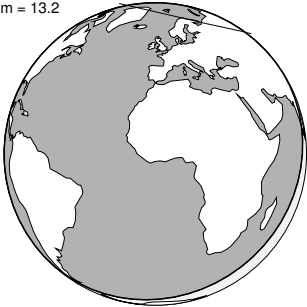
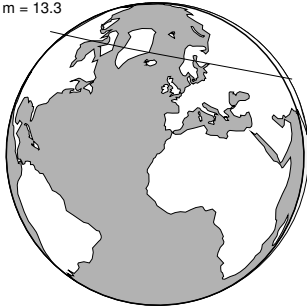
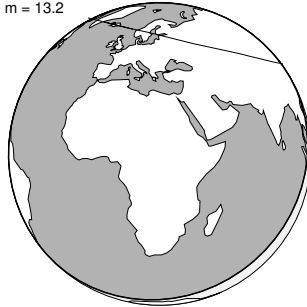
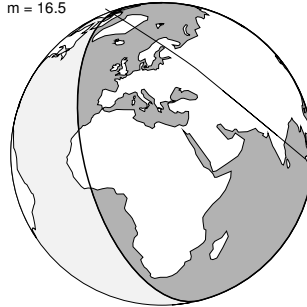
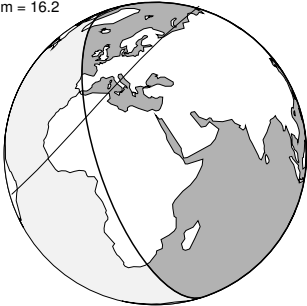
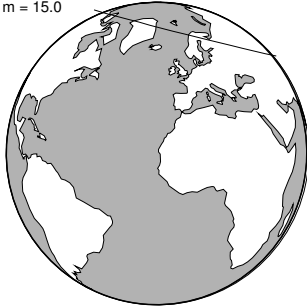
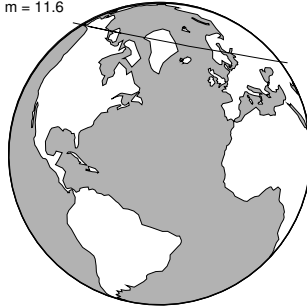
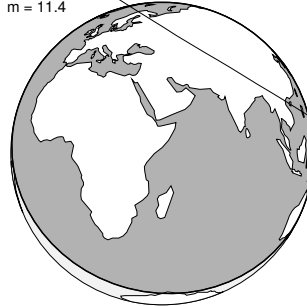
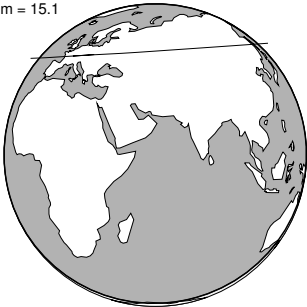
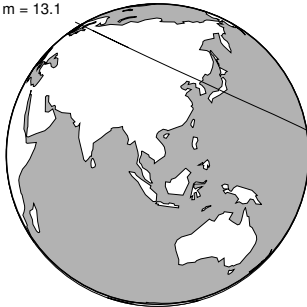
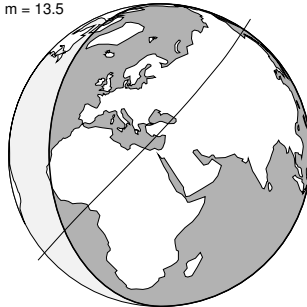
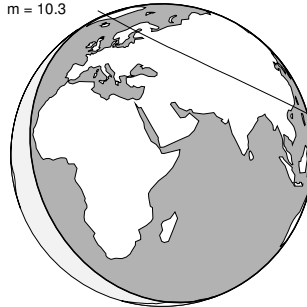
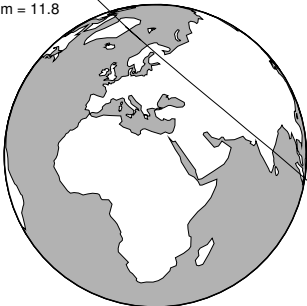
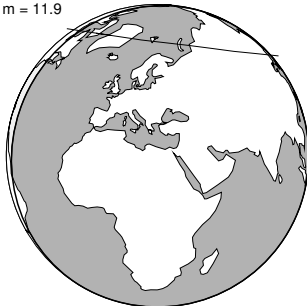
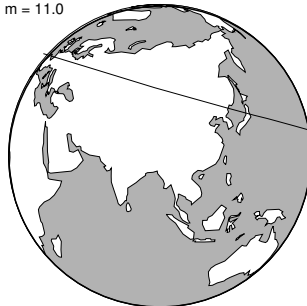
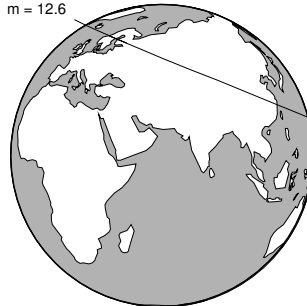


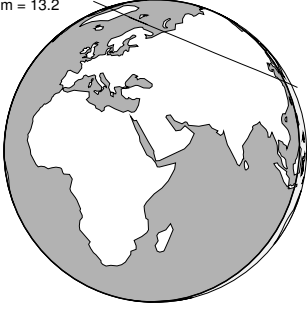
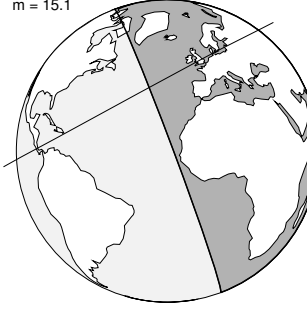
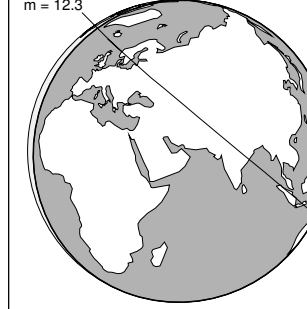
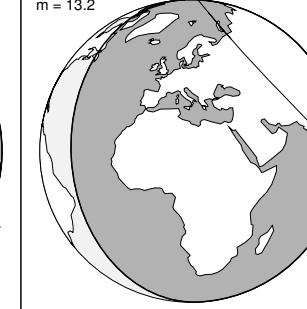
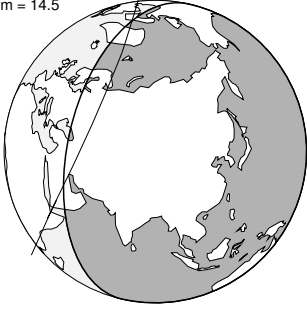
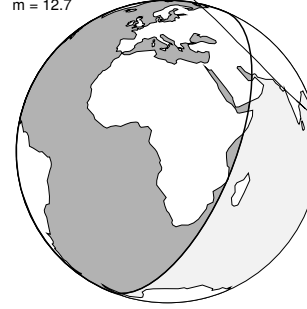
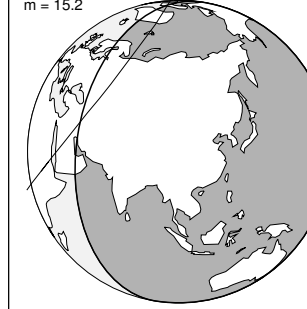
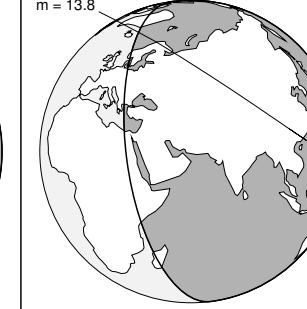
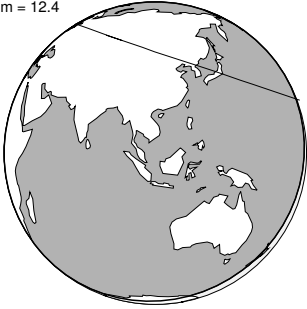
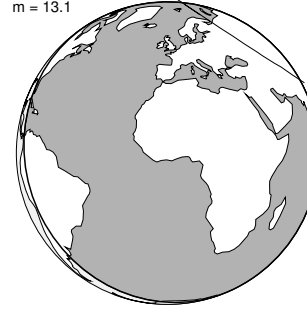
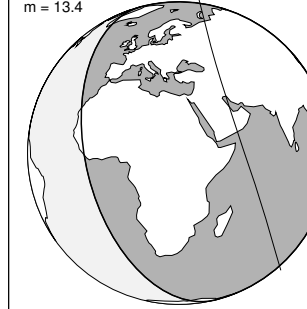
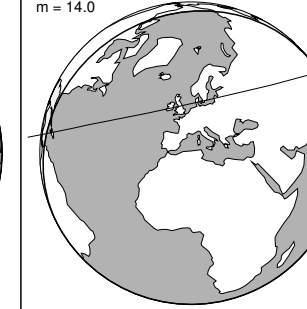
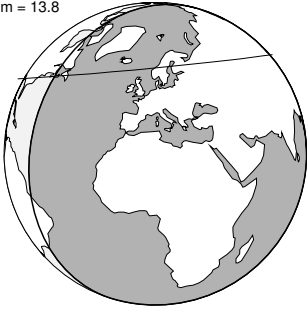
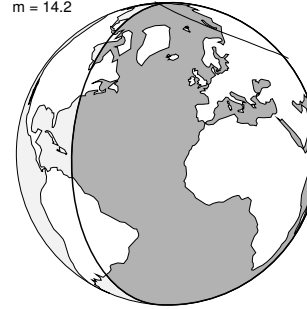
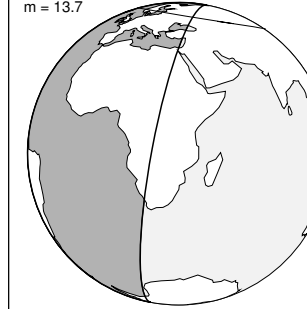
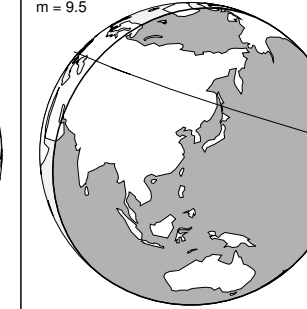
Occultations by major and minor planets – 2021

Region 5

<p>2021 jan 1 1h23.4m A21_01117 592 Bathseba TYC 0778–01370–1 Diam = 57.5 m = 11.6 m = 13.2</p>  <p>Dur = 5.4s Dmag = 1.8 Sun: 159° Moon: 18°</p>	<p>2021 jan 1 1h57.7m A21_01017 75 Eurydike UCAC4 591–043098 Diam = 58.3 m = 12.3 m = 13.3</p>  <p>Dur = 4.0s Dmag = 1.4 Sun: 164° Moon: 10°</p>	<p>2021 jan 1 23h16.4m A21_01116 592 Bathseba TYC 0778–01500–1 Diam = 57.5 m = 10.7 m = 13.2</p>  <p>Dur = 5.4s Dmag = 2.6 Sun: 160° Moon: 26°</p>	<p>2021 jan 4 18h15.9m A21_01143 835 Olivia TYC 1229–00616–1 Diam = 41.0 m = 10.1 m = 16.5</p>  <p>Dur = 15.8s Dmag = 6.3 Sun: 120° Moon: 127°</p>
<p>2021 jan 6 17h11.8m A21_01169 1119 Euboea TYC 0638–00131–1 Diam = 44.8 m = 11.3 m = 16.2</p>  <p>Dur = 8.6s Dmag = 4.9 Sun: 112° Moon: 161°</p>	<p>2021 jan 7 1h55.8m A21_01111 515 Athalia TYC 1371–00196–1 Diam = 43.0 m = 11.9 m = 15.0</p>  <p>Dur = 3.9s Dmag = 3.2 Sun: 170° Moon: 89°</p>	<p>2021 jan 7 2h45.5m A21_01051 245 Vera TYC 1907–00958–1 Diam = 84.8 m = 11.1 m = 11.6</p>  <p>Dur = 7.1s Dmag = 1.0 Sun: 173° Moon: 102°</p>	<p>2021 jan 7 20h33.9m A21_01024 130 Elektra UCAC4 451–023101 Diam = 189.0 m = 12.1 m = 11.4</p>  <p>Dur = 13.1s Dmag = 0.5 Sun: 156° Moon: 113°</p>
<p>2021 jan 10 20h22.5m A21_01174 1436 Salonta UCAC4 503–044608 Diam = 63.6 m = 12.4 m = 15.1</p>  <p>Dur = 4.2s Dmag = 2.8 Sun: 168° Moon: 143°</p>	<p>2021 jan 11 17h 0.5m A21_01080 357 Ninina TYC 0772–01211–1 Diam = 110.0 m = 11.2 m = 13.1</p>  <p>Dur = 7.7s Dmag = 2.1 Sun: 170° Moon: 157°</p>	<p>2021 jan 11 18h46.2m A21_01057 283 Emma TYC 1828–01791–1 Diam = 150.0 m = 12.2 m = 13.5</p>  <p>Dur = 24.0s Dmag = 1.6 Sun: 137° Moon: 156°</p>	<p>2021 jan 14 19h 5.9m A21_01012 39 Laetitia UCAC5 499–013738 Diam = 159.0 m = 12.4 m = 10.3</p>  <p>Dur = 17.0s Dmag = 0.1 Sun: 147° Moon: 127°</p>
<p>2021 jan 15 22h 9.0m A21_01127 679 Pax UCAC4 564–040262 Diam = 65.5 m = 12.1 m = 11.8</p>  <p>Dur = 4.4s Dmag = 0.6 Sun: 176° Moon: 142°</p>	<p>2021 jan 16 21h23.0m A21_01052 245 Vera PPMX 5051891 Diam = 84.8 m = 11.9 m = 11.9</p>  <p>Dur = 7.8s Dmag = 0.8 Sun: 163° Moon: 119°</p>	<p>2021 jan 20 17h42.8m A21_01041 196 Philomela UCAC4 592–042146 Diam = 146.0 m = 12.5 m = 11.0</p>  <p>Dur = 10.7s Dmag = 0.3 Sun: 170° Moon: 86°</p>	<p>2021 jan 21 20h28.1m A21_01064 306 Unitas UCAC4 527–047561 Diam = 49.2 m = 12.1 m = 12.6</p>  <p>Dur = 3.6s Dmag = 1.0 Sun: 173° Moon: 86°</p>

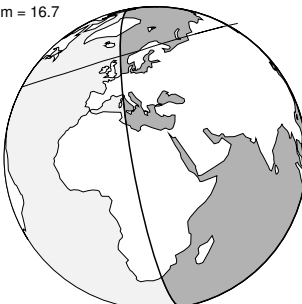
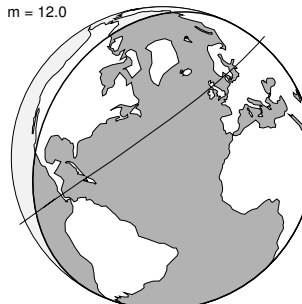
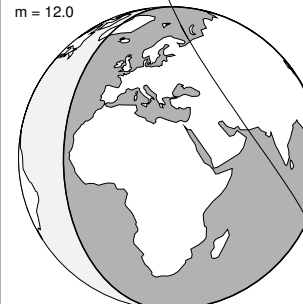
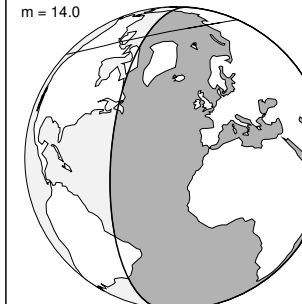
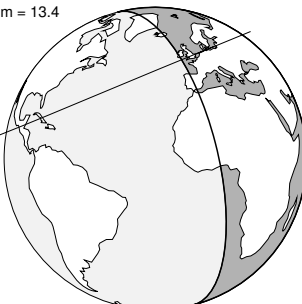
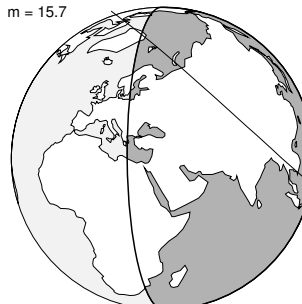
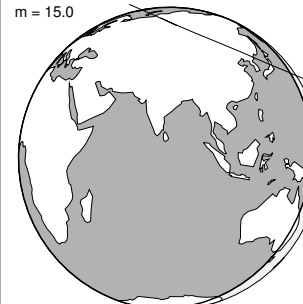
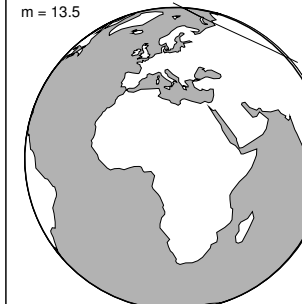
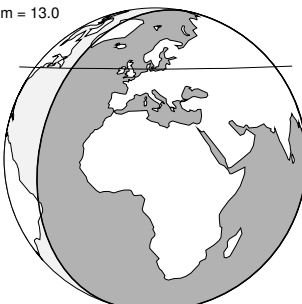
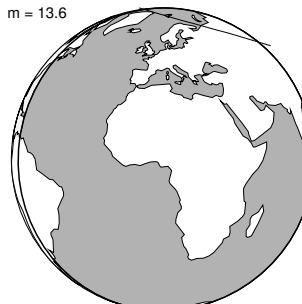
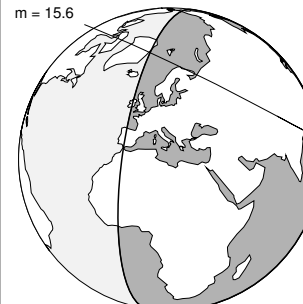
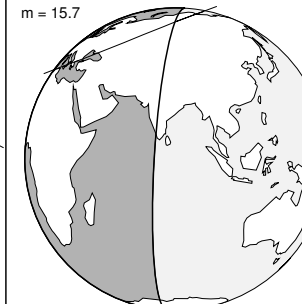
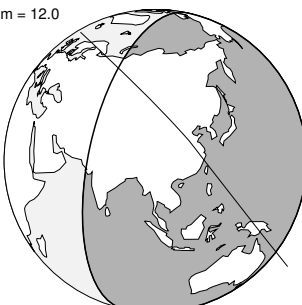
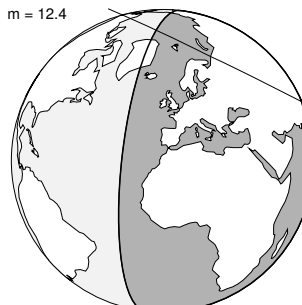
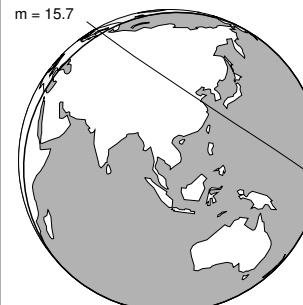
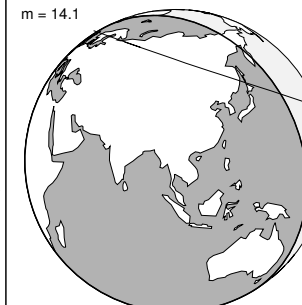
Occultations by major and minor planets – 2021

Region 5

<p>2021 jan 22 22h33.2m A21_01030 140 Siwa UCAC4 533-049713 Diam = 114.0 m = 11.8 m = 13.2</p>  <p>Dur = 8.0s Dmag = 1.7 Sun: 161° Moon: 86°</p>	<p>2021 jan 24 19h 7.0m A21_01144 859 Bouzaréah TYC 1206-00377-1 Diam = 77.5 m = 10.9 m = 15.1</p>  <p>Dur = 4.3s Dmag = 4.2 Sun: 87° Moon: 45°</p>	<p>2021 jan 25 19h26.5m A21_01129 679 Pax TYC 1914-01394-1 Diam = 65.5 m = 11.5 m = 12.3</p>  <p>Dur = 4.8s Dmag = 1.2 Sun: 163° Moon: 19°</p>	<p>2021 jan 26 20h29.5m A21_01149 931 Whittemora TYC 1324-00548-1 Diam = 52.6 m = 12.4 m = 13.2</p>  <p>Dur = 8.5s Dmag = 1.2 Sun: 142° Moon: 15°</p>
<p>2021 jan 28 14h29.8m A21_01140 795 Fini TYC 3348-02865-1 Diam = 78.7 m = 11.8 m = 14.5</p>  <p>Dur = 10.9s Dmag = 2.8 Sun: 125° Moon: 50°</p>	<p>2021 jan 29 3h11.5m A21_01011 35 Leukothea TYC 4952-00793-1 Diam = 108.0 m = 10.4 m = 12.7</p>  <p>Dur = 14.2s Dmag = 2.5 Sun: 115° Moon: 60°</p>	<p>2021 jan 29 14h11.1m A21_01168 1118 Hanskya PPMX 3986106 Diam = 80.7 m = 12.4 m = 15.2</p>  <p>Dur = 9.2s Dmag = 2.9 Sun: 132° Moon: 56°</p>	<p>2021 jan 31 15h36.8m A21_01106 500 Selinur UCAC5 582-010996 Diam = 45.1 m = 11.9 m = 13.8</p>  <p>Dur = 6.3s Dmag = 2.0 Sun: 115° Moon: 100°</p>
<p>2021 feb 2 17h45.0m A21_02032 72 Feronia TYC 0239-00836-1 Diam = 89.3 m = 11.6 m = 12.4</p>  <p>Dur = 7.6s Dmag = 1.2 Sun: 164° Moon: 52°</p>	<p>2021 feb 2 23h12.0m A21_02132 660 Crescentia UCAC4 490-045212 Diam = 44.2 m = 12.3 m = 13.1</p>  <p>Dur = 3.3s Dmag = 1.3 Sun: 159° Moon: 84°</p>	<p>2021 feb 3 18h47.7m A21_02074 234 Barbara UCAC4 493-014206 Diam = 44.6 m = 12.5 m = 13.4</p>  <p>Dur = 5.3s Dmag = 1.3 Sun: 127° Moon: 128°</p>	<p>2021 feb 6 23h 3.4m A21_02136 733 Mocia TYC 2489-01745-1 Diam = 92.0 m = 12.0 m = 14.0</p>  <p>Dur = 6.3s Dmag = 2.1 Sun: 156° Moon: 133°</p>
<p>2021 feb 8 21h23.8m A21_02034 75 Eurydike TYC 1908-00864-1 Diam = 58.3 m = 10.5 m = 13.8</p>  <p>Dur = 5.8s Dmag = 3.4 Sun: 145° Moon: 176°</p>	<p>2021 feb 12 22h18.4m A21_02104 380 Fiducia TYC 1881-00238-1 Diam = 76.3 m = 11.0 m = 14.2</p>  <p>Dur = 25.4s Dmag = 3.3 Sun: 129° Moon: 116°</p>	<p>2021 feb 15 4h34.0m A21_02099 347 Pariana TYC 5638-00079-1 Diam = 96.4 m = 10.9 m = 13.7</p>  <p>Dur = 4.2s Dmag = 2.9 Sun: 79° Moon: 120°</p>	<p>2021 feb 15 14h16.4m A21_02009 14 Irene TYC 2470-00669-1 Diam = 152.4 m = 11.3 m = 9.5</p>  <p>Dur = 20.6s Dmag = 0.2 Sun: 150° Moon: 109°</p>

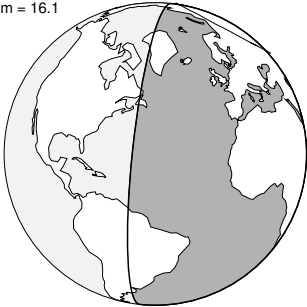
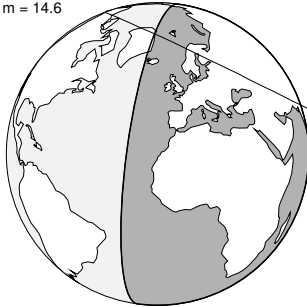
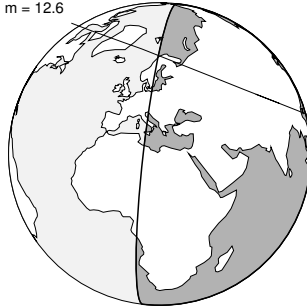
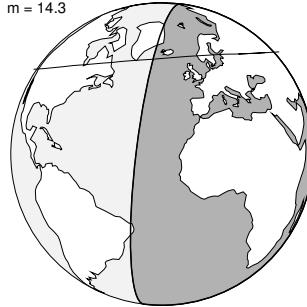
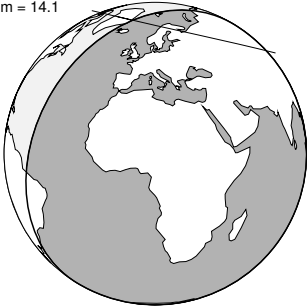
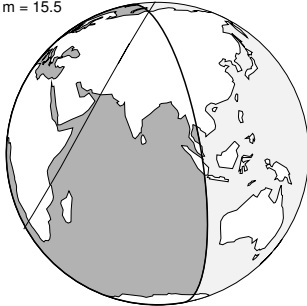
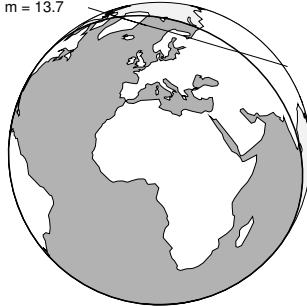
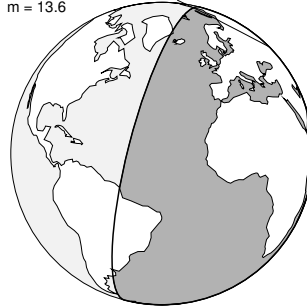
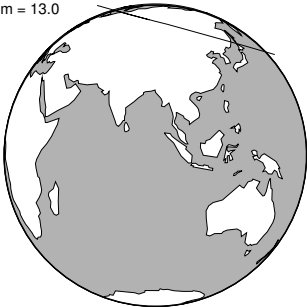
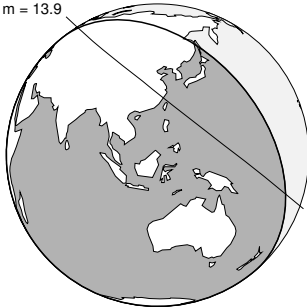
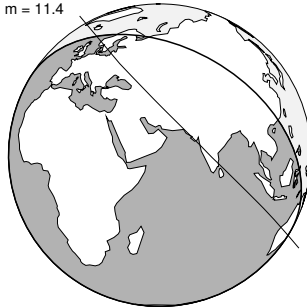
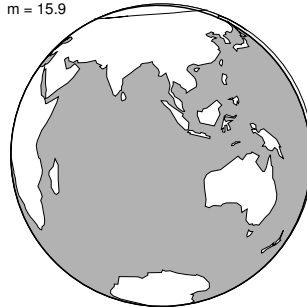
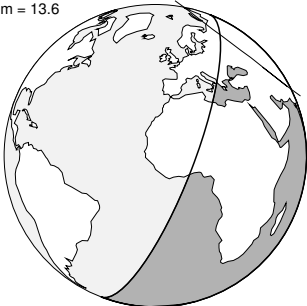
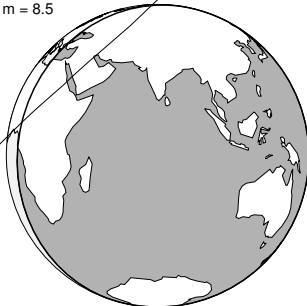
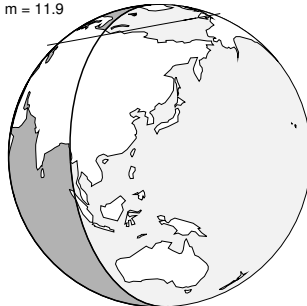
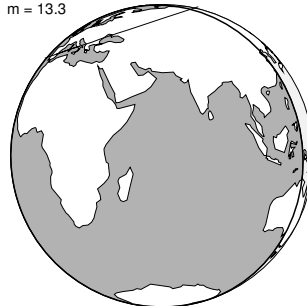
Occultations by major and minor planets – 2021

Region 5

<p>2021 feb 15 16h47.7m A21_02164 1581 Abanderada TYC 1272-00711-1 Diam = 40.0 m = 8.8 m = 16.7</p>  <p>Dur = 4.1s Dmag = 7.8 Sun: 98° Moon: 53°</p>	<p>2021 feb 17 0h50.2m A21_02049 109 Felicitas TYC 2467-00136-1 Diam = 91.0 m = 11.5 m = 12.0</p>  <p>Dur = 16.8s Dmag = 1.0 Sun: 144° Moon: 87°</p>	<p>2021 feb 18 19h23.0m A21_02081 287 Nephthys PPMX 6075022 Diam = 70.1 m = 11.7 m = 12.0</p>  <p>Dur = 12.1s Dmag = 0.9 Sun: 134° Moon: 55°</p>	<p>2021 feb 22 21h15.9m A21_02148 971 Alsatia FK6 1162 Diam = 66.7 m = 6.8 m = 14.0</p>  <p>Dur = 11.0s Dmag = 7.2 Sun: 115° Moon: 12°</p>
<p>2021 feb 25 18h 2.6m A21_02024 45 Eugenia TYC 0640-00901-1 Diam = 214.0 m = 11.6 m = 13.4</p>  <p>Dur = 7.7s Dmag = 2.0 Sun: 65° Moon: 94°</p>	<p>2021 feb 28 16h15.0m A21_02158 1118 Hanskya UCAC4 616-023600 Diam = 80.7 m = 11.2 m = 15.7</p>  <p>Dur = 7.7s Dmag = 4.5 Sun: 103° Moon: 93°</p>	<p>2021 mar 1 20h 4.4m A21_03169 1074 Beljawskya HIP 59476 Diam = 53.8 m = 10.1 m = 15.0</p>  <p>Dur = 4.3s Dmag = 4.8 Sun: 158° Moon: 12°</p>	<p>2021 mar 3 23h37.2m A21_03046 86 Semele TYC 0857-00131-1 Diam = 127.0 m = 10.9 m = 13.5</p>  <p>Dur = 8.4s Dmag = 2.8 Sun: 170° Moon: 55°</p>
<p>2021 mar 7 20h40.1m A21_03056 133 Cyrene UCAC4 543-047809 Diam = 70.1 m = 11.5 m = 13.0</p>  <p>Dur = 8.7s Dmag = 1.8 Sun: 139° Moon: 153°</p>	<p>2021 mar 7 22h34.8m A21_03126 465 Alekto TYC 0250-00025-1 Diam = 76.6 m = 11.4 m = 13.6</p>  <p>Dur = 7.1s Dmag = 2.4 Sun: 162° Moon: 131°</p>	<p>2021 mar 11 18h22.6m A21_03171 1237 Genevieve PPMX 4039750 Diam = 42.0 m = 11.8 m = 15.6</p>  <p>Dur = 5.6s Dmag = 3.8 Sun: 108° Moon: 128°</p>	<p>2021 mar 12 1h 7.7m A21_03192 3317 Paris UCAC4 454-072748 Diam = 127.0 m = 12.5 m = 15.7</p>  <p>Dur = 6.3s Dmag = 3.3 Sun: 81° Moon: 69°</p>
<p>2021 mar 13 13h26.8m A21_03075 196 Philomela UCAC4 596-041526 Diam = 146.0 m = 12.5 m = 12.0</p>  <p>Dur = 57.2s Dmag = 0.5 Sun: 116° Moon: 115°</p>	<p>2021 mar 13 19h50.1m A21_03110 356 Liguria UCAC4 606-034865 Diam = 135.0 m = 12.2 m = 12.4</p>  <p>Dur = 10.4s Dmag = 0.9 Sun: 105° Moon: 102°</p>	<p>2021 mar 19 16h 8.7m A21_03189 2731 Cucula TYC 0850-00378-1 Diam = 51.1 m = 11.6 m = 15.7</p>  <p>Dur = 3.6s Dmag = 4.1 Sun: 161° Moon: 93°</p>	<p>2021 mar 20 19h25.0m A21_03150 692 Hippodamia TYC 1470-00809-1 Diam = 47.7 m = 10.6 m = 14.1</p>  <p>Dur = 4.0s Dmag = 3.5 Sun: 145° Moon: 115°</p>

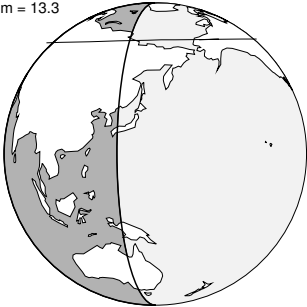
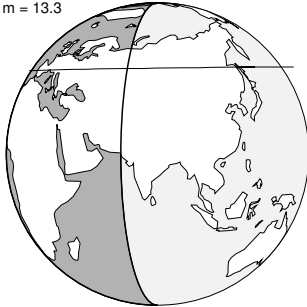

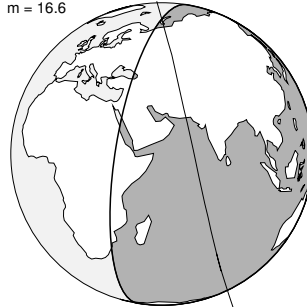
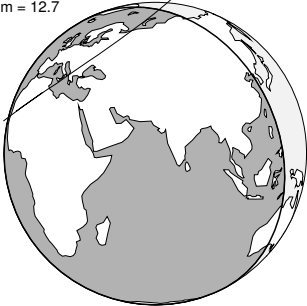
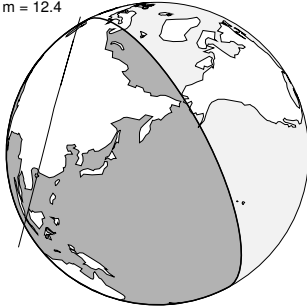
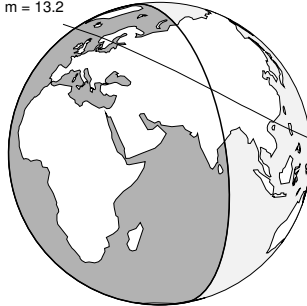
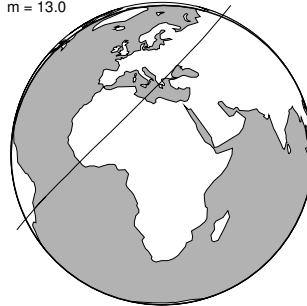
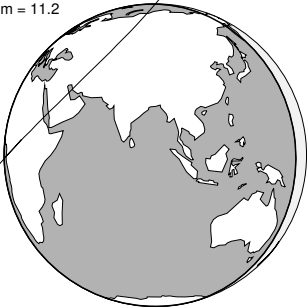
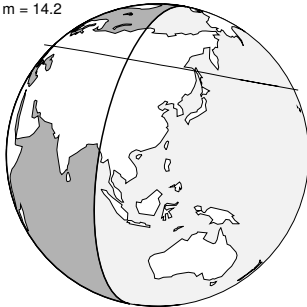
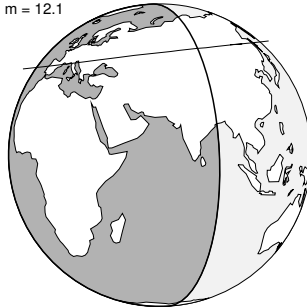
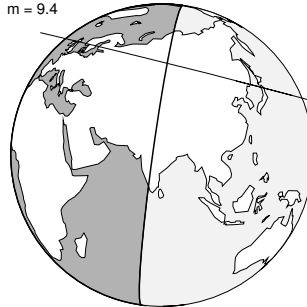
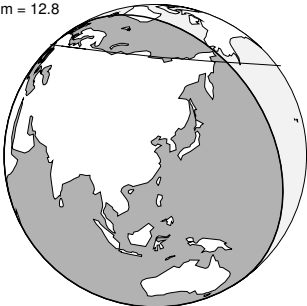
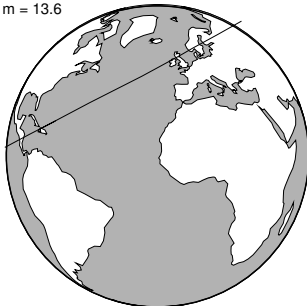
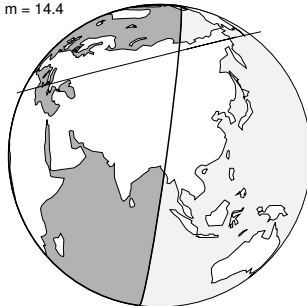
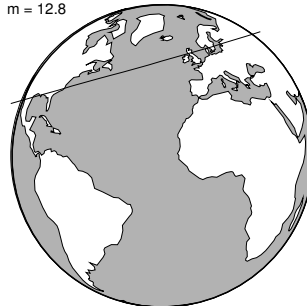
Occultations by major and minor planets – 2021

Region 5

<p>2021 mar 22 22h 1.4m A21_03183 1859 Kovalevskaya Gaia 119-0114786 Diam = 48.6 m = 10.3 m = 16.1</p>  <p>Dur = 4.6s Dmag = 5.8 Sun: 98° Moon: 7°</p>	<p>2021 mar 23 20h 0.6m A21_03038 75 Eurydike UCAC4 587-036820 Diam = 58.3 m = 12.2 m = 14.6</p>  <p>Dur = 6.7s Dmag = 2.5 Sun: 101° Moon: 14°</p>	<p>2021 mar 26 17h20.2m A21_03112 356 Liguria TYC 1906-00796-1 Diam = 135.0 m = 11.8 m = 12.6</p>  <p>Dur = 7.8s Dmag = 1.3 Sun: 96° Moon: 55°</p>	<p>2021 mar 26 20h28.5m A21_03077 213 Lilaea TYC 1896-00488-1 Diam = 84.6 m = 14.3</p>  <p>Dur = 9.3s Dmag = 4.5 Sun: 99° Moon: 54°</p>
<p>2021 apr 10 21h 9.1m A21_04026 86 Semele PPMX 7235942 Diam = 127.0 m = 12.4 m = 14.1</p>  <p>Dur = 13.3s Dmag = 1.9 Sun: 142° Moon: 157°</p>	<p>2021 apr 11 23h 7.2m A21_04149 3317 Paris UCAC4 463-076540 Diam = 127.0 m = 12.1 m = 15.5</p>  <p>Dur = 15.0s Dmag = 3.4 Sun: 106° Moon: 107°</p>	<p>2021 apr 13 0h36.7m A21_04077 350 Ornamenta TYC 1477-00019-1 Diam = 123.0 m = 10.8 m = 13.7</p>  <p>Dur = 8.4s Dmag = 3.0 Sun: 148° Moon: 153°</p>	<p>2021 apr 13 21h26.9m A21_04039 133 Cyrene UCAC4 539-046061 Diam = 70.1 m = 11.7 m = 13.6</p>  <p>Dur = 8.8s Dmag = 2.1 Sun: 102° Moon: 83°</p>
<p>2021 apr 15 17h46.8m A21_04080 363 Padua UCAC4 436-057867 Diam = 96.0 m = 12.4 m = 13.0</p>  <p>Dur = 7.4s Dmag = 1.1 Sun: 172° Moon: 136°</p>	<p>2021 jun 4 18h27.6m A21_06075 276 Adelheid PPMX 8666564 Diam = 127.0 m = 11.5 m = 13.9</p>  <p>Dur = 10.7s Dmag = 2.5 Sun: 136° Moon: 85°</p>	<p>2021 jun 4 21h41.4m A21_06034 105 Artemis UCAC5 530-070774 Diam = 123.0 m = 12.5 m = 11.4</p>  <p>Dur = 16.5s Dmag = 0.3 Sun: 135° Moon: 98°</p>	<p>2021 jun 20 18h23.0m A21_06167 2207 Antenor UCAC4 372-137555 Diam = 92.6 m = 12.3 m = 15.9</p>  <p>Dur = 5.8s Dmag = 3.6 Sun: 167° Moon: 66°</p>
<p>2021 jun 25 18h12.0m A21_06028 87 Sylvia TYC 0863-00638-1 Diam = 271.0 m = 10.0 m = 13.6</p>  <p>Dur = 12.2s Dmag = 3.6 Sun: 75° Moon: 119°</p>	<p>2021 aug 3 17h26.5m A21_08002 6 Hebe UCAC4 384-138207 Diam = 186.0 m = 12.4 m = 8.5</p>  <p>Dur = 18.1s Dmag = 0.0 Sun: 157° Moon: 144°</p>	<p>2021 aug 8 23h29.8m A21_08013 22 Kalliope HIP 25586 Diam = 187.0 m = 8.5 m = 11.9</p>  <p>Dur = 5.3s Dmag = 3.4 Sun: 53° Moon: 59°</p>	<p>2021 aug 18 21h23.6m A21_08093 604 Tekmessa TYC 5822-01215-1 Diam = 65.3 m = 9.8 m = 13.3</p>  <p>Dur = 7.6s Dmag = 3.5 Sun: 158° Moon: 68°</p>

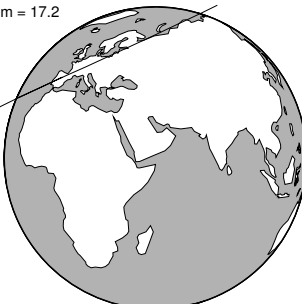
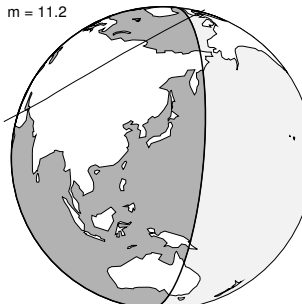
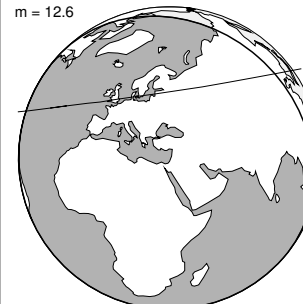
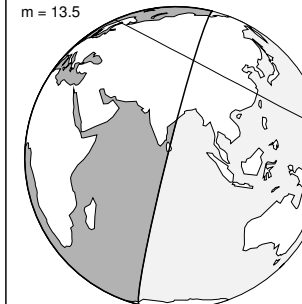
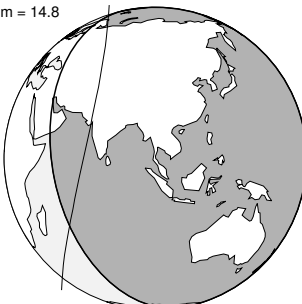
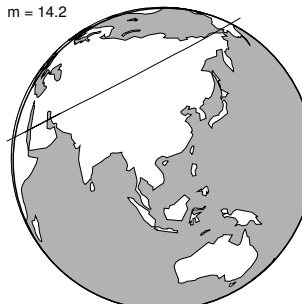
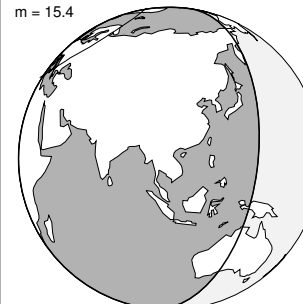
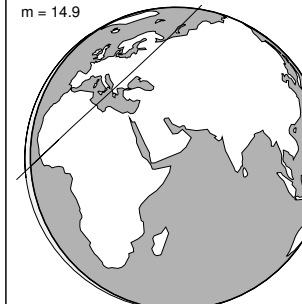
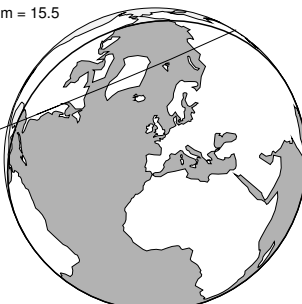
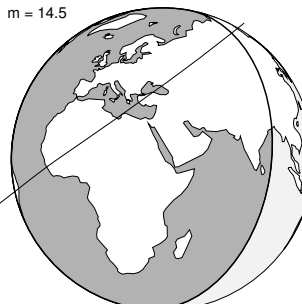
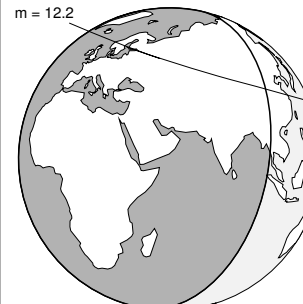
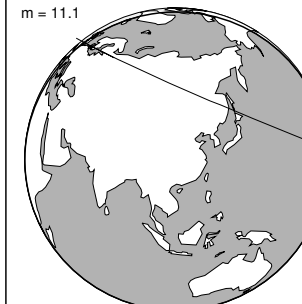
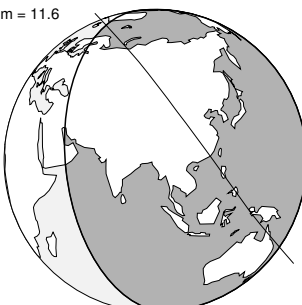
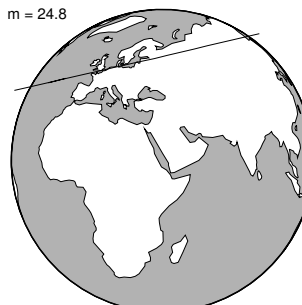
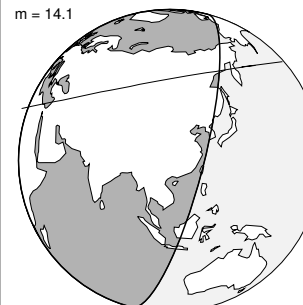
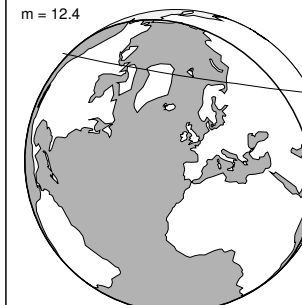
Occultations by major and minor planets – 2021

Region 5

<p>2021 sep 5 20h50.3m A21_09091 554 Peraga UCAC4 580-018987 Diam = 98.5 m = 11.7 m = 13.3</p>  <p>Dur = 3.7s Dmag = 1.8 Sun: 75° Moon: 60°</p>	<p>2021 sep 7 1h19.4m A21_09092 554 Peraga TYC 1867-02366-1 Diam = 98.5 m = 9.9 m = 13.3</p>  <p>Dur = 3.7s Dmag = 3.4 Sun: 75° Moon: 76°</p>	<p>2021 sep 7 14h58.7m A21_09105 654 Zelinda UCAC5 510-135899 Diam = 132.0 m = 12.5 m = 12.6</p>  <p>Dur = 9.9s Dmag = 0.8 Sun: 153° Moon: 145°</p>	<p>2021 sep 9 15h37.1m A21_09139 2363 Cebriones UCAC4 508-081569 Diam = 91.7 m = 11.6 m = 16.6</p>  <p>Dur = 7.0s Dmag = 5.1 Sun: 107° Moon: 78°</p>
<p>2021 sep 13 21h27.5m A21_09065 377 Campania TYC 0627-01274-1 Diam = 94.0 m = 12.5 m = 12.7</p>  <p>Dur = 16.1s Dmag = 0.9 Sun: 144° Moon: 125°</p>	<p>2021 sep 14 16h31.3m A21_09101 626 Notburga HIP 15159 Diam = 104.0 m = 9.0 m = 12.4</p>  <p>Dur = 6.3s Dmag = 3.4 Sun: 109° Moon: 139°</p>	<p>2021 sep 18 0h17.3m A21_09033 114 Cassandra TYC 0664-00250-1 Diam = 103.0 m = 10.7 m = 13.2</p>  <p>Dur = 22.4s Dmag = 2.6 Sun: 115° Moon: 100°</p>	<p>2021 sep 20 22h 4.9m A21_09069 392 Wilhelmina TYC 1172-01127-1 Diam = 64.6 m = 11.7 m = 13.0</p>  <p>Dur = 5.9s Dmag = 1.6 Sun: 167° Moon: 17°</p>
<p>2021 sep 22 19h20.5m A21_09022 59 Elpis TYC 0024-00293-1 Diam = 173.0 m = 11.8 m = 11.2</p>  <p>Dur = 20.1s Dmag = 0.5 Sun: 158° Moon: 2°</p>	<p>2021 sep 26 23h40.8m A21_09054 268 Adorea TYC 1371-02142-1 Diam = 142.0 m = 9.0 m = 14.2</p>  <p>Dur = 5.1s Dmag = 5.2 Sun: 67° Moon: 45°</p>	<p>2021 sep 27 0h 2.1m A21_09088 521 Brixia TYC 0686-01225-1 Diam = 103.0 m = 10.4 m = 12.1</p>  <p>Dur = 12.0s Dmag = 1.9 Sun: 113° Moon: 12°</p>	<p>2021 oct 8 0h48.1m A21_10003 7 Iris TYC 1909-01888-1 Diam = 329.6 m = 9.9 m = 9.4</p>  <p>Dur = 16.3s Dmag = 0.5 Sun: 86° Moon: 108°</p>
<p>2021 oct 9 17h59.6m A21_10043 165 Loreley TYC 2344-00070-1 Diam = 160.0 m = 11.0 m = 12.8</p>  <p>Dur = 18.4s Dmag = 2.0 Sun: 139° Moon: 164°</p>	<p>2021 oct 13 1h 0.2m A21_10113 701 Oriola PPMX 5824401 Diam = 46.0 m = 12.1 m = 13.6</p>  <p>Dur = 3.4s Dmag = 1.8 Sun: 172° Moon: 95°</p>	<p>2021 oct 13 23h44.9m A21_10139 1115 Sabauda UCAC4 583-038287 Diam = 71.1 m = 11.7 m = 14.4</p>  <p>Dur = 4.0s Dmag = 2.8 Sun: 92° Moon: 167°</p>	<p>2021 oct 19 0h48.4m A21_10070 303 Josephina TYC 0618-00775-1 Diam = 103.0 m = 11.8 m = 12.8</p>  <p>Dur = 8.5s Dmag = 1.4 Sun: 171° Moon: 17°</p>

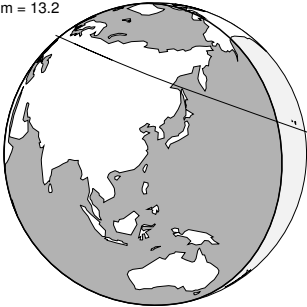
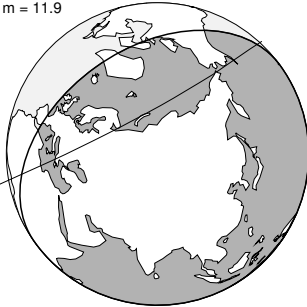
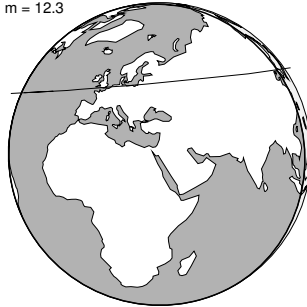
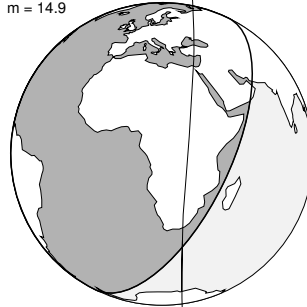
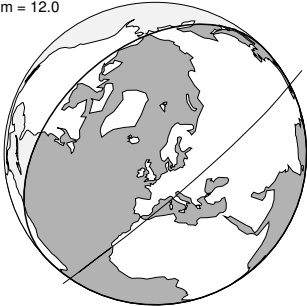
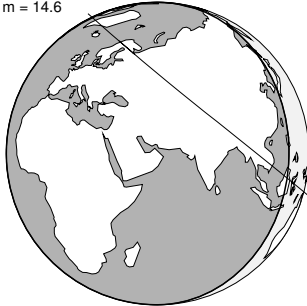
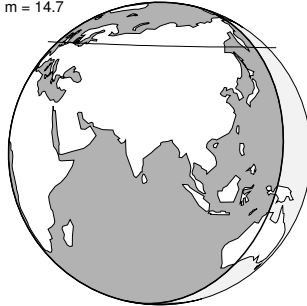
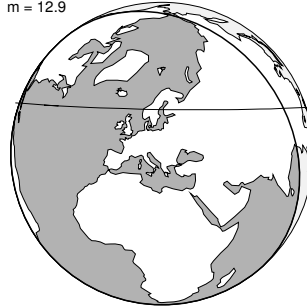
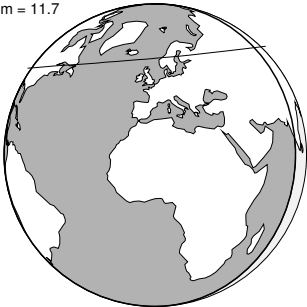
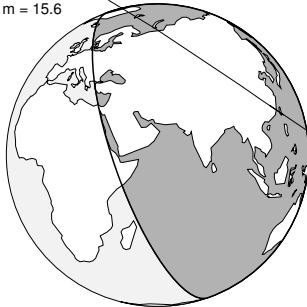
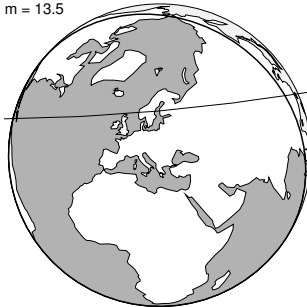
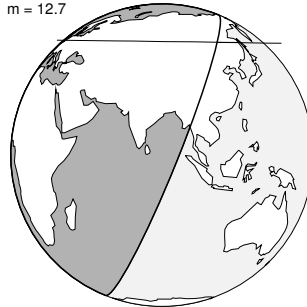
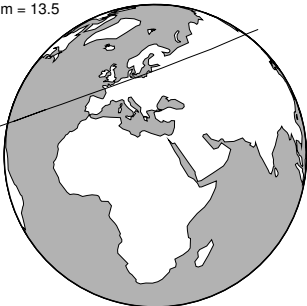
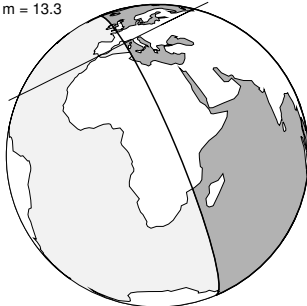
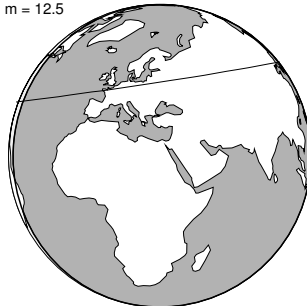
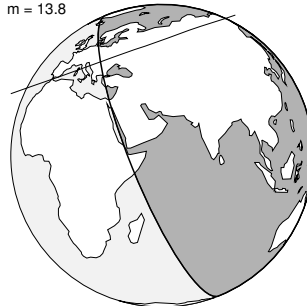
Occultations by major and minor planets – 2021

Region 5

<p>2021 oct 21 20h12.0m A21_10155 1647 Menelaus Gaia 105-0009352 Diam = 72.0 m = 12.1 m = 17.2</p>  <p>Dur = 4.2s Dmag = 5.2 Sun: 176° Moon: 15°</p>	<p>2021 oct 22 19h47.8m A21_10011 22 Kalliope UCAC4 588-037224 Diam = 187.0 m = 11.9 m = 11.2</p>  <p>Dur = 17.6s Dmag = 0.5 Sun: 105° Moon: 50°</p>	<p>2021 oct 22 22h37.5m A21_10045 165 Loreley UCAC4 617-008946 Diam = 160.0 m = 12.2 m = 12.6</p>  <p>Dur = 13.5s Dmag = 0.9 Sun: 152° Moon: 16°</p>	<p>2021 oct 30 0h26.7m A21_10053 194 Prokne TYC 0214-01569-1 Diam = 174.0 m = 11.3 m = 13.5</p>  <p>Dur = 11.9s Dmag = 2.3 Sun: 86° Moon: 22°</p>
<p>2021 nov 1 13h55.4m A21_11117 1031 Arctica UCAC4 495-145889 Diam = 78.0 m = 11.9 m = 14.8</p>  <p>Dur = 8.0s Dmag = 3.0 Sun: 132° Moon: 162°</p>	<p>2021 nov 2 15h52.7m A21_11073 552 Sigelinde HIP 8903 Diam = 81.0 m = 2.7 m = 14.2</p>  <p>Dur = 5.7s Dmag = 11.5 Sun: 169° Moon: 153°</p>	<p>2021 nov 6 20h34.9m A21_11078 609 Fulvia TYC 1333-01562-1 Diam = 56.3 m = 10.3 m = 15.4</p>  <p>Dur = 20.6s Dmag = 5.1 Sun: 125° Moon: 153°</p>	<p>2021 nov 9 19h 5.4m A21_11126 2120 Tyumenia UCAC4 523-003313 Diam = 43.0 m = 12.2 m = 14.9</p>  <p>Dur = 3.1s Dmag = 2.8 Sun: 164° Moon: 97°</p>
<p>2021 nov 9 23h 9.2m A21_11113 1000 Piazzia TYC 2837-02094-1 Diam = 54.0 m = 11.0 m = 15.5</p>  <p>Dur = 3.2s Dmag = 4.5 Sun: 152° Moon: 107°</p>	<p>2021 nov 11 0h13.3m A21_11084 640 Brambilla UCAC4 530-023057 Diam = 84.8 m = 11.9 m = 14.5</p>  <p>Dur = 9.3s Dmag = 2.6 Sun: 135° Moon: 138°</p>	<p>2021 nov 12 23h28.8m A21_11066 487 Venetia TYC 1329-01678-1 Diam = 64.0 m = 8.5 m = 12.2</p>  <p>Dur = 27.2s Dmag = 3.8 Sun: 130° Moon: 120°</p>	<p>2021 nov 13 16h26.5m A21_11101 796 Sarita TYC 2340-00841-1 Diam = 46.7 m = 11.7 m = 11.1</p>  <p>Dur = 4.5s Dmag = 0.5 Sun: 166° Moon: 68°</p>
<p>2021 nov 14 13h42.5m A21_11112 980 Anacostia TYC 2250-02211-1 Diam = 89.0 m = 12.0 m = 11.6</p>  <p>Dur = 12.0s Dmag = 0.6 Sun: 126° Moon: 29°</p>	<p>2021 nov 15 21h21.4m A21_11140 2015VL173 HIP 17336 Diam = 83.2 m = 6.9 m = 24.8</p>  <p>Dur = 3.3s Dmag = 17.9 Sun: 175° Moon: 42°</p>	<p>2021 nov 15 22h14.3m A21_11031 161 Athor HIP 44512 Diam = 45.7 m = 6.6 m = 14.1</p>  <p>Dur = 4.9s Dmag = 7.5 Sun: 102° Moon: 115°</p>	<p>2021 nov 16 2h23.2m A21_11022 96 Aegle UCAC4 672-034126 Diam = 174.0 m = 11.2 m = 12.4</p>  <p>Dur = 16.7s Dmag = 1.5 Sun: 146° Moon: 67°</p>

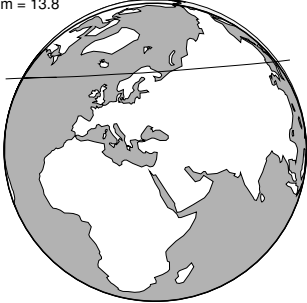



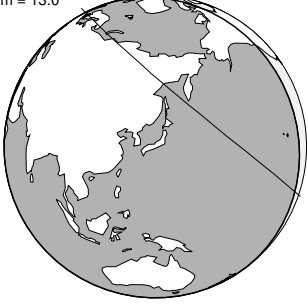


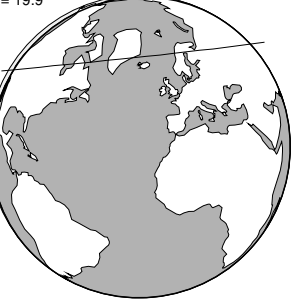

Occultations by major and minor planets – 2021

Region 5

<p>2021 nov 16 17h45.2m A21_11033 162 Laetitia TYC 1874-01605-1 Diam = 105.0 m = 11.1 m = 13.2</p>  <p>Dur = 14.1s Dmag = 2.2 Sun: 146° Moon: 63°</p>	<p>2021 nov 22 16h36.5m A21_11081 626 Notburga UCAC4 758-019661 Diam = 104.0 m = 10.8 m = 11.9</p>  <p>Dur = 14.6s Dmag = 1.5 Sun: 134° Moon: 55°</p>	<p>2021 nov 23 22h33.3m A21_11041 212 Medea TYC 1857-01108-1 Diam = 140.0 m = 10.4 m = 12.3</p>  <p>Dur = 13.4s Dmag = 2.1 Sun: 162° Moon: 32°</p>	<p>2021 nov 26 2h33.4m A21_11064 439 Ohio TYC 4854-00992-1 Diam = 79.3 m = 11.5 m = 14.9</p>  <p>Dur = 8.8s Dmag = 3.5 Sun: 116° Moon: 32°</p>
<p>2021 nov 26 21h34.6m A21_11082 626 Notburga UCAC4 756-020821 Diam = 104.0 m = 11.8 m = 12.0</p>  <p>Dur = 15.0s Dmag = 0.8 Sun: 134° Moon: 89°</p>	<p>2021 nov 26 22h 7.2m A21_11132 2906 Caltech TYC 1878-00492-1 Diam = 62.0 m = 11.1 m = 14.6</p>  <p>Dur = 4.2s Dmag = 3.6 Sun: 150° Moon: 53°</p>	<p>2021 nov 27 20h34.0m A21_11049 301 Bavaria UCAC4 538-033522 Diam = 55.5 m = 11.9 m = 14.7</p>  <p>Dur = 6.8s Dmag = 2.9 Sun: 143° Moon: 59°</p>	<p>2021 nov 28 0h13.1m A21_11062 426 Hippo PPMX 2144330 Diam = 134.0 m = 12.2 m = 12.9</p>  <p>Dur = 12.7s Dmag = 1.2 Sun: 147° Moon: 71°</p>
<p>2021 nov 30 1h15.0m A21_11044 270 Anahita TYC 1863-01795-1 Diam = 52.2 m = 12.1 m = 11.7</p>  <p>Dur = 5.5s Dmag = 0.6 Sun: 158° Moon: 99°</p>	<p>2021 dec 3 14h47.2m A21_12171 1712 Angola UCAC4 518-146617 Diam = 66.2 m = 11.8 m = 15.6</p>  <p>Dur = 5.4s Dmag = 3.9 Sun: 106° Moon: 116°</p>	<p>2021 dec 3 23h30.0m A21_12134 934 Thuringia UCAC4 676-039920 Diam = 57.1 m = 12.1 m = 13.5</p>  <p>Dur = 6.4s Dmag = 1.7 Sun: 153° Moon: 151°</p>	<p>2021 dec 4 23h48.2m A21_12048 181 Eucharis HIP 51280 Diam = 107.0 m = 10.8 m = 12.7</p>  <p>Dur = 7.5s Dmag = 2.1 Sun: 96° Moon: 105°</p>
<p>2021 dec 9 21h52.1m A21_12144 1001 Gaussia UCAC4 567-012512 Diam = 78.3 m = 12.4 m = 13.5</p>  <p>Dur = 6.4s Dmag = 1.4 Sun: 176° Moon: 101°</p>	<p>2021 dec 15 15h59.7m A21_12046 175 Andromache UCAC4 419-147736 Diam = 107.0 m = 12.4 m = 13.3</p>  <p>Dur = 4.4s Dmag = 1.3 Sun: 82° Moon: 60°</p>	<p>2021 dec 15 20h54.0m A21_12019 73 Klytia UCAC4 578-012162 Diam = 45.0 m = 11.4 m = 12.5</p>  <p>Dur = 4.3s Dmag = 1.4 Sun: 165° Moon: 23°</p>	<p>2021 dec 18 14h43.6m A21_12066 325 Heidelberga UCAC4 501-000552 Diam = 78.0 m = 11.7 m = 13.8</p>  <p>Dur = 7.0s Dmag = 2.2 Sun: 102° Moon: 71°</p>

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Region 5

<p>2021 dec 21 21h43.8m A21_12105 573 Recha UCAC4 638-031968 Diam = 50.5 m = 12.1 m = 13.8</p>  <p>Dur = 4.0s Dmag = 1.9 Sun: 165° Moon: 30°</p>	<p>2021 dec 22 2h 0.9m A21_12113 688 Melanie Gaia 099-0137253 Diam = 44.0 m = 7.4 m = 15.2</p>  <p>Dur = 3.5s Dmag = 7.7 Sun: 154° Moon: 20°</p>	<p>2021 dec 22 21h40.5m A21_12083 438 Zeuxo UCAC4 608-036877 Diam = 63.6 m = 11.9 m = 13.6</p>  <p>Dur = 5.0s Dmag = 1.9 Sun: 167° Moon: 31°</p>	<p>2021 dec 24 0h46.8m A21_12116 693 Zerbina UCAC5 670-037725 Diam = 69.1 m = 12.4 m = 13.9</p>  <p>Dur = 5.2s Dmag = 1.7 Sun: 158° Moon: 11°</p>
<p>2021 dec 25 16h11.9m A21_12154 1115 Sabauda UCAC4 625-039895 Diam = 71.1 m = 12.0 m = 13.0</p>  <p>Dur = 6.3s Dmag = 1.3 Sun: 159° Moon: 57°</p>	<p>2021 dec 26 1h17.1m A21_12045 162 Laurentia TYC 2389-01522-1 Diam = 105.0 m = 10.7 m = 12.7</p>  <p>Dur = 9.5s Dmag = 2.1 Sun: 164° Moon: 91°</p>	<p>2021 dec 27 1h14.6m A21_12126 830 Petropolitana TYC 1927-01630-1 Diam = 47.1 m = 10.8 m = 13.7</p>  <p>Dur = 4.5s Dmag = 2.9 Sun: 155° Moon: 65°</p>	<p>2021 dec 28 0h48.4m B21_12001 84922 2003VS2 UCAC4 613-024673 Diam = 602.6 m = 13.3 m = 19.9</p>  <p>Dur = 24.2s Dmag = 6.5 Sun: 166° Moon: 111°</p>
<p>2021 dec 28 19h33.9m A21_12097 521 Brixia UCAC4 536-007940 Diam = 103.0 m = 12.2 m = 11.3</p>  <p>Dur = 18.9s Dmag = 0.4 Sun: 145° Moon: 146°</p>			