 163° Moon: 82°</p>	<p><b>2023 may 15 17h37.5m</b> A23_05080 654 Zelinda TYC 5465-00882-1 Diam = 132.0 m = 12.2 m = 12.2</p>  <p>Dur = 7.2s Dmag = 0.7 Sun: 96° Moon: 138°</p>	<p><b>2023 may 17 0h53.7m</b> A23_05027 75 Eurydike TYC 6786-01543-1 Diam = 58.3 m = 10.0 m = 12.3</p>  <p>Dur = 5.3s Dmag = 2.4 Sun: 170° Moon: 141°</p>	<p><b>2023 may 17 2h50.5m</b> A23_05093 1005 Arago UCAC4 207-139210 Diam = 62.7 m = 12.2 m = 15.2</p>  <p>Dur = 5.0s Dmag = 3.0 Sun: 144° Moon: 119°</p>

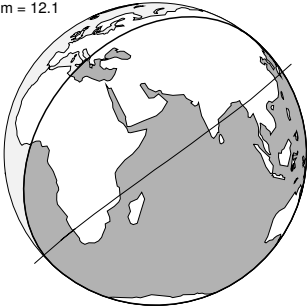
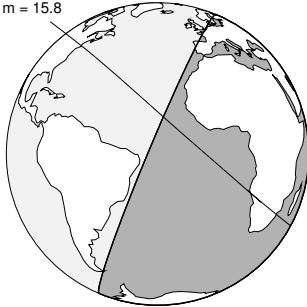
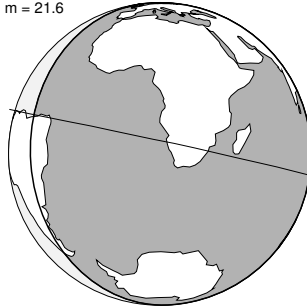
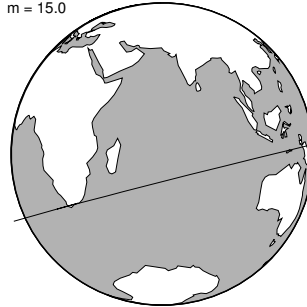
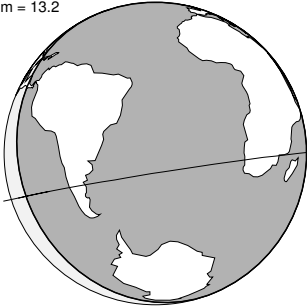
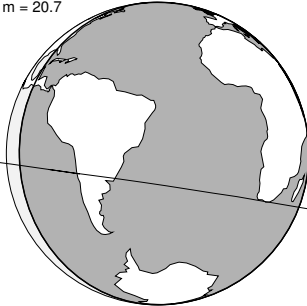
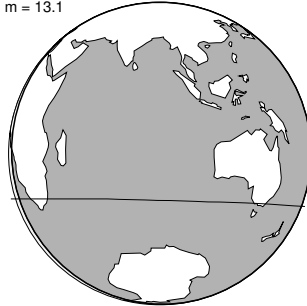
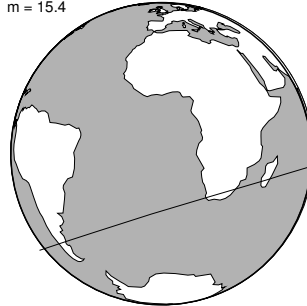
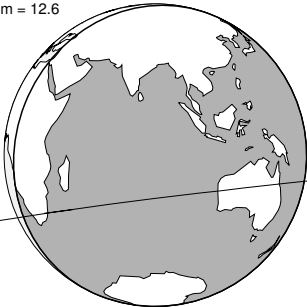
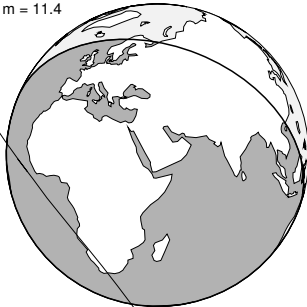
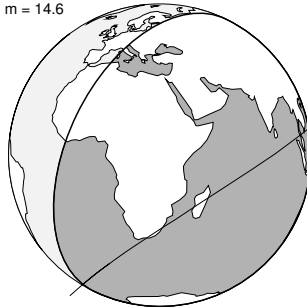
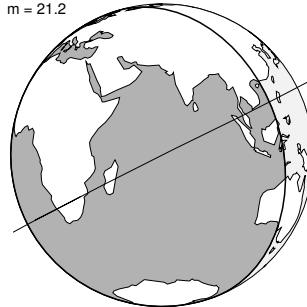
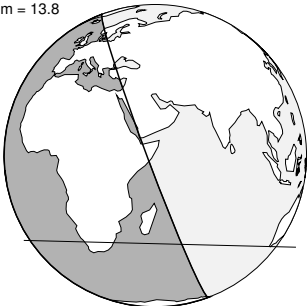
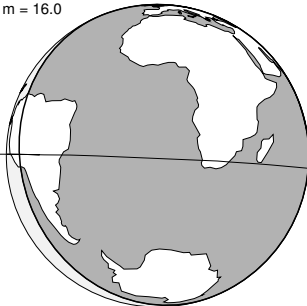
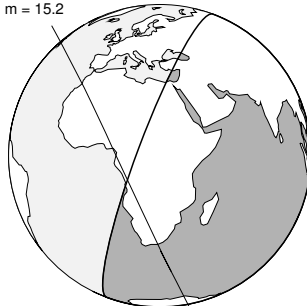
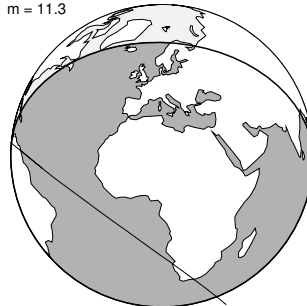
# Occultations by major and minor planets – 2023

# Region 4

<p><b>2023 may 22 20h17.3m</b> B23_05003 47932 2000GN171 UCAC4 294-106307 Diam = 239.9 m = 13.6 m = 20.9</p>  <p>Dur = 10.7s Dmag = 7.3 Sun: 162° Moon: 158°</p>	<p><b>2023 may 28 23h53.5m</b> A23_05099 1057 Wanda UCAC4 338-151624 Diam = 49.1 m = 12.1 m = 15.4</p>  <p>Dur = 5.9s Dmag = 3.4 Sun: 150° Moon: 104°</p>	<p><b>2023 may 29 1h37.1m</b> A23_05010 19 Fortuna UCAC5 352-074273 Diam = 149.0 m = 12.4 m = 10.7</p>  <p>Dur = 11.7s Dmag = 0.2 Sun: 176° Moon: 71°</p>	<p><b>2023 jun 1 17h18.9m</b> A23_06080 501 Urhixidur TYC 8337-02278-1 Diam = 80.1 m = 11.2 m = 13.8</p>  <p>Dur = 6.2s Dmag = 2.7 Sun: 150° Moon: 44°</p>
<p><b>2023 jun 2 1h19.3m</b> A23_06061 350 Ornamenta UCAC5 308-253959 Diam = 123.0 m = 12.5 m = 14.2</p>  <p>Dur = 7.0s Dmag = 1.9 Sun: 97° Moon: 108°</p>	<p><b>2023 jun 4 23h28.3m</b> B23_06001 47932 2000GN171 UCAC4 294-104836 Diam = 239.9 m = 13.1 m = 20.9</p>  <p>Dur = 10.3s Dmag = 7.8 Sun: 171° Moon: 10°</p>	<p><b>2023 jun 6 2h 0.3m</b> A23_06086 643 Scheherazade TYC 0566-01122-1 Diam = 76.1 m = 10.9 m = 15.9</p>  <p>Dur = 5.3s Dmag = 5.0 Sun: 94° Moon: 61°</p>	<p><b>2023 jun 7 0h44.1m</b> A23_06115 1057 Wanda UCAC4 339-131677 Diam = 49.1 m = 11.8 m = 15.2</p>  <p>Dur = 4.7s Dmag = 3.5 Sun: 160° Moon: 21°</p>
<p><b>2023 jun 10 0h 4.5m</b> B23_06005 119069 2001KN77 UCAC4 325-161338 Diam = 158.5 m = 14.7 m = 22.2</p>  <p>Dur = 7.1s Dmag = 7.5 Sun: 163° Moon: 62°</p>	<p><b>2023 jun 15 19h42.3m</b> A23_06083 586 Thekla UCAC4 464-046628 Diam = 85.0 m = 11.6 m = 14.8</p>  <p>Dur = 4.6s Dmag = 3.3 Sun: 86° Moon: 114°</p>	<p><b>2023 jun 17 23h24.9m</b> A23_06065 380 Fiducia TYC 6889-01154-1 Diam = 76.3 m = 11.3 m = 13.0</p>  <p>Dur = 10.3s Dmag = 1.9 Sun: 154° Moon: 152°</p>	<p><b>2023 jun 19 23h22.5m</b> A23_06032 109 Felicitas UCAC4 277-144122 Diam = 91.0 m = 11.9 m = 13.6</p>  <p>Dur = 6.0s Dmag = 1.9 Sun: 168° Moon: 161°</p>
<p><b>2023 jun 21 3h26.3m</b> A23_06011 28 Bellona UCAC4 452-001011 Diam = 126.0 m = 12.0 m = 12.9</p>  <p>Dur = 5.7s Dmag = 1.3 Sun: 78° Moon: 112°</p>	<p><b>2023 jun 25 21h 2.5m</b> A23_06144 28978 Ixion UCAC4 294-170244 Diam = 794.3 m = 11.8 m = 19.4</p>  <p>Dur = 32.0s Dmag = 7.6 Sun: 172° Moon: 95°</p>	<p><b>2023 jun 27 22h13.9m</b> A23_06119 1069 Planckia UCAC4 402-098253 Diam = 43.2 m = 11.3 m = 14.0</p>  <p>Dur = 3.3s Dmag = 2.7 Sun: 164° Moon: 81°</p>	<p><b>2023 jul 3 17h46.6m</b> B23_07015 2002GA32 UCAC5 377-109825 Diam = 120.2 m = 14.9 m = 23.3</p>  <p>Dur = 5.0s Dmag = 8.4 Sun: 170° Moon: 15°</p>

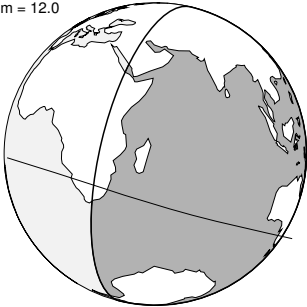
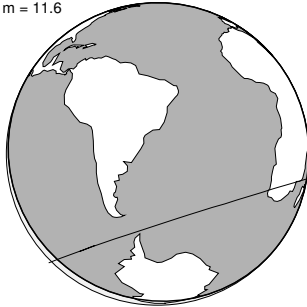
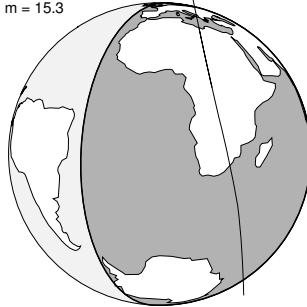
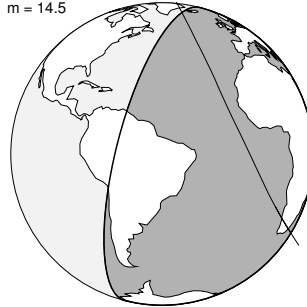
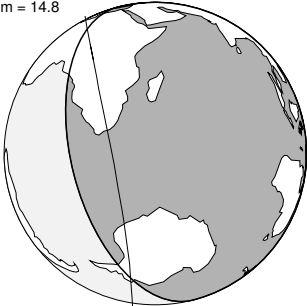
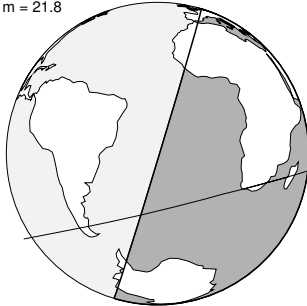
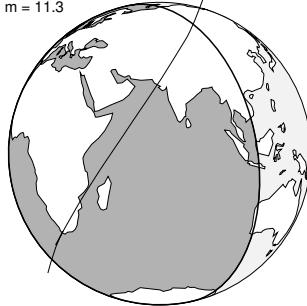
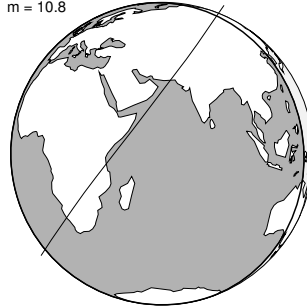
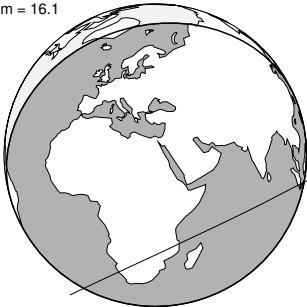
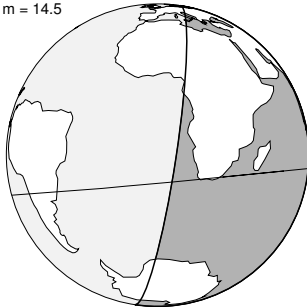
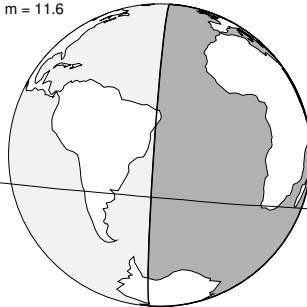
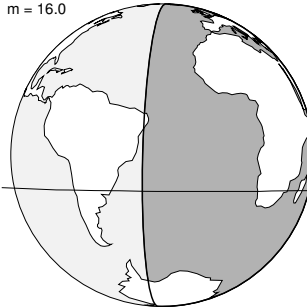
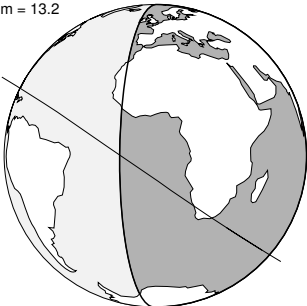
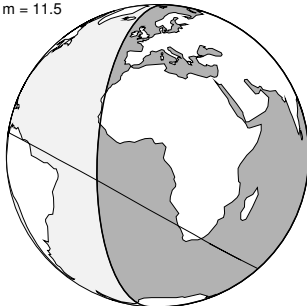
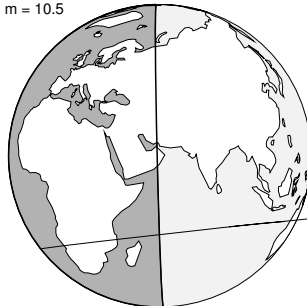
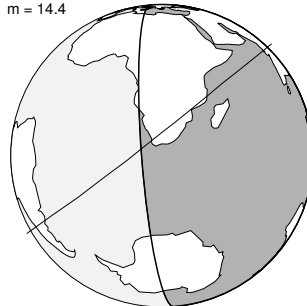
# Occultations by major and minor planets – 2023

# Region 4

<p><b>2023 jul 3 18h17.0m</b> A23_07052 218 Bianca UCAC4 462-058567 Diam = 62.0 m = 12.0</p>  <p>Dur = 9.2s Dmag = 0.8 Sun: 139° Moon: 46°</p>	<p><b>2023 jul 3 20h 3.0m</b> A23_07096 859 Bouzaréah HIP 63139 Diam = 77.5 m = 7.2</p>  <p>Dur = 5.9s Dmag = 8.6 Sun: 93° Moon: 91°</p>	<p><b>2023 jul 3 21h 0.4m</b> B23_07013 523706 2014HF200 UCAC4 302-091616 Diam = 275.4 m = 13.7</p>  <p>Dur = 14.1s Dmag = 7.9 Sun: 148° Moon: 36°</p>	<p><b>2023 jul 5 19h18.0m</b> A23_07108 943 Begonia UCAC4 355-154983 Diam = 72.0 m = 11.4</p>  <p>Dur = 4.5s Dmag = 3.6 Sun: 174° Moon: 38°</p>
<p><b>2023 jul 6 0h 5.4m</b> A23_07098 886 Washingtonia UCAC4 272-102519 Diam = 93.3 m = 11.0</p>  <p>Dur = 8.1s Dmag = 2.3 Sun: 154° Moon: 58°</p>	<p><b>2023 jul 6 0h36.7m</b> B23_07006 278361 2007JJ43 UCAC4 322-104061 Diam = 524.8 m = 13.5</p>  <p>Dur = 23.9s Dmag = 7.2 Sun: 156° Moon: 59°</p>	<p><b>2023 jul 8 17h13.9m</b> A23_07047 203 Pompeja UCAC4 311-199134 Diam = 120.0 m = 12.0</p>  <p>Dur = 10.5s Dmag = 1.4 Sun: 167° Moon: 84°</p>	<p><b>2023 jul 11 0h51.6m</b> A23_07134 2634 James Bradley UCAC4 361-195352 Diam = 46.5 m = 11.2</p>  <p>Dur = 3.4s Dmag = 4.2 Sun: 170° Moon: 92°</p>
<p><b>2023 jul 12 16h52.1m</b> A23_07011 34 Circe UCAC4 375-107225 Diam = 118.0 m = 11.4</p>  <p>Dur = 11.5s Dmag = 1.5 Sun: 158° Moon: 141°</p>	<p><b>2023 jul 13 22h 8.0m</b> A23_07102 914 Palisana UCAC4 546-129980 Diam = 79.0 m = 11.6</p>  <p>Dur = 6.9s Dmag = 0.6 Sun: 136° Moon: 104°</p>	<p><b>2023 jul 19 18h47.6m</b> A23_07081 547 Praxedis UCAC4 447-062849 Diam = 73.0 m = 11.3</p>  <p>Dur = 10.8s Dmag = 3.4 Sun: 127° Moon: 106°</p>	<p><b>2023 jul 19 22h 7.5m</b> B23_07010 501214 2013TC146 UCAC4 394-127351 Diam = 193.2 m = 13.7</p>  <p>Dur = 10.7s Dmag = 7.5 Sun: 142° Moon: 165°</p>
<p><b>2023 jul 20 2h51.3m</b> A23_07061 304 Olga TYC 0036-01313-1 Diam = 68.5 m = 11.8</p>  <p>Dur = 3.2s Dmag = 2.1 Sun: 86° Moon: 113°</p>	<p><b>2023 jul 20 22h33.3m</b> A23_07127 1961 Dufour TYC 7396-00196-1 Diam = 55.5 m = 11.8</p>  <p>Dur = 4.6s Dmag = 4.2 Sun: 154° Moon: 122°</p>	<p><b>2023 jul 23 16h59.2m</b> A23_07082 581 Tauntonia TYC 0326-00860-1 Diam = 67.1 m = 10.2</p>  <p>Dur = 4.2s Dmag = 5.1 Sun: 98° Moon: 37°</p>	<p><b>2023 jul 24 23h35.0m</b> A23_07103 914 Palisana UCAC4 559-118031 Diam = 79.0 m = 11.5</p>  <p>Dur = 8.0s Dmag = 0.7 Sun: 138° Moon: 108°</p>

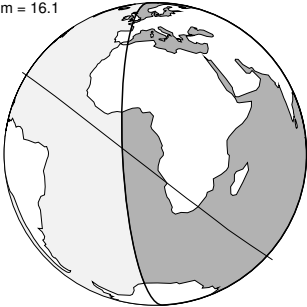
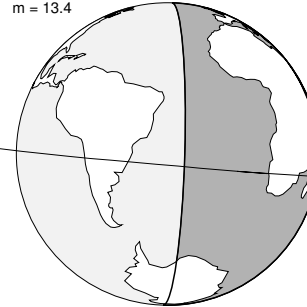
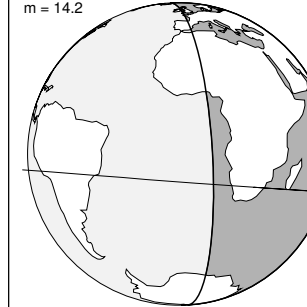
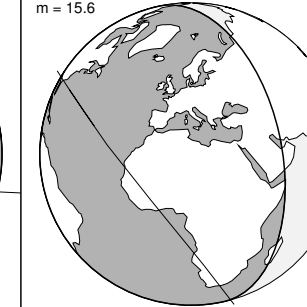
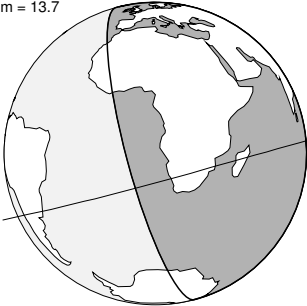
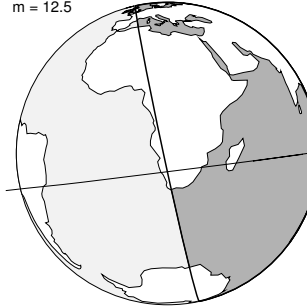
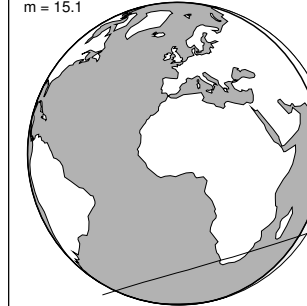
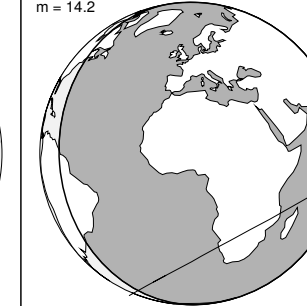
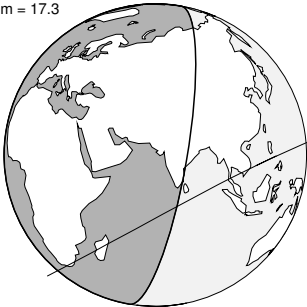
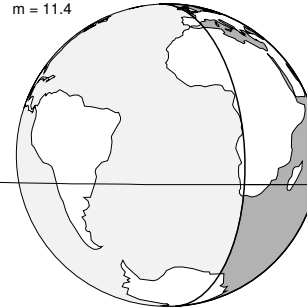
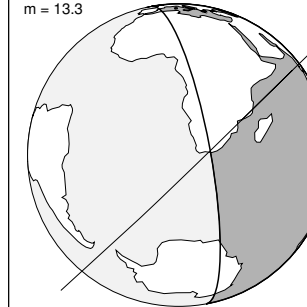
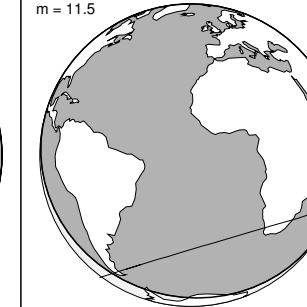
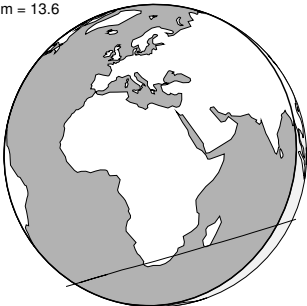

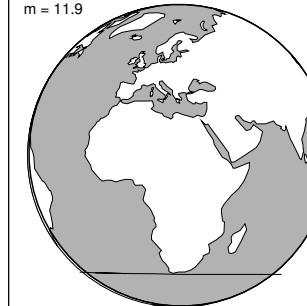
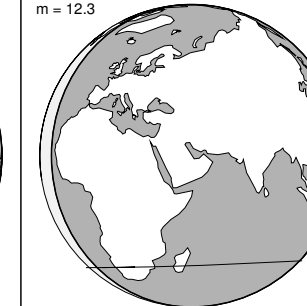
# Occultations by major and minor planets – 2023

# Region 4

<p><b>2023 jul 29 15h46.7m</b> A23_07006 19 Fortuna UCAC4 360–075030 Diam = 149.0 m = 12.4</p>  <p>Dur = 31.3s Dmag = 0.6 Sun: 111° Moon: 26°</p>	<p><b>2023 jul 30 2h19.8m</b> A23_07027 87 Sylvia UCAC5 289–189469 Diam = 271.0 m = 12.4 m = 11.6</p>  <p>Dur = 22.9s Dmag = 0.4 Sun: 163° Moon: 27°</p>	<p><b>2023 aug 7 19h55.3m</b> A23_08064 408 Fama TYC 6818–01068–1 Diam = 45.0 m = 10.0 m = 15.3</p>  <p>Dur = 11.0s Dmag = 5.3 Sun: 121° Moon: 141°</p>	<p><b>2023 aug 9 22h23.1m</b> A23_08058 357 Ninina TYC 5046–00867–1 Diam = 110.0 m = 9.0 m = 14.5</p>  <p>Dur = 10.9s Dmag = 5.5 Sun: 107° Moon: 162°</p>
<p><b>2023 aug 13 17h12.1m</b> A23_08087 733 Moccia UCAC4 223–155226 Diam = 92.0 m = 11.5 m = 14.8</p>  <p>Dur = 8.8s Dmag = 3.3 Sun: 123° Moon: 151°</p>	<p><b>2023 aug 13 19h 3.2m</b> A23_08126 82155 2001FZ173 TYC 6756–01451–1 Diam = 237.7 m = 9.3 m = 21.8</p>  <p>Dur = 29.7s Dmag = 12.5 Sun: 89° Moon: 118°</p>	<p><b>2023 aug 22 22h43.9m</b> A23_08005 14 Irene UCAC5 430–001635 Diam = 152.4 m = 12.5 m = 11.3</p>  <p>Dur = 27.0s Dmag = 0.3 Sun: 129° Moon: 153°</p>	<p><b>2023 sep 2 21h16.1m</b> A23_09037 97 Klotho TYC 4666–00796–1 Diam = 87.1 m = 9.8 m = 10.8</p>  <p>Dur = 9.7s Dmag = 1.4 Sun: 159° Moon: 20°</p>
<p><b>2023 sep 9 21h11.1m</b> A23_09151 4709 Ennomos TYC 2219–00573–1 Diam = 69.2 m = 10.9 m = 16.1</p>  <p>Dur = 4.2s Dmag = 5.1 Sun: 148° Moon: 113°</p>	<p><b>2023 sep 11 17h16.9m</b> A23_09106 576 Emanuela UCAC4 317–088948 Diam = 86.0 m = 11.9 m = 14.5</p>  <p>Dur = 4.0s Dmag = 2.7 Sun: 82° Moon: 120°</p>	<p><b>2023 sep 11 20h20.7m</b> A23_09018 20 Massalia UCAC4 339–091483 Diam = 151.0 m = 11.1 m = 11.6</p>  <p>Dur = 10.3s Dmag = 1.1 Sun: 92° Moon: 127°</p>	<p><b>2023 sep 12 20h20.3m</b> A23_09135 1057 Wanda UCAC4 344–113806 Diam = 49.1 m = 11.0 m = 16.0</p>  <p>Dur = 4.0s Dmag = 5.0 Sun: 97° Moon: 121°</p>
<p><b>2023 sep 15 18h49.2m</b> A23_09065 246 Asporina UCAC4 399–079422 Diam = 63.8 m = 12.5 m = 13.2</p>  <p>Dur = 4.4s Dmag = 1.2 Sun: 103° Moon: 95°</p>	<p><b>2023 sep 15 19h 2.0m</b> A23_09086 393 Lampetia UCAC4 449–094716 Diam = 106.0 m = 12.4 m = 11.5</p>  <p>Dur = 8.5s Dmag = 0.4 Sun: 113° Moon: 105°</p>	<p><b>2023 sep 19 2h 5.7m</b> A23_09008 9 Metis TYC 1311–00099–1 Diam = 231.2 m = 9.6 m = 10.5</p>  <p>Dur = 11.9s Dmag = 1.3 Sun: 89° Moon: 134°</p>	<p><b>2023 sep 19 16h57.5m</b> A23_09039 98 Ianthe UCAC4 258–170770 Diam = 109.0 m = 11.4 m = 14.4</p>  <p>Dur = 7.4s Dmag = 3.1 Sun: 97° Moon: 47°</p>

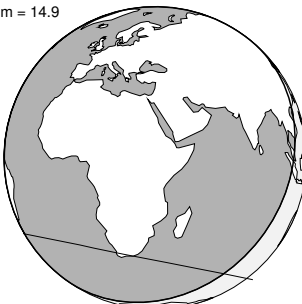
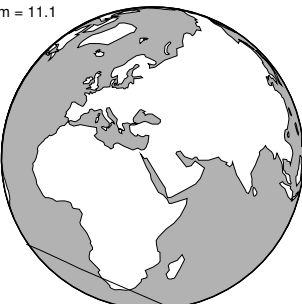

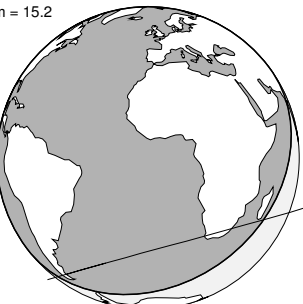
# Occultations by major and minor planets – 2023

# Region 4

<p><b>2023 sep 23 18h 1.0m</b> A23_09139 1330 Spiridonia UCAC4 393–101886 Diam = 58.0 m = 10.6 m = 16.1</p>  <p>Dur = 4.7s Dmag = 5.4 Sun: 102° Moon: 16°</p>	<p><b>2023 sep 27 19h38.6m</b> A23_09047 146 Lucina TYC 6840–00514–1 Diam = 137.0 m = 10.9 m = 13.4</p>  <p>Dur = 6.5s Dmag = 2.7 Sun: 83° Moon: 74°</p>	<p><b>2023 oct 11 17h29.7m</b> A23_10014 34 Circe UCAC4 359–139739 Diam = 118.0 m = 11.6 m = 14.2</p>  <p>Dur = 5.0s Dmag = 2.7 Sun: 77° Moon: 110°</p>	<p><b>2023 oct 12 2h29.0m</b> A23_10112 1323 Tugela UCAC4 589–012753 Diam = 60.1 m = 11.7 m = 15.6</p>  <p>Dur = 7.7s Dmag = 3.9 Sun: 126° Moon: 97°</p>
<p><b>2023 oct 19 18h 7.7m</b> A23_10050 240 Vanadis TYC 6338–01074–1 Diam = 108.0 m = 10.9 m = 13.7</p>  <p>Dur = 10.1s Dmag = 2.9 Sun: 100° Moon: 42°</p>	<p><b>2023 oct 21 16h53.6m</b> A23_10033 103 Hera HIP 99016 Diam = 95.2 m = 8.3 m = 12.5</p>  <p>Dur = 5.4s Dmag = 4.2 Sun: 91° Moon: 9°</p>	<p><b>2023 oct 23 1h 7.4m</b> A23_10119 2009 Voloshina TYC 0654–00275–1 Diam = 40.5 m = 11.6 m = 15.1</p>  <p>Dur = 3.9s Dmag = 3.6 Sun: 160° Moon: 97°</p>	<p><b>2023 oct 28 21h30.5m</b> A23_10104 1086 Nata TYC 0597–00460–1 Diam = 70.5 m = 11.5 m = 14.2</p>  <p>Dur = 7.0s Dmag = 2.7 Sun: 150° Moon: 30°</p>
<p><b>2023 oct 29 0h35.9m</b> A23_10129 5284 Orsilocus PPMX 6108576 Diam = 43.7 m = 12.4 m = 17.3</p>  <p>Dur = 5.6s Dmag = 4.9 Sun: 102° Moon: 76°</p>	<p><b>2023 oct 30 16h58.4m</b> A23_10007 11 Parthenope UCAC4 336–150380 Diam = 162.0 m = 11.6 m = 11.4</p>  <p>Dur = 4.7s Dmag = 0.7 Sun: 59° Moon: 145°</p>	<p><b>2023 nov 4 16h46.0m</b> A23_11055 247 Eukrate TYC 7454–00253–1 Diam = 137.0 m = 8.0 m = 13.3</p>  <p>Dur = 5.5s Dmag = 5.3 Sun: 77° Moon: 168°</p>	<p><b>2023 nov 6 0h23.6m</b> A23_11063 287 Nephthys UCAC4 433–002791 Diam = 70.1 m = 12.3 m = 11.5</p>  <p>Dur = 6.9s Dmag = 0.4 Sun: 159° Moon: 110°</p>
<p><b>2023 nov 16 23h40.8m</b> A23_11058 253 Mathilde UCAC4 513–009369 Diam = 61.0 m = 11.8 m = 13.6</p>  <p>Dur = 5.9s Dmag = 2.0 Sun: 157° Moon: 151°</p>	<p><b>2023 dec 7 21h34.7m</b> A23_12038 72 Feronia UCAC4 525–037836 Diam = 89.3 m = 12.2 m = 12.6</p>  <p>Dur = 9.7s Dmag = 1.0 Sun: 149° Moon: 89°</p>	<p><b>2023 dec 7 21h46.7m</b> A23_12130 758 Mancunia UCAC4 532–008189 Diam = 86.5 m = 12.3 m = 11.9</p>  <p>Dur = 8.1s Dmag = 0.6 Sun: 169° Moon: 128°</p>	<p><b>2023 dec 12 18h52.5m</b> A23_12036 70 Panopaea TYC 1803–01542–1 Diam = 127.0 m = 9.9 m = 12.3</p>  <p>Dur = 11.1s Dmag = 2.5 Sun: 157° Moon: 161°</p>

# Occultations by major and minor planets – 2023

# Region 4

<p><b>2023 dec 15 23h10.1m</b> A23_12133            781 Kartvelia TYC 0175-03104-1            Diam = 60.0 m = 11.6            m = 14.9</p>  <p>Dur = 4.4s Dmag = 3.3            Sun: 151° Moon: 155°</p>	<p><b>2023 dec 22 21h14.9m</b> A23_12132            776 Berbericia PPMX 4994932            Diam = 121.3 m = 12.3            m = 11.1</p>  <p>Dur = 9.0s Dmag = 0.3            Sun: 174° Moon: 47°</p>	<p><b>2023 dec 23 21h14.8m</b> A23_12104            481 Erita TYC 1241-01022-1            Diam = 116.0 m = 10.6            m = 12.1</p>  <p>Dur = 23.6s Dmag = 1.8            Sun: 141° Moon: 2°</p>	<p><b>2023 dec 31 1h58.7m</b> A23_12166            1712 Angola TYC 4850-01556-1            Diam = 66.2 m = 11.0            m = 15.2</p>  <p>Dur = 4.6s Dmag = 4.2            Sun: 147° Moon: 34°</p>
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