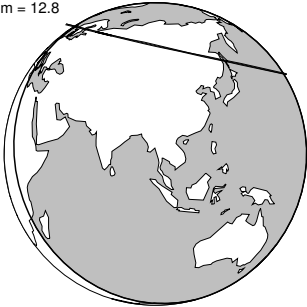
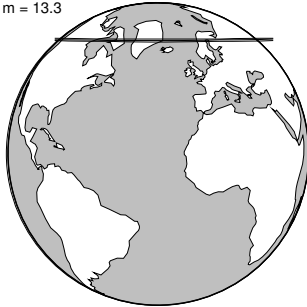
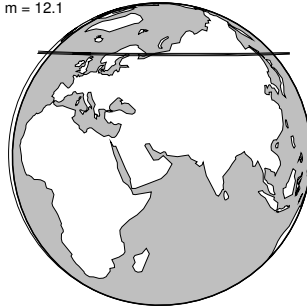
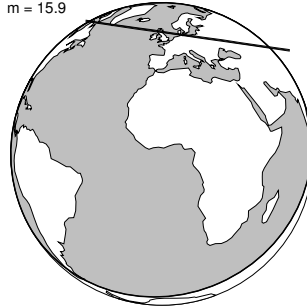
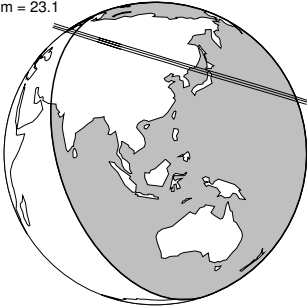
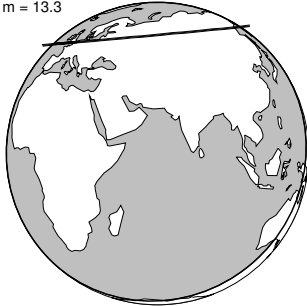
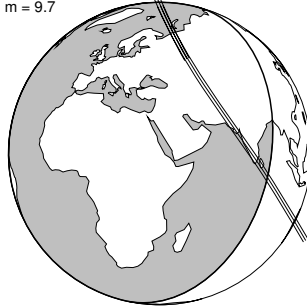
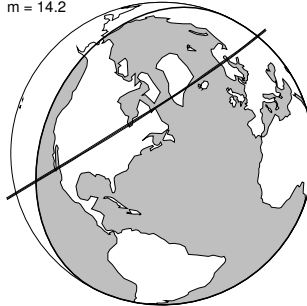
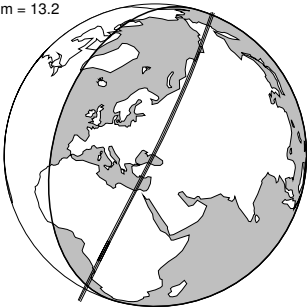
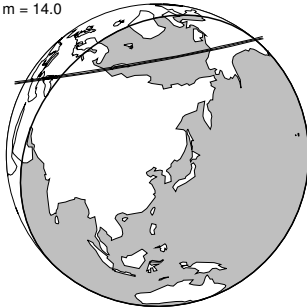
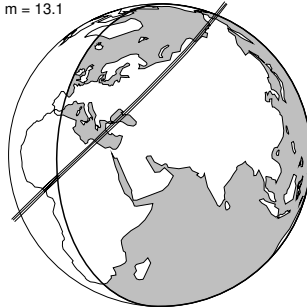
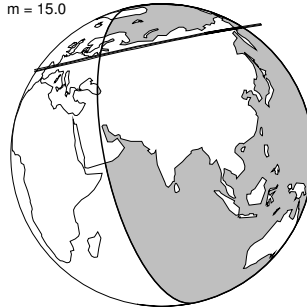
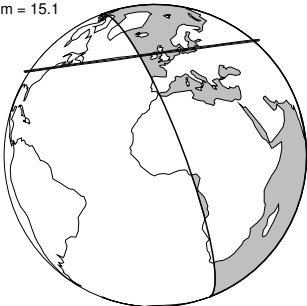
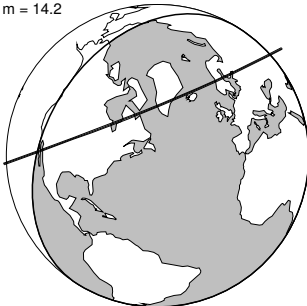
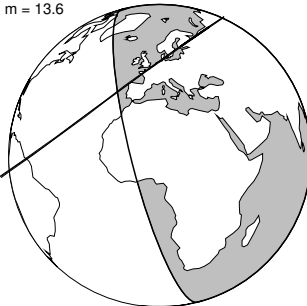
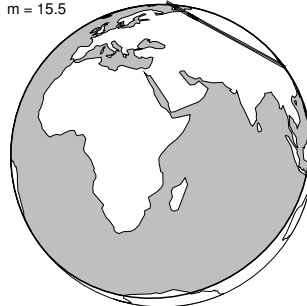


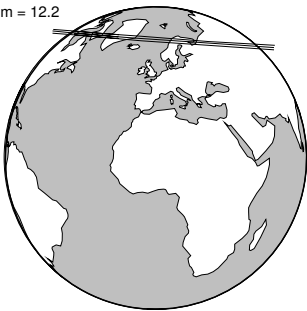
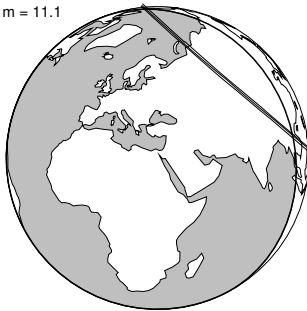
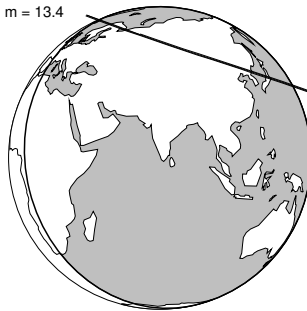
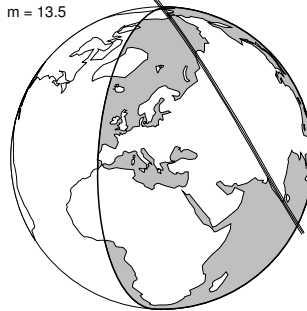
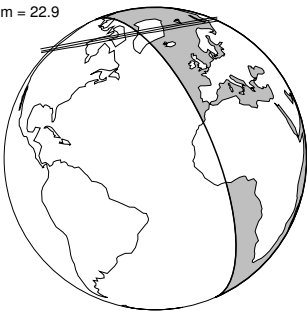
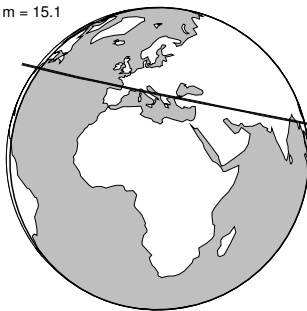
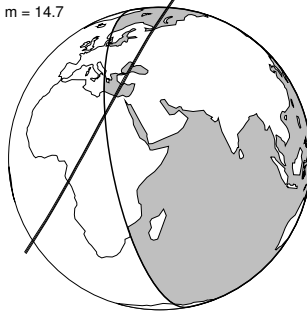
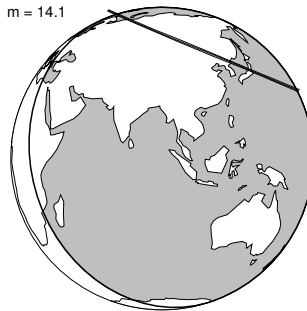
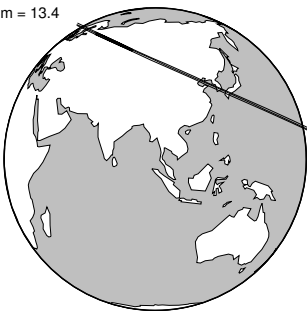
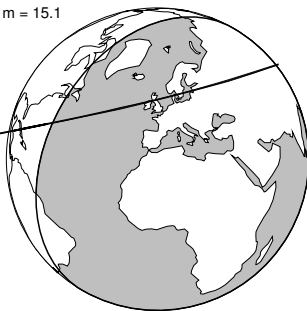
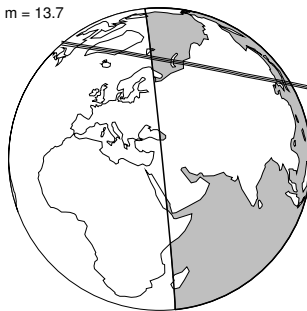
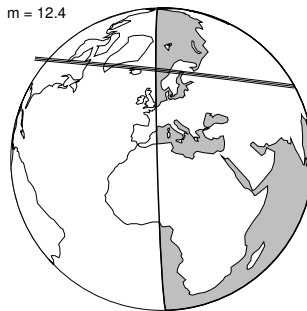
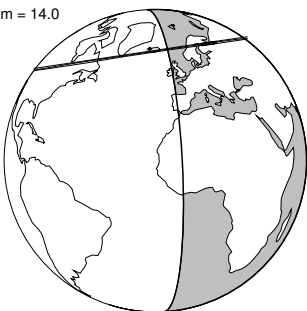
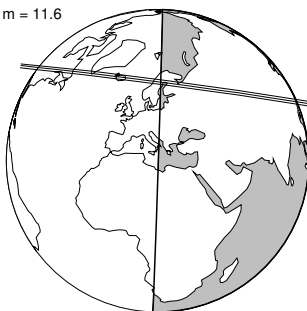
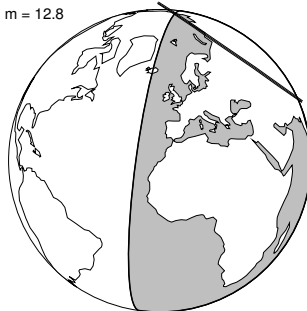
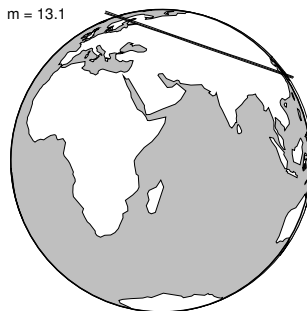
Occultations by major and minor planets – 2017

Region 5

<p>2017 jan 7 16h 6.8m A17_01034 306 Unitas UCAC4-525-015964 Diam = 49.2 m = 11.7 m = 12.8</p>  <p>Dur = 4.3s Dmag = 1.4 Sun: 157° Moon: 45°</p>	<p>2017 jan 9 1h22.4m A17_01045 514 Armida TYC 1342-01389-1 Diam = 110.0 m = 12.4 m = 13.3</p>  <p>Dur = 8.5s Dmag = 1.3 Sun: 171° Moon: 39°</p>	<p>2017 jan 10 19h33.2m A17_01011 135 Hertha UCAC4-582-029830 Diam = 82.0 m = 12.2 m = 12.1</p>  <p>Dur = 6.4s Dmag = 0.7 Sun: 166° Moon: 12°</p>	<p>2017 jan 12 0h54.9m A17_01077 1165 Imprinetta UCAC4-464-038787 Diam = 54.6 m = 12.1 m = 15.9</p>  <p>Dur = 3.4s Dmag = 3.8 Sun: 159° Moon: 22°</p>
<p>2017 jan 17 13h15.4m B17_01005 2006SF369 UCAC4-495-007744 Diam = 190.5 m = 13.7 m = 23.1</p>  <p>Dur = 11.2s Dmag = 9.4 Sun: 130° Moon: 112°</p>	<p>2017 jan 17 20h41.0m A17_01067 792 Metcalia PPMX 7162981 Diam = 63.5 m = 12.5 m = 13.3</p>  <p>Dur = 6.9s Dmag = 1.2 Sun: 163° Moon: 54°</p>	<p>2017 jan 18 0h39.4m A17_01001 9 Metis PPMX 6232532 Diam = 231.2 m = 12.3 m = 9.7</p>  <p>Dur = 53.5s Dmag = 0.1 Sun: 136° Moon: 27°</p>	<p>2017 jan 18 1h45.5m A17_01057 693 Zerbinetta UCAC4-664-039377 Diam = 69.1 m = 11.0 m = 14.2</p>  <p>Dur = 6.6s Dmag = 3.3 Sun: 142° Moon: 100°</p>
<p>2017 jan 20 18h23.5m A17_01036 328 Gudrun UCAC4-675-032555 Diam = 120.0 m = 10.6 m = 13.2</p>  <p>Dur = 15.1s Dmag = 2.7 Sun: 132° Moon: 134°</p>	<p>2017 jan 25 14h14.4m A17_01059 735 Marghanna PPMX 2172250 Diam = 77.0 m = 12.3 m = 14.0</p>  <p>Dur = 7.2s Dmag = 1.9 Sun: 145° Moon: 153°</p>	<p>2017 jan 25 17h14.3m A17_01022 165 Loreley PPMX 3971158 Diam = 160.0 m = 12.3 m = 13.1</p>  <p>Dur = 20.8s Dmag = 1.2 Sun: 132° Moon: 157°</p>	<p>2017 jan 26 14h22.3m A17_01043 468 Lina UCAC4-552-007555 Diam = 71.7 m = 9.6 m = 15.0</p>  <p>Dur = 11.6s Dmag = 5.4 Sun: 112° Moon: 129°</p>
<p>2017 jan 29 17h40.8m A17_01072 957 Camelia UCAC4-510-002666 Diam = 76.6 m = 9.5 m = 15.1</p>  <p>Dur = 3.4s Dmag = 5.6 Sun: 79° Moon: 59°</p>	<p>2017 feb 2 1h16.5m A17_02052 735 Marghanna UCAC4-676-045804 Diam = 77.0 m = 11.8 m = 14.2</p>  <p>Dur = 8.7s Dmag = 2.4 Sun: 138° Moon: 84°</p>	<p>2017 feb 2 18h13.3m A17_02034 351 Yrsa UCAC4-526-006393 Diam = 44.3 m = 10.4 m = 13.6</p>  <p>Dur = 3.7s Dmag = 3.3 Sun: 100° Moon: 29°</p>	<p>2017 feb 5 22h24.1m A17_02074 3451 Mentor HIP 49762 Diam = 100.0 m = 8.3 m = 15.5</p>  <p>Dur = 5.8s Dmag = 7.2 Sun: 156° Moon: 84°</p>

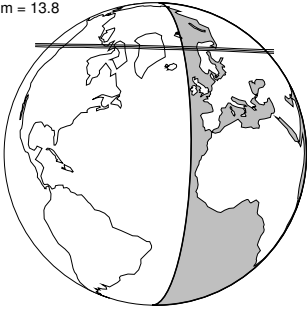
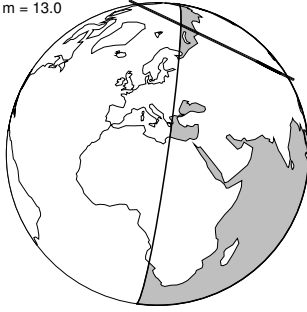
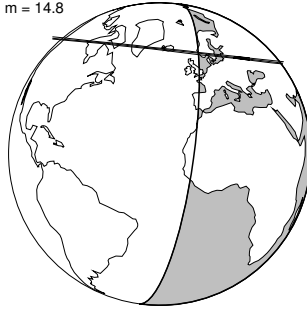
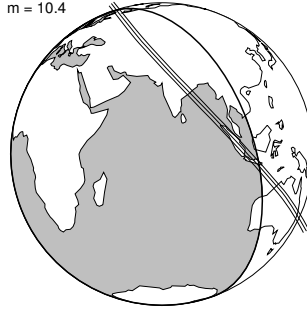
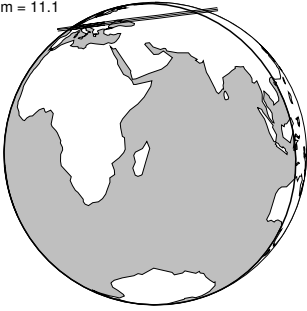
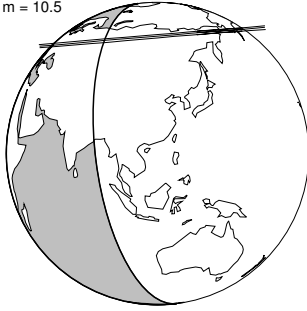
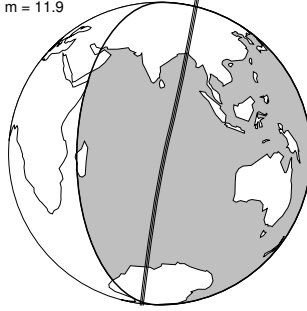
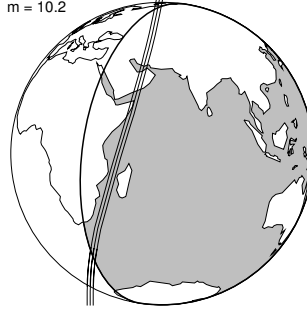
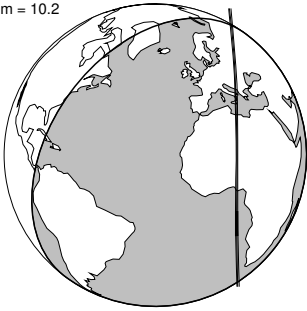
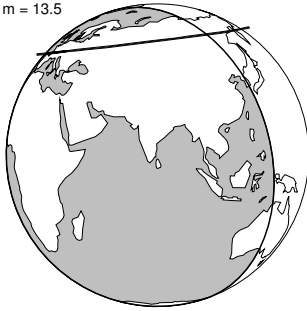
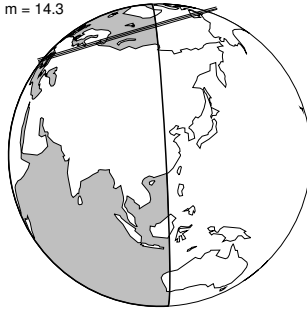

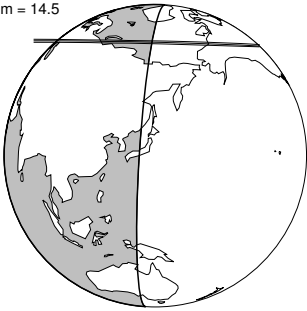
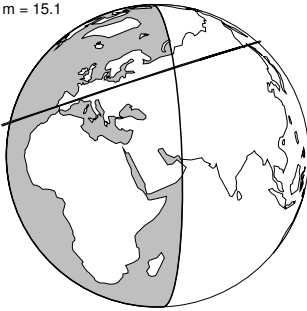
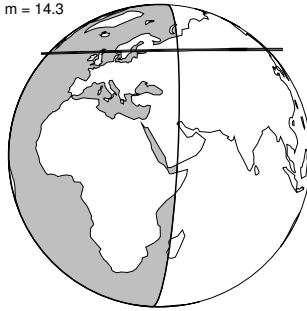
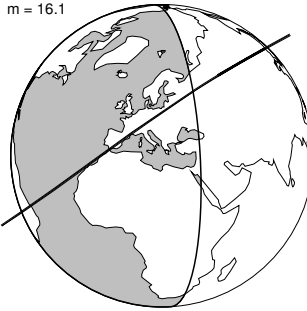
Occultations by major and minor planets – 2017

Region 5

<p>2017 feb 5 23h40.0m A17_02013 54 Alexandra UCAC4-542-046543 Diam = 171.0 m = 10.1 m = 12.2</p>  <p>Dur = 10.9s Dmag = 2.3 Sun: 172° Moon: 58°</p>	<p>2017 feb 5 23h44.1m A17_02038 471 Papagena UCAC4-592-047510 Diam = 127.0 m = 11.5 m = 11.1</p>  <p>Dur = 9.5s Dmag = 0.6 Sun: 154° Moon: 85°</p>	<p>2017 feb 8 17h20.2m A17_02033 342 Eudymion PPMX 7106463 Diam = 65.0 m = 12.4 m = 13.4</p>  <p>Dur = 9.4s Dmag = 1.3 Sun: 152° Moon: 10°</p>	<p>2017 feb 9 18h 3.5m A17_02031 328 Gudrun PPMX 3010453 Diam = 120.0 m = 12.5 m = 13.5</p>  <p>Dur = 13.1s Dmag = 1.4 Sun: 115° Moon: 51°</p>
<p>2017 feb 10 18h25.4m A17_02078 2001PK47 UCAC4-531-002886 Diam = 166.0 m = 11.7 m = 22.9</p>  <p>Dur = 9.9s Dmag = 11.3 Sun: 67° Moon: 110°</p>	<p>2017 feb 13 22h10.5m A17_02036 406 Erna UCAC4-536-048952 Diam = 53.8 m = 8.9 m = 15.1</p>  <p>Dur = 3.8s Dmag = 6.3 Sun: 166° Moon: 49°</p>	<p>2017 feb 15 16h14.0m A17_02063 893 Leopoldina UCAC4-486-010005 Diam = 78.0 m = 9.3 m = 14.7</p>  <p>Dur = 6.7s Dmag = 5.5 Sun: 108° Moon: 126°</p>	<p>2017 feb 16 16h 6.8m A17_02048 640 Brambilla UCAC4-461-040775 Diam = 84.8 m = 12.0 m = 14.1</p>  <p>Dur = 7.0s Dmag = 2.3 Sun: 149° Moon: 93°</p>
<p>2017 feb 25 18h 2.8m A17_02016 62 Erato HIP 53049 Diam = 99.3 m = 7.9 m = 13.4</p>  <p>Dur = 6.9s Dmag = 5.4 Sun: 176° Moon: 165°</p>	<p>2017 mar 4 21h51.4m A17_03081 1237 Genevieve UCAC4-614-043724 Diam = 42.0 m = 11.3 m = 15.1</p>  <p>Dur = 6.6s Dmag = 3.9 Sun: 136° Moon: 59°</p>	<p>2017 mar 9 15h19.6m A17_03032 187 Lamberta PPMX 3965359 Diam = 135.0 m = 12.0 m = 13.7</p>  <p>Dur = 9.3s Dmag = 1.9 Sun: 89° Moon: 56°</p>	<p>2017 mar 14 17h49.3m A17_03013 68 Leto UCAC4-605-023586 Diam = 127.0 m = 11.3 m = 12.4</p>  <p>Dur = 8.3s Dmag = 1.5 Sun: 91° Moon: 112°</p>
<p>2017 mar 20 18h35.0m A17_03017 72 Feronia UCAC4-539-013357 Diam = 89.3 m = 12.3 m = 14.0</p>  <p>Dur = 4.1s Dmag = 1.9 Sun: 79° Moon: 169°</p>	<p>2017 mar 24 17h 2.1m A17_03006 22 Kalliope UCAC4-624-031029 Diam = 187.0 m = 11.5 m = 11.6</p>  <p>Dur = 11.0s Dmag = 0.8 Sun: 89° Moon: 132°</p>	<p>2017 mar 26 19h40.7m A17_03071 760 Massinga PPMX 5070014 Diam = 74.8 m = 12.3 m = 12.8</p>  <p>Dur = 5.5s Dmag = 1.1 Sun: 99° Moon: 116°</p>	<p>2017 apr 3 21h26.4m A17_04026 245 Vera UCAC4-426-058455 Diam = 84.8 m = 12.1 m = 13.1</p>  <p>Dur = 5.5s Dmag = 1.4 Sun: 169° Moon: 98°</p>

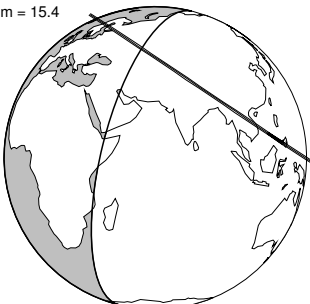
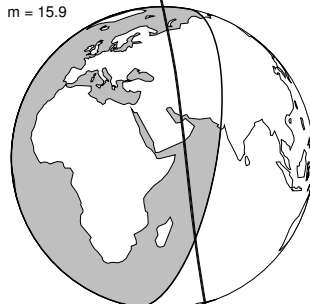
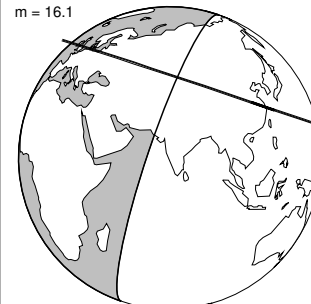
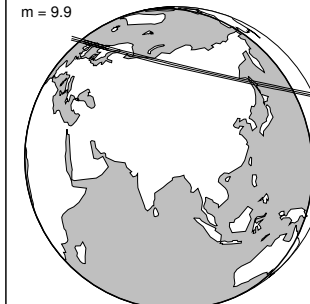
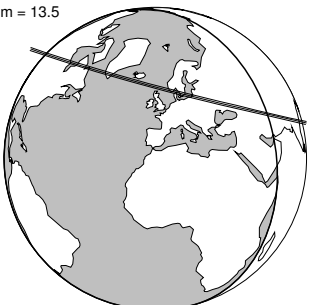
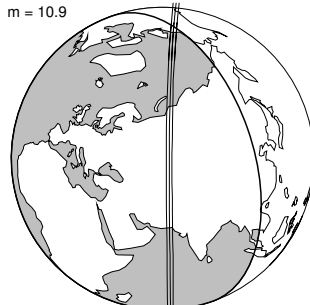
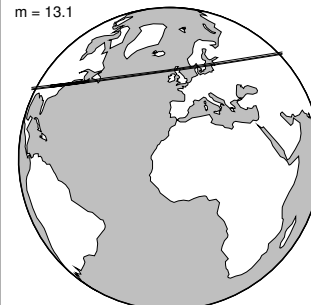
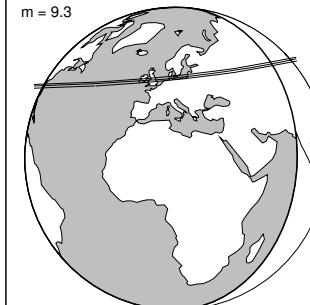
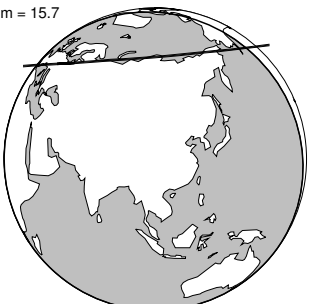
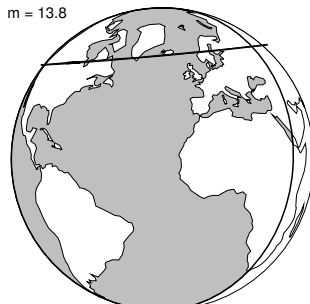
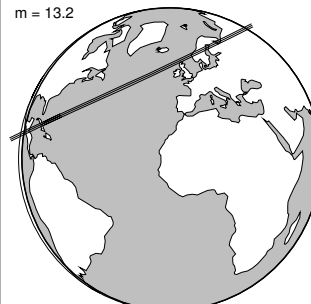
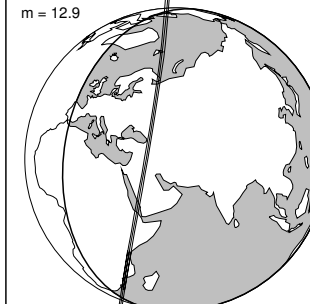
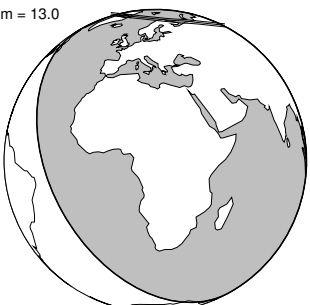
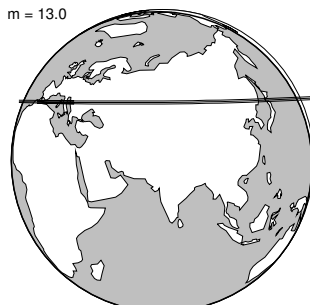
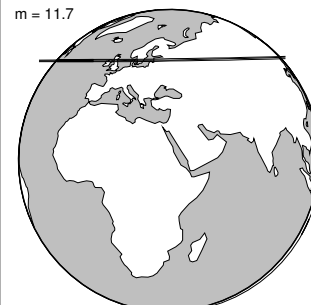
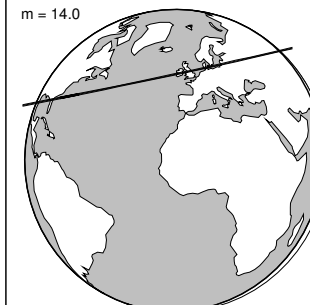
Occultations by major and minor planets – 2017

Region 5

<p>2017 apr 9 19h29.9m A17_04017 146 Lucina UCAC4-602-032977 Diam = 137.0 m = 12.0 m = 13.8</p>  <p>Dur = 6.2s Dmag = 1.9 Sun: 76° Moon: 87°</p>	<p>2017 apr 12 16h55.3m A17_04055 760 Massinga UCAC4-583-038721 Diam = 74.8 m = 12.3 m = 13.0</p>  <p>Dur = 3.8s Dmag = 1.2 Sun: 86° Moon: 110°</p>	<p>2017 apr 20 19h 5.6m A17_04049 586 Thekla TYC 1358-00278-1 Diam = 85.0 m = 12.1 m = 14.8</p>  <p>Dur = 3.6s Dmag = 2.8 Sun: 76° Moon: 151°</p>	<p>2017 may 17 22h36.5m A17_05002 3 Juno UCAC4-421-114558 Diam = 257.6 m = 10.7 m = 10.4</p>  <p>Dur = 44.1s Dmag = 0.6 Sun: 127° Moon: 30°</p>
<p>2017 jun 12 22h 4.9m A17_06004 5 Astraea UCAC4-366-158184 Diam = 125.0 m = 11.2 m = 11.1</p>  <p>Dur = 11.1s Dmag = 0.7 Sun: 156° Moon: 15°</p>	<p>2017 aug 15 23h53.9m A17_08007 8 Flora UCAC4-541-012132 Diam = 141.0 m = 12.2 m = 10.5</p>  <p>Dur = 4.4s Dmag = 0.2 Sun: 65° Moon: 12°</p>	<p>2017 aug 22 14h49.0m A17_08005 5 Astraea UCAC4-352-122158 Diam = 125.0 m = 11.1 m = 11.9</p>  <p>Dur = 48.1s Dmag = 1.2 Sun: 123° Moon: 112°</p>	<p>2017 aug 22 15h57.2m A17_08002 3 Juno UCAC4-407-075904 Diam = 257.6 m = 12.4 m = 10.2</p>  <p>Dur = 37.2s Dmag = 0.1 Sun: 121° Moon: 110°</p>
<p>2017 sep 1 23h25.3m A17_09016 25 Phocaea UCAC4-558-119148 Diam = 78.0 m = 10.7 m = 10.2</p>  <p>Dur = 8.8s Dmag = 0.5 Sun: 134° Moon: 43°</p>	<p>2017 sep 12 21h13.0m A17_09049 207 Hedda UCAC4-505-003101 Diam = 60.0 m = 10.8 m = 13.5</p>  <p>Dur = 14.8s Dmag = 2.8 Sun: 137° Moon: 43°</p>	<p>2017 sep 18 22h 8.4m A17_09083 388 Charybdis PPMX 4977375 Diam = 120.0 m = 12.0 m = 14.3</p>  <p>Dur = 8.3s Dmag = 2.4 Sun: 92° Moon: 76°</p>	<p>2017 sep 21 19h45.9m A17_09052 224 Oceana UCAC4-527-003186 Diam = 79.8 m = 12.4 m = 12.7</p>  <p>Dur = 9.7s Dmag = 0.9 Sun: 147° Moon: 165°</p>
<p>2017 sep 21 20h46.9m A17_09090 466 Tisiphone PPMX 4026667 Diam = 121.0 m = 12.3 m = 14.5</p>  <p>Dur = 6.9s Dmag = 2.3 Sun: 83° Moon: 103°</p>	<p>2017 sep 29 2h 2.6m A17_09119 1072 Malva UCAC4-588-021076 Diam = 46.5 m = 11.2 m = 15.1</p>  <p>Dur = 3.2s Dmag = 3.9 Sun: 99° Moon: 159°</p>	<p>2017 oct 5 2h43.8m A17_10050 464 Megaira PPMX 6030552 Diam = 76.5 m = 12.2 m = 14.3</p>  <p>Dur = 6.3s Dmag = 2.3 Sun: 96° Moon: 91°</p>	<p>2017 oct 8 3h33.0m A17_10076 1002 Olbersia PPMX 4010786 Diam = 57.1 m = 12.4 m = 16.1</p>  <p>Dur = 6.2s Dmag = 3.7 Sun: 104° Moon: 47°</p>

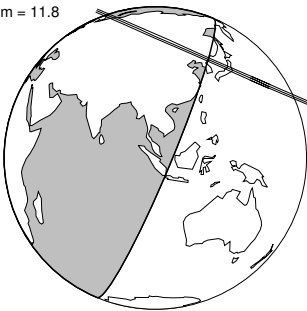
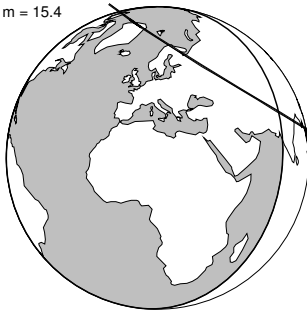
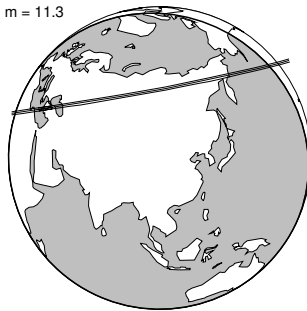
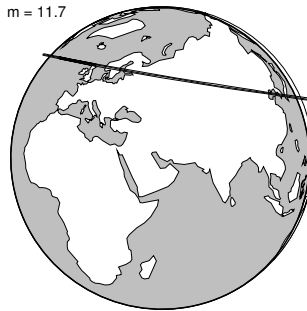
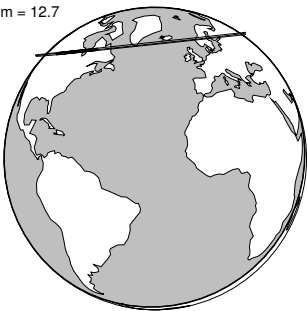
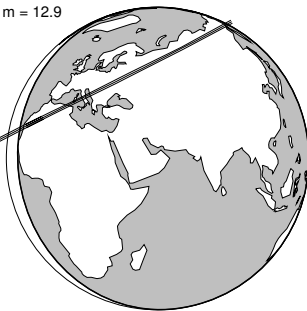
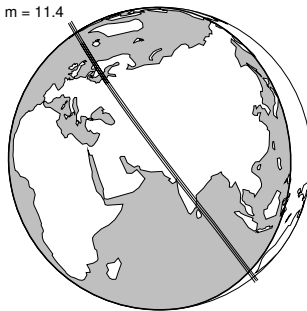
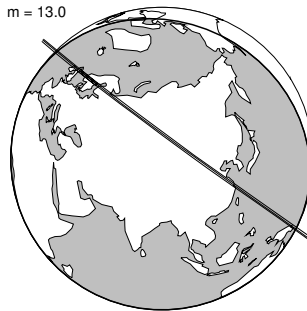
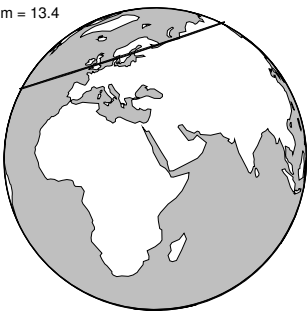
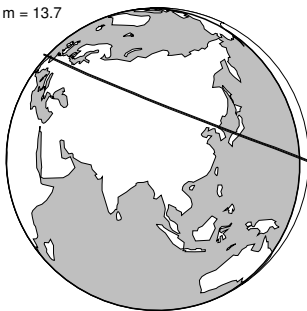
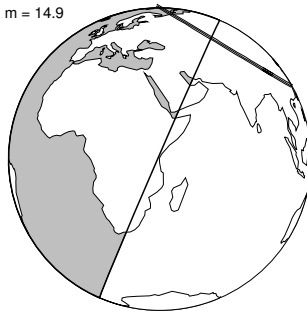
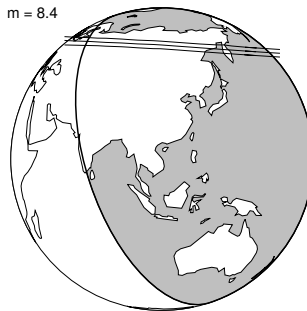
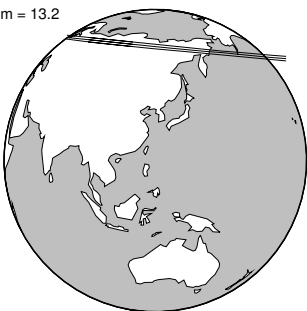
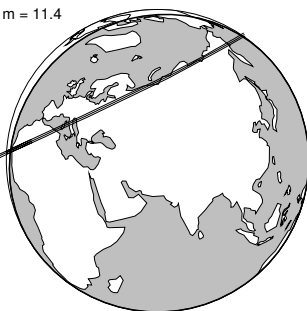
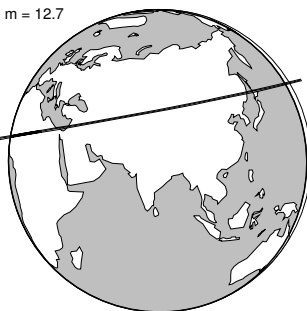
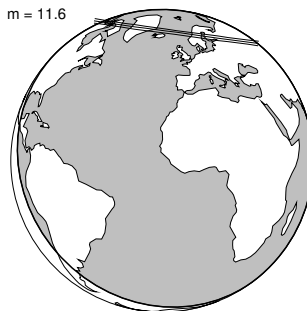
Occultations by major and minor planets – 2017

Region 5

<p>2017 oct 24 2h52.9m A17_10079 1177 Gonnessia UCAC4-468-042689 Diam = 95.5 m = 11.4 m = 15.4</p>  <p>Dur = 3.5s Dmag = 4.0 Sun: 69° Moon: 117°</p>	<p>2017 oct 29 1h22.2m A17_10082 1712 Angola UCAC4-504-033910 Diam = 66.2 m = 10.5 m = 15.9</p>  <p>Dur = 7.0s Dmag = 5.5 Sun: 110° Moon: 144°</p>	<p>2017 nov 5 1h38.6m A17_11049 468 Lina UCAC4-525-050898 Diam = 71.7 m = 12.4 m = 16.1</p>  <p>Dur = 4.1s Dmag = 3.7 Sun: 81° Moon: 87°</p>	<p>2017 nov 9 19h36.5m A17_11038 349 Dembowska PPMX 4940034 Diam = 143.0 m = 12.4 m = 9.9</p>  <p>Dur = 14.8s Dmag = 0.1 Sun: 152° Moon: 51°</p>
<p>2017 nov 11 2h35.4m A17_11041 388 Charybdis UCAC4-611-022866 Diam = 120.0 m = 10.0 m = 13.5</p>  <p>Dur = 14.3s Dmag = 3.6 Sun: 142° Moon: 57°</p>	<p>2017 nov 13 23h 6.0m A17_11007 31 Euphrosyne UCAC4-714-043702 Diam = 248.0 m = 12.4 m = 10.9</p>  <p>Dur = 18.1s Dmag = 0.2 Sun: 126° Moon: 81°</p>	<p>2017 nov 14 0h17.5m A17_11048 454 Mathesis UCAC4-556-006172 Diam = 84.5 m = 12.3 m = 13.1</p>  <p>Dur = 6.2s Dmag = 1.2 Sun: 176° Moon: 128°</p>	<p>2017 nov 17 1h29.5m A17_11004 20 Massalia UCAC4-563-024131 Diam = 151.0 m = 11.0 m = 9.3</p>  <p>Dur = 49.2s Dmag = 0.2 Sun: 143° Moon: 127°</p>
<p>2017 nov 17 17h47.0m A17_11088 1977 Shura HIP 20588 Diam = 60.8 m = 9.4 m = 15.7</p>  <p>Dur = 4.8s Dmag = 6.3 Sun: 161° Moon: 152°</p>	<p>2017 nov 19 3h28.6m A17_11027 167 Urda UCAC4-552-018552 Diam = 42.2 m = 11.3 m = 13.8</p>  <p>Dur = 4.5s Dmag = 2.6 Sun: 149° Moon: 157°</p>	<p>2017 nov 20 23h44.9m A17_11047 420 Bertholda UCAC4-544-005413 Diam = 146.0 m = 11.8 m = 13.2</p>  <p>Dur = 10.9s Dmag = 1.7 Sun: 167° Moon: 140°</p>	<p>2017 nov 21 16h59.0m A17_11073 895 Helio UCAC4-630-002625 Diam = 147.0 m = 11.9 m = 12.9</p>  <p>Dur = 10.6s Dmag = 1.4 Sun: 137° Moon: 107°</p>
<p>2017 dec 1 19h48.8m A17_12038 159 Aemilia UCAC4-460-002271 Diam = 131.0 m = 10.7 m = 13.0</p>  <p>Dur = 26.1s Dmag = 2.4 Sun: 134° Moon: 19°</p>	<p>2017 dec 3 19h33.3m A17_12060 388 Charybdis UCAC4-613-020578 Diam = 120.0 m = 11.3 m = 13.0</p>  <p>Dur = 9.2s Dmag = 1.9 Sun: 166° Moon: 16°</p>	<p>2017 dec 3 22h 7.1m A17_12005 17 Thetis UCAC4-534-013371 Diam = 93.2 m = 12.4 m = 11.7</p>  <p>Dur = 7.0s Dmag = 0.4 Sun: 169° Moon: 5°</p>	<p>2017 dec 4 1h30.0m A17_12047 284 Amalia UCAC4-539-017341 Diam = 55.1 m = 11.9 m = 14.0</p>  <p>Dur = 4.0s Dmag = 2.2 Sun: 165° Moon: 8°</p>

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<p>2017 dec 6 22h39.3m A17_12012 51 Nemausa HIP 51317 Diam = 152.3 m = 9.7 m = 11.8</p>  <p>Dur = 10.2s Dmag = 2.3 Sun: 96° Moon: 38°</p>	<p>2017 dec 7 1h32.2m A17_12110 2621 Goto HIP 35842 Diam = 50.1 m = 6.2 m = 15.4</p>  <p>Dur = 5.0s Dmag = 9.2 Sun: 145° Moon: 14°</p>	<p>2017 dec 8 17h47.3m A17_12030 141 Lumen UCAC4-652-035389 Diam = 135.0 m = 9.8 m = 11.3</p>  <p>Dur = 13.4s Dmag = 1.8 Sun: 160° Moon: 60°</p>	<p>2017 dec 9 21h18.2m A17_12021 110 Lydia PPMX 5011922 Diam = 89.1 m = 12.4 m = 11.7</p>  <p>Dur = 7.3s Dmag = 0.5 Sun: 166° Moon: 72°</p>
<p>2017 dec 10 2h26.9m A17_12015 56 Melete UCAC4-511-014335 Diam = 90.8 m = 11.8 m = 12.7</p>  <p>Dur = 6.1s Dmag = 1.3 Sun: 165° Moon: 79°</p>	<p>2017 dec 15 18h39.7m A17_12066 405 Thia PPMX 5904508 Diam = 129.0 m = 12.3 m = 12.9</p>  <p>Dur = 9.6s Dmag = 1.0 Sun: 157° Moon: 171°</p>	<p>2017 dec 19 21h46.7m A17_12035 145 Adeona UCAC4-602-043017 Diam = 155.0 m = 11.7 m = 11.4</p>  <p>Dur = 18.1s Dmag = 0.6 Sun: 149° Moon: 164°</p>	<p>2017 dec 21 18h59.0m A17_12080 772 Tanete UCAC4-685-045552 Diam = 123.0 m = 10.7 m = 13.0</p>  <p>Dur = 7.3s Dmag = 2.4 Sun: 154° Moon: 143°</p>
<p>2017 dec 22 21h36.1m A17_12104 1197 Rhodesia UCAC4-537-023834 Diam = 49.0 m = 12.3 m = 13.4</p>  <p>Dur = 3.9s Dmag = 1.4 Sun: 173° Moon: 132°</p>	<p>2017 dec 23 19h 3.2m A17_12068 438 Zeuxo UCAC4-606-040628 Diam = 63.6 m = 11.9 m = 13.7</p>  <p>Dur = 5.5s Dmag = 2.0 Sun: 159° Moon: 138°</p>	<p>2017 dec 25 3h17.1m A17_12072 514 Armida UCAC4-424-055996 Diam = 110.0 m = 11.4 m = 14.9</p>  <p>Dur = 6.9s Dmag = 3.5 Sun: 89° Moon: 163°</p>	<p>2017 dec 25 12h32.7m A17_12001 7 Iris PPMX 5846417 Diam = 329.6 m = 12.5 m = 8.4</p>  <p>Dur = 43.9s Dmag = 0.0 Sun: 120° Moon: 41°</p>
<p>2017 dec 25 15h45.5m A17_12051 334 Chicago UCAC4-549-025693 Diam = 170.0 m = 12.3 m = 13.2</p>  <p>Dur = 10.9s Dmag = 1.2 Sun: 176° Moon: 100°</p>	<p>2017 dec 25 18h54.1m A17_12032 141 Lumen PPMX 3036448 Diam = 135.0 m = 12.3 m = 11.4</p>  <p>Dur = 12.9s Dmag = 0.4 Sun: 161° Moon: 88°</p>	<p>2017 dec 27 19h31.4m A17_12078 696 Leonora UCAC4-589-040060 Diam = 79.3 m = 9.8 m = 12.7</p>  <p>Dur = 6.8s Dmag = 2.9 Sun: 166° Moon: 86°</p>	<p>2017 dec 27 23h52.7m A17_12017 59 Elpis UCAC4-497-010448 Diam = 173.0 m = 12.0 m = 11.6</p>  <p>Dur = 17.8s Dmag = 0.6 Sun: 157° Moon: 52°</p>

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