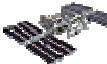
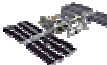


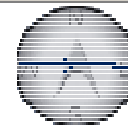
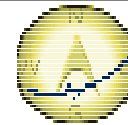












| Time | Object (Link) | Event |
|---------------------------|---|--|
| | Observer Site | User Site, Czech Republic WGS84: Lon: +15d09m21.5s Lat: +50d43m28.1s Alt: 554m All times in CET or CEST (during summer) |
| 21h30m06.59s |  ISS | Close to Mars. Separation=0.180° Position Angle=133.1° Angular diameter=23.1" size=73.0m x 44.5m x 27.5m Satellite at Azimuth=252.4° WSW Altitude= 23.0° Distance=800.3 km Magnitude=-1.9mag In a clock-face concept, the satellite will seem to move toward 11:49 Angular Velocity=15.6'/s Centerline , closest point → Map : Longitude= 15°09'56" E Latitude=+50°42'09" (WGS84) Distance=2.53 km Azimuth=164.6° SSE Path direction= 74.6° ENE ground speed=9.362 km/s width=0.0 km max. duration=0.0 s Sun elevation=-3° Elongation from Sun=64° |
| 21h31m46s |  ISS | Appears 21h26m51s 0.5mag az:253.7° WSW horizon Culmination 21h31m46s -4.4mag az:165.4° SSE h:84.3° distance: 354.9km height above Earth: 353.8km elevation of sun: -3° Disappears 21h36m43s -0.8mag az: 77.3° ENE horizon |
| 23h07m11s |  ISS | Appears 23h02m15s 0.6mag az:276.9° W horizon Culmination 23h07m11s -4.1mag az: 5.2° N h:73.3° distance: 369.7km height above Earth: 355.5km elevation of sun: -12° Disappears 23h10m57s -1.3mag az: 92.4° E h:5.3° |
| 23h07m46.14s |  ISS | Close to Deneb, Alp Cyg (SAO 49941, HIP102098 HD197345), Magnitude=1.2mag. Separation=0.920° Position Angle=55.6° Angular diameter=41.3" size=73.0m x 44.5m x 27.5m Satellite at Azimuth= 73.2° ENE Altitude= 51.1° Distance=448.8 km Magnitude=-4.0mag In a clock-face concept, the satellite will seem to move toward 5:08 Angular Velocity=47.4'/s Centerline , closest point → Map : Longitude= 15°09'53" E Latitude=+50°47'31" (WGS84) Distance=7.53 km Azimuth= 4.7° N Path direction= 94.9° E ground speed=7.532 km/s Sun elevation=-12° Elongation from Sun=106° |
| Friday 2 July 2010 | | |








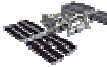

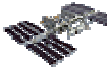

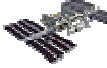
| Time | Object (Link) | Event |
|-----------|---|--|
| 0h42m28s |  ISS | <p>Appears 0h37m35s 0.1mag az:285.0° WNW horizon</p> <p>Culmination 0h42m28s -4.2mag az:204.5° SSW h:45.7° distance: 485.5km height above Earth: 356.3km elevation of sun: -16°</p> <p>Disappears 0h42m29s -4.2mag az:202.9° SSW h:45.7°</p>  |
| 21h58m16s |  ISS | <p>Appears 21h53m21s 0.8mag az:267.8° W horizon</p> <p>Culmination 21h58m16s -4.0mag az:355.9° N h:72.1° distance: 370.7km height above Earth: 354.3km elevation of sun: -6°</p> <p>Disappears 22h03m14s -0.8mag az: 84.0° E horizon</p>  |
| 23h33m40s |  ISS | <p>Appears 23h28m44s 0.6mag az:283.1° WNW horizon</p> <p>Culmination 23h33m40s -4.6mag az:195.6° SSW h:80.5° distance: 359.6km height above Earth: 355.5km elevation of sun: -14°</p> <p>Disappears 23h35m40s -2.7mag az:109.8° ESE h:18.6°</p>  |

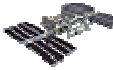

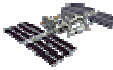

Saturday 3 July 2010

| Time | Object (Link) | Event |
|-----------|---|--|
| 1h07m13s |  ISS | <p>Appears 1h04m06s -0.1mag az:282.9° WNW horizon</p> <p>Disappears 1h07m13s -2.2mag az:254.3° WSW h:15.1°</p>  |
| 22h24m55s |  ISS | <p>Appears 22h19m59s 1.0mag az:277.8° W horizon</p> <p>Culmination 22h24m55s -4.1mag az: 6.4° N h:75.0° distance: 366.6km height above Earth: 355.2km elevation of sun: -8°</p> <p>Disappears 22h29m04s -1.2mag az: 94.3° E h:3.5°</p>  |

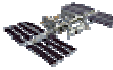
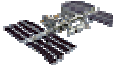

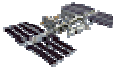

Sunday 4 July 2010

| Time | Object (Link) | Event |
|----------|---|--|
| 0h00m11s |  ISS | <p>Appears 23h55m19s 0.4mag az:285.0° WNW horizon</p> <p>Culmination 0h00m11s -4.0mag az:205.6° SSW h:41.9° distance: 515.8km height above Earth: 355.9km elevation of sun: -15°</p> <p>Disappears 0h00m37s -4.0mag az:179.0° S h:38.5°</p>  |

| 19h39m56.97s |  ISS | <p>Close to Saturn. Separation=0.363° Position Angle=337.4° Angular diameter=34.1" size=73.0m x 44.5m x 27.5m Satellite at Azimuth=209.9° SSW Altitude= 38.4° Distance=544.0 km Magnitude=-3.0mag In a clock-face concept, the satellite will seem to move toward 10:22 Angular Velocity=37.9'/s</p> <p><u>Centerline</u>, <u>closest point</u> →<u>Map</u>: Longitude= 15°08'01" E Latitude=+50°45'35" (WGS84) Distance=4.23 km Azimuth=338.1° NNW Path direction= 64.2° ENE ground speed=8.023 km/s width=0.1 km max. duration=0.0 s Sun elevation=+12° Elongation from Sun=76° Orbit source: NASA predicted orbit</p> |
|---------------------------|---|---|
| 21h16m02s |  ISS | <p>Appears 21h11m06s 1.3mag az:269.1° W horizon Culmination 21h16m02s -3.9mag az:357.1° N h:71.2° distance: 372.4km height above Earth: 354.2km elevation of sun: 0° Disappears 21h20m59s -0.9mag az: 85.0° E horizon</p>  |
| 22h51m25s |  ISS | <p>Appears 22h46m29s 1.0mag az:283.5° WNW horizon Culmination 22h51m25s -4.5mag az:196.7° SSW h:75.9° distance: 365.1km height above Earth: 355.2km elevation of sun: -11° Disappears 22h53m58s -2.3mag az:111.7° ESE h:13.0°</p>  |
| Monday 5 July 2010 | | |
| Time | Object (Link) | Event |
| 0h25m32s |  ISS | <p>Appears 0h21m53s 0.2mag az:282.4° WNW horizon Disappears 0h25m32s -2.4mag az:240.5° WSW h:17.2°</p>  |
| 20h05m47.28s |  ISS | <p>Close to Venus. Separation=0.557° Position Angle=308.0° Angular diameter=27.3" size=73.0m x 44.5m x 27.5m Satellite at Azimuth=258.7° WSW Altitude= 28.6° Distance=679.7 km Magnitude=-1.3mag In a clock-face concept, the satellite will seem to move toward 0:04 Angular Velocity=20.8'/s</p> <p><u>Centerline</u>, <u>closest point</u> →<u>Map</u>: Longitude= 15°08'09" E Latitude=+50°46'57" (WGS84) Distance=6.60 km Azimuth=347.6° NNW Path direction= 77.6° ENE ground speed=8.271 km/s width=0.1 km max. duration=0.0 s</p> |

| | | | |
|-----------|---|---|---|
| | | Sun elevation=+8° Elongation from Sun=41° Orbit source: NASA predicted orbit | |
| 21h42m33s |  ISS | Appears 21h37m37s 1.5mag az:278.7° W horizon Culmination 21h42m33s -4.1mag az: 7.6° N h:76.8° distance: 363.0km height above Earth: 354.5km elevation of sun: -4° Disappears 21h47m21s -1.0mag az: 96.3° E h:0.9° |  |
| 23h17m47s |  ISS | Appears 23h12m57s 0.8mag az:284.9° WNW horizon Culmination 23h17m47s -3.8mag az:206.7° SSW h:38.5° distance: 548.0km height above Earth: 355.0km elevation of sun: -13° Disappears 23h18m55s -3.4mag az:157.4° SSE h:26.0° |  |

Tuesday 6 July 2010

| Time | Object (Link) | Event | |
|--------------|---|--|---|
| 18h57m32.79s |  ISS | <p>Close to Mars. Separation=0.359° Position Angle=155.3° Angular diameter=35.2" size=73.0m x 44.5m x 27.5m Satellite at Azimuth=215.2° SW Altitude= 40.1° Distance=526.7 km Magnitude=-2.7mag In a clock-face concept, the satellite will seem to move toward 10:33 Angular Velocity=38.5'/s</p> <p><u>Centerline</u>, <u>closest point</u> <u>→Map</u>: Longitude= 15°10'34" E Latitude=+50°41'30" (WGS84) Distance=3.90 km Azimuth=158.8° SSE Path direction= 69.3° ENE ground speed=7.301 km/s width=0.0 km max. duration=0.0 s Sun elevation=+18° Elongation from Sun=62° Orbit source: NASA predicted orbit</p> | |
| 22h09m01s |  ISS | Appears 22h04m05s 1.5mag az:283.9° WNW horizon Culmination 22h09m01s -4.4mag az:197.9° SSW h:71.3° distance: 372.6km height above Earth: 354.5km elevation of sun: -7° Disappears 22h12m21s -1.8mag az:113.1° ESE h:7.5° |  |
| 23h43m55s |  ISS | Appears 23h39m30s 0.4mag az:281.7° WNW horizon Disappears 23h43m55s -2.6mag az:218.4° SW h:17.9° |  |