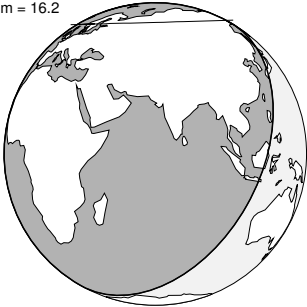
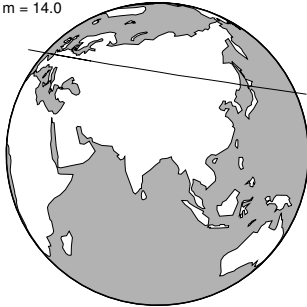
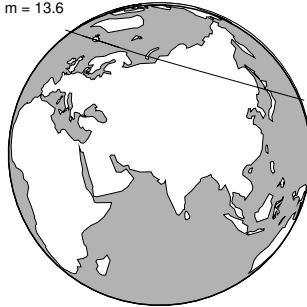
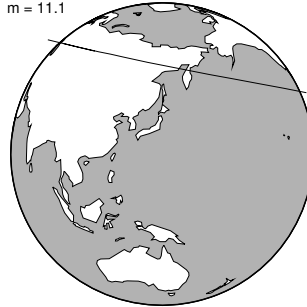
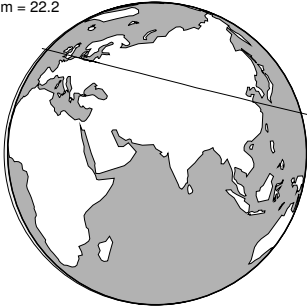
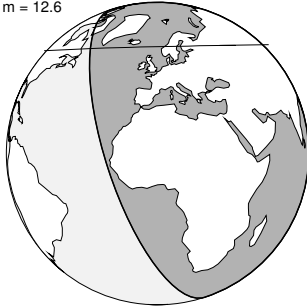
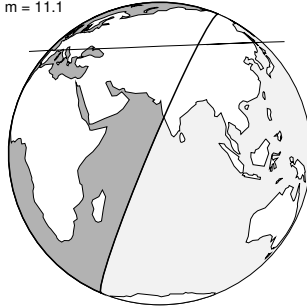
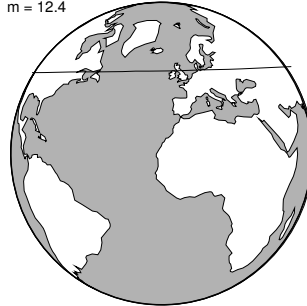
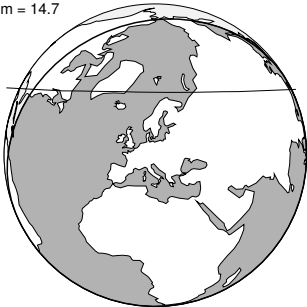
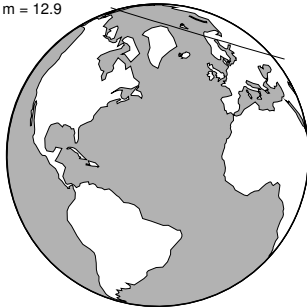
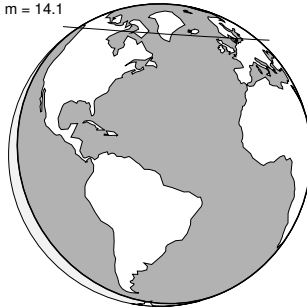
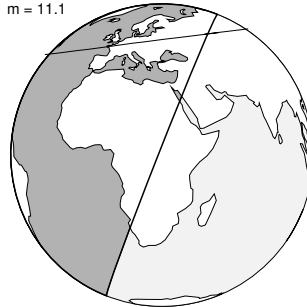
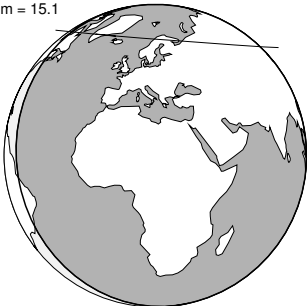
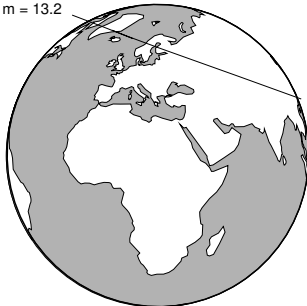
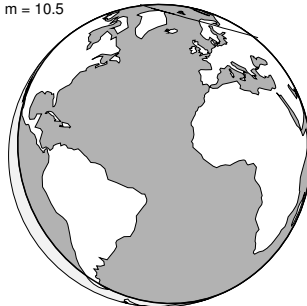
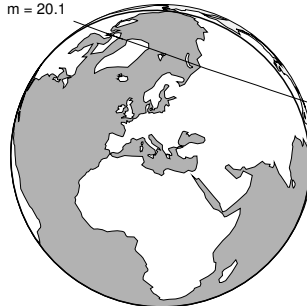


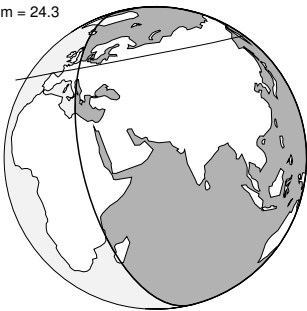
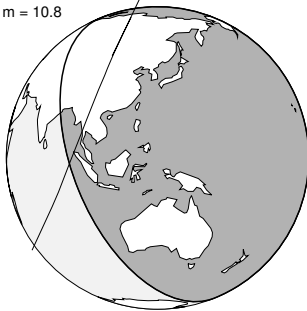
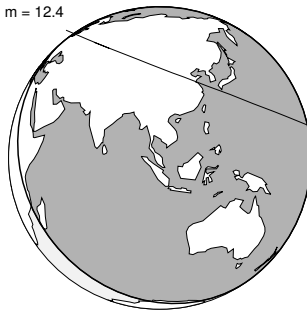
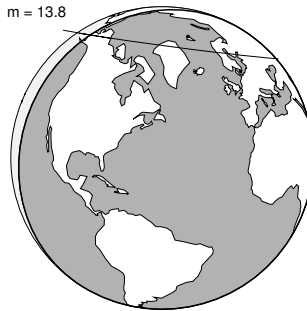
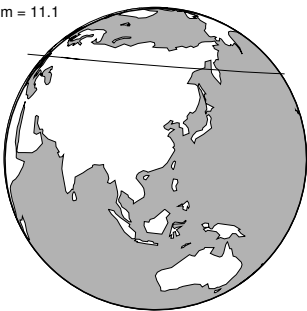
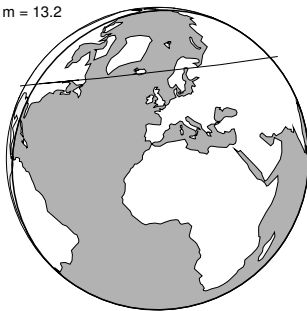
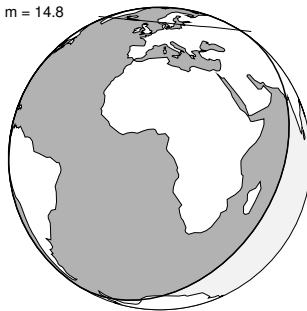
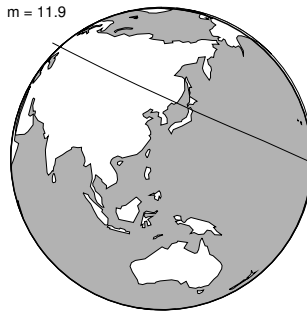
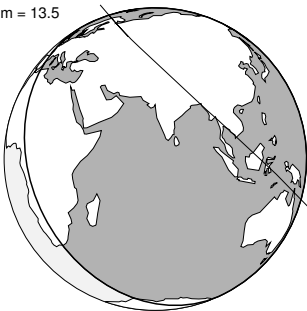
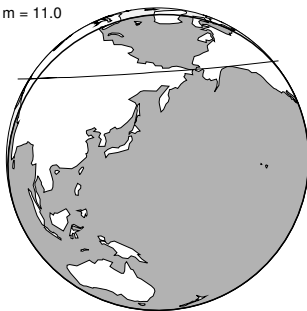
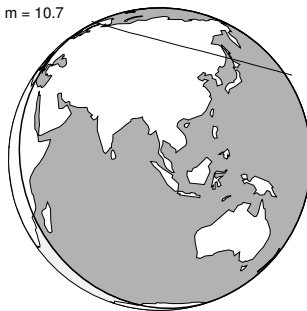
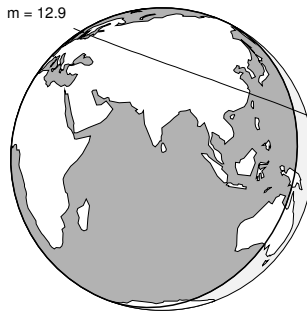
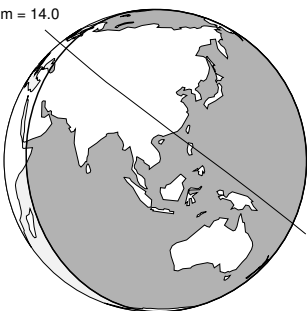
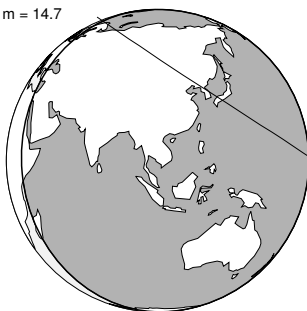
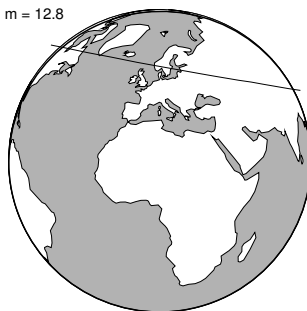
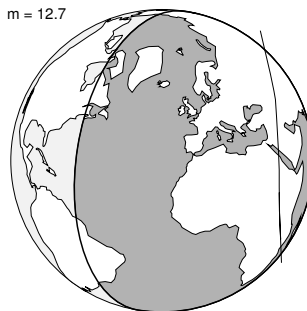
Occultations by major and minor planets – 2020

Region 5

<p>2020 jan 2 22h17.5m A20_01132 1408 Trusanda TYC 0239-00633-1 Diam = 41.0 m = 9.9 m = 16.2</p>  <p>Dur = 6.8s Dmag = 6.2 Sun: 133° Moon: 135°</p>	<p>2020 jan 3 18h36.3m A20_01048 222 Lucia PPMX 5071524 Diam = 58.0 m = 12.4 m = 14.0</p>  <p>Dur = 3.8s Dmag = 1.9 Sun: 176° Moon: 87°</p>	<p>2020 jan 3 19h40.4m A20_01101 567 Eleutheria TYC 2442-01511-1 Diam = 97.0 m = 11.7 m = 13.6</p>  <p>Dur = 7.2s Dmag = 2.0 Sun: 169° Moon: 87°</p>	<p>2020 jan 4 14h31.8m A20_01039 144 Vibia TYC 1902-00635-1 Diam = 178.0 m = 11.3 m = 11.1</p>  <p>Dur = 15.3s Dmag = 0.6 Sun: 176° Moon: 73°</p>
<p>2020 jan 4 18h41.1m B20_01012 2010WG9 UCAC4 561-024472 Diam = 91.2 m = 14.9 m = 22.2</p>  <p>Dur = 3.3s Dmag = 7.3 Sun: 167° Moon: 60°</p>	<p>2020 jan 5 18h55.9m A20_01108 678 Fredegundis UCAC4 541-003729 Diam = 44.0 m = 12.1 m = 12.6</p>  <p>Dur = 3.9s Dmag = 1.1 Sun: 109° Moon: 13°</p>	<p>2020 jan 6 1h37.0m A20_01002 6 Hebe TYC 0300-00301-1 Diam = 186.0 m = 10.4 m = 11.1</p>  <p>Dur = 10.3s Dmag = 1.2 Sun: 86° Moon: 152°</p>	<p>2020 jan 7 1h36.6m A20_01080 407 Arachne UCAC4 562-042700 Diam = 97.0 m = 11.8 m = 12.4</p>  <p>Dur = 8.0s Dmag = 1.1 Sun: 172° Moon: 54°</p>
<p>2020 jan 8 22h18.2m A20_01130 1390 Abastumani TYC 3384-00690-1 Diam = 104.0 m = 9.1 m = 14.7</p>  <p>Dur = 7.6s Dmag = 5.6 Sun: 151° Moon: 29°</p>	<p>2020 jan 11 2h42.7m A20_01095 498 Tokio TYC 1899-01411-1 Diam = 84.8 m = 11.8 m = 12.9</p>  <p>Dur = 5.9s Dmag = 1.4 Sun: 174° Moon: 9°</p>	<p>2020 jan 13 2h 8.9m A20_01118 798 Ruth TYC 0738-01426-1 Diam = 46.2 m = 11.8 m = 14.1</p>  <p>Dur = 3.8s Dmag = 2.4 Sun: 157° Moon: 52°</p>	<p>2020 jan 14 4h24.5m A20_01074 354 Eleonora UCAC4 464-049900 Diam = 162.0 m = 12.4 m = 11.1</p>  <p>Dur = 7.8s Dmag = 0.3 Sun: 88° Moon: 46°</p>
<p>2020 jan 14 21h18.7m A20_01121 834 Burnhamia TYC 1317-00893-1 Diam = 69.2 m = 10.5 m = 15.1</p>  <p>Dur = 4.8s Dmag = 4.6 Sun: 156° Moon: 78°</p>	<p>2020 jan 14 22h12.2m A20_01075 381 Myrrha TYC 1350-00491-1 Diam = 136.5 m = 11.8 m = 13.2</p>  <p>Dur = 8.7s Dmag = 1.7 Sun: 172° Moon: 61°</p>	<p>2020 jan 15 0h42.1m A20_01013 69 Hesperia UCAC4 499-023656 Diam = 143.0 m = 11.8 m = 10.5</p>  <p>Dur = 16.6s Dmag = 0.3 Sun: 156° Moon: 78°</p>	<p>2020 jan 15 23h42.9m B20_01005 482824 2013XC26 UCAC4 640-043455 Diam = 549.5 m = 14.9 m = 20.1</p>  <p>Dur = 22.0s Dmag = 5.2 Sun: 159° Moon: 62°</p>

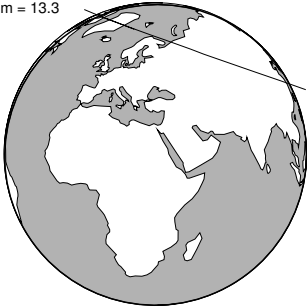
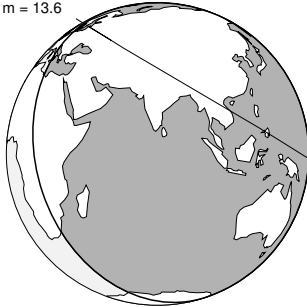
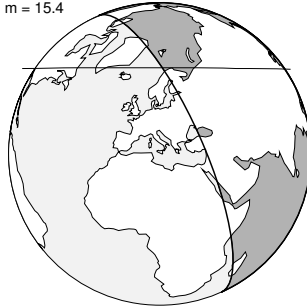
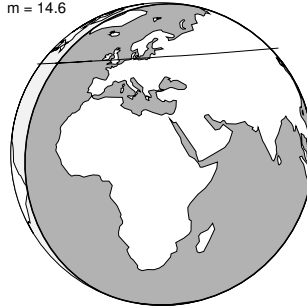
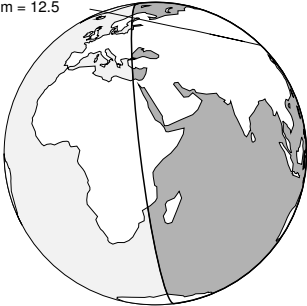
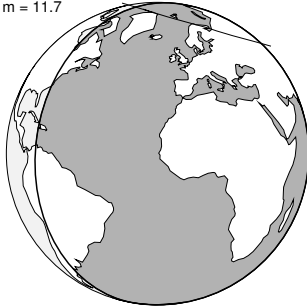
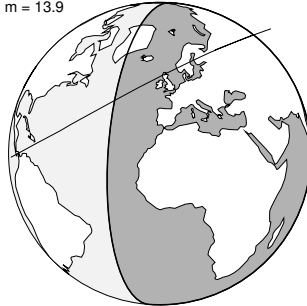
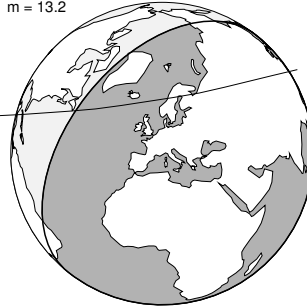
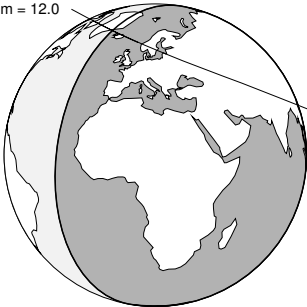
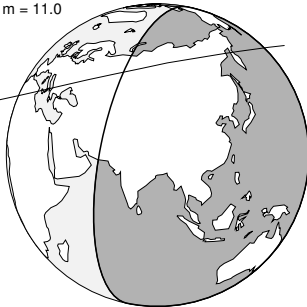
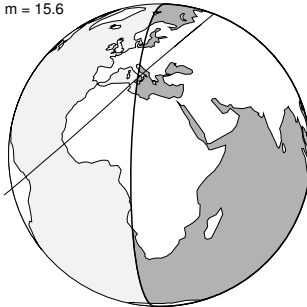
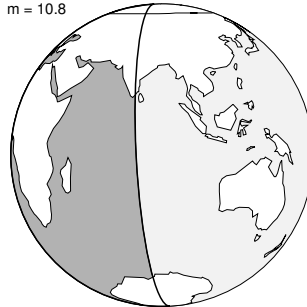
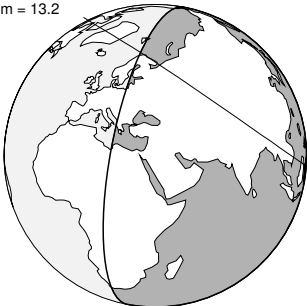
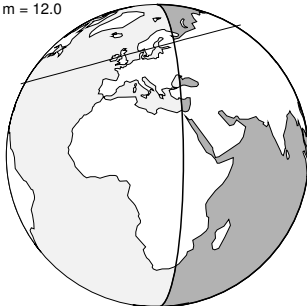
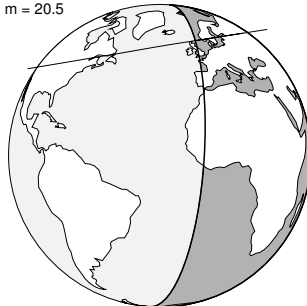
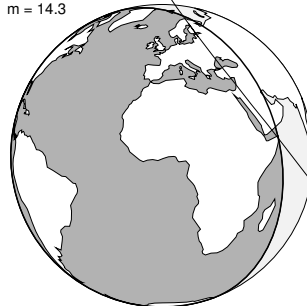
Occultations by major and minor planets – 2020

Region 5

<p>2020 jan 16 15h47.1m A20_01138 2015VD170 TYC 1242-00129-1 Diam = 158.5 m = 11.8 m = 24.3</p>  <p>Dur = 14.3s Dmag = 12.5 Sun: 119° Moon: 139°</p>	<p>2020 jan 19 11h54.8m A20_01017 97 Klotho TYC 0078-01545-1 Diam = 87.1 m = 8.9 m = 10.8</p>  <p>Dur = 11.7s Dmag = 2.1 Sun: 124° Moon: 162°</p>	<p>2020 jan 19 15h55.6m A20_01057 238 Hypatia UCAC4 475-021713 Diam = 156.0 m = 12.5 m = 12.4</p>  <p>Dur = 14.0s Dmag = 0.7 Sun: 154° Moon: 134°</p>	<p>2020 jan 22 2h31.1m A20_01104 567 Eleutheria UCAC4 616-038046 Diam = 97.0 m = 12.1 m = 13.8</p>  <p>Dur = 8.2s Dmag = 1.9 Sun: 157° Moon: 163°</p>
<p>2020 jan 24 16h11.6m A20_01011 63 Ausonia UCAC5 583-039099 Diam = 108.0 m = 12.4 m = 11.1</p>  <p>Dur = 8.3s Dmag = 0.3 Sun: 170° Moon: 174°</p>	<p>2020 jan 29 23h18.6m A20_01045 174 Phaedra TYC 2454-01242-1 Diam = 71.7 m = 11.8 m = 13.2</p>  <p>Dur = 5.1s Dmag = 1.6 Sun: 160° Moon: 107°</p>	<p>2020 feb 4 1h58.6m A20_02089 539 Pamina UCAC4 427-053318 Diam = 55.3 m = 11.7 m = 14.8</p>  <p>Dur = 5.7s Dmag = 3.1 Sun: 141° Moon: 104°</p>	<p>2020 feb 6 16h18.5m A20_02084 503 Evelyn UCAC4 560-048789 Diam = 79.5 m = 12.1 m = 11.9</p>  <p>Dur = 8.8s Dmag = 0.6 Sun: 170° Moon: 41°</p>
<p>2020 feb 6 17h18.3m A20_02062 329 Svea TYC 0163-01562-1 Diam = 80.5 m = 11.5 m = 13.5</p>  <p>Dur = 7.5s Dmag = 2.2 Sun: 145° Moon: 23°</p>	<p>2020 feb 7 13h21.2m A20_02037 139 Juewa UCAC4 615-044754 Diam = 164.0 m = 11.8 m = 11.0</p>  <p>Dur = 16.7s Dmag = 0.4 Sun: 160° Moon: 17°</p>	<p>2020 feb 7 16h 8.7m A20_02052 230 Athamantis TYC 0192-00800-1 Diam = 125.0 m = 10.8 m = 10.7</p>  <p>Dur = 12.9s Dmag = 0.7 Sun: 156° Moon: 16°</p>	<p>2020 feb 10 20h43.5m A20_02044 184 Dejopeja UCAC4 468-045925 Diam = 68.2 m = 12.4 m = 12.9</p>  <p>Dur = 7.9s Dmag = 1.0 Sun: 150° Moon: 9°</p>
<p>2020 feb 14 14h55.8m A20_02061 318 Magdalena UCAC5 511-039450 Diam = 55.0 m = 12.5 m = 14.0</p>  <p>Dur = 5.7s Dmag = 1.7 Sun: 148° Moon: 104°</p>	<p>2020 feb 15 15h33.5m A20_02104 903 Nealley UCAC4 508-046403 Diam = 65.7 m = 11.5 m = 14.7</p>  <p>Dur = 5.4s Dmag = 3.3 Sun: 153° Moon: 111°</p>	<p>2020 feb 15 23h25.4m A20_02049 195 Eurykleia TYC 1416-00424-1 Diam = 89.0 m = 11.6 m = 12.8</p>  <p>Dur = 7.5s Dmag = 1.5 Sun: 170° Moon: 96°</p>	<p>2020 feb 16 21h50.5m A20_02034 127 Johanna TYC 2428-01227-1 Diam = 91.2 m = 11.9 m = 12.7</p>  <p>Dur = 29.6s Dmag = 1.2 Sun: 124° Moon: 154°</p>

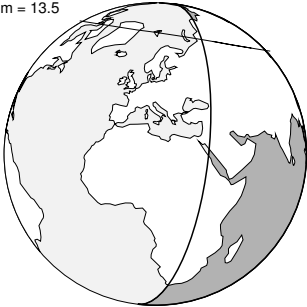
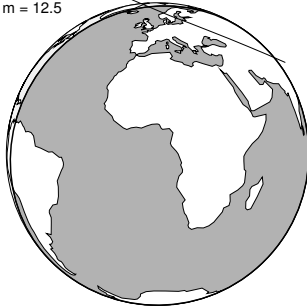
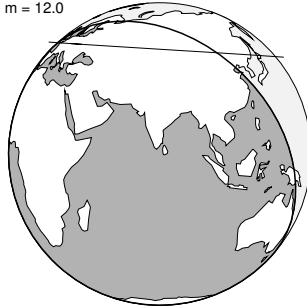
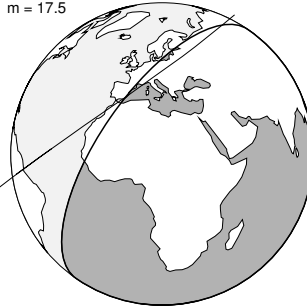
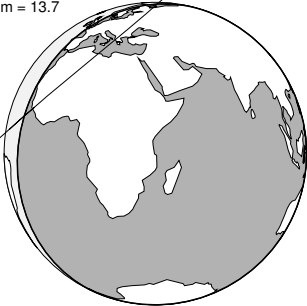
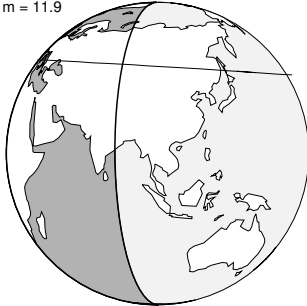
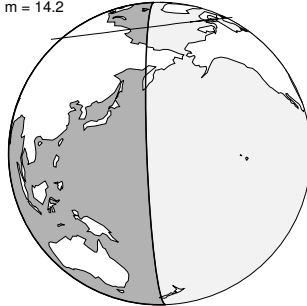
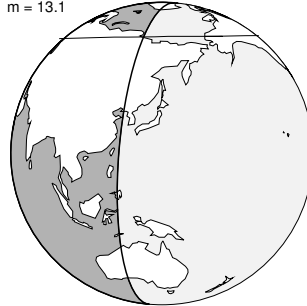
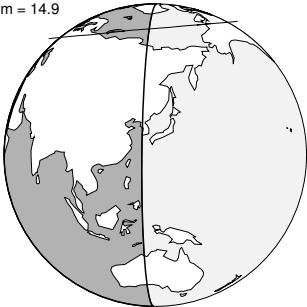
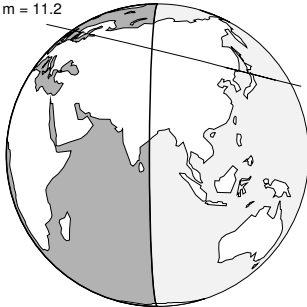
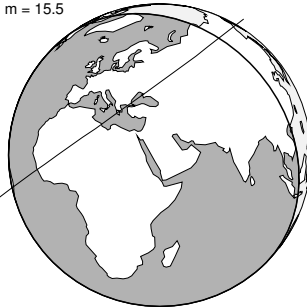
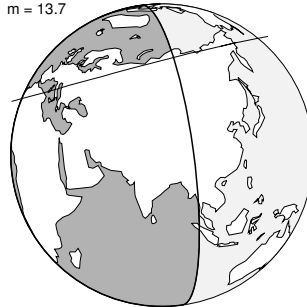
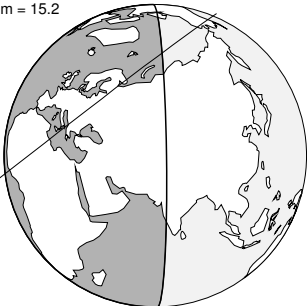
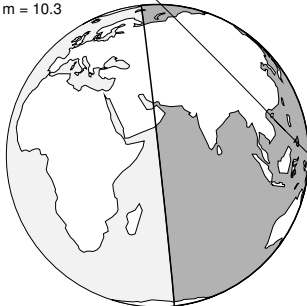
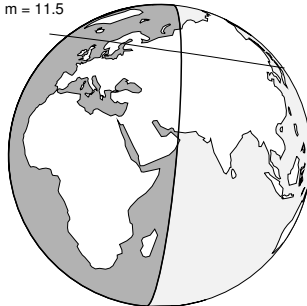
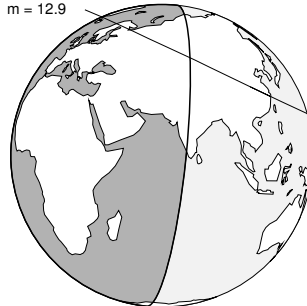
Occultations by major and minor planets – 2020

Region 5

<p>2020 feb 20 21h44.6m A20_02074 447 Valentine TYC 1417-00891-1 Diam = 82.0 m = 11.1 m = 13.3</p>  <p>Dur = 6.4s Dmag = 2.3 Sun: 169° Moon: 157°</p>	<p>2020 feb 21 16h40.4m A20_02077 456 Abnoba TYC 4833-02175-1 Diam = 43.1 m = 11.0 m = 13.6</p>  <p>Dur = 4.2s Dmag = 2.8 Sun: 143° Moon: 155°</p>	<p>2020 feb 28 15h25.3m A20_02101 733 Mocia TYC 2338-00142-1 Diam = 92.0 m = 11.7 m = 15.4</p>  <p>Dur = 3.7s Dmag = 3.7 Sun: 73° Moon: 30°</p>	<p>2020 feb 29 20h34.6m A20_02110 1266 Tone UCAC4 531-048211 Diam = 76.0 m = 11.1 m = 14.6</p>  <p>Dur = 5.8s Dmag = 3.6 Sun: 153° Moon: 86°</p>
<p>2020 mar 1 15h54.3m A20_03037 132 Aethra UCAC5 461-008855 Diam = 47.0 m = 12.5 m = 12.5</p>  <p>Dur = 3.8s Dmag = 0.8 Sun: 95° Moon: 26°</p>	<p>2020 mar 1 22h58.2m A20_03012 43 Ariadne UCAC4 524-047359 Diam = 65.3 m = 12.2 m = 11.7</p>  <p>Dur = 8.3s Dmag = 0.6 Sun: 143° Moon: 64°</p>	<p>2020 mar 6 20h 1.1m A20_03070 412 Elisabetha PPMX 5034560 Diam = 93.0 m = 11.8 m = 13.9</p>  <p>Dur = 14.7s Dmag = 2.2 Sun: 109° Moon: 29°</p>	<p>2020 mar 6 21h11.7m A20_03064 350 Ornamenta UCAC5 672-050205 Diam = 123.0 m = 12.5 m = 13.2</p>  <p>Dur = 25.9s Dmag = 1.1 Sun: 128° Moon: 23°</p>
<p>2020 mar 13 19h49.2m A20_03013 43 Ariadne TYC 1378-00014-1 Diam = 65.3 m = 9.9 m = 12.0</p>  <p>Dur = 17.5s Dmag = 2.2 Sun: 130° Moon: 107°</p>	<p>2020 mar 16 13h57.0m A20_03081 511 Davida UCAC4 598-040921 Diam = 337.0 m = 12.1 m = 11.0</p>  <p>Dur = 51.0s Dmag = 0.3 Sun: 112° Moon: 158°</p>	<p>2020 mar 20 17h12.3m A20_03096 601 Nerthus TYC 0746-00233-1 Diam = 76.0 m = 9.7 m = 15.6</p>  <p>Dur = 6.2s Dmag = 5.9 Sun: 100° Moon: 138°</p>	<p>2020 mar 21 0h53.0m A20_03089 532 Herculina TYC 5704-00436-1 Diam = 216.5 m = 9.0 m = 10.8</p>  <p>Dur = 10.1s Dmag = 2.0 Sun: 80° Moon: 45°</p>
<p>2020 mar 21 16h50.0m A20_03019 81 Terpsichore UCAC4 598-040850 Diam = 124.0 m = 12.2 m = 13.2</p>  <p>Dur = 11.8s Dmag = 1.4 Sun: 107° Moon: 137°</p>	<p>2020 mar 25 16h 5.5m A20_03026 97 Klotho PPMX 6965276 Diam = 87.1 m = 12.0 m = 12.0</p>  <p>Dur = 3.3s Dmag = 0.8 Sun: 80° Moon: 66°</p>	<p>2020 apr 5 18h46.8m B20_04003 281371 2008FC76 UCAC4 502-016480 Diam = 57.5 m = 14.3 m = 20.5</p>  <p>Dur = 3.4s Dmag = 6.3 Sun: 72° Moon: 76°</p>	<p>2020 apr 6 2h32.7m A20_04085 780 Armenia TYC 0349-00494-1 Diam = 97.1 m = 11.0 m = 14.3</p>  <p>Dur = 8.2s Dmag = 3.3 Sun: 140° Moon: 61°</p>

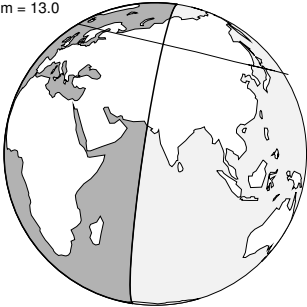
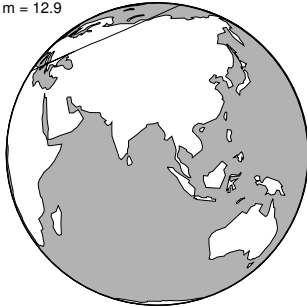
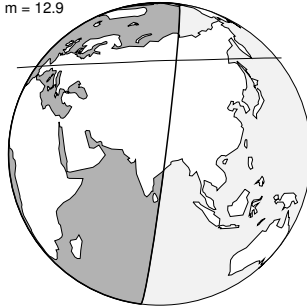

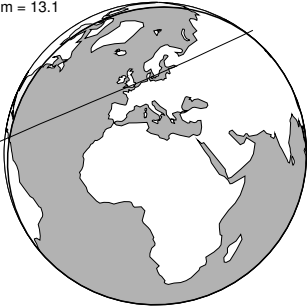

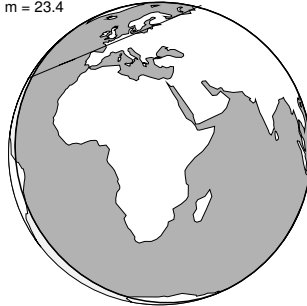
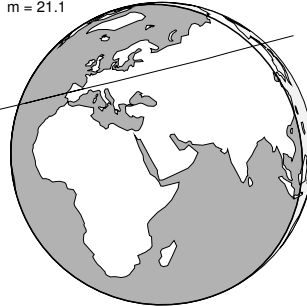
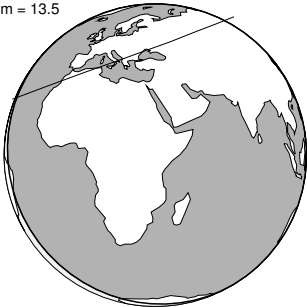
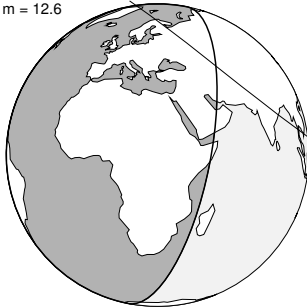
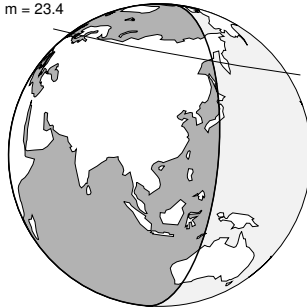
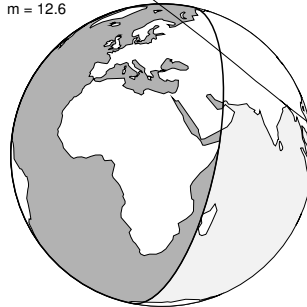
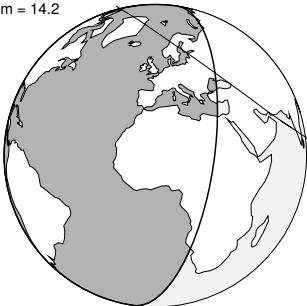
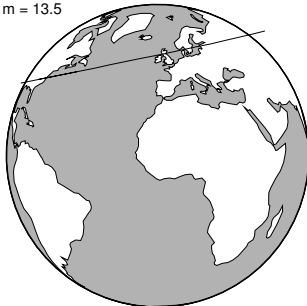
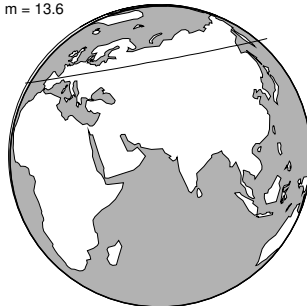
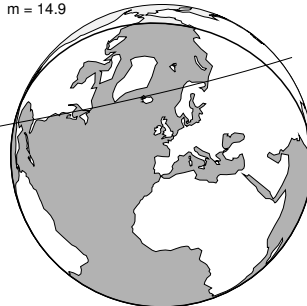
Occultations by major and minor planets – 2020

Region 5

<p>2020 apr 28 15h59.0m A20_04031 144 Vibia UCAC4 579-037329 Diam = 178.0 m = 11.8 m = 13.5</p>  <p>Dur = 6.6s Dmag = 1.9 Sun: 69° Moon: 7°</p>	<p>2020 may 5 22h45.1m A20_05014 58 Concordia TYC 4971-01020-1 Diam = 97.7 m = 10.9 m = 12.5</p>  <p>Dur = 10.1s Dmag = 1.8 Sun: 162° Moon: 5°</p>	<p>2020 jun 11 20h39.0m A20_06039 185 Eunike UCAC5 482-088279 Diam = 165.0 m = 12.4 m = 12.0</p>  <p>Dur = 19.9s Dmag = 0.6 Sun: 139° Moon: 54°</p>	<p>2020 jul 9 19h24.5m A20_07151 12929 1999TZ1 UCAC4 532-056926 Diam = 43.7 m = 11.7 m = 17.5</p>  <p>Dur = 5.6s Dmag = 5.8 Sun: 114° Moon: 113°</p>
<p>2020 aug 3 19h44.4m A20_08092 893 Leopoldina TYC 5712-00330-1 Diam = 78.0 m = 10.7 m = 13.7</p>  <p>Dur = 6.6s Dmag = 3.1 Sun: 154° Moon: 29°</p>	<p>2020 sep 9 0h15.4m A20_09020 52 Europa TYC 1318-01031-1 Diam = 278.0 m = 9.2 m = 11.9</p>  <p>Dur = 10.8s Dmag = 2.7 Sun: 73° Moon: 32°</p>	<p>2020 sep 11 19h 2.8m A20_09050 203 Pompeja TYC 1856-00108-1 Diam = 120.0 m = 11.0 m = 14.2</p>  <p>Dur = 6.1s Dmag = 3.3 Sun: 85° Moon: 11°</p>	<p>2020 sep 15 21h34.3m A20_09055 245 Vera TYC 1897-01234-1 Diam = 84.8 m = 11.3 m = 13.1</p>  <p>Dur = 3.3s Dmag = 2.0 Sun: 73° Moon: 52°</p>
<p>2020 sep 17 21h24.0m A20_09066 333 Badenia UCAC4 586-023704 Diam = 81.5 m = 11.5 m = 14.9</p>  <p>Dur = 4.3s Dmag = 3.4 Sun: 84° Moon: 91°</p>	<p>2020 sep 21 0h17.3m A20_09015 39 Laetitia TYC 0725-00276-1 Diam = 159.0 m = 9.2 m = 11.2</p>  <p>Dur = 8.7s Dmag = 2.2 Sun: 86° Moon: 136°</p>	<p>2020 sep 21 22h34.3m A20_09119 1583 Antiochus TYC 1204-00703-1 Diam = 109.0 m = 12.3 m = 15.5</p>  <p>Dur = 7.6s Dmag = 3.3 Sun: 148° Moon: 145°</p>	<p>2020 sep 22 23h19.5m A20_09086 500 Selinur UCAC4 615-018315 Diam = 45.1 m = 11.7 m = 13.7</p>  <p>Dur = 4.2s Dmag = 2.2 Sun: 102° Moon: 169°</p>
<p>2020 sep 28 0h55.4m A20_09106 795 Fini PPMX 3068388 Diam = 78.7 m = 12.5 m = 15.2</p>  <p>Dur = 4.7s Dmag = 2.8 Sun: 94° Moon: 128°</p>	<p>2020 oct 8 13h56.7m A20_10001 2 Pallas Gaia 097-0308407 Diam = 530.9 m = 12.2 m = 10.3</p>  <p>Dur = 23.5s Dmag = 0.2 Sun: 89° Moon: 147°</p>	<p>2020 oct 10 2h 3.4m A20_10022 52 Europa UCAC4 534-031973 Diam = 278.0 m = 11.8 m = 11.5</p>  <p>Dur = 20.1s Dmag = 0.6 Sun: 96° Moon: 11°</p>	<p>2020 oct 11 0h48.7m A20_10057 313 Chaldaea UCAC4 497-028744 Diam = 101.0 m = 11.4 m = 12.9</p>  <p>Dur = 6.3s Dmag = 1.8 Sun: 99° Moon: 27°</p>

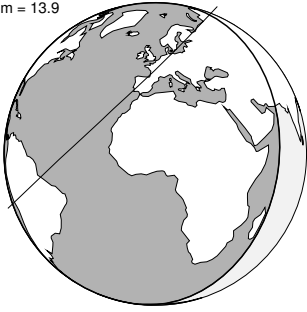
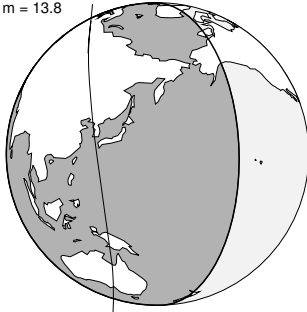
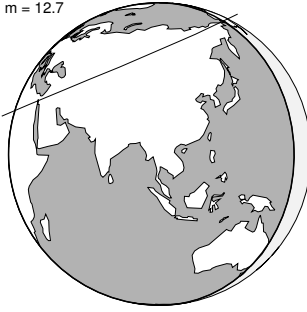
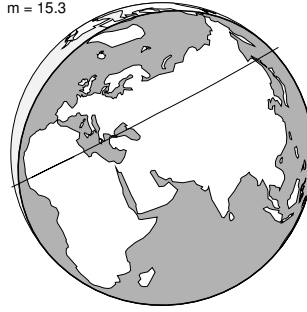
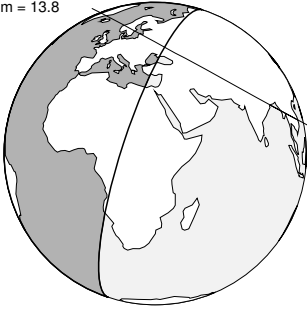
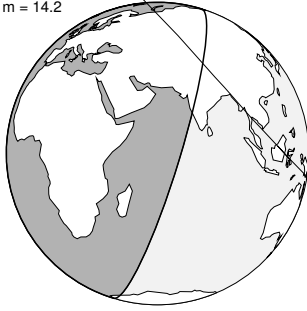
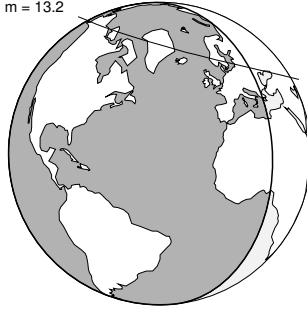
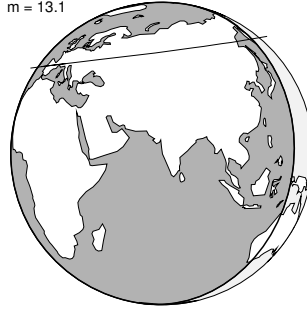
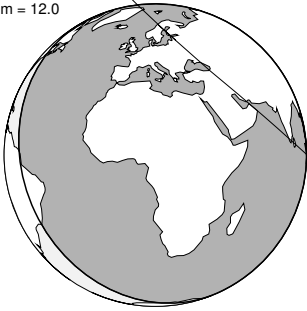
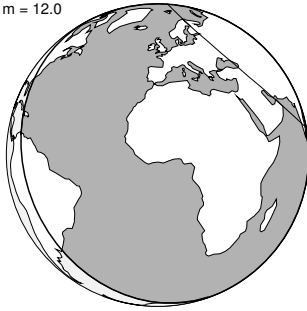
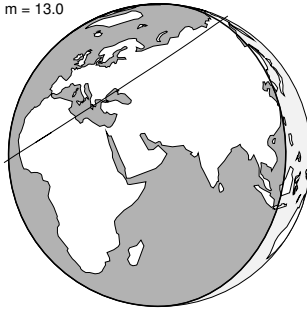
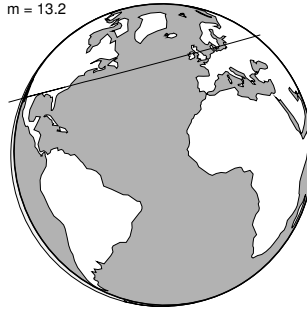
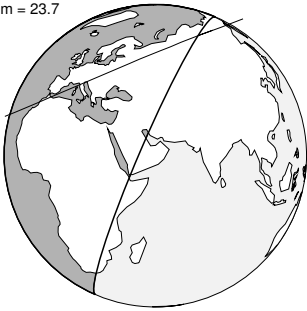
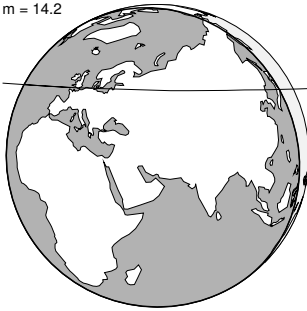
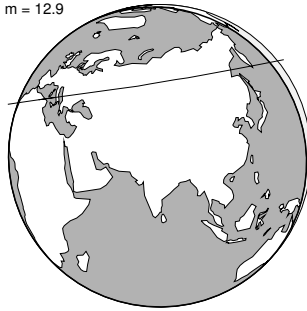

Occultations by major and minor planets – 2020

Region 5

<p>2020 oct 11 1h27.9m A20_10055 287 Nephthys PPMX 7100525 Diam = 70.1 m = 12.0 m = 13.0</p>  <p>Dur = 3.7s Dmag = 1.4 Sun: 85° Moon: 14°</p>	<p>2020 oct 11 18h 1.0m A20_10090 570 Kythera PPMX 6825792 Diam = 106.0 m = 12.1 m = 12.9</p>  <p>Dur = 9.1s Dmag = 1.2 Sun: 174° Moon: 105°</p>	<p>2020 oct 12 0h20.3m A20_10052 245 Vera TYC 1900-00992-1 Diam = 84.8 m = 8.6 m = 12.9</p>  <p>Dur = 5.5s Dmag = 4.4 Sun: 92° Moon: 27°</p>	<p>2020 oct 15 20h49.9m B20_10009 2011UM411 UCAC4 546-004520 Diam = 144.5 m = 13.7 m = 24.2</p>  <p>Dur = 5.8s Dmag = 10.4 Sun: 162° Moon: 148°</p>
<p>2020 oct 19 21h59.2m A20_10102 762 Pulcova UCAC4 577-001889 Diam = 142.0 m = 11.9 m = 13.1</p>  <p>Dur = 10.4s Dmag = 1.5 Sun: 160° Moon: 128°</p>	<p>2020 oct 20 19h 7.6m A20_10005 8 Flora TYC 0051-00351-1 Diam = 141.0 m = 8.4 m = 8.1</p>  <p>Dur = 24.1s Dmag = 0.3 Sun: 161° Moon: 137°</p>	<p>2020 oct 21 20h37.3m B20_10006 1996RR20 UCAC4 458-000854 Diam = 182.0 m = 12.8 m = 23.4</p>  <p>Dur = 7.6s Dmag = 10.7 Sun: 160° Moon: 91°</p>	<p>2020 oct 23 22h15.1m B20_10004 143707 2003UY117 UCAC4 564-006835 Diam = 302.0 m = 14.5 m = 21.1</p>  <p>Dur = 13.9s Dmag = 6.6 Sun: 156° Moon: 109°</p>
<p>2020 oct 24 20h28.3m A20_10120 1171 Rusthawelia HIP 5315 Diam = 73.6 m = 6.2 m = 13.5</p>  <p>Dur = 8.0s Dmag = 7.4 Sun: 164° Moon: 59°</p>	<p>2020 oct 27 2h37.3m A20_10058 313 Chaldaea UCAC4 486-029525 Diam = 101.0 m = 12.3 m = 12.6</p>  <p>Dur = 9.1s Dmag = 0.9 Sun: 110° Moon: 115°</p>	<p>2020 oct 27 21h 9.7m B20_10007 1998WY31 UCAC4 571-035130 Diam = 173.8 m = 14.3 m = 23.4</p>  <p>Dur = 23.2s Dmag = 9.1 Sun: 112° Moon: 108°</p>	<p>2020 oct 28 2h30.1m A20_10059 313 Chaldaea UCAC4 485-028711 Diam = 101.0 m = 12.1 m = 12.6</p>  <p>Dur = 9.4s Dmag = 1.0 Sun: 111° Moon: 104°</p>
<p>2020 oct 31 4h25.8m A20_10067 342 Endymion PPMX 6075064 Diam = 65.0 m = 12.0 m = 14.2</p>  <p>Dur = 7.8s Dmag = 2.4 Sun: 112° Moon: 72°</p>	<p>2020 nov 1 0h 6.9m A20_11066 401 Ottillia TYC 0637-00926-1 Diam = 103.0 m = 11.5 m = 13.5</p>  <p>Dur = 7.6s Dmag = 2.2 Sun: 177° Moon: 8°</p>	<p>2020 nov 1 18h49.3m A20_11103 829 Academia TYC 1757-00993-1 Diam = 44.0 m = 10.9 m = 13.6</p>  <p>Dur = 4.5s Dmag = 2.7 Sun: 168° Moon: 21°</p>	<p>2020 nov 2 0h27.9m A20_11050 285 Regina UCAC4 669-014172 Diam = 48.3 m = 11.9 m = 14.9</p>  <p>Dur = 4.1s Dmag = 3.1 Sun: 150° Moon: 28°</p>

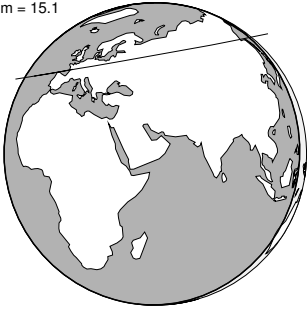
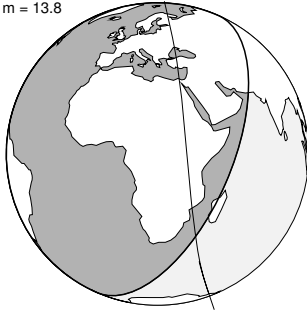
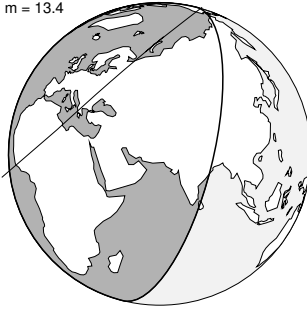
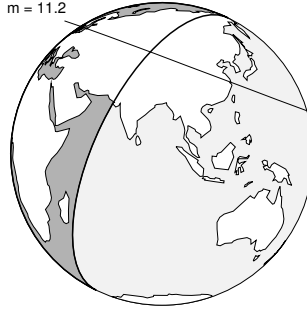
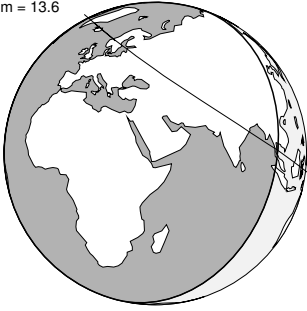
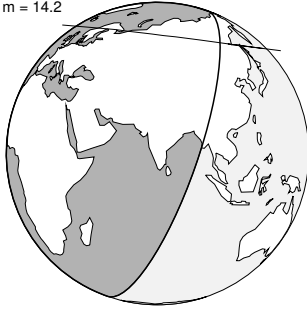
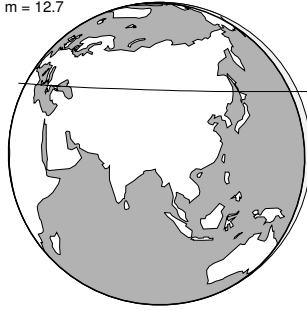
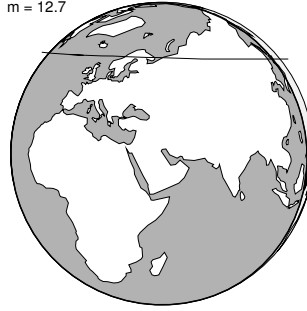
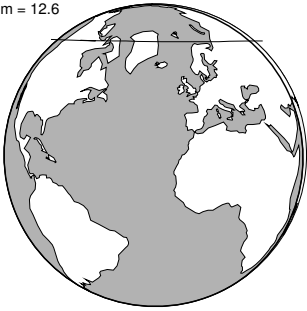
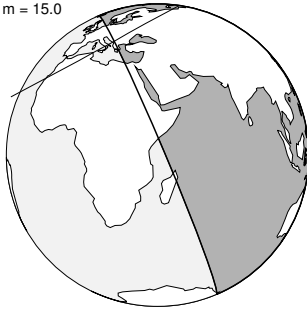
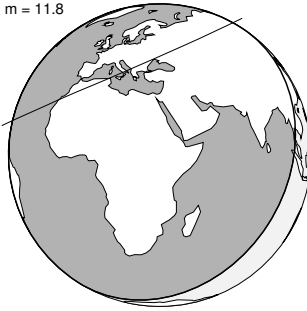
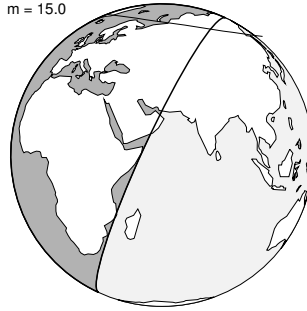
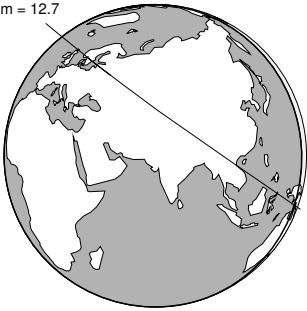
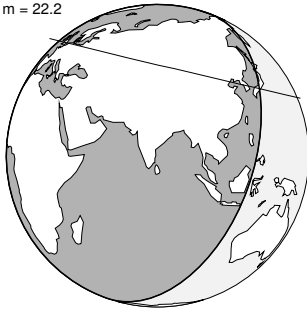
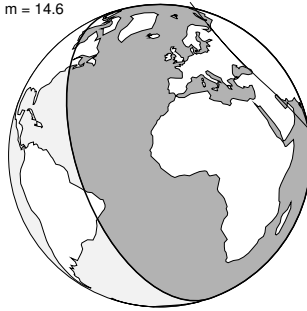
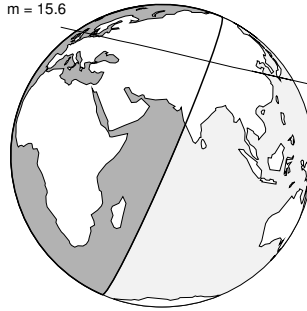
Occultations by major and minor planets – 2020

Region 5

<p>2020 nov 2 2h 2.2m A20_11040 242 Kriemhild PPMX 6913278 Diam = 41.5 m = 11.3 m = 13.9</p>  <p>Dur = 4.9s Dmag = 2.7 Sun: 144° Moon: 19°</p>	<p>2020 nov 3 17h15.2m A20_11079 519 Sylvania HIP 31816 Diam = 53.1 m = 7.6 m = 13.8</p>  <p>Dur = 9.4s Dmag = 6.2 Sun: 122° Moon: 25°</p>	<p>2020 nov 3 18h57.9m A20_11054 305 Gordonia HIP 20990 Diam = 50.7 m = 11.3 m = 12.7</p>  <p>Dur = 6.7s Dmag = 1.7 Sun: 152° Moon: 8°</p>	<p>2020 nov 5 18h56.6m A20_11115 1437 Diomedes TYC 2304-00672-1 Diam = 171.0 m = 12.2 m = 15.3</p>  <p>Dur = 10.5s Dmag = 3.2 Sun: 153° Moon: 67°</p>
<p>2020 nov 7 4h32.0m A20_11037 233 Asterope UCAC4 476-047106 Diam = 108.0 m = 12.4 m = 13.8</p>  <p>Dur = 4.9s Dmag = 1.6 Sun: 77° Moon: 31°</p>	<p>2020 nov 8 1h 5.9m A20_11080 547 Praxedis TYC 4848-01654-1 Diam = 73.0 m = 10.6 m = 14.2</p>  <p>Dur = 5.5s Dmag = 3.6 Sun: 98° Moon: 24°</p>	<p>2020 nov 11 5h17.6m A20_11036 203 Pompeja UCAC4 591-026804 Diam = 120.0 m = 11.7 m = 13.2</p>  <p>Dur = 25.7s Dmag = 1.8 Sun: 138° Moon: 82°</p>	<p>2020 nov 14 20h55.5m A20_11046 275 Sapientia UCAC4 535-013994 Diam = 103.0 m = 11.4 m = 13.1</p>  <p>Dur = 11.6s Dmag = 1.9 Sun: 150° Moon: 146°</p>
<p>2020 nov 15 21h 6.7m A20_11096 735 Marghanna TYC 0621-00838-1 Diam = 77.0 m = 11.9 m = 12.0</p>  <p>Dur = 9.6s Dmag = 0.8 Sun: 151° Moon: 142°</p>	<p>2020 nov 15 22h13.7m A20_11095 735 Marghanna UCAC4 489-002220 Diam = 77.0 m = 12.4 m = 12.0</p>  <p>Dur = 9.6s Dmag = 0.6 Sun: 151° Moon: 142°</p>	<p>2020 nov 17 22h22.0m A20_11107 914 Palisana UCAC4 561-022795 Diam = 79.0 m = 11.6 m = 13.0</p>  <p>Dur = 5.9s Dmag = 1.7 Sun: 146° Moon: 175°</p>	<p>2020 nov 19 0h43.3m A20_11045 268 Adorea UCAC4 514-004383 Diam = 142.0 m = 12.0 m = 13.2</p>  <p>Dur = 10.1s Dmag = 1.6 Sun: 166° Moon: 115°</p>
<p>2020 nov 19 3h 7.2m B20_11006 2006AO98 UCAC4 552-047432 Diam = 109.6 m = 13.5 m = 23.7</p>  <p>Dur = 10.4s Dmag = 10.1 Sun: 84° Moon: 137°</p>	<p>2020 nov 21 21h24.9m A20_11117 1463 Nordenmarkia UCAC4 622-021291 Diam = 51.7 m = 12.1 m = 14.2</p>  <p>Dur = 6.0s Dmag = 2.3 Sun: 156° Moon: 115°</p>	<p>2020 nov 24 19h29.4m A20_11049 283 Emma TYC 2392-01288-1 Diam = 150.0 m = 8.6 m = 12.9</p>  <p>Dur = 12.9s Dmag = 4.3 Sun: 162° Moon: 77°</p>	<p>2020 nov 25 18h50.0m A20_11029 163 Erigone TYC 0743-01828-1 Diam = 76.0 m = 10.5 m = 12.0</p>  <p>Dur = 21.6s Dmag = 1.8 Sun: 148° Moon: 80°</p>

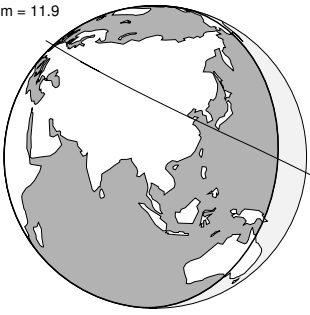
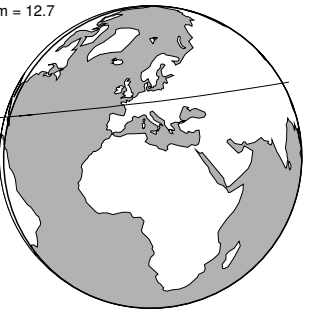
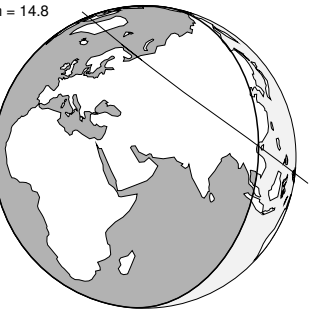
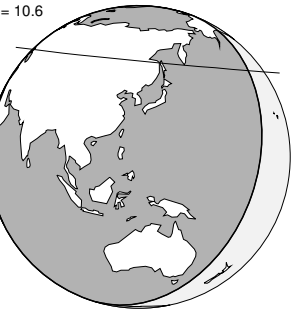

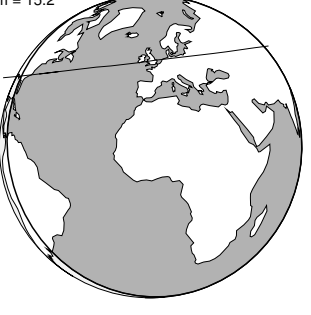
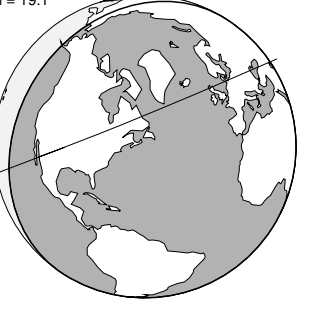


Occultations by major and minor planets – 2020

Region 5

<p>2020 nov 27 21h28.7m A20_11112 1167 Dubiago TYC 1305-00959-1 Diam = 69.0 m = 10.8 m = 15.1</p>  <p>Dur = 5.0s Dmag = 4.4 Sun: 162° Moon: 44°</p>	<p>2020 nov 28 2h16.2m A20_11087 611 Valeria UCAC4 460-041128 Diam = 59.0 m = 12.2 m = 13.8</p>  <p>Dur = 10.2s Dmag = 1.8 Sun: 119° Moon: 84°</p>	<p>2020 nov 29 0h39.4m A20_11071 416 Vaticana TYC 1965-00114-1 Diam = 89.5 m = 10.1 m = 13.4</p>  <p>Dur = 10.7s Dmag = 3.3 Sun: 110° Moon: 85°</p>	<p>2020 nov 30 1h48.2m A20_11002 9 Metis UCAC4 465-048122 Diam = 231.2 m = 12.0 m = 11.2</p>  <p>Dur = 7.6s Dmag = 0.4 Sun: 63° Moon: 120°</p>
<p>2020 dec 1 23h24.9m A20_12122 943 Begonia UCAC4 529-037867 Diam = 72.0 m = 12.3 m = 13.6</p>  <p>Dur = 14.1s Dmag = 1.6 Sun: 142° Moon: 20°</p>	<p>2020 dec 1 23h59.0m A20_12042 140 Siwa TYC 0834-01465-1 Diam = 114.0 m = 9.6 m = 14.2</p>  <p>Dur = 19.5s Dmag = 4.6 Sun: 105° Moon: 57°</p>	<p>2020 dec 2 18h47.2m A20_12055 203 Pompeja UCAC4 593-022447 Diam = 120.0 m = 12.4 m = 12.7</p>  <p>Dur = 11.7s Dmag = 0.9 Sun: 162° Moon: 11°</p>	<p>2020 dec 2 21h47.5m A20_12054 203 Pompeja TYC 1874-00285-1 Diam = 120.0 m = 11.0 m = 12.7</p>  <p>Dur = 11.7s Dmag = 1.9 Sun: 162° Moon: 12°</p>
<p>2020 dec 6 2h23.1m A20_12056 203 Pompeja UCAC4 593-021766 Diam = 120.0 m = 12.4 m = 12.6</p>  <p>Dur = 11.2s Dmag = 0.9 Sun: 166° Moon: 53°</p>	<p>2020 dec 11 15h 3.0m A20_12064 257 Silesia TYC 5249-01053-1 Diam = 73.5 m = 9.5 m = 15.0</p>  <p>Dur = 4.1s Dmag = 5.5 Sun: 87° Moon: 129°</p>	<p>2020 dec 11 23h32.0m A20_12077 345 Tercidina UCAC4 487-035600 Diam = 100.0 m = 12.1 m = 11.8</p>  <p>Dur = 13.0s Dmag = 0.6 Sun: 148° Moon: 114°</p>	<p>2020 dec 12 2h46.3m A20_12098 498 Tokio FK6 450 Diam = 84.8 m = 3.8 m = 15.0</p>  <p>Dur = 4.6s Dmag = 11.2 Sun: 82° Moon: 47°</p>
<p>2020 dec 15 20h14.3m A20_12126 971 Alsatia PPMX 5041934 Diam = 66.7 m = 12.5 m = 12.7</p>  <p>Dur = 6.6s Dmag = 0.9 Sun: 165° Moon: 178°</p>	<p>2020 dec 17 22h 2.8m B20_12009 2013AP183 UCAC4 516-050335 Diam = 380.2 m = 14.4 m = 22.2</p>  <p>Dur = 25.2s Dmag = 7.8 Sun: 129° Moon: 169°</p>	<p>2020 dec 18 20h54.1m A20_12087 401 Otilia TYC 0628-00328-1 Diam = 103.0 m = 10.4 m = 14.6</p>  <p>Dur = 76.2s Dmag = 4.3 Sun: 123° Moon: 69°</p>	<p>2020 dec 20 1h29.4m A20_12105 627 Charis TYC 0275-01077-1 Diam = 51.0 m = 9.9 m = 15.6</p>  <p>Dur = 3.7s Dmag = 5.7 Sun: 93° Moon: 161°</p>

Occultations by major and minor planets – 2020

Region 5

<p>2020 dec 21 19h49.9m A20_12013 26 Proserpina UCAC5 568-042852 Diam = 98.7 m = 12.4 m = 11.9</p>  <p>Dur = 13.2s Dmag = 0.5 Sun: 143° Moon: 128°</p>	<p>2020 dec 26 22h11.7m A20_12057 203 Pompeja Gaia 119-0059621 Diam = 120.0 m = 10.9 m = 12.7</p>  <p>Dur = 11.3s Dmag = 1.9 Sun: 165° Moon: 24°</p>	<p>2020 dec 26 23h27.3m A20_12106 636 Erika UCAC4 581-044034 Diam = 78.3 m = 12.4 m = 14.8</p>  <p>Dur = 8.6s Dmag = 2.5 Sun: 138° Moon: 77°</p>	<p>2020 dec 27 18h 5.9m A20_12003 10 Hygiea TYC 0818-00714-1 Diam = 429.0 m = 9.8 m = 10.6</p>  <p>Dur = 54.9s Dmag = 1.2 Sun: 141° Moon: 65°</p>
<p>2020 dec 27 20h47.9m A20_12114 748 Simeisa TYC 1260-01120-1 Diam = 107.0 m = 10.2 m = 14.1</p>  <p>Dur = 16.8s Dmag = 3.9 Sun: 142° Moon: 12°</p>	<p>2020 dec 27 22h50.7m A20_12132 1167 Dubiago UCAC5 540-011861 Diam = 69.0 m = 12.4 m = 15.2</p>  <p>Dur = 5.1s Dmag = 2.8 Sun: 160° Moon: 7°</p>	<p>2020 dec 29 2h 1.4m B20_12003 54598 Bienor UCAC4 672-028789 Diam = 131.8 m = 13.3 m = 19.1</p>  <p>Dur = 6.6s Dmag = 5.8 Sun: 148° Moon: 24°</p>	<p>2020 dec 29 22h48.6m A20_12080 345 Tercidina UCAC4 482-028438 Diam = 100.0 m = 12.3 m = 11.4</p>  <p>Dur = 10.4s Dmag = 0.4 Sun: 162° Moon: 20°</p>
<p>2020 dec 30 23h39.4m A20_12083 356 Liguria TYC 2942-01793-1 Diam = 135.0 m = 8.7 m = 10.7</p>  <p>Dur = 17.1s Dmag = 2.2 Sun: 165° Moon: 15°</p>			