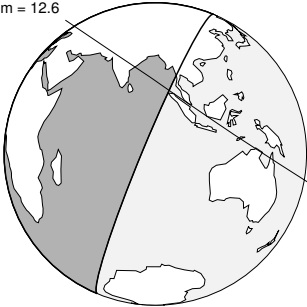
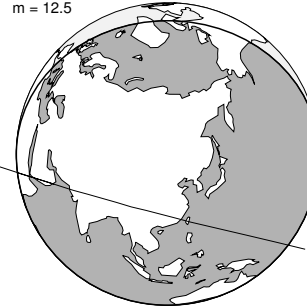
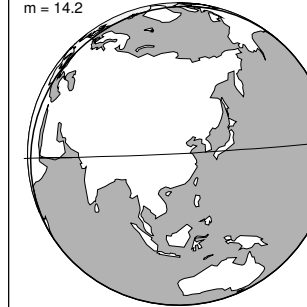
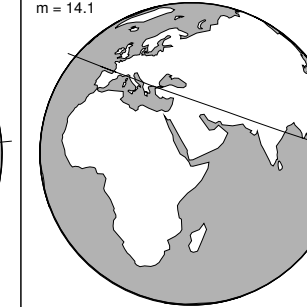
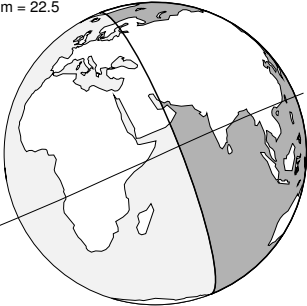
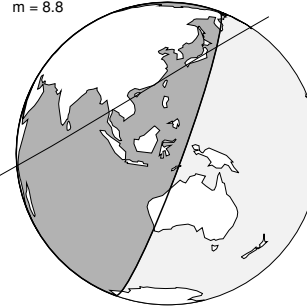
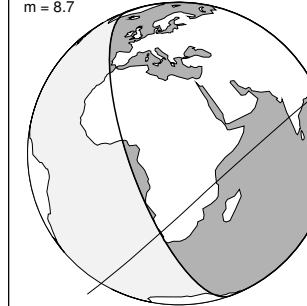
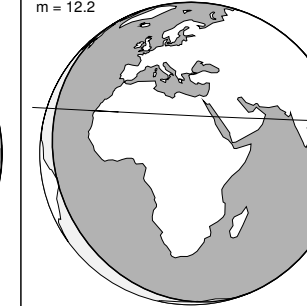
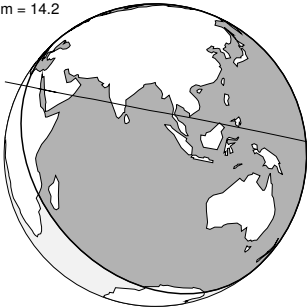
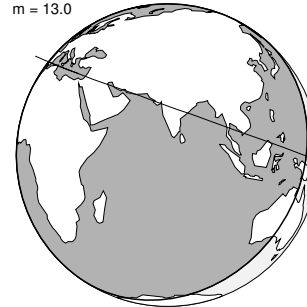
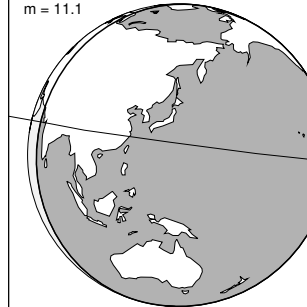
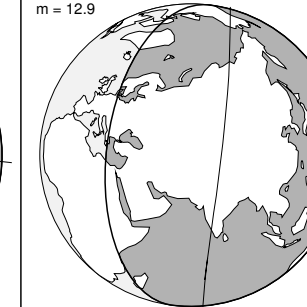
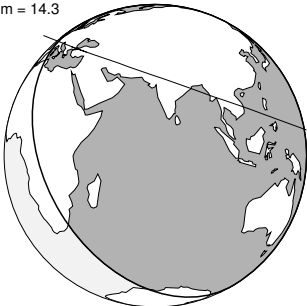
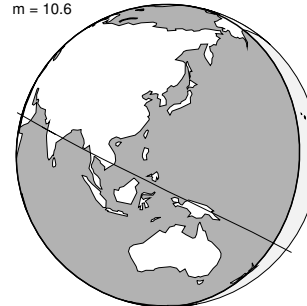
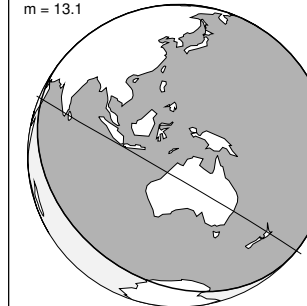
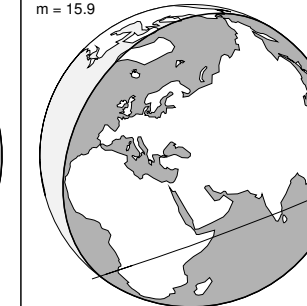


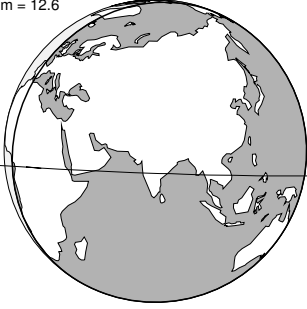
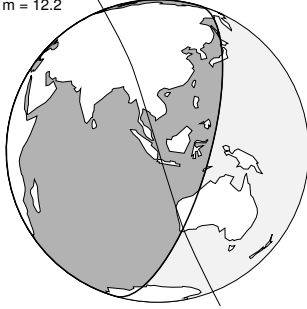
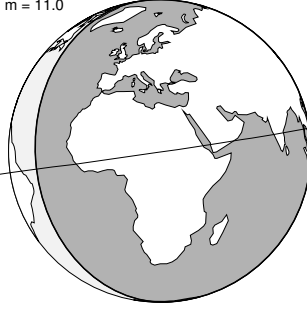
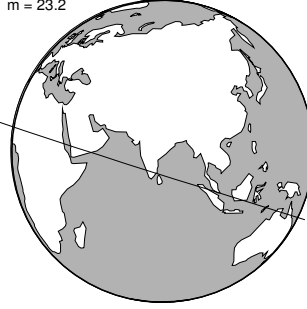
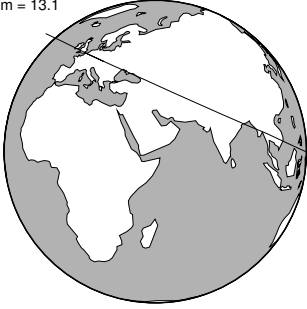
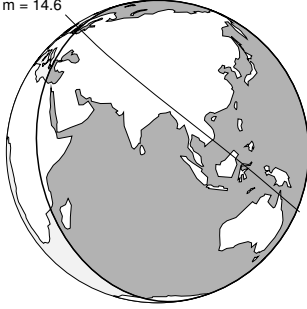
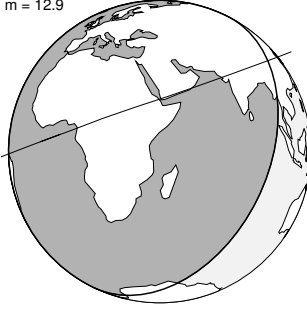
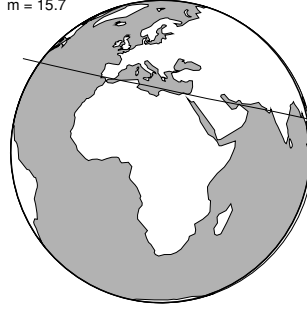
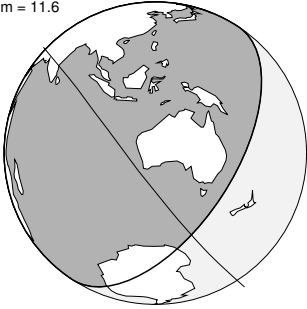
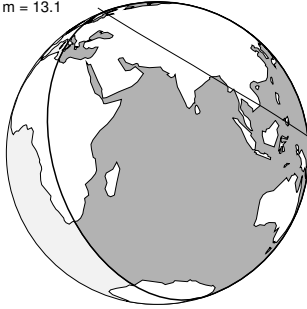
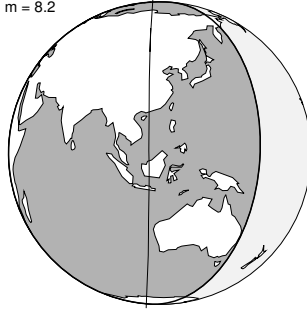
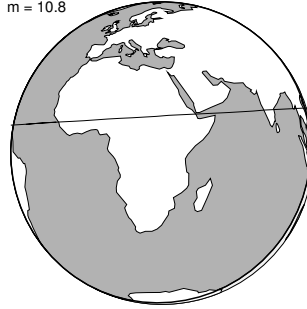
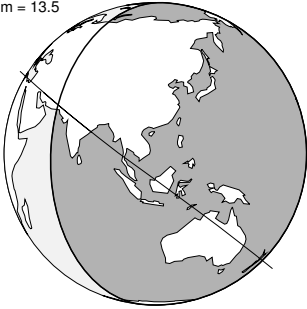
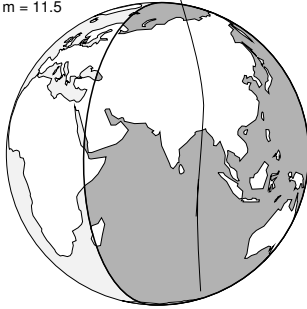
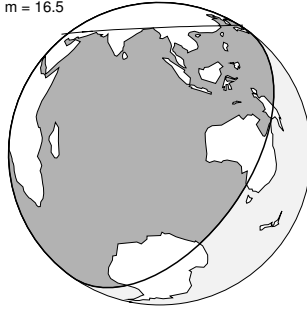
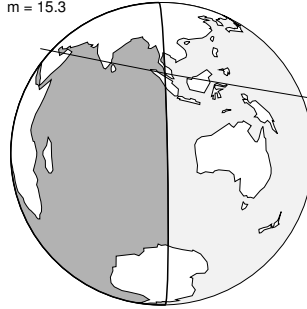
# Occultations by major and minor planets – 2019

# Region 6

<p><b>2019 jan 1 23h52.4m</b> A19_01077 405 Thia UCAC5 359-060863 Diam = 129.0 m = 12.2 m = 12.6</p>  <p>Dur = 5.3s Dmag = 1.0 Sun: 85° Moon: 42°</p>	<p><b>2019 jan 8 16h35.9m</b> A19_01038 154 Bertha UCAC5 703-044034 Diam = 192.0 m = 12.3 m = 12.5</p>  <p>Dur = 13.9s Dmag = 0.8 Sun: 151° Moon: 139°</p>	<p><b>2019 jan 14 15h43.7m</b> A19_01106 671 Carnegie TYC 2444-00173-1 Diam = 63.7 m = 9.5 m = 14.2</p>  <p>Dur = 5.5s Dmag = 4.7 Sun: 162° Moon: 74°</p>	<p><b>2019 jan 18 21h 0.6m</b> A19_01126 1212 Francette UCAC5 526-042756 Diam = 90.7 m = 12.4 m = 14.1</p>  <p>Dur = 7.2s Dmag = 1.9 Sun: 173° Moon: 31°</p>
<p><b>2019 jan 21 13h56.4m</b> B19_01007 504847 2010RE188 UCAC5 485-001850 Diam = 229.1 m = 12.7 m = 22.5</p>  <p>Dur = 23.3s Dmag = 9.7 Sun: 80° Moon: 105°</p>	<p><b>2019 jan 22 21h34.0m</b> A19_01001 2 Pallas UCAC5 432-055033 Diam = 530.9 m = 12.2 m = 8.8</p>  <p>Dur = 28.9s Dmag = 0.0 Sun: 95° Moon: 60°</p>	<p><b>2019 jan 24 17h51.2m</b> A19_01003 3 Juno UCAC5 458-004988 Diam = 257.6 m = 12.3 m = 8.7</p>  <p>Dur = 21.0s Dmag = 0.0 Sun: 109° Moon: 119°</p>	<p><b>2019 jan 24 20h43.0m</b> A19_01030 95 Arethusa TYC 0747-00668-1 Diam = 145.0 m = 12.3 m = 12.2</p>  <p>Dur = 14.2s Dmag = 0.7 Sun: 153° Moon: 75°</p>
<p><b>2019 jan 28 16h10.3m</b> A19_01129 1264 Letaba TYC 4812-02913-1 Diam = 77.5 m = 11.3 m = 14.2</p>  <p>Dur = 5.9s Dmag = 3.0 Sun: 142° Moon: 122°</p>	<p><b>2019 jan 29 20h47.3m</b> A19_01018 56 Melete UCAC5 458-046552 Diam = 90.8 m = 12.4 m = 13.0</p>  <p>Dur = 7.8s Dmag = 1.1 Sun: 151° Moon: 87°</p>	<p><b>2019 jan 30 13h17.3m</b> A19_01015 24 Themis TYC 1910-01452-1 Diam = 160.0 m = 11.4 m = 11.1</p>  <p>Dur = 16.2s Dmag = 0.6 Sun: 159° Moon: 141°</p>	<p><b>2019 jan 31 15h45.2m</b> A19_01115 804 Hispania UCAC5 660-027619 Diam = 140.6 m = 12.2 m = 12.9</p>  <p>Dur = 17.7s Dmag = 1.2 Sun: 123° Moon: 157°</p>
<p><b>2019 feb 4 16h56.0m</b> A19_02085 1264 Letaba UCAC5 421-018035 Diam = 77.5 m = 12.0 m = 14.3</p>  <p>Dur = 6.7s Dmag = 2.4 Sun: 137° Moon: 137°</p>	<p><b>2019 feb 4 17h36.0m</b> A19_02043 349 Dembowska UCAC5 529-049074 Diam = 143.0 m = 11.5 m = 10.6</p>  <p>Dur = 13.3s Dmag = 0.4 Sun: 150° Moon: 150°</p>	<p><b>2019 feb 6 14h18.1m</b> A19_02038 276 Adelheid TYC 5415-01987-1 Diam = 127.0 m = 11.8 m = 13.1</p>  <p>Dur = 10.6s Dmag = 1.6 Sun: 145° Moon: 133°</p>	<p><b>2019 feb 6 19h11.7m</b> A19_02092 1637 Swings TYC 2951-00612-1 Diam = 49.7 m = 9.8 m = 15.9</p>  <p>Dur = 4.9s Dmag = 6.1 Sun: 140° Moon: 124°</p>

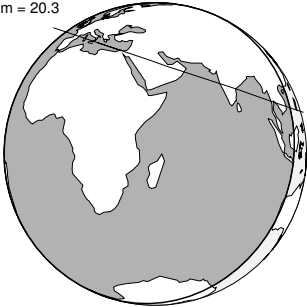
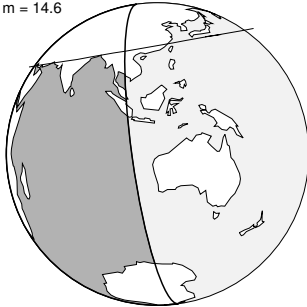
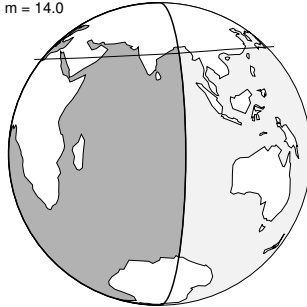
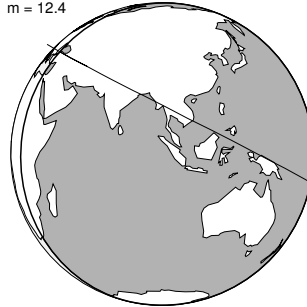
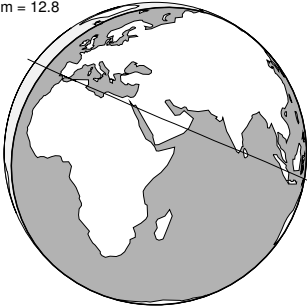
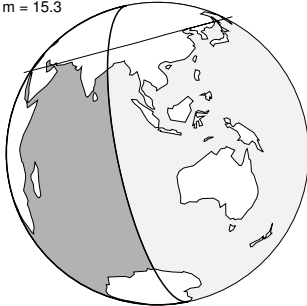
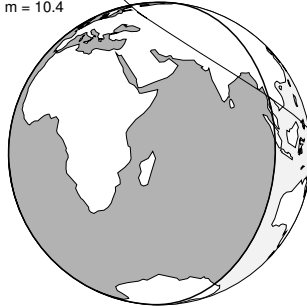
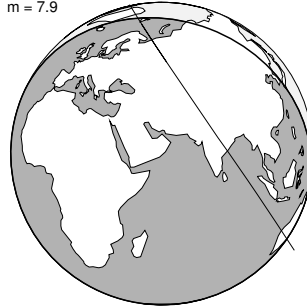
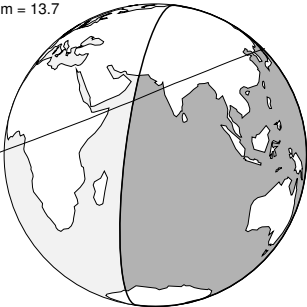
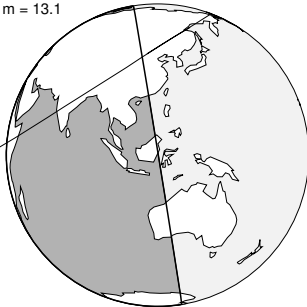
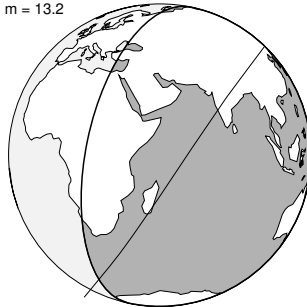
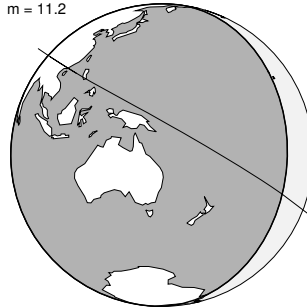
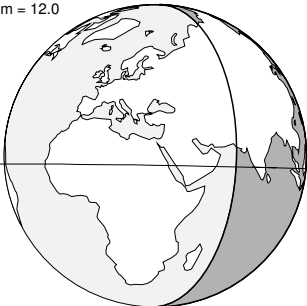
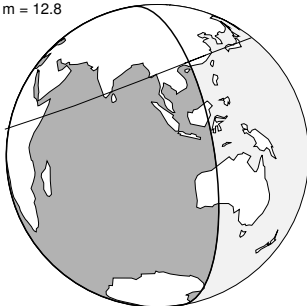
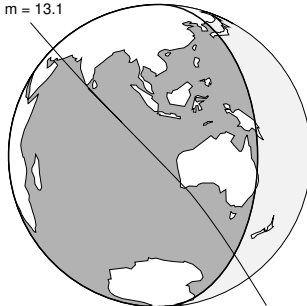
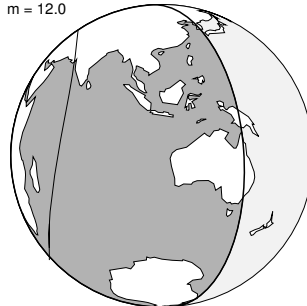
# Occultations by major and minor planets – 2019

# Region 6

<p><b>2019 feb 10 17h44.0m</b> A19_02031 224 Oceana TYC 1932-00621-1 Diam = 79.8 m = 11.4 m = 12.6</p>  <p>Dur = 7.2s Dmag = 1.5 Sun: 158° Moon: 95°</p>	<p><b>2019 feb 10 21h45.6m</b> A19_02007 31 Euphrosyne UCAC5 437-054395 Diam = 248.0 m = 10.5 m = 12.2</p>  <p>Dur = 61.4s Dmag = 1.9 Sun: 109° Moon: 174°</p>	<p><b>2019 feb 11 20h21.8m</b> A19_02070 704 Interamnia TYC 0775-00252-1 Diam = 333.0 m = 10.9 m = 11.0</p>  <p>Dur = 34.7s Dmag = 0.8 Sun: 145° Moon: 69°</p>	<p><b>2019 feb 12 18h20.4m</b> A19_02098 131695 2001XS254 TYC 1405-00289-1 Diam = 120.2 m = 10.9 m = 23.2</p>  <p>Dur = 4.8s Dmag = 12.3 Sun: 171° Moon: 85°</p>
<p><b>2019 feb 12 21h 9.2m</b> A19_02042 334 Chicago UCAC5 522-046672 Diam = 170.0 m = 11.8 m = 13.1</p>  <p>Dur = 11.1s Dmag = 1.5 Sun: 176° Moon: 93°</p>	<p><b>2019 feb 14 15h56.3m</b> A19_02087 1309 Hyperborea UCAC5 487-035880 Diam = 59.8 m = 11.3 m = 14.6</p>  <p>Dur = 8.4s Dmag = 3.3 Sun: 142° Moon: 35°</p>	<p><b>2019 feb 16 0h 0.4m</b> A19_02018 117 Lomia UCAC5 415-053457 Diam = 154.0 m = 10.3 m = 12.9</p>  <p>Dur = 20.1s Dmag = 2.7 Sun: 135° Moon: 95°</p>	<p><b>2019 feb 18 23h32.6m</b> A19_02081 1002 Olbersia TYC 0846-00540-1 Diam = 57.1 m = 11.6 m = 15.7</p>  <p>Dur = 3.9s Dmag = 4.1 Sun: 168° Moon: 21°</p>
<p><b>2019 feb 25 19h11.7m</b> A19_02050 405 Thia UCAC5 306-069754 Diam = 129.0 m = 11.5 m = 11.6</p>  <p>Dur = 21.0s Dmag = 0.8 Sun: 121° Moon: 33°</p>	<p><b>2019 mar 2 16h56.0m</b> A19_03095 895 Helio TYC 5412-02260-1 Diam = 147.0 m = 12.0 m = 13.1</p>  <p>Dur = 20.1s Dmag = 1.4 Sun: 133° Moon: 150°</p>	<p><b>2019 mar 3 19h42.7m</b> A19_03001 2 Pallas TYC 0323-01028-1 Diam = 530.9 m = 10.6 m = 8.2</p>  <p>Dur = 32.4s Dmag = 0.1 Sun: 131° Moon: 103°</p>	<p><b>2019 mar 6 22h53.5m</b> A19_03058 385 Ilmatar TYC 4935-00474-1 Diam = 94.1 m = 9.8 m = 10.8</p>  <p>Dur = 8.6s Dmag = 1.4 Sun: 166° Moon: 167°</p>
<p><b>2019 mar 7 13h40.7m</b> A19_03050 336 Lacadiera TYC 0789-01252-1 Diam = 72.0 m = 11.5 m = 13.5</p>  <p>Dur = 16.5s Dmag = 2.2 Sun: 133° Moon: 123°</p>	<p><b>2019 mar 8 15h20.3m</b> A19_03083 704 Interamnia TYC 0774-01738-1 Diam = 333.0 m = 12.2 m = 11.5</p>  <p>Dur = 254.6s Dmag = 0.5 Sun: 119° Moon: 97°</p>	<p><b>2019 mar 12 20h37.3m</b> A19_03120 4709 Ennomos TYC 7289-00929-1 Diam = 69.2 m = 10.4 m = 16.5</p>  <p>Dur = 9.5s Dmag = 6.0 Sun: 126° Moon: 150°</p>	<p><b>2019 mar 25 23h22.1m</b> A19_03048 331 Etheridgea UCAC5 308-175515 Diam = 78.5 m = 12.4 m = 15.3</p>  <p>Dur = 4.8s Dmag = 3.0 Sun: 92° Moon: 25°</p>

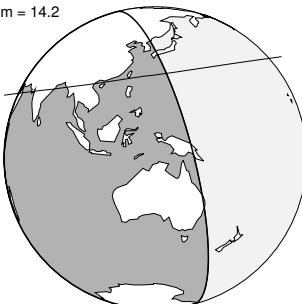

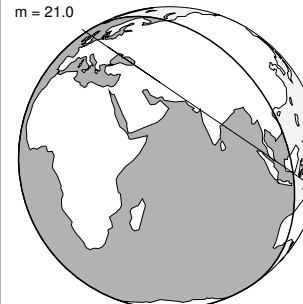
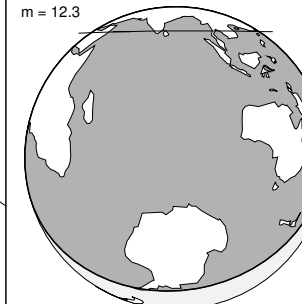
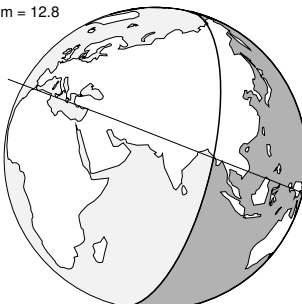
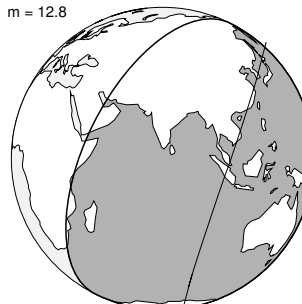
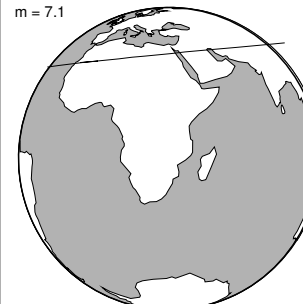
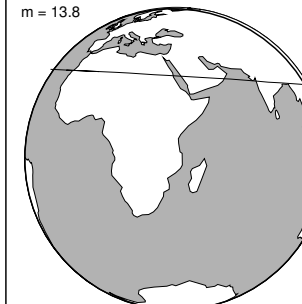
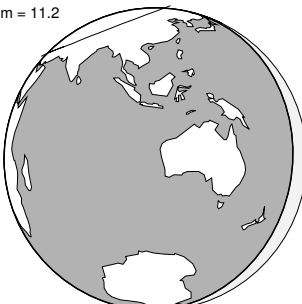
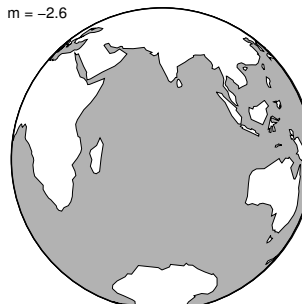
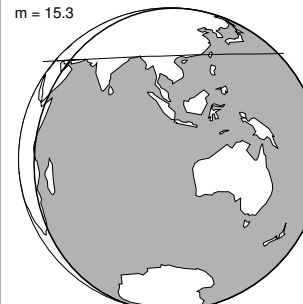
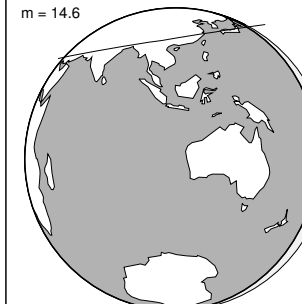
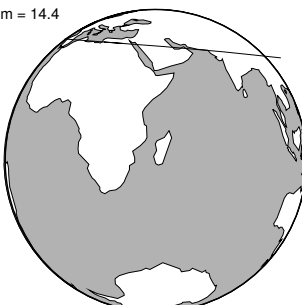
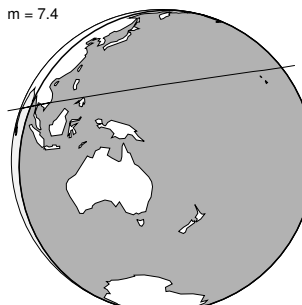
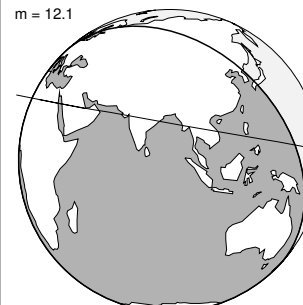
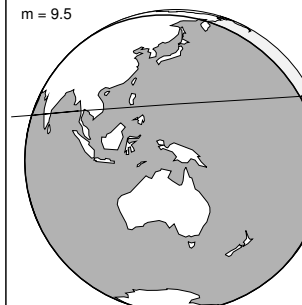
# Occultations by major and minor planets – 2019

# Region 6

<p><b>2019 mar 27 22h31.3m</b> B19_03007 386968 2012BR61 UCAC5 389-056922 Diam = 55.0 m = 13.6 m = 20.3</p>  <p>Dur = 3.3s Dmag = 6.7 Sun: 155° Moon: 62°</p>	<p><b>2019 mar 30 23h 9.9m</b> A19_03057 379 Huenna UCAC5 349-162626 Diam = 96.1 m = 12.1 m = 14.6</p>  <p>Dur = 4.2s Dmag = 2.5 Sun: 80° Moon: 21°</p>	<p><b>2019 mar 31 0h 2.5m</b> A19_03032 147 Protogeneia TYC 6841-01387-1 Diam = 137.0 m = 8.3 m = 14.0</p>  <p>Dur = 12.0s Dmag = 5.6 Sun: 99° Moon: 41°</p>	<p><b>2019 mar 31 16h13.4m</b> A19_03036 211 Isolda HIP 54910 Diam = 148.0 m = 6.8 m = 12.4</p>  <p>Dur = 13.3s Dmag = 5.7 Sun: 158° Moon: 148°</p>
<p><b>2019 apr 4 19h56.6m</b> A19_04037 100 Hekate UCAC5 498-055117 Diam = 92.0 m = 11.2 m = 12.8</p>  <p>Dur = 7.1s Dmag = 1.8 Sun: 156° Moon: 164°</p>	<p><b>2019 apr 7 0h13.8m</b> A19_04046 163 Erigone UCAC5 371-168225 Diam = 76.0 m = 10.7 m = 15.3</p>  <p>Dur = 3.2s Dmag = 4.6 Sun: 74° Moon: 94°</p>	<p><b>2019 apr 9 23h16.0m</b> A19_04004 11 Parthenope UCAC5 385-067969 Diam = 162.0 m = 12.4 m = 10.4</p>  <p>Dur = 39.0s Dmag = 0.2 Sun: 139° Moon: 165°</p>	<p><b>2019 apr 10 20h56.8m</b> A19_04001 2 Pallas UCAC5 542-051155 Diam = 530.9 m = 9.9 m = 7.9</p>  <p>Dur = 33.2s Dmag = 0.2 Sun: 151° Moon: 112°</p>
<p><b>2019 apr 11 14h 6.1m</b> A19_04114 895 Helio TYC 4858-02261-1 Diam = 147.0 m = 10.8 m = 13.7</p>  <p>Dur = 13.0s Dmag = 3.0 Sun: 101° Moon: 37°</p>	<p><b>2019 apr 13 22h10.2m</b> A19_04073 386 Siegena UCAC5 446-105337 Diam = 173.0 m = 12.3 m = 13.1</p>  <p>Dur = 9.7s Dmag = 1.2 Sun: 90° Moon: 153°</p>	<p><b>2019 apr 20 16h33.5m</b> A19_04105 712 Boiviana UCAC5 438-048920 Diam = 132.0 m = 11.8 m = 13.2</p>  <p>Dur = 18.1s Dmag = 1.7 Sun: 119° Moon: 78°</p>	<p><b>2019 apr 27 16h 6.7m</b> A19_04015 32 Pomona UCAC5 353-077805 Diam = 82.0 m = 9.9 m = 11.2</p>  <p>Dur = 14.1s Dmag = 1.6 Sun: 145° Moon: 64°</p>
<p><b>2019 apr 28 13h52.5m</b> A19_04021 40 Harmonia UCAC5 574-025512 Diam = 111.0 m = 10.4 m = 12.0</p>  <p>Dur = 3.3s Dmag = 1.8 Sun: 57° Moon: 130°</p>	<p><b>2019 apr 28 22h 9.2m</b> A19_04052 201 Penelope TYC 6283-00121-1 Diam = 70.5 m = 11.0 m = 12.8</p>  <p>Dur = 8.2s Dmag = 1.9 Sun: 112° Moon: 45°</p>	<p><b>2019 apr 30 20h19.8m</b> A19_04048 179 Klytaemnestra TYC 6841-01050-1 Diam = 81.0 m = 12.1 m = 13.1</p>  <p>Dur = 25.4s Dmag = 1.4 Sun: 130° Moon: 83°</p>	<p><b>2019 may 3 20h39.1m</b> A19_05071 471 Papagena UCAC5 333-173766 Diam = 127.0 m = 12.0 m = 12.0</p>  <p>Dur = 30.7s Dmag = 0.8 Sun: 122° Moon: 110°</p>

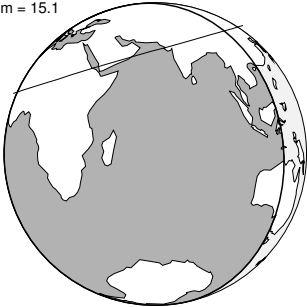
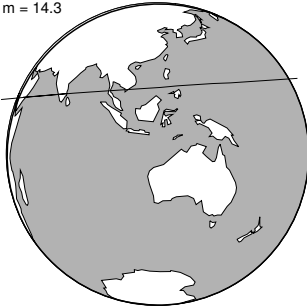
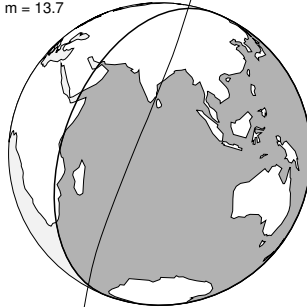
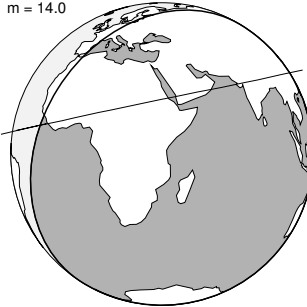
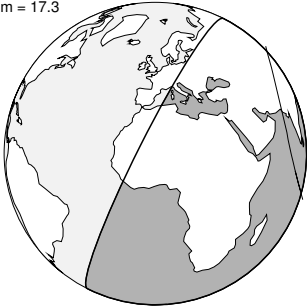
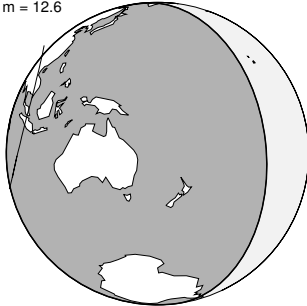
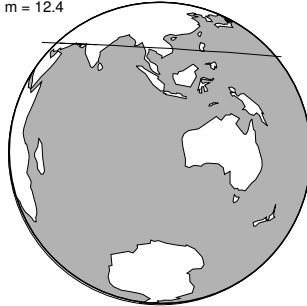
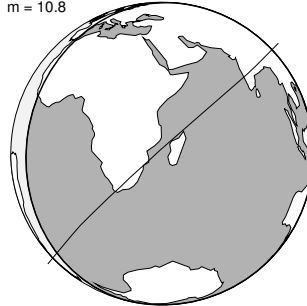
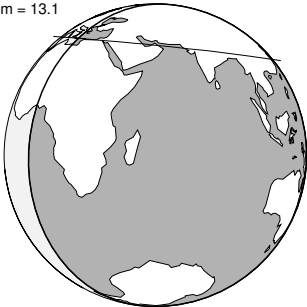
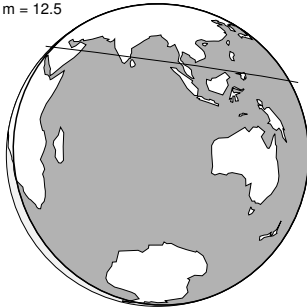
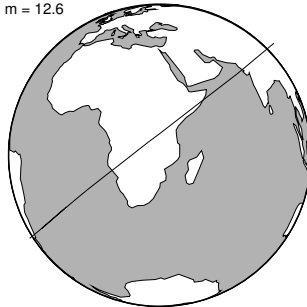
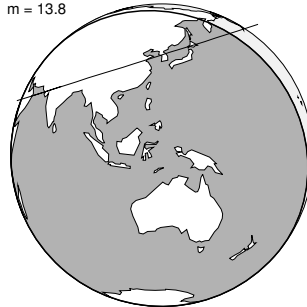
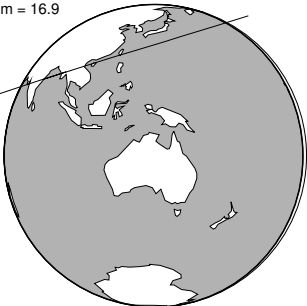

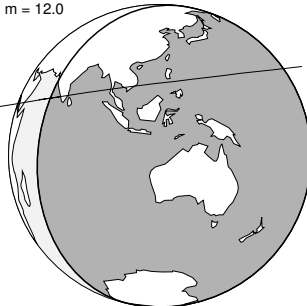
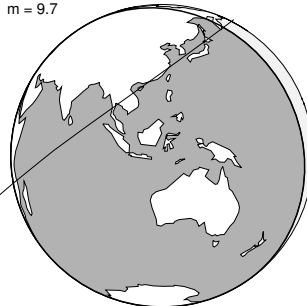
# Occultations by major and minor planets – 2019

# Region 6

<p><b>2019 may 6 20h21.1m</b> A19_05087 791 Ani UCAC5 400-120697 Diam = 107.0 m = 10.5 m = 14.2</p>  <p>Dur = 9.8s Dmag = 3.7 Sun: 104° Moon: 128°</p>	<p><b>2019 may 9 18h10.5m</b> A19_05056 375 Ursula UCAC5 224-113384 Diam = 216.0 m = 11.7 m = 12.1</p>  <p>Dur = 22.0s Dmag = 0.9 Sun: 145° Moon: 140°</p>	<p><b>2019 may 11 22h22.4m</b> B19_05007 470309 2007JK43 UCAC5 467-060837 Diam = 166.0 m = 13.3 m = 21.0</p>  <p>Dur = 7.5s Dmag = 7.8 Sun: 138° Moon: 119°</p>	<p><b>2019 may 16 18h42.5m</b> A19_05014 61 Danaë UCAC5 212-110530 Diam = 83.6 m = 11.6 m = 12.3</p>  <p>Dur = 6.9s Dmag = 1.1 Sun: 150° Moon: 49°</p>
<p><b>2019 may 17 12h 9.4m</b> A19_05047 324 Bamberga TYC 1387-01069-1 Diam = 227.6 m = 11.4 m = 12.8</p>  <p>Dur = 8.5s Dmag = 1.7 Sun: 67° Moon: 94°</p>	<p><b>2019 may 20 15h 8.9m</b> A19_05048 326 Tamara TYC 0283-00181-1 Diam = 100.0 m = 11.4 m = 12.8</p>  <p>Dur = 10.0s Dmag = 1.6 Sun: 120° Moon: 81°</p>	<p><b>2019 may 21 22h27.4m</b> A19_05001 1 Ceres UCAC5 363-073920 Diam = 952.5 m = 11.5 m = 7.1</p>  <p>Dur = 80.0s Dmag = 0.0 Sun: 170° Moon: 29°</p>	<p><b>2019 may 22 21h58.2m</b> A19_05091 861 Aida UCAC5 388-068563 Diam = 70.1 m = 11.2 m = 13.8</p>  <p>Dur = 6.1s Dmag = 2.7 Sun: 168° Moon: 43°</p>
<p><b>2019 may 24 18h16.5m</b> A19_05008 22 Kalliope TYC 6840-00125-1 Diam = 187.0 m = 10.8 m = 11.2</p>  <p>Dur = 15.5s Dmag = 1.0 Sun: 154° Moon: 44°</p>	<p><b>2019 jun 3 19h33.0m</b> P19_06001 Jupiter HIP 84543 Diam = 133542.0 m = 9.4 m = -2.6</p>  <p>Dur = 8762.3s Dmag = 0.0 Sun: 172° Moon: 177°</p>	<p><b>2019 jun 4 15h 8.8m</b> A19_06119 806 Gyldenria UCAC5 345-069687 Diam = 65.2 m = 11.5 m = 15.3</p>  <p>Dur = 6.2s Dmag = 3.9 Sun: 153° Moon: 138°</p>	<p><b>2019 jun 8 18h12.3m</b> A19_06056 257 Silesia PPMX 12730321 Diam = 73.5 m = 11.2 m = 14.6</p>  <p>Dur = 6.0s Dmag = 3.4 Sun: 158° Moon: 131°</p>
<p><b>2019 jun 12 20h33.9m</b> A19_06051 223 Rosa TYC 6809-00943-1 Diam = 90.7 m = 11.4 m = 14.4</p>  <p>Dur = 6.6s Dmag = 3.1 Sun: 173° Moon: 49°</p>	<p><b>2019 jun 14 12h 8.5m</b> A19_06002 1 Ceres TYC 6205-00960-1 Diam = 952.5 m = 11.0 m = 7.4</p>  <p>Dur = 88.4s Dmag = 0.0 Sun: 160° Moon: 16°</p>	<p><b>2019 jun 15 20h 0.7m</b> A19_06074 386 Siegena UCAC5 473-096400 Diam = 173.0 m = 11.7 m = 12.1</p>  <p>Dur = 20.3s Dmag = 1.0 Sun: 140° Moon: 53°</p>	<p><b>2019 jun 16 16h 0.4m</b> A19_06006 18 Melpomene UCAC5 409-091931 Diam = 135.0 m = 11.4 m = 9.5</p>  <p>Dur = 16.2s Dmag = 0.2 Sun: 156° Moon: 29°</p>

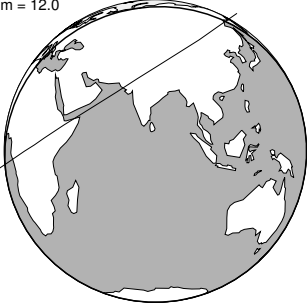
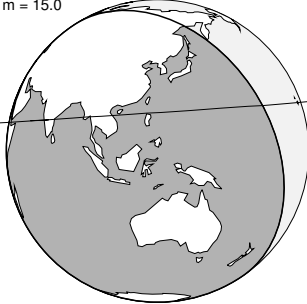
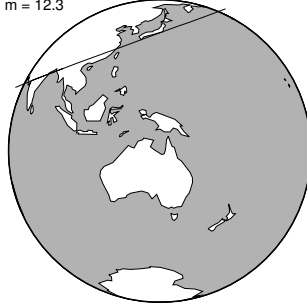
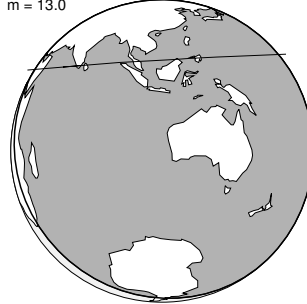
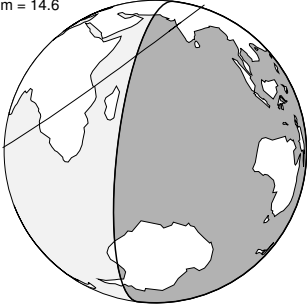
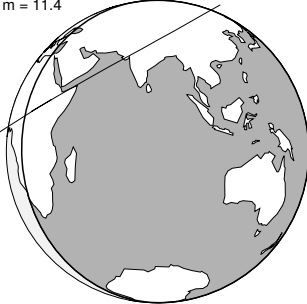
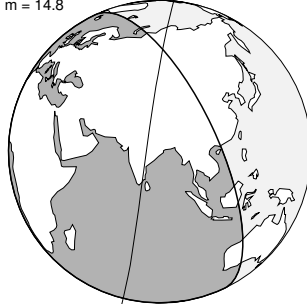
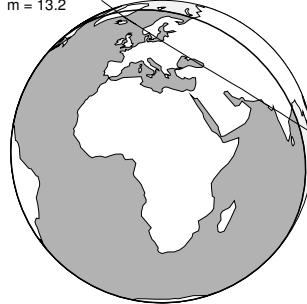
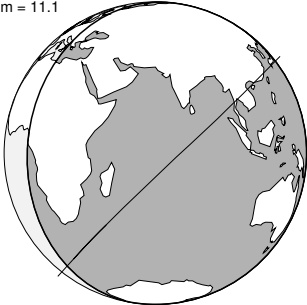
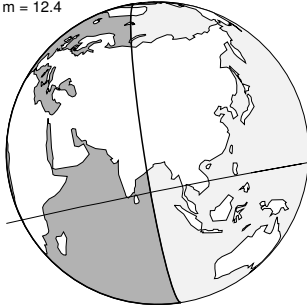
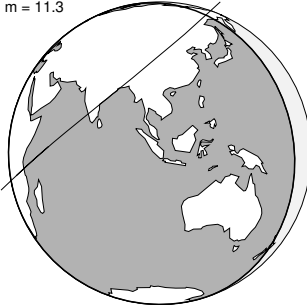
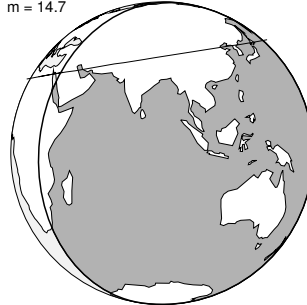
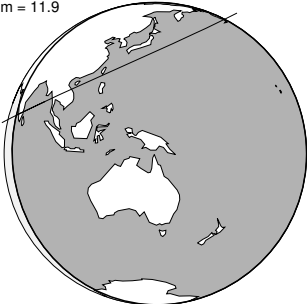
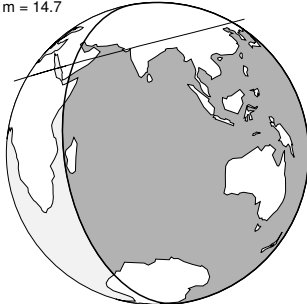
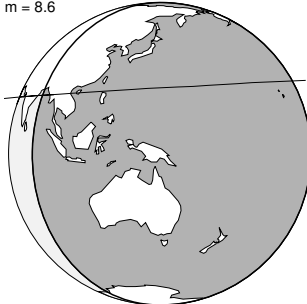
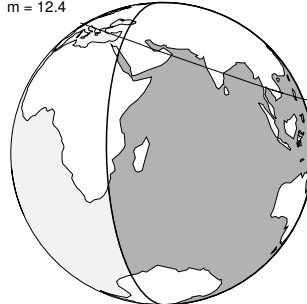
# Occultations by major and minor planets – 2019

# Region 6

<p><b>2019 jun 17 21h57.6m</b> A19_06059 279 Thule TYC 6326–01330–1 Diam = 135.0 m = 11.6 m = 15.1</p>  <p>Dur = 12.2s Dmag = 3.5 Sun: 147° Moon: 26°</p>	<p><b>2019 jun 22 15h45.3m</b> A19_06083 415 Palatia UCAC5 371–090685 Diam = 80.1 m = 11.8 m = 14.3</p>  <p>Dur = 5.0s Dmag = 2.5 Sun: 170° Moon: 67°</p>	<p><b>2019 jun 23 15h12.6m</b> A19_06095 564 Dudu TYC 5573–00427–1 Diam = 50.7 m = 10.5 m = 13.7</p>  <p>Dur = 6.5s Dmag = 3.2 Sun: 130° Moon: 121°</p>	<p><b>2019 jun 24 19h22.6m</b> A19_06069 360 Carlova TYC 5044–00048–1 Diam = 121.0 m = 12.1 m = 14.0</p>  <p>Dur = 10.6s Dmag = 2.0 Sun: 144° Moon: 117°</p>
<p><b>2019 jul 3 19h 4.5m</b> A19_07153 2895 Memnon UCAC5 542–051093 Diam = 57.5 m = 11.9 m = 17.3</p>  <p>Dur = 4.2s Dmag = 5.4 Sun: 96° Moon: 84°</p>	<p><b>2019 jul 6 16h31.0m</b> A19_07029 146 Lucina HIP 109870 Diam = 137.0 m = 12.6 m = 12.6</p>  <p>Dur = 17.6s Dmag = 4.6 Sun: 135° Moon: 165°</p>	<p><b>2019 jul 7 16h43.2m</b> A19_07037 200 Dynamene TYC 7407–00795–1 Diam = 132.0 m = 9.8 m = 12.4</p>  <p>Dur = 10.3s Dmag = 2.6 Sun: 170° Moon: 107°</p>	<p><b>2019 jul 7 19h28.1m</b> A19_07076 410 Chloris TYC 6245–00158–1 Diam = 128.0 m = 10.5 m = 10.8</p>  <p>Dur = 20.7s Dmag = 0.9 Sun: 153° Moon: 85°</p>
<p><b>2019 jul 16 17h58.0m</b> A19_07030 147 Protogeneia UCAC5 340–089756 Diam = 137.0 m = 11.6 m = 13.1</p>  <p>Dur = 17.3s Dmag = 1.8 Sun: 146° Moon: 31°</p>	<p><b>2019 jul 17 16h49.6m</b> A19_07039 200 Dynamene UCAC5 300–208352 Diam = 132.0 m = 11.8 m = 12.5</p>  <p>Dur = 11.2s Dmag = 1.2 Sun: 160° Moon: 27°</p>	<p><b>2019 jul 19 21h53.7m</b> A19_07121 791 Ani UCAC5 377–153968 Diam = 107.0 m = 11.9 m = 12.6</p>  <p>Dur = 9.3s Dmag = 1.2 Sun: 173° Moon: 34°</p>	<p><b>2019 jul 20 16h45.4m</b> A19_07115 635 Vundtia TYC 5196–01620–1 Diam = 100.0 m = 11.0 m = 13.8</p>  <p>Dur = 9.0s Dmag = 2.9 Sun: 156° Moon: 28°</p>
<p><b>2019 jul 23 15h58.5m</b> A19_07154 4057 Demophon TYC 6353–00220–1 Diam = 50.1 m = 10.4 m = 16.9</p>  <p>Dur = 3.0s Dmag = 6.6 Sun: 167° Moon: 62°</p>	<p><b>2019 jul 26 14h29.5m</b> A19_07125 914 Palisana TYC 0421–02611–1 Diam = 79.0 m = 8.6 m = 11.3</p>  <p>Dur = 12.8s Dmag = 2.8 Sun: 138° Moon: 137°</p>	<p><b>2019 jul 27 13h42.0m</b> A19_07023 79 Eurynome UCAC5 367–102952 Diam = 68.0 m = 11.4 m = 12.0</p>  <p>Dur = 8.9s Dmag = 1.1 Sun: 143° Moon: 156°</p>	<p><b>2019 jul 28 17h35.3m</b> A19_07015 39 Laetitia TYC 5222–00424–1 Diam = 159.0 m = 9.5 m = 9.7</p>  <p>Dur = 18.7s Dmag = 0.9 Sun: 156° Moon: 112°</p>

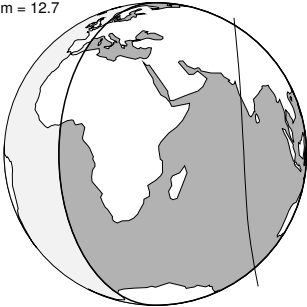
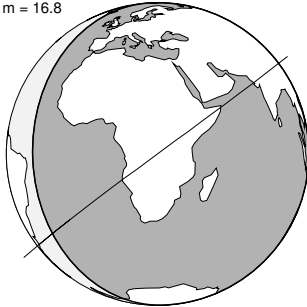
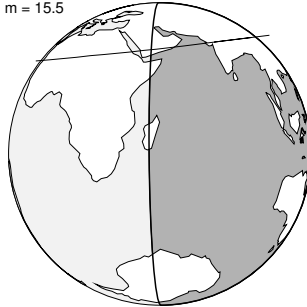
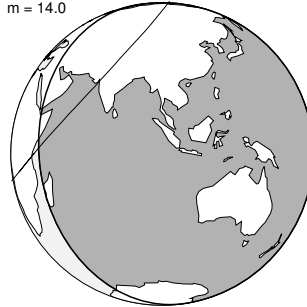
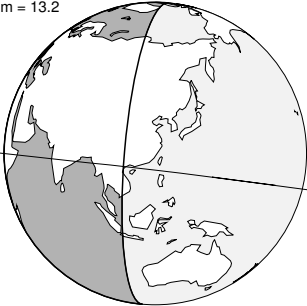
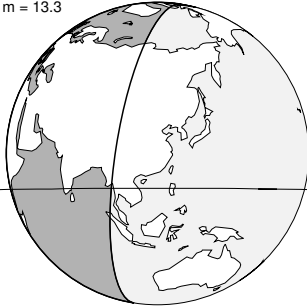
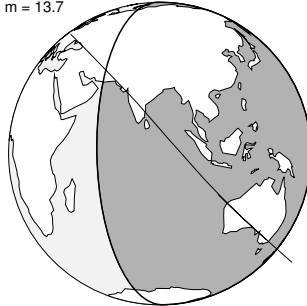
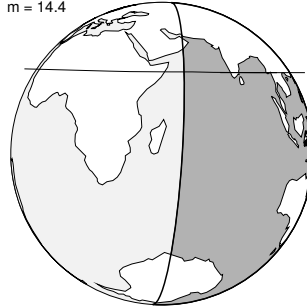
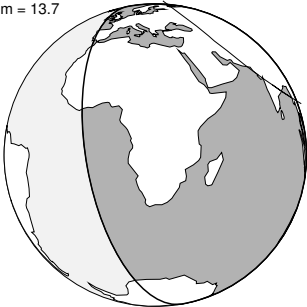
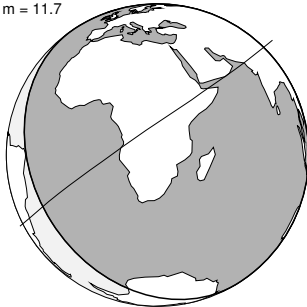
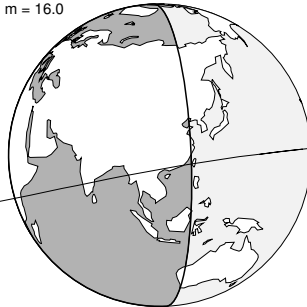
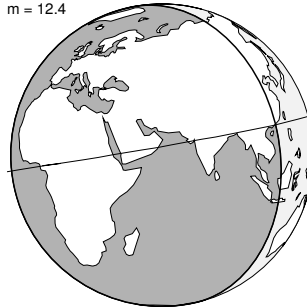
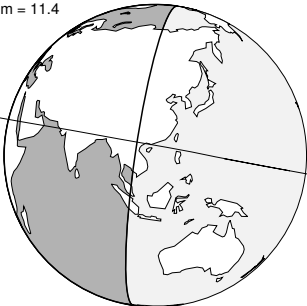
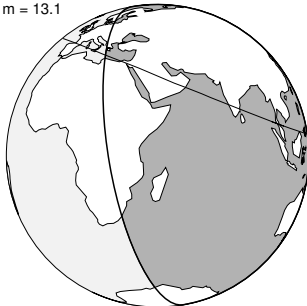

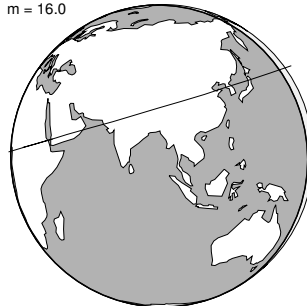
# Occultations by major and minor planets – 2019

# Region 6

<p><b>2019 jul 28 18h16.0m</b> A19_07044 218 Bianca UCAC5 443-114197 Diam = 62.0 m = 11.6 m = 12.0</p>  <p>Dur = 5.5s Dmag = 0.9 Sun: 161° Moon: 134°</p>	<p><b>2019 jul 31 18h 7.1m</b> A19_07145 1315 Bronislawa TYC 0579-01185-1 Diam = 65.5 m = 15.0</p>  <p>Dur = 10.0s Dmag = 4.4 Sun: 138° Moon: 133°</p>	<p><b>2019 aug 1 14h48.5m</b> A19_08045 206 Hersilia UCAC5 368-175382 Diam = 76.6 m = 12.4 m = 12.3</p>  <p>Dur = 6.4s Dmag = 0.7 Sun: 178° Moon: 172°</p>	<p><b>2019 aug 3 15h50.0m</b> A19_08025 109 Felicitas UCAC5 294-208245 Diam = 91.0 m = 11.6 m = 13.0</p>  <p>Dur = 7.1s Dmag = 1.7 Sun: 162° Moon: 130°</p>
<p><b>2019 aug 14 14h15.4m</b> A19_08065 328 Gudrun UCAC5 254-081320 Diam = 120.0 m = 11.3 m = 14.6</p>  <p>Dur = 11.4s Dmag = 3.3 Sun: 104° Moon: 65°</p>	<p><b>2019 aug 17 16h40.7m</b> A19_08010 45 Eugenia UCAC5 365-165828 Diam = 214.0 m = 11.9 m = 11.4</p>  <p>Dur = 25.8s Dmag = 0.6 Sun: 153° Moon: 50°</p>	<p><b>2019 aug 17 22h18.7m</b> A19_08132 1005 Arago TYC 1211-00603-1 Diam = 62.7 m = 9.5 m = 14.8</p>  <p>Dur = 5.9s Dmag = 5.2 Sun: 112° Moon: 43°</p>	<p><b>2019 aug 17 23h59.2m</b> A19_08112 759 Vinifera UCAC5 488-134811 Diam = 52.7 m = 10.7 m = 13.2</p>  <p>Dur = 5.0s Dmag = 2.6 Sun: 152° Moon: 17°</p>
<p><b>2019 aug 25 17h25.0m</b> A19_08011 51 Nemausa TYC 5739-01983-1 Diam = 152.3 m = 9.7 m = 11.1</p>  <p>Dur = 18.2s Dmag = 1.6 Sun: 147° Moon: 145°</p>	<p><b>2019 aug 27 0h 9.4m</b> A19_08019 88 Thisbe UCAC5 579-010980 Diam = 232.0 m = 11.9 m = 12.4</p>  <p>Dur = 13.0s Dmag = 1.0 Sun: 84° Moon: 37°</p>	<p><b>2019 aug 27 18h53.0m</b> A19_08024 103 Hera UCAC5 430-000267 Diam = 95.2 m = 11.7 m = 11.3</p>  <p>Dur = 12.3s Dmag = 0.6 Sun: 152° Moon: 115°</p>	<p><b>2019 aug 28 15h45.5m</b> A19_08141 1306 Scythia UCAC5 414-124298 Diam = 69.5 m = 12.3 m = 14.7</p>  <p>Dur = 7.8s Dmag = 2.5 Sun: 144° Moon: 163°</p>
<p><b>2019 sep 3 13h12.3m</b> A19_09022 60 Echo TYC 5790-00493-1 Diam = 61.0 m = 9.7 m = 11.9</p>  <p>Dur = 5.4s Dmag = 2.3 Sun: 161° Moon: 104°</p>	<p><b>2019 sep 5 14h57.5m</b> B19_09002 134340 Pluto UCAC5 339-167569 Diam = 2376.6 m = 13.4 m = 14.7</p>  <p>Dur = 186.1s Dmag = 1.6 Sun: 128° Moon: 44°</p>	<p><b>2019 sep 8 12h 9.7m</b> A19_09003 15 Eunomia UCAC5 420-134234 Diam = 272.0 m = 11.4 m = 8.6</p>  <p>Dur = 40.8s Dmag = 0.1 Sun: 147° Moon: 33°</p>	<p><b>2019 sep 8 15h39.9m</b> A19_09063 201 Penelope UCAC5 357-135207 Diam = 70.5 m = 12.3 m = 12.4</p>  <p>Dur = 8.2s Dmag = 0.8 Sun: 111° Moon: 9°</p>

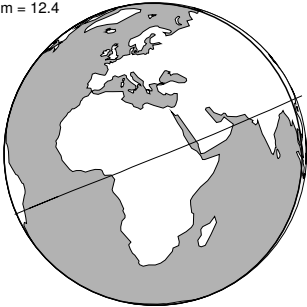
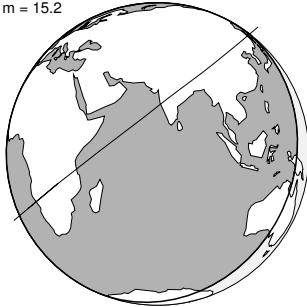
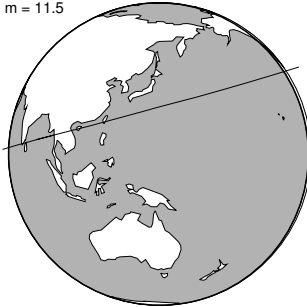
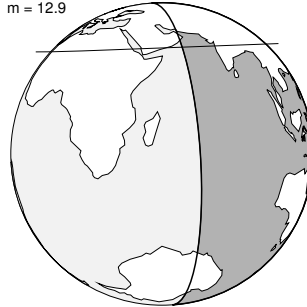
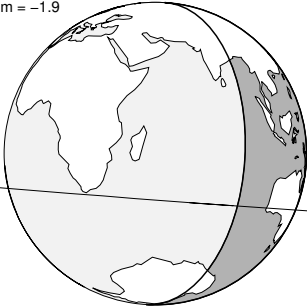
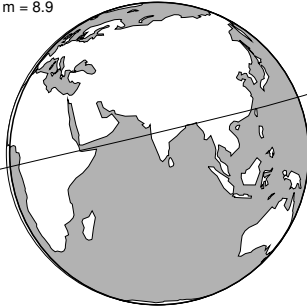
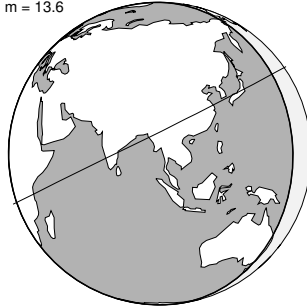
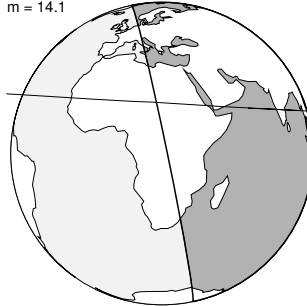
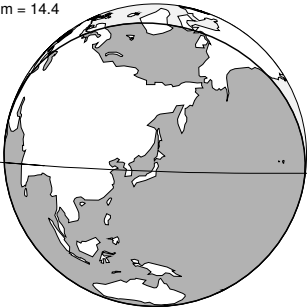
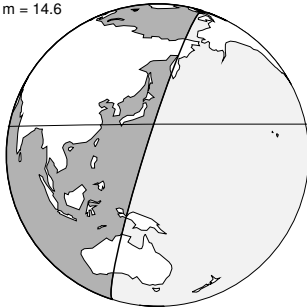
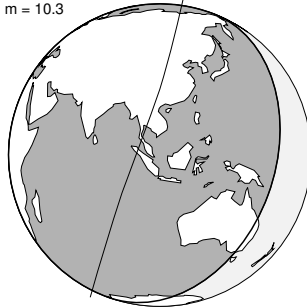
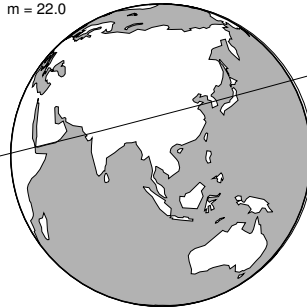
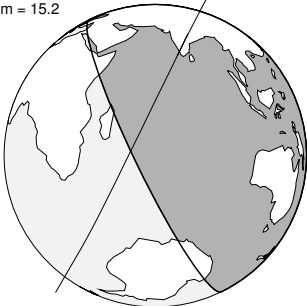
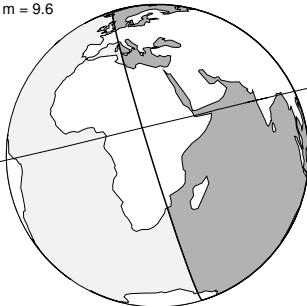
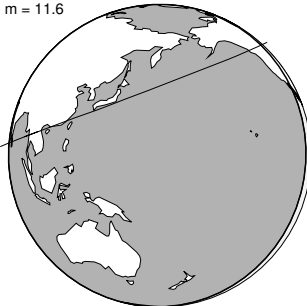
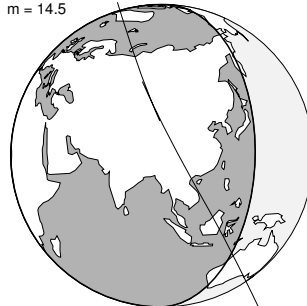
# Occultations by major and minor planets – 2019

# Region 6

<p><b>2019 sep 9 18h 3.4m</b> A19_09067 218 Bianca UCAC5 410-121456 Diam = 62.0 m = 11.6 m = 12.7</p>  <p>Dur = 7.8s Dmag = 1.4 Sun: 129° Moon: 14°</p>	<p><b>2019 sep 10 19h55.8m</b> A19_09164 4060 Deipylos TYC 5770-01327-1 Diam = 69.2 m = 11.1 m = 16.8</p>  <p>Dur = 4.7s Dmag = 5.7 Sun: 145° Moon: 12°</p>	<p><b>2019 sep 19 14h47.3m</b> A19_09075 257 Silesia UCAC5 315-118769 Diam = 73.5 m = 12.4 m = 15.5</p>  <p>Dur = 5.7s Dmag = 3.2 Sun: 94° Moon: 146°</p>	<p><b>2019 sep 19 14h56.5m</b> A19_09126 589 Croatia UCAC5 409-129296 Diam = 92.5 m = 11.9 m = 14.0</p>  <p>Dur = 10.5s Dmag = 2.2 Sun: 144° Moon: 96°</p>
<p><b>2019 sep 20 22h48.1m</b> A19_09098 389 Industria TYC 1888-00508-1 Diam = 81.0 m = 11.6 m = 13.2</p>  <p>Dur = 3.6s Dmag = 1.8 Sun: 78° Moon: 26°</p>	<p><b>2019 sep 21 23h24.8m</b> A19_09030 81 Terpsichore UCAC5 601-036709 Diam = 124.0 m = 10.2 m = 13.3</p>  <p>Dur = 4.6s Dmag = 3.2 Sun: 73° Moon: 20°</p>	<p><b>2019 sep 22 13h48.5m</b> A19_09134 683 Lanzia UCAC5 433-096960 Diam = 116.0 m = 11.2 m = 13.7</p>  <p>Dur = 25.2s Dmag = 2.6 Sun: 114° Moon: 154°</p>	<p><b>2019 sep 23 14h 3.9m</b> A19_09036 91 Aegina UCAC5 324-104689 Diam = 114.0 m = 12.4 m = 14.4</p>  <p>Dur = 5.7s Dmag = 2.1 Sun: 82° Moon: 154°</p>
<p><b>2019 sep 28 18h15.8m</b> A19_09015 34 Circe UCAC5 376-161913 Diam = 118.0 m = 11.0 m = 13.7</p>  <p>Dur = 30.1s Dmag = 2.8 Sun: 117° Moon: 117°</p>	<p><b>2019 sep 30 20h 8.6m</b> A19_09082 287 Nephthys UCAC5 368-180083 Diam = 70.1 m = 11.4 m = 11.7</p>  <p>Dur = 11.6s Dmag = 0.9 Sun: 145° Moon: 118°</p>	<p><b>2019 oct 1 21h56.1m</b> A19_10089 465 Alekto UCAC5 587-018619 Diam = 76.6 m = 11.6 m = 16.0</p>  <p>Dur = 10.4s Dmag = 4.3 Sun: 101° Moon: 145°</p>	<p><b>2019 oct 7 22h23.7m</b> A19_10037 116 Sirona TYC 1233-00171-1 Diam = 75.5 m = 11.9 m = 12.4</p>  <p>Dur = 11.5s Dmag = 1.1 Sun: 141° Moon: 104°</p>
<p><b>2019 oct 7 22h57.9m</b> A19_10002 5 Astraea UCAC5 536-040773 Diam = 125.0 m = 11.8 m = 11.4</p>  <p>Dur = 5.3s Dmag = 0.6 Sun: 82° Moon: 161°</p>	<p><b>2019 oct 10 16h 2.8m</b> A19_10070 345 Tercidina UCAC5 411-120280 Diam = 100.0 m = 11.6 m = 13.1</p>  <p>Dur = 10.6s Dmag = 1.8 Sun: 108° Moon: 39°</p>	<p><b>2019 oct 10 21h 9.1m</b> A19_10040 123 Brunhild UCAC5 601-029587 Diam = 49.8 m = 10.7 m = 13.3</p>  <p>Dur = 4.3s Dmag = 2.7 Sun: 102° Moon: 111°</p>	<p><b>2019 oct 11 18h39.7m</b> A19_10152 2032 Ethel TYC 0636-00921-1 Diam = 42.0 m = 11.6 m = 16.0</p>  <p>Dur = 3.9s Dmag = 4.4 Sun: 163° Moon: 40°</p>

# Occultations by major and minor planets – 2019

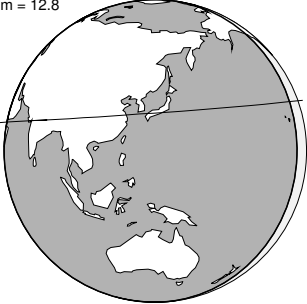
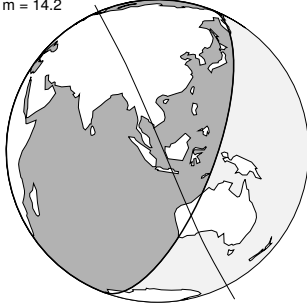
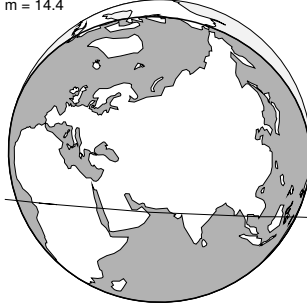
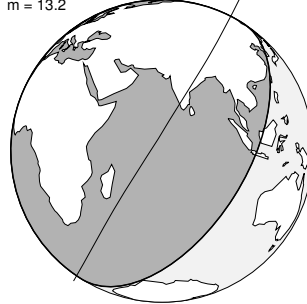
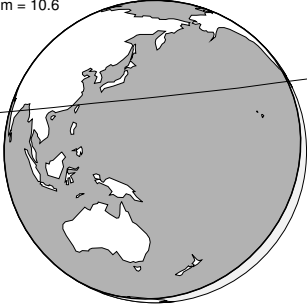
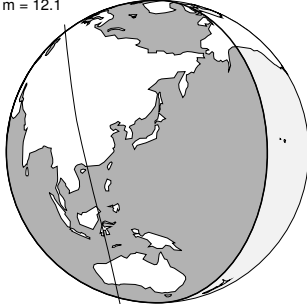
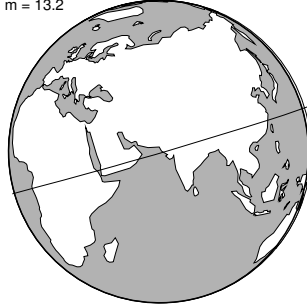
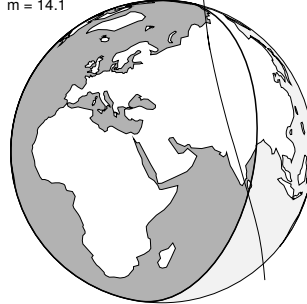
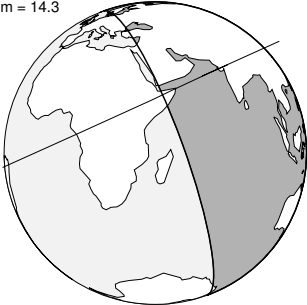
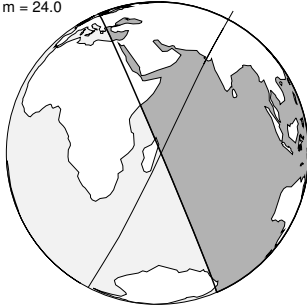
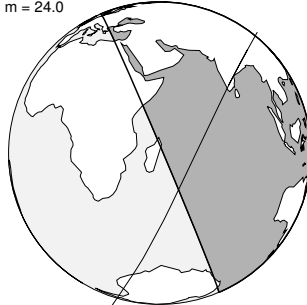
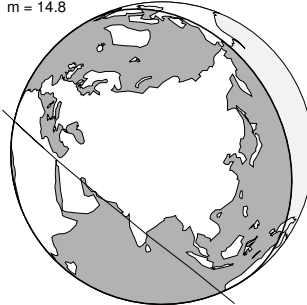
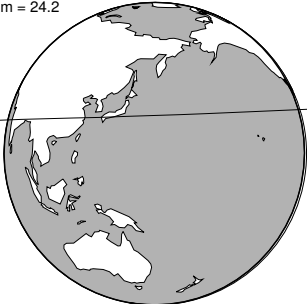
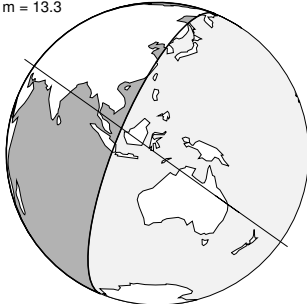
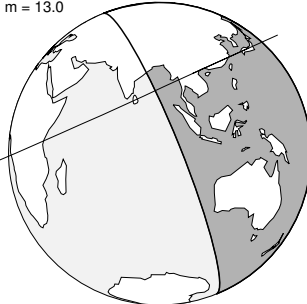
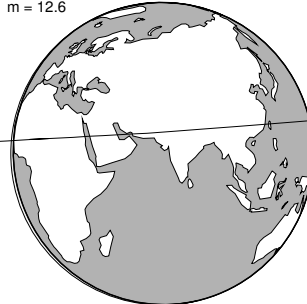
# Region 6

<p><b>2019 oct 14 23h 0.7m</b> A19_10026 76 Freia TYC 0637-01225-1 Diam = 190.0 m = 11.6 m = 12.4</p>  <p>Dur = 16.7s Dmag = 1.2 Sun: 165° Moon: 5°</p>	<p><b>2019 oct 15 20h27.1m</b> A19_10145 1330 Spiridonia HIP 13316 Diam = 58.0 m = 7.8 m = 15.2</p>  <p>Dur = 4.3s Dmag = 7.4 Sun: 154° Moon: 15°</p>	<p><b>2019 oct 16 14h51.7m</b> A19_10011 26 Proserpina UCAC5 507-002956 Diam = 98.7 m = 12.1 m = 11.5</p>  <p>Dur = 7.8s Dmag = 0.5 Sun: 169° Moon: 20°</p>	<p><b>2019 oct 20 13h36.0m</b> A19_10079 410 Chloris TYC 6872-00287-1 Diam = 128.0 m = 10.8 m = 12.9</p>  <p>Dur = 4.5s Dmag = 2.3 Sun: 75° Moon: 174°</p>
<p><b>2019 oct 21 11h49.1m</b> P19_10001 Jupiter HIP 84936 Diam = 133542.0 m = 8.8 m = -1.9</p>  <p>Dur = 4638.7s Dmag = 0.0 Sun: 53° Moon: 144°</p>	<p><b>2019 oct 22 17h52.6m</b> A19_10012 29 Amphitrite PPMX 6813677 Diam = 219.0 m = 12.5 m = 8.9</p>  <p>Dur = 22.3s Dmag = 0.0 Sun: 167° Moon: 117°</p>	<p><b>2019 oct 23 19h12.9m</b> A19_10053 204 Kallisto TYC 0664-00022-1 Diam = 50.8 m = 11.1 m = 13.6</p>  <p>Dur = 4.3s Dmag = 2.6 Sun: 151° Moon: 92°</p>	<p><b>2019 oct 24 16h 7.5m</b> A19_10116 683 Lanzia TYC 5154-02168-1 Diam = 116.0 m = 11.5 m = 14.1</p>  <p>Dur = 6.8s Dmag = 2.7 Sun: 88° Moon: 132°</p>
<p><b>2019 oct 31 14h53.6m</b> A19_10120 733 Moccia TYC 2858-01597-1 Diam = 92.0 m = 12.3 m = 14.4</p>  <p>Dur = 6.5s Dmag = 2.3 Sun: 149° Moon: 141°</p>	<p><b>2019 oct 31 20h38.8m</b> A19_10108 598 Octavia UCAC5 555-043878 Diam = 74.7 m = 11.2 m = 14.6</p>  <p>Dur = 4.1s Dmag = 3.4 Sun: 85° Moon: 133°</p>	<p><b>2019 nov 1 19h13.7m</b> A19_11031 97 Klotho UCAC5 461-007976 Diam = 87.1 m = 12.1 m = 10.3</p>  <p>Dur = 17.2s Dmag = 0.2 Sun: 139° Moon: 148°</p>	<p><b>2019 nov 4 17h37.5m</b> A19_11137 2014TW85 TYC 1237-00637-1 Diam = 302.0 m = 9.9 m = 22.0</p>  <p>Dur = 12.1s Dmag = 12.1 Sun: 169° Moon: 97°</p>
<p><b>2019 nov 8 14h42.9m</b> A19_11123 1042 Amazone UCAC5 282-201751 Diam = 76.7 m = 11.9 m = 15.2</p>  <p>Dur = 4.5s Dmag = 3.4 Sun: 97° Moon: 40°</p>	<p><b>2019 nov 9 16h 0.8m</b> A19_11007 15 Eunomia UCAC5 426-122701 Diam = 272.0 m = 12.4 m = 9.6</p>  <p>Dur = 16.4s Dmag = 0.1 Sun: 92° Moon: 57°</p>	<p><b>2019 nov 14 14h 0.8m</b> A19_11043 119 Althaea HIP 20205 Diam = 60.7 m = 3.8 m = 11.6</p>  <p>Dur = 6.0s Dmag = 7.8 Sun: 164° Moon: 10°</p>	<p><b>2019 nov 17 21h12.3m</b> A19_11111 734 Benda TYC 2451-01895-1 Diam = 78.6 m = 11.6 m = 14.5</p>  <p>Dur = 27.0s Dmag = 2.9 Sun: 128° Moon: 14°</p>



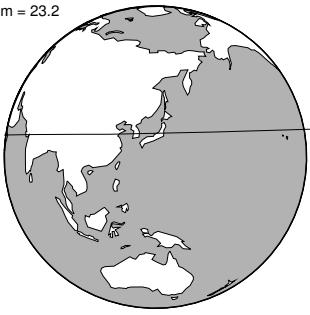
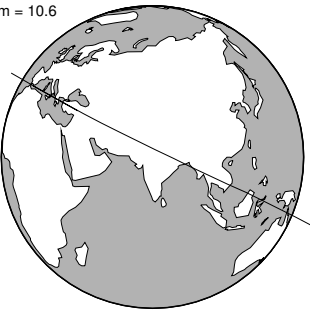
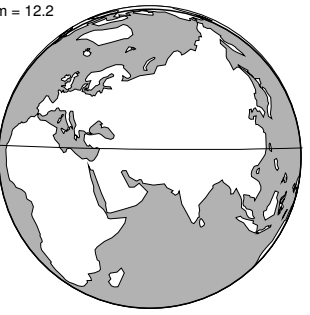


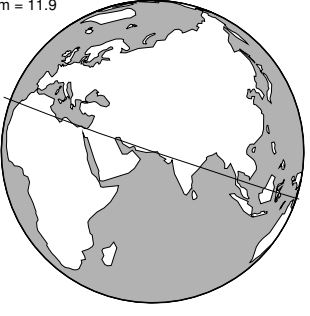
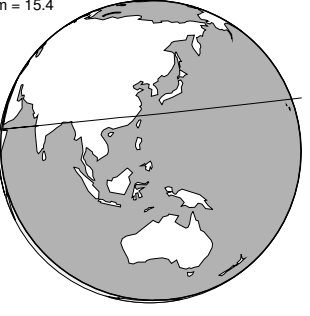
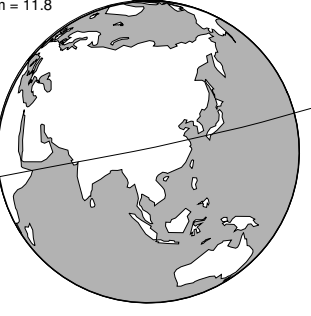

# Occultations by major and minor planets – 2019

# Region 6

<p><b>2019 nov 18 16h14.3m</b> A19_11050 140 Siwa UCAC5 550-011799 Diam = 114.0 m = 11.9 m = 12.8</p>  <p>Dur = 8.9s Dmag = 1.2 Sun: 159° Moon: 54°</p>	<p><b>2019 nov 18 21h 4.7m</b> A19_11066 329 Svea UCAC5 451-040423 Diam = 80.5 m = 12.2 m = 14.2</p>  <p>Dur = 10.5s Dmag = 2.1 Sun: 112° Moon: 25°</p>	<p><b>2019 nov 21 19h56.6m</b> A19_11086 436 Patricia TYC 3332-02053-1 Diam = 63.0 m = 10.4 m = 14.4</p>  <p>Dur = 5.0s Dmag = 4.1 Sun: 151° Moon: 101°</p>	<p><b>2019 nov 27 22h24.6m</b> A19_11038 105 Artemis TYC 5396-00410-1 Diam = 123.0 m = 11.2 m = 13.2</p>  <p>Dur = 12.8s Dmag = 2.2 Sun: 124° Moon: 138°</p>
<p><b>2019 nov 28 14h34.5m</b> A19_11010 28 Bellona UCAC5 495-011353 Diam = 126.0 m = 12.4 m = 10.6</p>  <p>Dur = 13.3s Dmag = 0.2 Sun: 159° Moon: 163°</p>	<p><b>2019 nov 28 17h33.3m</b> A19_11042 118 Peitho TYC 2452-02032-1 Diam = 45.7 m = 12.1 m = 12.1</p>  <p>Dur = 10.4s Dmag = 0.8 Sun: 136° Moon: 161°</p>	<p><b>2019 nov 29 20h 5.4m</b> A19_11099 583 Klotilde TYC 1845-02562-1 Diam = 86.0 m = 11.3 m = 13.2</p>  <p>Dur = 6.9s Dmag = 2.1 Sun: 169° Moon: 151°</p>	<p><b>2019 dec 1 0h35.6m</b> A19_12122 691 Lehigh TYC 1931-01605-1 Diam = 92.6 m = 11.1 m = 14.1</p>  <p>Dur = 15.4s Dmag = 3.1 Sun: 128° Moon: 177°</p>
<p><b>2019 dec 1 14h30.3m</b> A19_12024 82 Alkmena UCAC5 381-160582 Diam = 63.6 m = 12.0 m = 14.3</p>  <p>Dur = 3.2s Dmag = 2.4 Sun: 79° Moon: 19°</p>	<p><b>2019 dec 3 14h55.6m</b> A19_12161 49673 1999RA215 UCAC5 359-193870 Diam = 120.2 m = 12.1 m = 24.0</p>  <p>Dur = 17.4s Dmag = 11.8 Sun: 88° Moon: 9°</p>	<p><b>2019 dec 3 14h56.4m</b> B19_12004 49673 1999RA215 PPMX 11894601 Diam = 120.2 m = 12.6 m = 24.0</p>  <p>Dur = 17.4s Dmag = 11.3 Sun: 88° Moon: 9°</p>	<p><b>2019 dec 5 20h21.1m</b> A19_12149 1390 Abastumani UCAC5 686-045133 Diam = 104.0 m = 11.1 m = 14.8</p>  <p>Dur = 7.9s Dmag = 3.7 Sun: 143° Moon: 102°</p>
<p><b>2019 dec 10 14h14.5m</b> A19_12164 2000YE2 TYC 1311-03164-1 Diam = 87.1 m = 9.4 m = 24.2</p>  <p>Dur = 3.5s Dmag = 14.9 Sun: 170° Moon: 29°</p>	<p><b>2019 dec 12 22h46.6m</b> A19_12068 324 Bamberg UCAC5 417-052834 Diam = 227.6 m = 8.5 m = 13.3</p>  <p>Dur = 11.0s Dmag = 4.8 Sun: 73° Moon: 97°</p>	<p><b>2019 dec 13 11h41.0m</b> A19_12065 287 Nephthys TYC 5826-00398-1 Diam = 70.1 m = 10.5 m = 13.0</p>  <p>Dur = 3.2s Dmag = 2.6 Sun: 81° Moon: 114°</p>	<p><b>2019 dec 13 18h29.3m</b> A19_12042 140 Siwa UCAC5 548-009533 Diam = 114.0 m = 11.9 m = 12.6</p>  <p>Dur = 8.4s Dmag = 1.2 Sun: 168° Moon: 30°</p>

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<p><b>2019 dec 19 14h35.7m</b> B19_12007 1998UR43 UCAC5 590-018528 Diam = 91.2 m = 13.8 m = 23.2</p>  <p>Dur = 3.7s Dmag = 9.3 Sun: 174° Moon: 98°</p>	<p><b>2019 dec 21 19h 5.5m</b> A19_12106 563 Suleika UCAC5 577-023281 Diam = 54.8 m = 12.0 m = 10.6</p>  <p>Dur = 6.0s Dmag = 0.3 Sun: 176° Moon: 121°</p>	<p><b>2019 dec 22 19h56.3m</b> A19_12028 93 Minerva TYC 2431-00590-1 Diam = 170.8 m = 12.1 m = 12.2</p>  <p>Dur = 11.7s Dmag = 0.8 Sun: 167° Moon: 135°</p>	<p><b>2019 dec 22 20h21.3m</b> A19_12129 709 Fringilla PPMX 3113950 Diam = 99.6 m = 12.1 m = 13.5</p>  <p>Dur = 7.3s Dmag = 1.7 Sun: 159° Moon: 124°</p>
<p><b>2019 dec 23 21h10.5m</b> A19_12058 253 Mathilde TYC 0756-00277-1 Diam = 61.0 m = 9.5 m = 14.3</p>  <p>Dur = 4.5s Dmag = 4.9 Sun: 164° Moon: 139°</p>	<p><b>2019 dec 24 19h34.9m</b> A19_12075 347 Pariana UCAC5 578-021681 Diam = 96.4 m = 11.3 m = 11.9</p>  <p>Dur = 8.0s Dmag = 1.1 Sun: 177° Moon: 164°</p>	<p><b>2019 dec 27 14h57.7m</b> A19_12154 2393 Suzuki UCAC5 516-013807 Diam = 50.8 m = 12.2 m = 15.4</p>  <p>Dur = 3.6s Dmag = 3.2 Sun: 165° Moon: 151°</p>	<p><b>2019 dec 27 16h46.6m</b> A19_12035 123 Brunhild UCAC5 600-026039 Diam = 49.8 m = 12.0 m = 11.8</p>  <p>Dur = 4.9s Dmag = 0.7 Sun: 171° Moon: 156°</p>
<p><b>2019 dec 30 20h28.7m</b> A19_12010 35 Leukothea TYC 2397-01232-1 Diam = 108.0 m = 11.4 m = 13.3</p>  <p>Dur = 7.9s Dmag = 2.1 Sun: 158° Moon: 108°</p>			