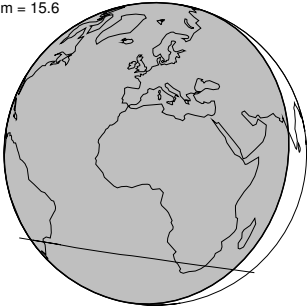
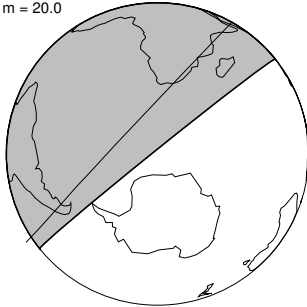
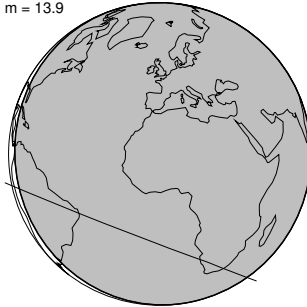
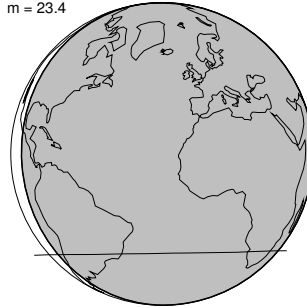
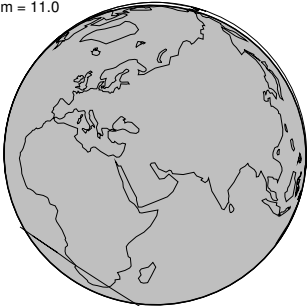
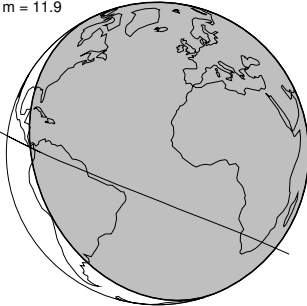
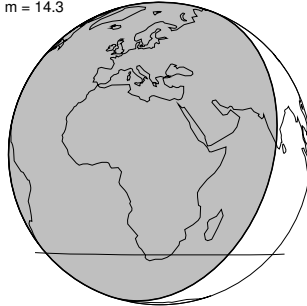
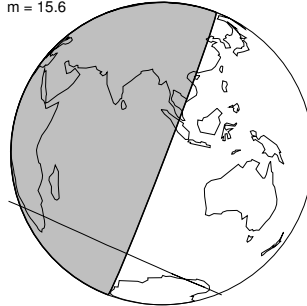
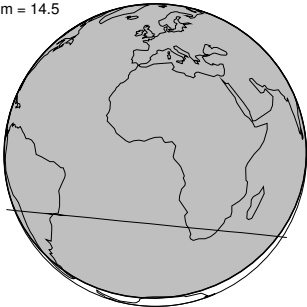
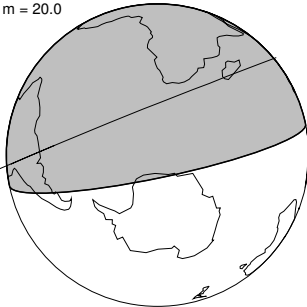
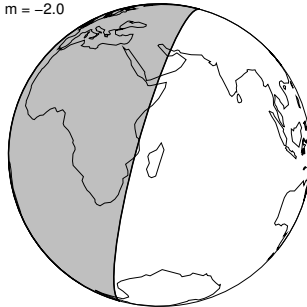
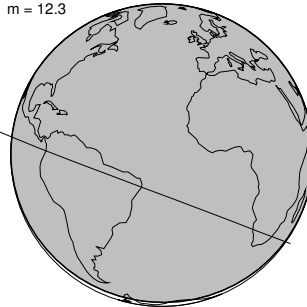
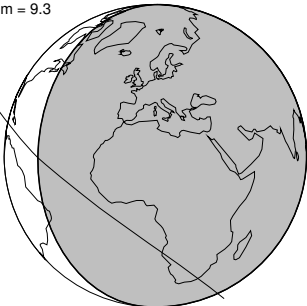
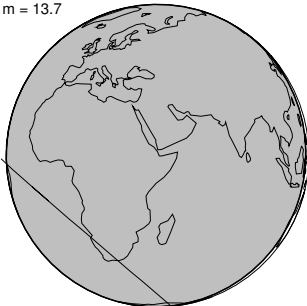
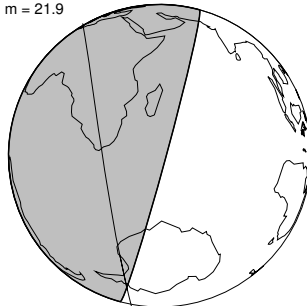
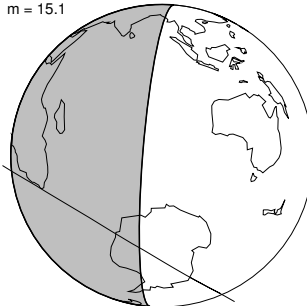


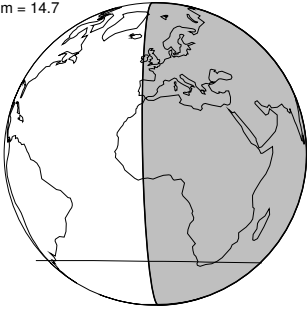
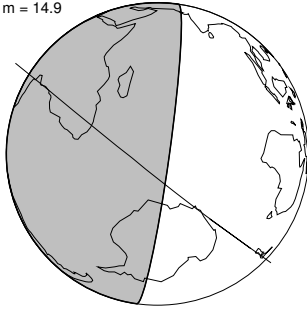
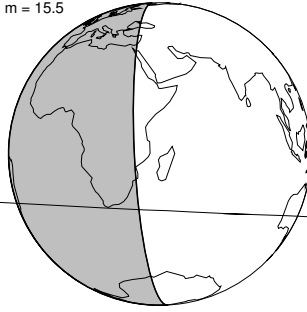
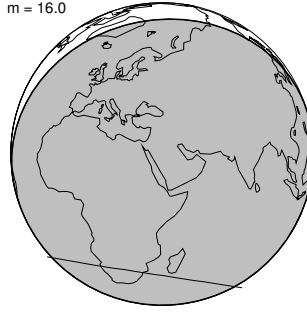
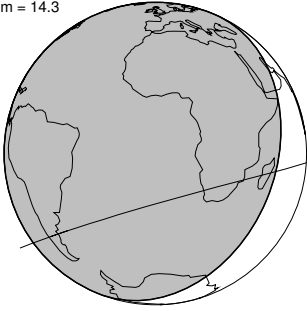
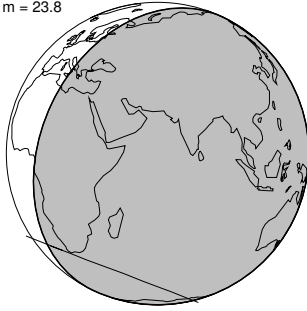
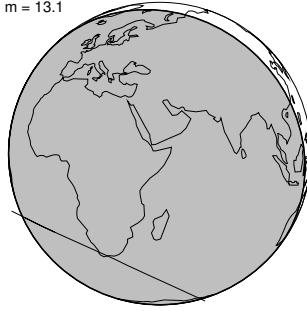
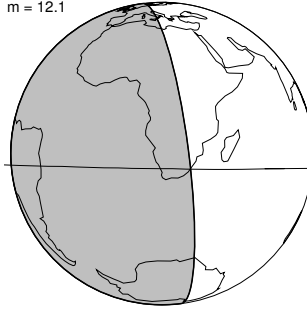
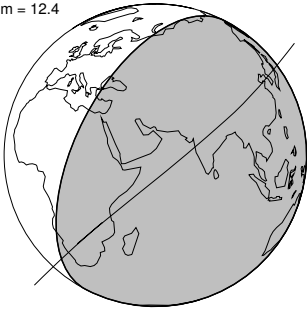
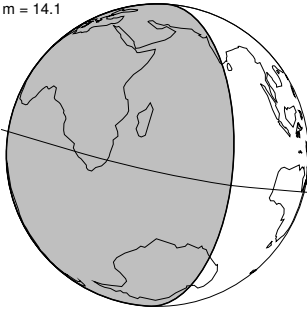
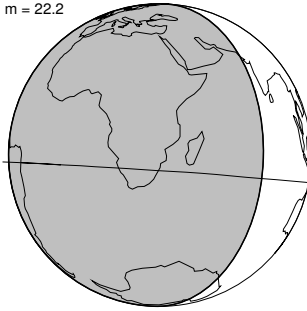
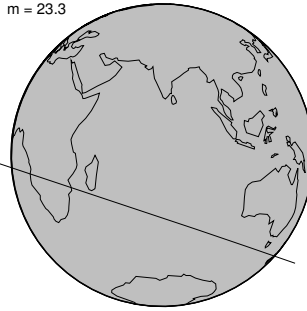
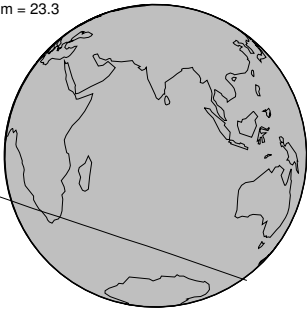
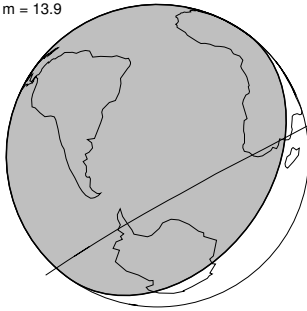
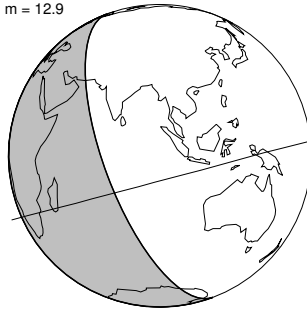
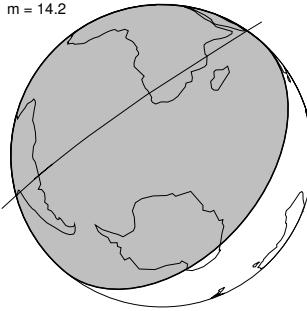
Occultations by major and minor planets – 2018

Region 4

<p>2018 jan 3 1h38.7m A18_01121 1092 Liliu HSOY 550867838 Diam = 47.6 m = 12.1 m = 15.6</p>  <p>Dur = 4.6s Dmag = 3.5 Sun: 150° Moon: 15°</p>	<p>2018 jan 4 1h41.9m B18_01010 2012DR30 HSOY 317727705 Diam = 158.5 m = 14.6 m = 20.0</p>  <p>Dur = 4.5s Dmag = 5.5 Sun: 88° Moon: 80°</p>	<p>2018 jan 6 23h 3.6m A18_01110 891 Gunhild TYC 1320-01122-1 Diam = 53.6 m = 11.6 m = 13.9</p>  <p>Dur = 4.3s Dmag = 2.4 Sun: 163° Moon: 83°</p>	<p>2018 jan 7 0h 6.6m A18_01146 2000WN183 UCAC4-563-018801 Diam = 166.0 m = 10.6 m = 23.4</p>  <p>Dur = 7.0s Dmag = 12.8 Sun: 158° Moon: 88°</p>
<p>2018 jan 9 21h 8.3m A18_01031 145 Adeona HIP 37834 Diam = 155.0 m = 10.3 m = 11.0</p>  <p>Dur = 14.9s Dmag = 1.2 Sun: 167° Moon: 97°</p>	<p>2018 jan 9 23h17.8m A18_01018 59 Elpis PPMX 6923813 Diam = 173.0 m = 12.5 m = 11.9</p>  <p>Dur = 24.4s Dmag = 0.5 Sun: 144° Moon: 135°</p>	<p>2018 jan 17 1h21.1m A18_01088 661 Cloelia TYC 0849-00078-1 Diam = 52.0 m = 11.2 m = 14.3</p>  <p>Dur = 9.0s Dmag = 3.2 Sun: 137° Moon: 137°</p>	<p>2018 jan 19 23h24.8m A18_01033 177 Irma TYC 5549-00910-1 Diam = 75.3 m = 10.1 m = 15.6</p>  <p>Dur = 6.0s Dmag = 5.5 Sun: 91° Moon: 123°</p>
<p>2018 jan 27 0h16.9m A18_01126 1243 Pamela TYC 4864-01334-1 Diam = 75.5 m = 11.6 m = 14.5</p>  <p>Dur = 5.4s Dmag = 3.0 Sun: 160° Moon: 71°</p>	<p>2018 jan 29 23h59.1m A18_01149 2012DR30 TYC 8945-00202-1 Diam = 158.5 m = 9.8 m = 20.0</p>  <p>Dur = 4.8s Dmag = 10.2 Sun: 98° Moon: 87°</p>	<p>2018 feb 1 3h16.6m P18_02001 Jupiter HIP 74669 Diam = 133542.0 m = 9.6 m = -2.0</p>  <p>Dur = 8227.6s Dmag = 0.0 Sun: 80° Moon: 91°</p>	<p>2018 feb 2 1h54.2m A18_02067 444 Gyptis TYC 0221-00969-1 Diam = 170.0 m = 10.9 m = 12.3</p>  <p>Dur = 11.6s Dmag = 1.6 Sun: 166° Moon: 24°</p>
<p>2018 feb 3 20h53.3m A18_02008 8 Flora HSOY 545969905 Diam = 141.0 m = 10.6 m = 9.3</p>  <p>Dur = 41.4s Dmag = 0.3 Sun: 140° Moon: 84°</p>	<p>2018 feb 10 22h 7.6m A18_02056 286 Iclea HSOY 579494919 Diam = 96.5 m = 12.2 m = 13.7</p>  <p>Dur = 6.5s Dmag = 1.8 Sun: 167° Moon: 114°</p>	<p>2018 feb 23 2h 9.0m A18_02120 2011HO60 TYC 7840-00371-1 Diam = 251.2 m = 9.9 m = 21.9</p>  <p>Dur = 19.9s Dmag = 12.0 Sun: 92° Moon: 154°</p>	<p>2018 feb 27 0h10.9m A18_02107 1241 Dysona TYC 8326-04371-1 Diam = 86.2 m = 8.4 m = 15.1</p>  <p>Dur = 3.7s Dmag = 6.7 Sun: 82° Moon: 133°</p>

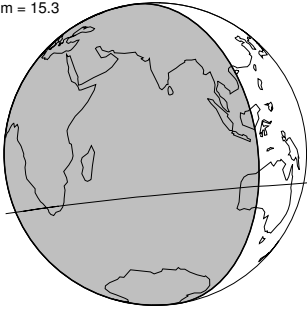
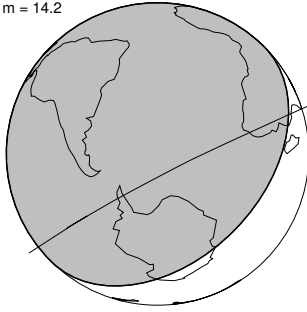
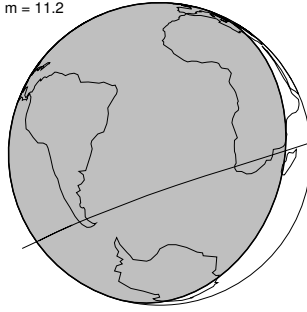
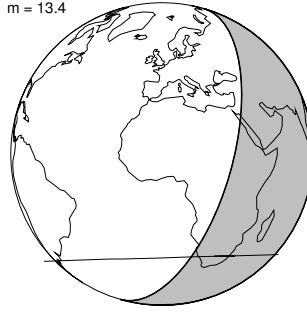
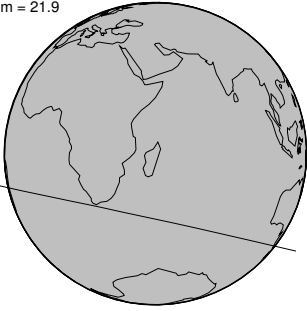
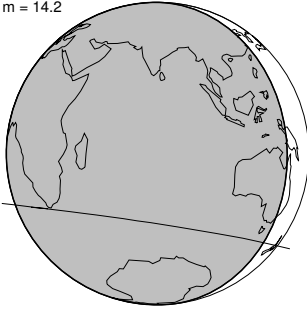
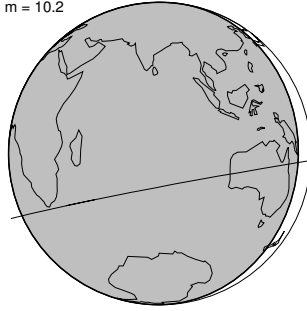
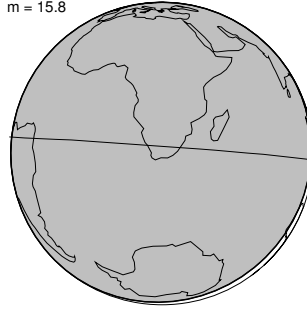
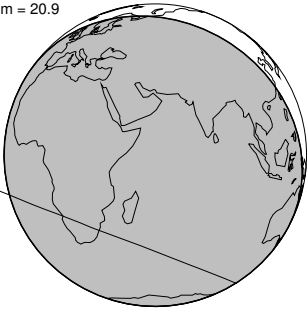
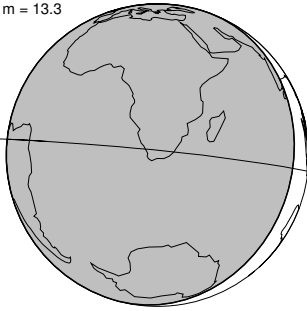
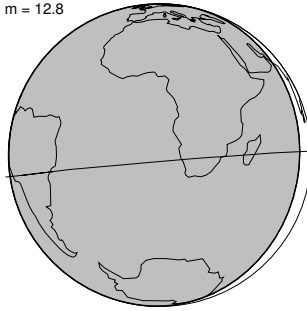
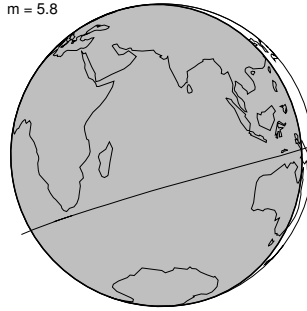
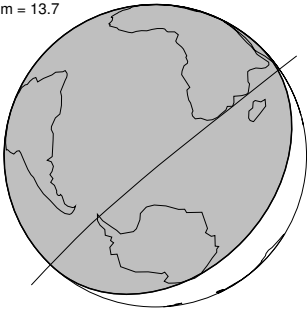
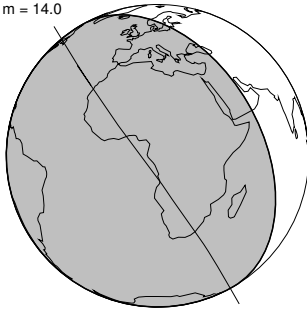
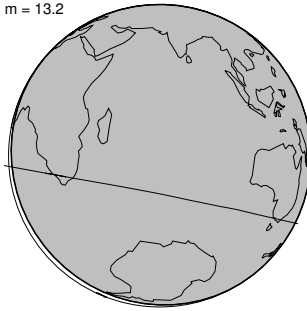
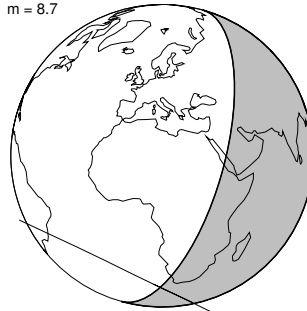
Occultations by major and minor planets – 2018

Region 4

<p>2018 mar 14 18h31.3m A18_03142 1197 Rhodessa HSOY 524684611 Diam = 49.0 m = 12.1 m = 14.7</p>  <p>Dur = 3.7s Dmag = 2.7 Sun: 94° Moon: 126°</p>	<p>2018 mar 16 1h33.7m A18_03143 1241 Dysona UCAC4-207-135491 Diam = 86.2 m = 11.3 m = 14.9</p>  <p>Dur = 4.9s Dmag = 3.6 Sun: 94° Moon: 78°</p>	<p>2018 mar 21 3h49.6m A18_03097 581 Tauntonia PPMX 11681274 Diam = 67.1 m = 12.2 m = 15.5</p>  <p>Dur = 3.4s Dmag = 3.3 Sun: 80° Moon: 125°</p>	<p>2018 mar 21 20h57.8m A18_03104 617 Patroclus TYC 1984-01890-1 Diam = 149.0 m = 12.0 m = 16.0</p>  <p>Dur = 8.1s Dmag = 4.0 Sun: 152° Moon: 110°</p>
<p>2018 mar 23 2h39.0m A18_03053 255 Oppavia HSOY 577101172 Diam = 58.0 m = 11.3 m = 14.3</p>  <p>Dur = 8.8s Dmag = 3.1 Sun: 142° Moon: 146°</p>	<p>2018 apr 11 17h24.0m B18_04009 1995DB2 HSOY 579550968 Diam = 125.9 m = 13.9 m = 23.8</p>  <p>Dur = 6.8s Dmag = 9.9 Sun: 140° Moon: 167°</p>	<p>2018 apr 12 21h59.3m A18_04071 411 Xanthe HSOY 000492007 Diam = 79.0 m = 11.3 m = 13.1</p>  <p>Dur = 6.9s Dmag = 2.0 Sun: 155° Moon: 130°</p>	<p>2018 apr 18 4h21.4m A18_04011 26 Proserpina HSOY 091788608 Diam = 98.7 m = 11.4 m = 12.1</p>  <p>Dur = 7.4s Dmag = 1.1 Sun: 100° Moon: 127°</p>
<p>2018 apr 24 16h47.7m A18_04019 68 Leto HSOY 580069793 Diam = 127.0 m = 12.4 m = 12.4</p>  <p>Dur = 27.9s Dmag = 0.8 Sun: 121° Moon: 11°</p>	<p>2018 apr 26 0h39.7m A18_04081 576 Emanuela HSOY 064472911 Diam = 86.0 m = 11.9 m = 14.1</p>  <p>Dur = 22.4s Dmag = 2.3 Sun: 120° Moon: 109°</p>	<p>2018 apr 27 1h 1.1m B18_04011 2002GP32 HSOY 039423173 Diam = 173.8 m = 13.9 m = 22.2</p>  <p>Dur = 12.5s Dmag = 8.3 Sun: 133° Moon: 84°</p>	<p>2018 may 2 18h29.6m A18_05152 2003HY56 HSOY 577300859 Diam = 158.5 m = 12.2 m = 23.3</p>  <p>Dur = 6.4s Dmag = 11.2 Sun: 174° Moon: 38°</p>
<p>2018 may 2 18h29.6m B18_05012 2003HY56 UCAC4-382-065152 Diam = 158.5 m = 12.5 m = 23.3</p>  <p>Dur = 6.4s Dmag = 10.8 Sun: 174° Moon: 38°</p>	<p>2018 may 6 3h47.3m A18_05019 36 Atalante UCAC4-219-130841 Diam = 109.0 m = 12.3 m = 13.9</p>  <p>Dur = 8.6s Dmag = 1.9 Sun: 139° Moon: 42°</p>	<p>2018 may 7 1h15.6m A18_05043 173 Ino HSOY 450772485 Diam = 159.0 m = 10.6 m = 12.9</p>  <p>Dur = 5.2s Dmag = 2.4 Sun: 68° Moon: 33°</p>	<p>2018 may 8 0h45.9m A18_05130 1241 Dysona HSOY 250472466 Diam = 86.2 m = 11.2 m = 14.2</p>  <p>Dur = 10.9s Dmag = 3.1 Sun: 133° Moon: 59°</p>

Occultations by major and minor planets – 2018

Region 4

<p>2018 may 10 22h15.7m A18_05124 931 Whitemora PPMX 11669257 Diam = 52.6 m = 12.5 m = 15.3</p>  <p>Dur = 7.9s Dmag = 2.9 Sun: 132° Moon: 76°</p>	<p>2018 may 11 3h38.4m A18_05132 1241 Dysona HSOY 248401806 Diam = 86.2 m = 11.2 m = 14.2</p>  <p>Dur = 10.4s Dmag = 3.1 Sun: 135° Moon: 90°</p>	<p>2018 may 13 3h31.4m A18_05047 192 Nausikaa TYC 7384-00165-1 Diam = 107.0 m = 10.8 m = 11.2</p>  <p>Dur = 15.4s Dmag = 1.0 Sun: 144° Moon: 114°</p>	<p>2018 may 24 16h17.8m A18_05045 185 Eunike HSOY 550273015 Diam = 165.0 m = 11.5 m = 13.4</p>  <p>Dur = 5.5s Dmag = 2.1 Sun: 62° Moon: 60°</p>
<p>2018 may 24 20h26.7m B18_05007 469505 2003FE128 HSOY 031847459 Diam = 229.1 m = 14.5 m = 21.9</p>  <p>Dur = 9.6s Dmag = 7.4 Sun: 174° Moon: 51°</p>	<p>2018 may 25 20h54.9m A18_05083 395 Delia HSOY 080673611 Diam = 54.0 m = 10.9 m = 14.2</p>  <p>Dur = 8.8s Dmag = 3.3 Sun: 148° Moon: 75°</p>	<p>2018 may 27 20h 9.1m A18_05010 9 Metis HSOY 040662239 Diam = 231.2 m = 11.2 m = 10.2</p>  <p>Dur = 22.8s Dmag = 0.4 Sun: 156° Moon: 44°</p>	<p>2018 may 27 23h 5.7m A18_05136 1463 Nordenmarkia HIP 83074 Diam = 51.7 m = 9.6 m = 15.8</p>  <p>Dur = 3.5s Dmag = 6.2 Sun: 165° Moon: 33°</p>
<p>2018 may 29 21h 8.6m B18_05009 470309 2007JK43 HSOY 123966953 Diam = 166.0 m = 12.8 m = 20.9</p>  <p>Dur = 6.9s Dmag = 8.1 Sun: 152° Moon: 22°</p>	<p>2018 may 30 0h16.0m A18_05099 576 Emanuela UCAC4-287-164979 Diam = 86.0 m = 11.9 m = 13.3</p>  <p>Dur = 11.5s Dmag = 1.7 Sun: 153° Moon: 24°</p>	<p>2018 may 30 1h 7.7m A18_05026 82 Alkmene TYC 6850-00541-1 Diam = 63.6 m = 11.3 m = 12.8</p>  <p>Dur = 5.4s Dmag = 1.8 Sun: 157° Moon: 19°</p>	<p>2018 may 31 20h53.5m A18_05003 4 Vesta TYC 6268-00036-1 Diam = 523.2 m = 11.0 m = 5.8</p>  <p>Dur = 78.4s Dmag = 0.0 Sun: 157° Moon: 4°</p>
<p>2018 jun 1 1h43.7m A18_06116 795 Fini TYC 8371-01759-1 Diam = 78.7 m = 11.5 m = 13.7</p>  <p>Dur = 7.6s Dmag = 2.3 Sun: 143° Moon: 30°</p>	<p>2018 jun 3 1h56.2m A18_06129 1102 Pepita TYC 5144-02761-1 Diam = 43.5 m = 11.2 m = 14.0</p>  <p>Dur = 5.2s Dmag = 2.9 Sun: 133° Moon: 21°</p>	<p>2018 jun 6 18h34.0m A18_06072 356 Liguria UCAC4-288-090611 Diam = 135.0 m = 12.0 m = 13.2</p>  <p>Dur = 9.0s Dmag = 1.5 Sun: 165° Moon: 98°</p>	<p>2018 jun 7 15h55.4m A18_06001 1 Ceres HSOY 580625284 Diam = 952.5 m = 12.3 m = 8.7</p>  <p>Dur = 31.6s Dmag = 0.0 Sun: 65° Moon: 145°</p>

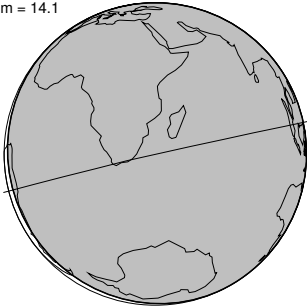
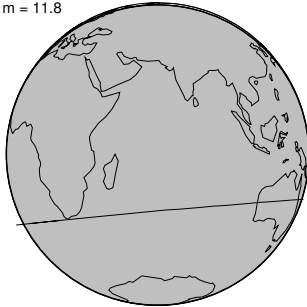
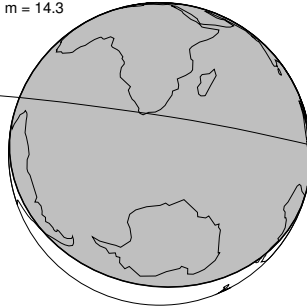
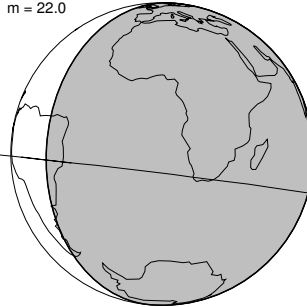
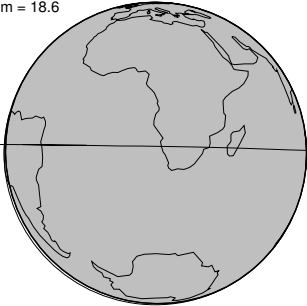
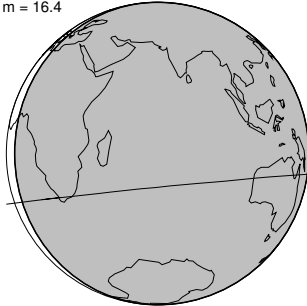
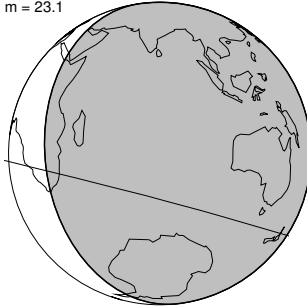
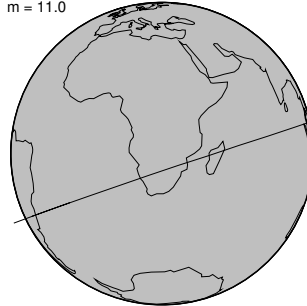
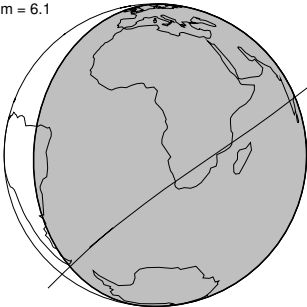
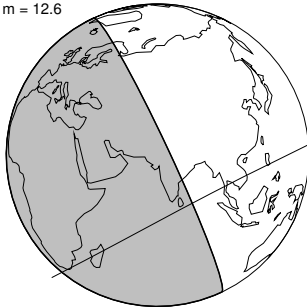
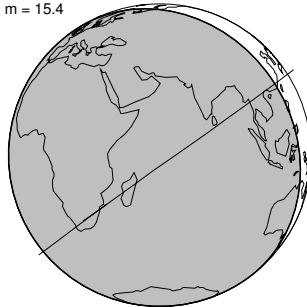
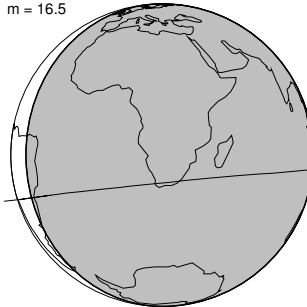
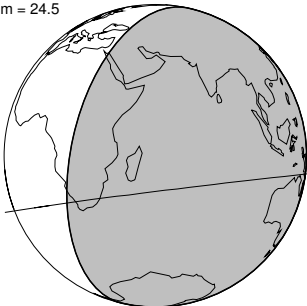
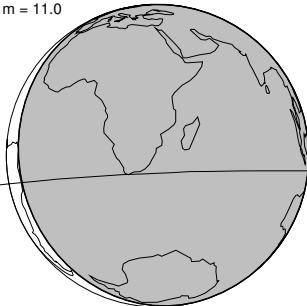
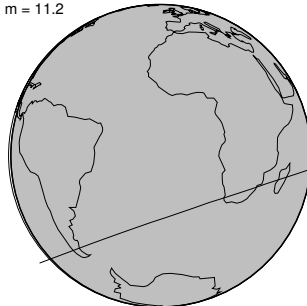
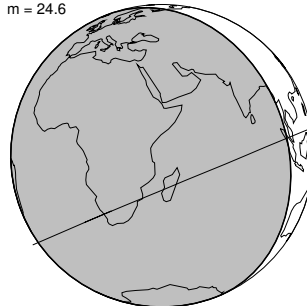
Occultations by major and minor planets – 2018

Region 4

<p>2018 jun 8 19h20.4m B18_06014 2004FU148 HSOY 032951778 Diam = 182.0 m = 13.7 m = 21.9</p> <p>Dur = 8.4s Dmag = 8.2 Sun: 155° Moon: 136°</p>	<p>2018 jun 10 2h51.2m B18_06010 307261 2002MS4 HSOY 103756414 Diam = 758.6 m = 20.5</p> <p>Dur = 32.5s Dmag = 5.8 Sun: 152° Moon: 109°</p>	<p>2018 jun 10 18h36.2m A18_06118 866 Fatme HSOY 036142268 Diam = 91.7 m = 12.3 m = 13.6</p> <p>Dur = 7.1s Dmag = 1.6 Sun: 171° Moon: 146°</p>	<p>2018 jun 11 20h17.6m A18_06167 6090 1989DJ TYC 7935-01478-1 Diam = 55.0 m = 11.5 m = 16.8</p> <p>Dur = 3.8s Dmag = 5.4 Sun: 149° Moon: 123°</p>
<p>2018 jun 12 20h32.8m A18_06059 242 Kriemhild HSOY 053524111 Diam = 41.5 m = 9.9 m = 14.2</p> <p>Dur = 3.1s Dmag = 4.3 Sun: 164° Moon: 159°</p>	<p>2018 jun 12 22h52.8m A18_06050 198 Ampella TYC 6305-01734-1 Diam = 58.7 m = 11.4</p> <p>Dur = 9.1s Dmag = 0.4 Sun: 151° Moon: 140°</p>	<p>2018 jun 13 0h11.9m A18_06089 576 Emanuela UCAC4-289-148191 Diam = 86.0 m = 11.8 m = 13.0</p> <p>Dur = 8.6s Dmag = 1.5 Sun: 167° Moon: 156°</p>	<p>2018 jun 16 1h53.2m A18_06092 581 Tauntonia HSOY 088416443 Diam = 67.1 m = 12.1 m = 14.2</p> <p>Dur = 4.7s Dmag = 2.2 Sun: 163° Moon: 164°</p>
<p>2018 jun 18 21h34.9m A18_06114 778 Theobalda HSOY 004635287 Diam = 67.3 m = 12.2 m = 15.4</p> <p>Dur = 4.5s Dmag = 3.3 Sun: 154° Moon: 92°</p>	<p>2018 jun 24 1h25.2m A18_06084 498 Tokio HSOY 448715054 Diam = 84.8 m = 12.3 m = 12.3</p> <p>Dur = 14.9s Dmag = 0.8 Sun: 129° Moon: 98°</p>	<p>2018 jun 29 2h41.2m P18_06001 Mars HSOY 078342902 Diam = 6759.2 m = -2.1 m = 10.0</p> <p>Dur = 6202.5s Dmag = 0.0 Sun: 147° Moon: 23°</p>	<p>2018 jun 29 17h58.6m A18_06076 362 Havnia HSOY 019402115 Diam = 66.1 m = 11.6 m = 12.9</p> <p>Dur = 7.0s Dmag = 1.6 Sun: 154° Moon: 41°</p>
<p>2018 jun 30 16h50.1m A18_06137 1306 Scythia HSOY 006081848 Diam = 69.5 m = 11.3 m = 15.2</p> <p>Dur = 7.6s Dmag = 3.9 Sun: 135° Moon: 71°</p>	<p>2018 jun 30 20h25.3m A18_06138 1315 Bronislawa UCAC4-361-078606 Diam = 65.5 m = 12.4 m = 14.5</p> <p>Dur = 7.8s Dmag = 2.2 Sun: 151° Moon: 57°</p>	<p>2018 jun 30 22h14.1m A18_06149 1868 Thersites PPMX 9658699 Diam = 57.5 m = 11.8 m = 16.4</p> <p>Dur = 3.5s Dmag = 4.6 Sun: 159° Moon: 34°</p>	<p>2018 jul 1 20h31.5m B18_07017 2014HW199 HSOY 032079869 Diam = 302.0 m = 13.5 m = 21.8</p> <p>Dur = 16.8s Dmag = 8.2 Sun: 141° Moon: 79°</p>

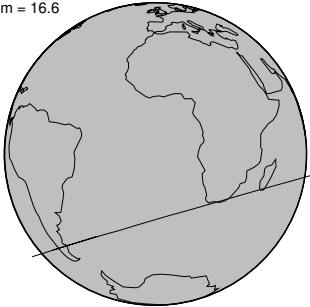
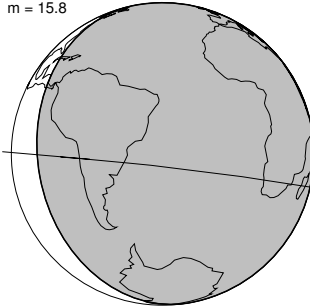
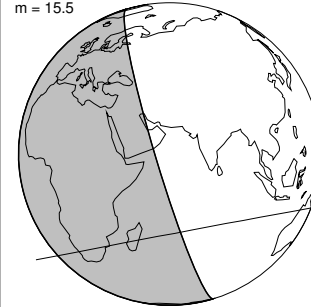
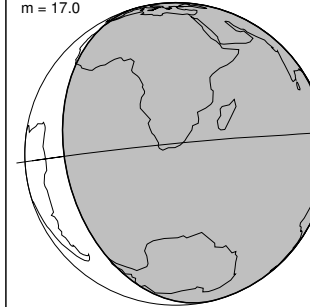
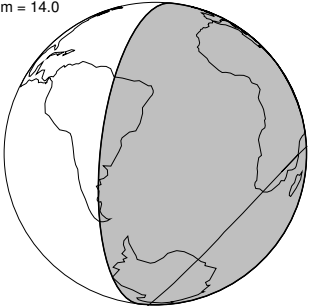
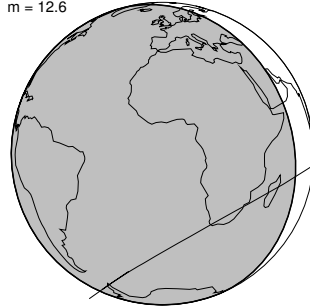
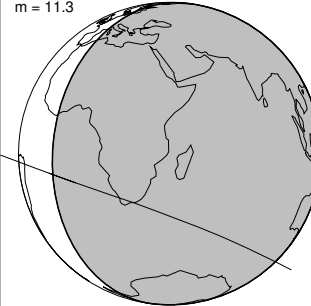
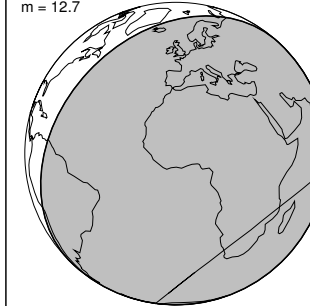
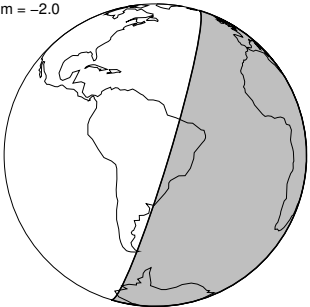
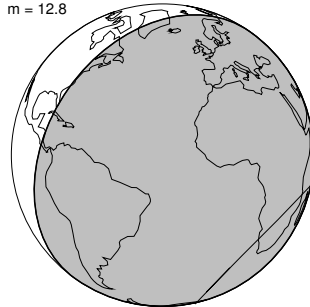
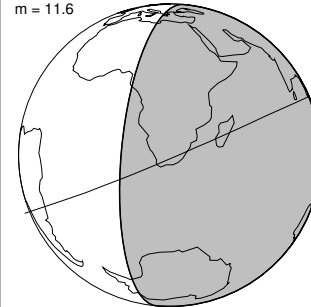
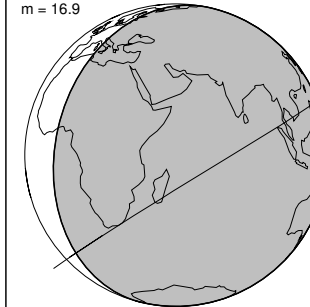
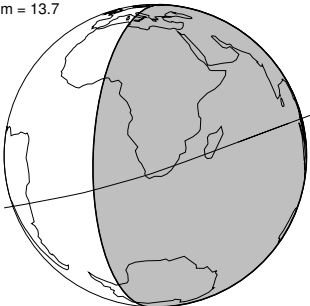
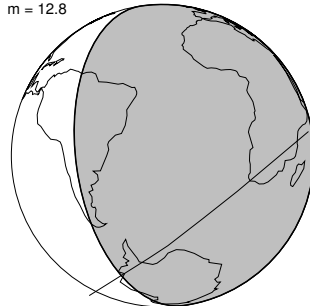
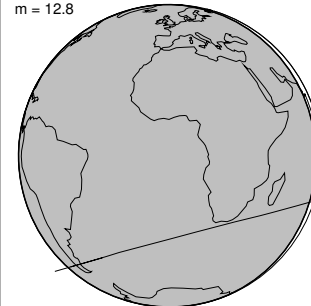
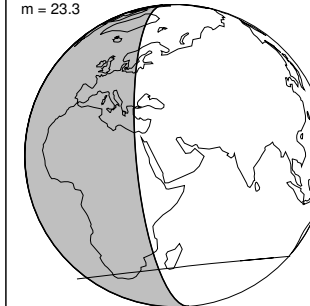
Occultations by major and minor planets – 2018

Region 4

<p>2018 jul 5 20h38.7m A18_07104 593 Titania HSOY 066330005 Diam = 78.2 m = 11.8 m = 14.1</p>  <p>Dur = 5.2s Dmag = 2.4 Sun: 165° Moon: 96°</p>	<p>2018 jul 8 19h43.3m A18_07026 119 Althaea HSOY 106254832 Diam = 60.7 m = 11.8</p>  <p>Dur = 5.7s Dmag = 0.5 Sun: 170° Moon: 120°</p>	<p>2018 jul 15 21h48.3m A18_07128 1035 Amata TYC 8383-01717-1 Diam = 56.8 m = 10.1 m = 14.3</p>  <p>Dur = 5.7s Dmag = 4.2 Sun: 150° Moon: 127°</p>	<p>2018 jul 16 20h56.5m B18_07008 307251 2002KW14 HSOY 034355907 Diam = 316.2 m = 12.8 m = 22.0</p>  <p>Dur = 17.9s Dmag = 9.2 Sun: 139° Moon: 88°</p>
<p>2018 jul 17 22h42.9m B18_07002 10199 Chariklo HSOY 073896574 Diam = 248.0 m = 13.7 m = 18.6</p>  <p>Dur = 11.1s Dmag = 4.9 Sun: 169° Moon: 105°</p>	<p>2018 jul 18 18h 9.7m A18_07087 515 Athalia HSOY 083062383 Diam = 43.0 m = 12.3 m = 16.4</p>  <p>Dur = 3.3s Dmag = 4.1 Sun: 160° Moon: 84°</p>	<p>2018 jul 19 15h46.9m B18_07007 95625 2002GX32 HSOY 019222240 Diam = 138.0 m = 14.8 m = 23.1</p>  <p>Dur = 8.0s Dmag = 8.3 Sun: 139° Moon: 55°</p>	<p>2018 jul 19 22h27.1m A18_07016 52 Europa HSOY 114436520 Diam = 278.0 m = 11.9 m = 11.0</p>  <p>Dur = 19.3s Dmag = 0.4 Sun: 177° Moon: 89°</p>
<p>2018 jul 21 20h52.9m A18_07002 4 Vesta UCAC4-340-097461 Diam = 523.2 m = 12.3 m = 6.1</p>  <p>Dur = 121.7s Dmag = 0.0 Sun: 143° Moon: 30°</p>	<p>2018 jul 23 0h15.2m A18_07116 694 Ekard HIP 5041 Diam = 92.7 m = 10.2 m = 12.6</p>  <p>Dur = 5.4s Dmag = 2.6 Sun: 94° Moon: 133°</p>	<p>2018 jul 23 21h41.1m A18_07144 2326 Tololo TYC 5221-01272-1 Diam = 45.6 m = 11.8 m = 15.4</p>  <p>Dur = 4.6s Dmag = 3.7 Sun: 153° Moon: 68°</p>	<p>2018 jul 24 20h51.3m A18_07088 515 Athalia UCAC4-338-146597 Diam = 43.0 m = 12.3 m = 16.5</p>  <p>Dur = 3.6s Dmag = 4.2 Sun: 154° Moon: 7°</p>
<p>2018 jul 27 16h28.1m B18_07016 2013JF65 HSOY 035989540 Diam = 60.3 m = 13.6 m = 24.5</p>  <p>Dur = 5.4s Dmag = 10.9 Sun: 123° Moon: 54°</p>	<p>2018 jul 27 20h14.8m A18_07008 26 Proserpina HSOY 071547376 Diam = 98.7 m = 11.8 m = 11.0</p>  <p>Dur = 13.2s Dmag = 0.5 Sun: 155° Moon: 24°</p>	<p>2018 jul 29 0h13.5m A18_07017 52 Europa HSOY 114380431 Diam = 278.0 m = 12.2 m = 11.2</p>  <p>Dur = 19.9s Dmag = 0.4 Sun: 169° Moon: 23°</p>	<p>2018 jul 30 23h26.6m B18_07011 2001OO108 HSOY 450727409 Diam = 109.6 m = 14.1 m = 24.6</p>  <p>Dur = 5.5s Dmag = 10.6 Sun: 145° Moon: 2°</p>

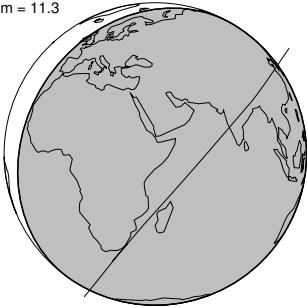
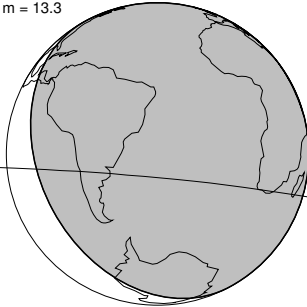
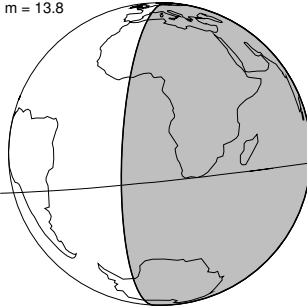
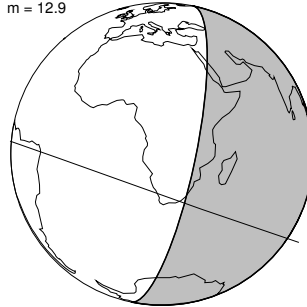
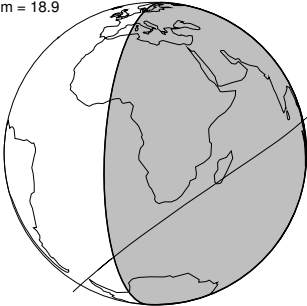
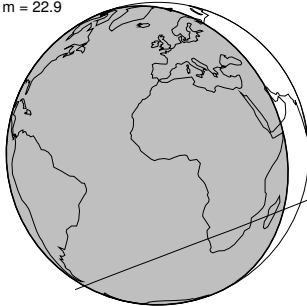
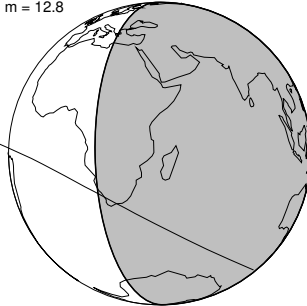
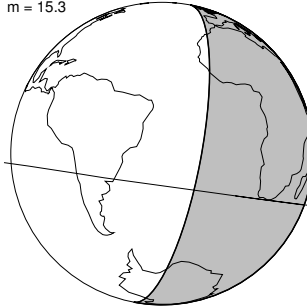
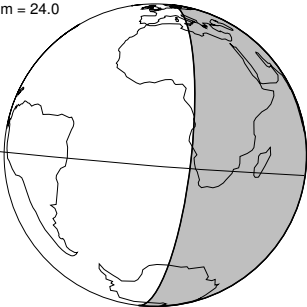
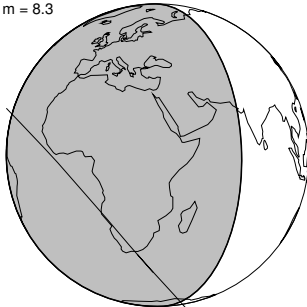
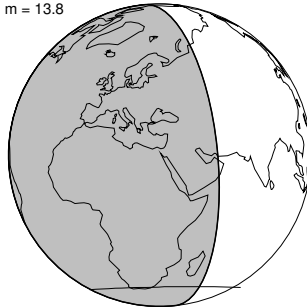
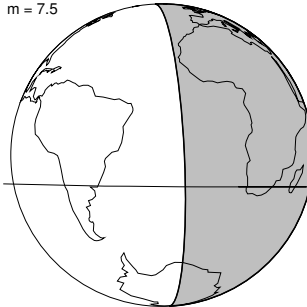
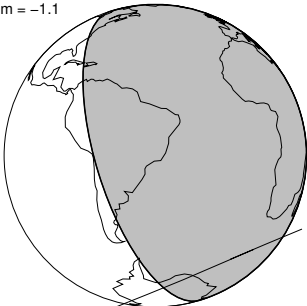
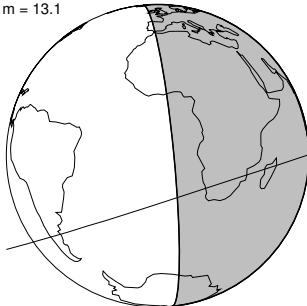
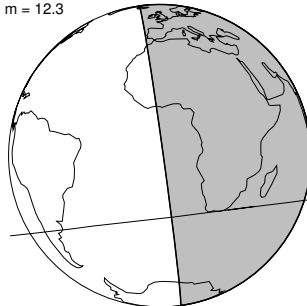
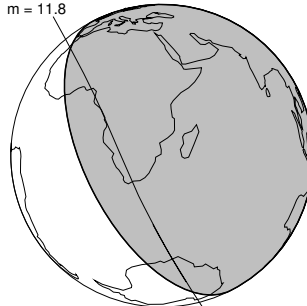
Occultations by major and minor planets – 2018

Region 4

<p>2018 aug 2 0h 7.6m A18_08128 2067 Aksnes HSOY 114872928 Diam = 50.3 m = 12.3 m = 16.6</p>  <p>Dur = 3.1s Dmag = 4.3 Sun: 175° Moon: 62°</p>	<p>2018 aug 2 23h57.3m A18_08102 659 Nestor HSOY 070606927 Diam = 115.0 m = 11.4 m = 15.8</p>  <p>Dur = 11.1s Dmag = 4.5 Sun: 145° Moon: 102°</p>	<p>2018 aug 3 2h 5.4m A18_08112 834 Burnhamia TYC 0647-00320-1 Diam = 69.2 m = 11.6 m = 15.5</p>  <p>Dur = 4.2s Dmag = 3.9 Sun: 84° Moon: 26°</p>	<p>2018 aug 4 19h26.5m A18_08138 4834 Thoas HSOY 062224488 Diam = 60.3 m = 12.4 m = 17.0</p>  <p>Dur = 5.1s Dmag = 4.7 Sun: 136° Moon: 129°</p>
<p>2018 aug 8 21h23.6m A18_08109 762 Pulcova HSOY 017717470 Diam = 142.0 m = 11.1 m = 14.0</p>  <p>Dur = 17.1s Dmag = 3.0 Sun: 111° Moon: 145°</p>	<p>2018 aug 9 2h17.9m A18_08076 431 Nephela HIP 114595 Diam = 97.7 m = 12.6 m = 9.6</p>  <p>Dur = 16.2s Dmag = 3.1 Sun: 149° Moon: 117°</p>	<p>2018 aug 9 18h37.5m A18_08043 198 Ampella PPMX 11674747 Diam = 58.7 m = 12.5 m = 11.3</p>  <p>Dur = 14.7s Dmag = 0.3 Sun: 140° Moon: 163°</p>	<p>2018 aug 10 22h31.6m A18_08033 176 Iduna HSOY 150043798 Diam = 125.0 m = 12.0 m = 12.7</p>  <p>Dur = 10.4s Dmag = 1.2 Sun: 142° Moon: 145°</p>
<p>2018 aug 12 21h 3.5m P18_08002 Jupiter TYC 6155-00408-1 Diam = 133542.0 m = 9.7 m = -2.0</p>  <p>Dur = 9358.5s Dmag = 0.0 Sun: 84° Moon: 64°</p>	<p>2018 aug 15 23h53.0m A18_08034 176 Iduna HSOY 149187105 Diam = 125.0 m = 11.5 m = 12.8</p>  <p>Dur = 10.7s Dmag = 1.6 Sun: 139° Moon: 88°</p>	<p>2018 aug 16 17h23.3m A18_08042 192 Nausikaa HSOY 021055830 Diam = 107.0 m = 12.4 m = 11.6</p>  <p>Dur = 14.7s Dmag = 0.4 Sun: 108° Moon: 40°</p>	<p>2018 aug 17 18h 4.0m A18_08135 4060 Deipylos HIP 94955 Diam = 69.2 m = 8.9 m = 16.9</p>  <p>Dur = 4.8s Dmag = 7.9 Sun: 143° Moon: 62°</p>
<p>2018 aug 20 17h57.1m A18_08015 77 Frigga HSOY 037871063 Diam = 71.0 m = 11.9 m = 13.7</p>  <p>Dur = 19.8s Dmag = 2.0 Sun: 114° Moon: 7°</p>	<p>2018 aug 20 21h58.1m A18_08093 578 Happelia UCAC4-287-162878 Diam = 71.6 m = 12.1 m = 12.8</p>  <p>Dur = 16.7s Dmag = 1.2 Sun: 124° Moon: 14°</p>	<p>2018 aug 24 1h 9.8m A18_08050 209 Dido HSOY 450994258 Diam = 149.0 m = 11.9 m = 12.8</p>  <p>Dur = 12.3s Dmag = 1.3 Sun: 164° Moon: 42°</p>	<p>2018 aug 26 3h39.7m B18_08006 1998WX24 HSOY 525626904 Diam = 199.5 m = 14.0 m = 23.3</p>  <p>Dur = 16.9s Dmag = 9.4 Sun: 74° Moon: 109°</p>

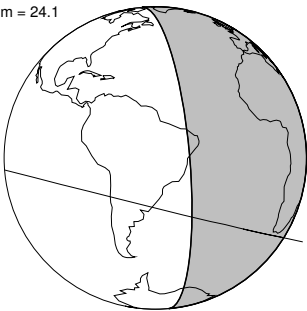
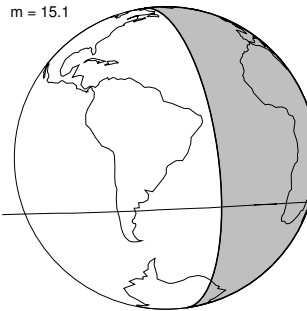
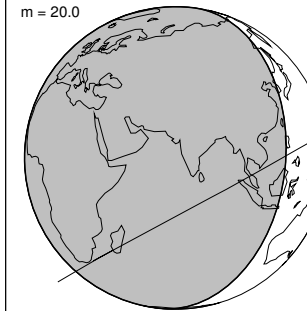
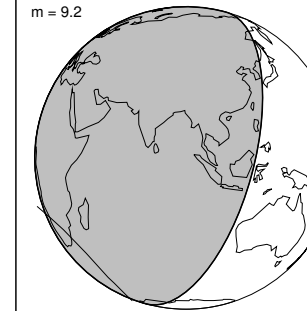
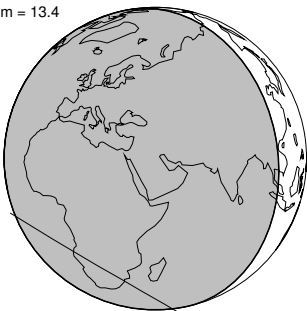
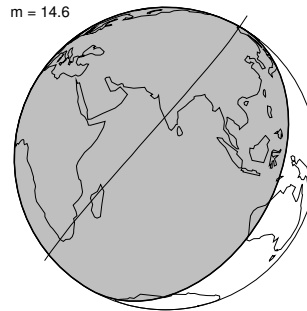
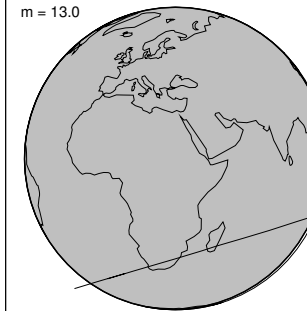
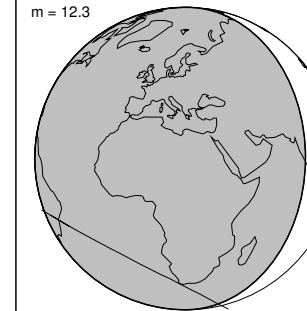
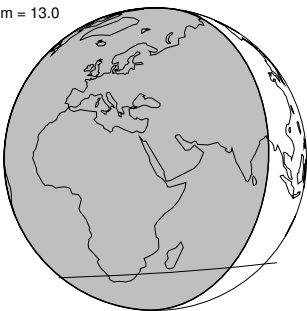
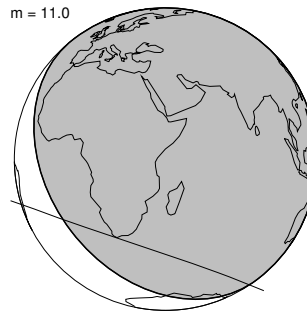
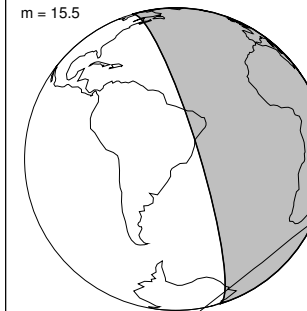
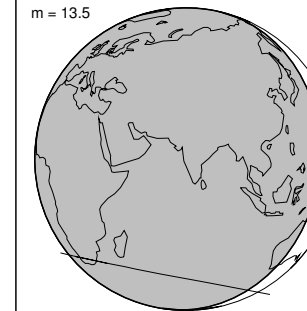
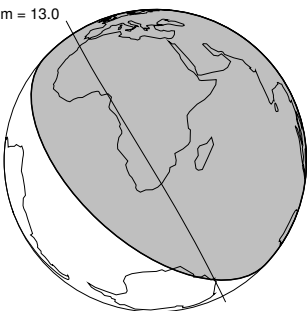
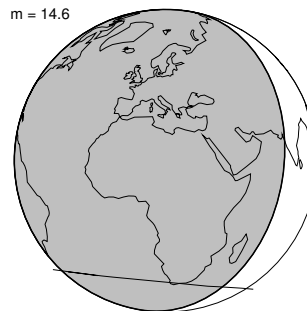
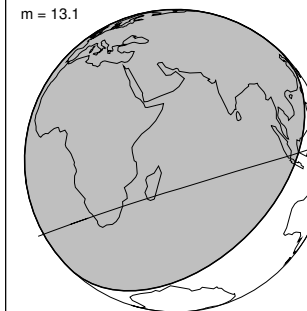
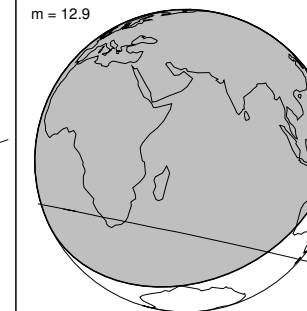
Occultations by major and minor planets – 2018

Region 4

<p>2018 aug 27 19h28.6m A18_08059 258 Tyche HSOY 169958025 Diam = 67.7 m = 12.1 m = 11.3</p>  <p>Dur = 8.4s Dmag = 0.4 Sun: 150° Moon: 42°</p>	<p>2018 aug 30 0h 3.5m A18_08024 118 Peitho TYC 7442-00167-1 Diam = 45.7 m = 12.1 m = 13.3</p>  <p>Dur = 6.1s Dmag = 1.5 Sun: 141° Moon: 76°</p>	<p>2018 aug 31 18h16.1m A18_08017 77 Frigga HSOY 038031967 Diam = 71.0 m = 10.5 m = 13.8</p>  <p>Dur = 8.7s Dmag = 3.4 Sun: 104° Moon: 136°</p>	<p>2018 sep 2 15h39.4m A18_09026 103 Hera HSOY 031861800 Diam = 95.2 m = 12.3 m = 12.9</p>  <p>Dur = 4.0s Dmag = 1.1 Sun: 77° Moon: 173°</p>
<p>2018 sep 2 17h59.4m B18_09002 50000 Quaoar HSOY 048778362 Diam = 1250.0 m = 12.6 m = 18.9</p>  <p>Dur = 198.6s Dmag = 6.3 Sun: 109° Moon: 156°</p>	<p>2018 sep 6 2h26.5m B18_09008 2001QE298 HSOY 468833920 Diam = 158.5 m = 14.1 m = 22.9</p>  <p>Dur = 8.1s Dmag = 8.8 Sun: 146° Moon: 96°</p>	<p>2018 sep 8 16h45.0m A18_09030 119 Althaea HSOY 090613233 Diam = 60.7 m = 12.5 m = 12.8</p>  <p>Dur = 10.8s Dmag = 1.0 Sun: 115° Moon: 129°</p>	<p>2018 sep 15 18h48.6m A18_09088 401 Ottilia HIP 80027 Diam = 103.0 m = 9.6 m = 15.3</p>  <p>Dur = 4.3s Dmag = 5.6 Sun: 75° Moon: 9°</p>
<p>2018 sep 22 16h59.2m B18_09001 24978 1998HJ151 UCAC4-332-085418 Diam = 131.8 m = 14.7 m = 24.0</p>  <p>Dur = 10.9s Dmag = 9.3 Sun: 76° Moon: 76°</p>	<p>2018 sep 28 1h17.1m A18_09001 3 Juno HSOY 518925004 Diam = 257.6 m = 12.4 m = 8.3</p>  <p>Dur = 29.4s Dmag = 0.0 Sun: 123° Moon: 22°</p>	<p>2018 oct 8 2h 8.7m A18_10095 539 Pamina TYC 1859-01101-1 Diam = 55.3 m = 12.4 m = 13.8</p>  <p>Dur = 9.0s Dmag = 1.7 Sun: 112° Moon: 98°</p>	<p>2018 oct 8 18h55.7m A18_10005 4 Vesta HSOY 081360447 Diam = 523.2 m = 12.2 m = 7.5</p>  <p>Dur = 22.0s Dmag = 0.0 Sun: 81° Moon: 87°</p>
<p>2018 oct 9 22h35.7m P18_10001 Mars TYC 6356-01055-1 Diam = 6759.2 m = 9.8 m = -1.1</p>  <p>Dur = 759.1s Dmag = 0.0 Sun: 113° Moon: 103°</p>	<p>2018 oct 11 17h47.3m A18_10123 702 Alauda HSOY 088679992 Diam = 202.0 m = 12.4 m = 13.1</p>  <p>Dur = 10.5s Dmag = 1.2 Sun: 83° Moon: 51°</p>	<p>2018 oct 13 18h 0.7m A18_10048 198 Ampella HSOY 095517890 Diam = 58.7 m = 11.8 m = 12.3</p>  <p>Dur = 3.0s Dmag = 1.1 Sun: 88° Moon: 32°</p>	<p>2018 oct 13 18h 1.2m A18_10040 148 Gallia HSOY 447260359 Diam = 104.0 m = 11.5 m = 11.8</p>  <p>Dur = 22.4s Dmag = 0.9 Sun: 120° Moon: 66°</p>

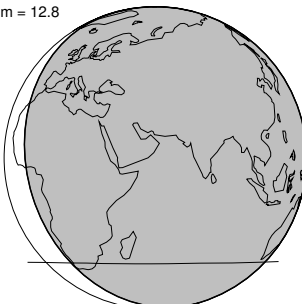
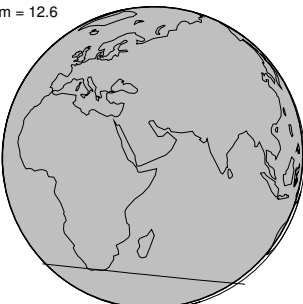

Occultations by major and minor planets – 2018

Region 4

<p>2018 oct 13 20h26.6m A18_10163 1998HQ151 PPMX 10644049 Diam = 72.4 m = 12.4 m = 24.1</p>  <p>Dur = 5.4s Dmag = 11.7 Sun: 76° Moon: 20°</p>	<p>2018 nov 1 19h54.2m B18_11002 134340 Pluto HSOY 092573424 Diam = 2376.6 m = 14.9 m = 15.1</p>  <p>Dur = 147.6s Dmag = 0.9 Sun: 69° Moon: 145°</p>	<p>2018 nov 3 22h 0.5m B18_11005 281371 2008FC76 HSOY 524448080 Diam = 57.5 m = 15.0 m = 20.0</p>  <p>Dur = 3.7s Dmag = 5.0 Sun: 136° Moon: 90°</p>	<p>2018 nov 4 21h48.7m A18_11005 6 Hebe PPMX 8121315 Diam = 186.0 m = 12.2 m = 9.2</p>  <p>Dur = 46.7s Dmag = 0.1 Sun: 116° Moon: 85°</p>
<p>2018 nov 7 23h 7.3m A18_11080 536 Merapi TYC 1859-00919-1 Diam = 158.0 m = 11.5 m = 13.4</p>  <p>Dur = 13.5s Dmag = 2.1 Sun: 143° Moon: 146°</p>	<p>2018 nov 10 21h12.8m A18_11133 1628 Strobil HSOY 480152142 Diam = 59.1 m = 12.4 m = 14.6</p>  <p>Dur = 5.6s Dmag = 2.3 Sun: 137° Moon: 156°</p>	<p>2018 nov 10 22h19.7m A18_11030 125 Liberatrix TYC 0663-00508-1 Diam = 47.5 m = 12.1 m = 13.0</p>  <p>Dur = 3.7s Dmag = 1.3 Sun: 169° Moon: 149°</p>	<p>2018 nov 11 0h57.8m A18_11069 455 Bruchsalia HSOY 525971963 Diam = 87.5 m = 11.3 m = 12.3</p>  <p>Dur = 11.4s Dmag = 1.4 Sun: 142° Moon: 178°</p>
<p>2018 nov 16 0h 4.6m A18_11027 122 Gerda TYC 1327-01749-1 Diam = 86.5 m = 11.2 m = 13.0</p>  <p>Dur = 13.9s Dmag = 1.9 Sun: 138° Moon: 127°</p>	<p>2018 nov 16 18h47.4m A18_11056 346 Hermentaria HSOY 453749031 Diam = 110.0 m = 12.2 m = 11.0</p>  <p>Dur = 17.4s Dmag = 0.3 Sun: 141° Moon: 41°</p>	<p>2018 nov 16 20h40.3m A18_11099 624 Hektor HSOY 447000945 Diam = 132.4 m = 12.2 m = 15.5</p>  <p>Dur = 7.2s Dmag = 3.4 Sun: 80° Moon: 23°</p>	<p>2018 nov 20 20h46.6m A18_11063 404 Arsinoë HSOY 524942497 Diam = 101.0 m = 10.3 m = 13.5</p>  <p>Dur = 8.8s Dmag = 3.2 Sun: 152° Moon: 57°</p>
<p>2018 nov 24 19h28.8m A18_11057 350 Ornamenta TYC 6426-01232-1 Diam = 123.0 m = 12.2 m = 13.0</p>  <p>Dur = 9.8s Dmag = 1.2 Sun: 123° Moon: 73°</p>	<p>2018 nov 29 1h28.9m A18_11078 526 Jena PPMX 6076433 Diam = 46.7 m = 12.5 m = 14.6</p>  <p>Dur = 8.9s Dmag = 2.3 Sun: 141° Moon: 39°</p>	<p>2018 dec 3 22h23.5m A18_12119 667 Denise HSOY 508565474 Diam = 83.5 m = 11.9 m = 13.1</p>  <p>Dur = 12.9s Dmag = 1.5 Sun: 133° Moon: 105°</p>	<p>2018 dec 18 21h12.1m A18_12121 667 Denise TYC 5383-01644-1 Diam = 83.5 m = 11.6 m = 12.9</p>  <p>Dur = 8.7s Dmag = 1.6 Sun: 142° Moon: 69°</p>

Occultations by major and minor planets – 2018

Region 4

<p>2018 dec 20 17h53.6m A18_12064 261 Pymno HSOY 519406845 Diam = 52.6 m = 11.4 m = 12.8</p>  <p>Dur = 7.2s Dmag = 1.6 Sun: 148° Moon: 5°</p>	<p>2018 dec 23 21h19.1m A18_12023 58 Concordia UCAC4-530-033472 Diam = 97.7 m = 12.1 m = 12.6</p>  <p>Dur = 8.3s Dmag = 1.0 Sun: 167° Moon: 9°</p>	<p>2018 dec 30 20h30.4m A18_12129 714 Ulula HSOY 521729584 Diam = 41.0 m = 11.8 m = 12.4</p>  <p>Dur = 4.2s Dmag = 1.1 Sun: 156° Moon: 128°</p>
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