

Remark: The start time for calculation has been put back in order to show the satellite prior to the event.

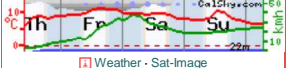
Select start of calculation:

Date: 25 July 2013
 Time: 00:04:15.74 in TDT  Now
 Select duration: 10 Minutes
 Select interval: 10 Seconds 


geipan
ST Malo, France 

Easting: -2.0256
 Northing: 48.6493
 Time zone: CET/CEST

Astronomer 



Weather · Sat-Image
 Local Sponsors: Your name?

Name: **Yaogan 9A**
 Launched: 05 Mar 2010
 Dimensions: 3 m x 2 m, cylindrical
 Brightness: 4.5 mag (at 1000 km, 50% illuminated)
 3.8 mag (at perigee, full illumination)
 Mean magnitude estimated from object size
 RCS: 2.9m² (Radar cross section)
 USSPACECOM Nr: 36413 Internat. Designator: 2010-009A
 Orbit: 1001 x 1178 km, 107min Inclination: 63.4°
 Age Elements:  0 days

- Satellite Menu**
- Orbit History/Zoom
 - Sighting Opportunities
 - Data & view of the Earth
 - Finder Chart
 - Ground Track Map
 - Transit Centerline
 - Orbit Elements (TLE)

See more/less data and options by changing the user level!

Simulation

800 Output size

Grid

Main lines

Constellations

Boundaries

no line of Horizon

Negate colors

draw no symbols

Realism (e.g., show Planets/Moons)

Telescope

Vertex is up

Telrad

Left-right mirrored image

Inverted image

Digitized Sky Survey photographic plates (supports only equatorial view)

Auto Limiting Magnitude

Pointing

Whole Sky

Center Satellite

Sky Field of View

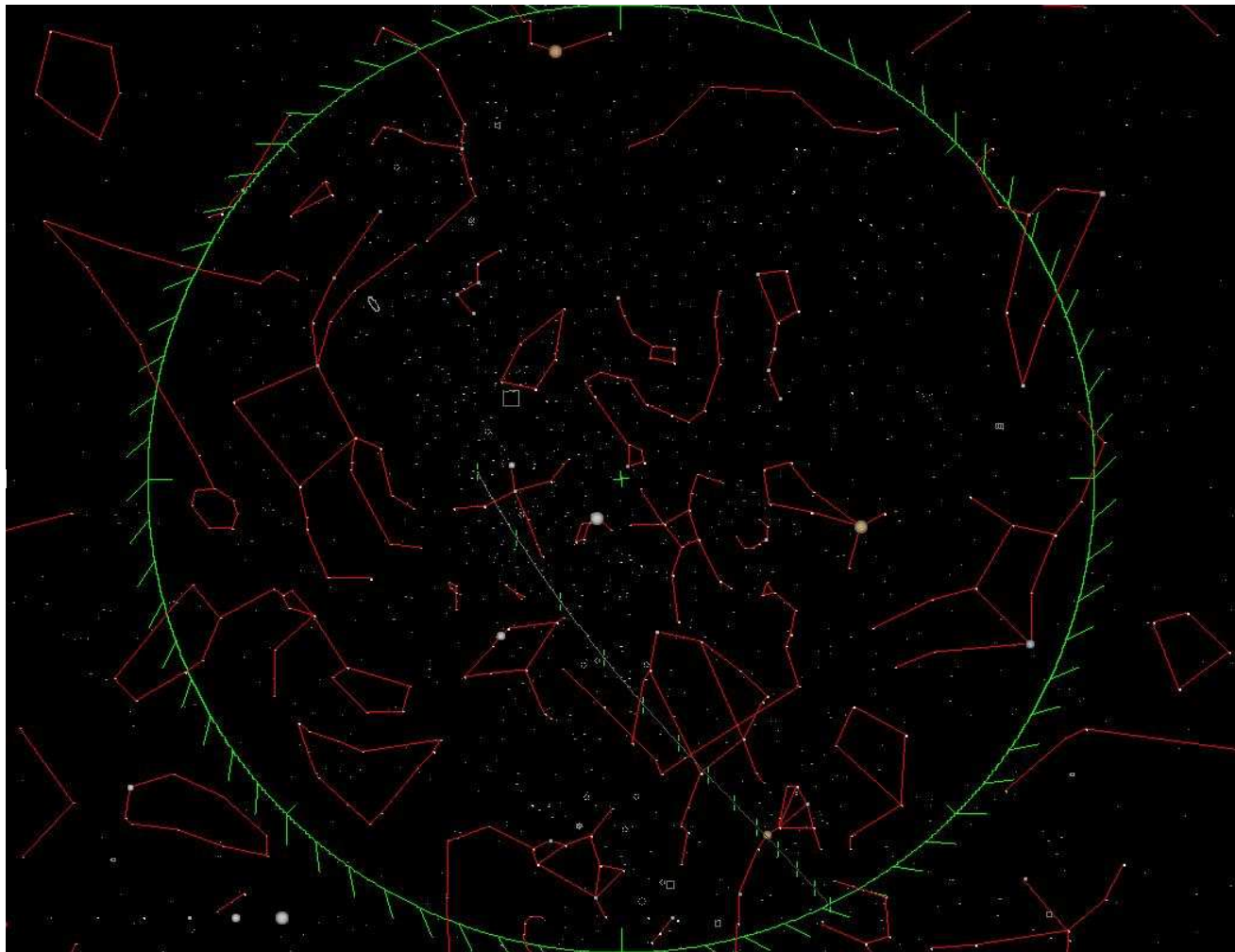
Zenith Direction

Object Name, NGC M PGC Cr Tr B Sh2 PK Abell Mk ACO SDSS 2QZ / SAO HIP TYC HD FK5 XZ GI Struve

18:07:18.941 Right Ascension

48:38:57.613 Declination

Move the mouse pointer to reveal object names. Click a bright star to see its heliacal rising and setting date below



Stars as seen from the observer.
Visual limiting magnitude: 5.5 mag

Time:

Thursday, 25 July 2013, 00h 04m 15.75s
 JD: **2456498.4196267** TDT: 2456498.4204036 deltaT: 67.13 sec leap seconds: 35 sec
 Apparent sidereal time: Local: 18h 07m 18.941s Greenwich: 18h 15m 25.103s
 Mean sidereal time: Local: 18h 07m 18.132s Greenwich: 18h 15m 24.294s
 Local solar time: Mean: 21h 56m 09.582s True: 21h 49m 39.368s
 Equation of Time: - 6m 30.21s
 (Times in **CEST, UTC+02:00**, topocentric data for **ST Malo, France**)

Map Center:

Azimuth direction: 83.55° E (East)
 Altitude: 89.94°
 Right Ascension: 18h 07m 42.242s Apparent coordinates
 Declination: + 48° 39' 23.54" Apparent coordinates

Right Ascension: 18h 07m 18.941s J2000
 Declination: + 48° 38' 57.61" J2000

Elongation from Sun center: 105.77°
 Elongation from Moon center: 76.96°

Rises: --h --m (Azimuth: 338.7° NNW)
Transit: 0h 00m 43s on following day (Altitude: +89.99°)
Sets: --h --m (Azimuth: 338.7° NNW)

Opposition in R.A.: 23. June 2013 3h 33m CEST Elongation: 107.9°
Conjunction in R.A.: 23. December 2013 11h 32m CET Elongation: 72.1°

Sun:

Altitude: -15.7°
 Azimuth: 328.2°

Moon:

Altitude: 13.0°
 Azimuth: 116.8°
 Phase, illum. fraction: 93.1% (geocentric)

Print E-mail


Positions are shown in **topocentric (for objects within the solar system, geocentric otherwise) astrometric (airfree) equatorial coordinates at equinox J2000.0 (Right Ascension/Declination) and epoch of date given**. Stereoscopic projection is used for the star chart. If you zoom into a field of view in order of minutes of arc, you will get a fantastic photographic background image from the Digitized Sky Survey (DSS) from the Mount Palomar observatory.

Pointing the mouse to targets reveals their names - the higher the selected user level, the more features are labeled. The highest level "Astronomer" displays all object names. You can switch


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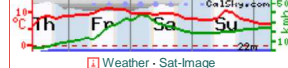
Select start of calculation:

Date: 25 July 2013
 Time: 00:04:21 in TDT  Now
 Select duration: 10 Minutes
 Select interval: 10 Seconds 


geipan
ST Malo, France 

Easting: -2.0256
 Northing: 48.6493
 Time zone: CET/CEST

Astronomer 



Weather · Sat-Image
 Local Sponsors: Your name?

Name: **Yaogan 9B**
 Launched: 05 Mar 2010
 Dimensions: 3 m x 2 m, cylindrical
 Brightness: 4.5 mag (at 1000 km, 50% illuminated)
 3.8 mag (at perigee, full illumination)
 Mean magnitude estimated from object size
 RCS: 3m² (Radar cross section)
 USSPACECOM Nr: 36414 Internat. Designator: 2010-009B
 Orbit: 1001 x 1178 km, 107min Inclination: 63.4°
 Age Elements:  0.2 days

Satellite Menu

- Orbit History/Zoom
- Sighting Opportunities
- Data & view of the Earth
- Finder Chart
- Ground Track Map
- Transit Centerline
- Orbit Elements (TLE)

See more/less data and options by changing the user level!

Simulation

800 Output size

Grid

Main lines

Constellations

Boundaries

no line of Horizon

Negate colors

draw no symbols

Realism (e.g., show Planets/Moons)

Telescope

Vertex is up

Telrad

Left-right mirrored image

Inverted image

Digitized Sky Survey photographic plates (supports only equatorial view)

Auto Limiting Magnitude

Pointing

Whole Sky

Center Satellite


Sky Field of View

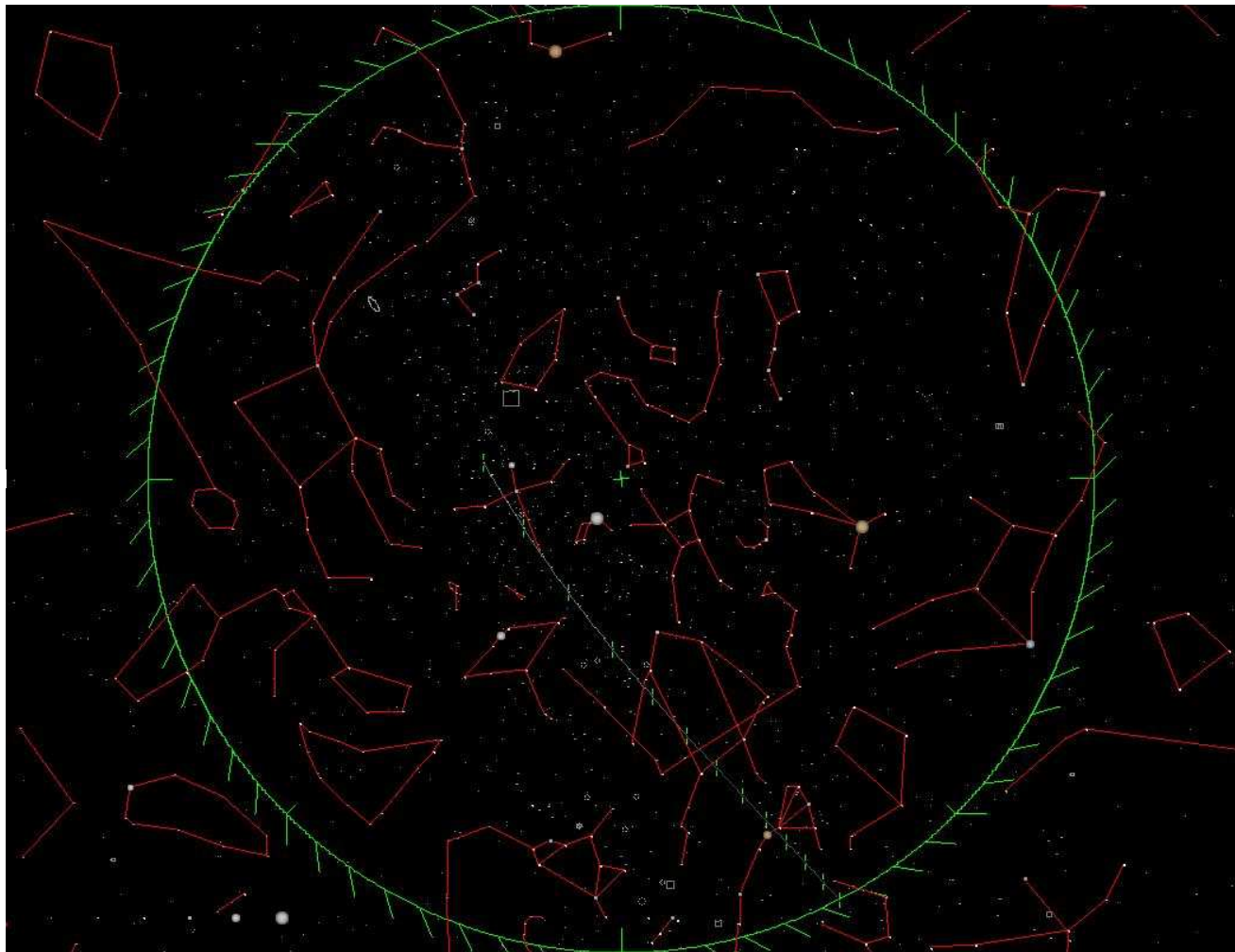
Zenith Direction

Object Name, NGC M PGC Cr Tr B Sh2 PK Abell Mk ACO SDSS 2QZ / SAO HIP TYC HD FK5 XZ GI Struve

18:07:24.34 Right Ascension

48:38:57.613 Declination





Stars as seen from the observer.
Visual limiting magnitude: 5.5 mag

Time:

Thursday, 25 July 2013, 00h 04m 21.13s
 JD: **2456498.4196890** TDT: 2456498.4204660 deltaT: 67.13 sec leap seconds: 35 sec
 Apparent sidereal time: Local: 18h 07m 24.340s Greenwich: 18h 15m 30.502s
 Mean sidereal time: Local: 18h 07m 23.531s Greenwich: 18h 15m 29.693s
 Local solar time: Mean: 21h 56m 14.967s True: 21h 49m 44.753s
 Equation of Time: - 6m 30.21s
 (Times in **CEST, UTC+02:00**, topocentric data for **ST Malo, France**)

Map Center:

Azimuth direction: 83.53° E (East)
 Altitude: 89.94°
 Right Ascension: 18h 07m 47.642s Apparent coordinates
 Declination: + 48° 39' 23.65" Apparent coordinates

Right Ascension: 18h 07m 24.340s J2000
 Declination: + 48° 38' 57.61" J2000

Elongation from Sun center: 105.78°
 Elongation from Moon center: 76.94°

Rises: --h --m (Azimuth: 338.7° NNW)
Transit: 0h 00m 48s on following day (Altitude: +89.99°)
Sets: --h --m (Azimuth: 338.7° NNW)

Opposition in R.A.: 23. June 2013 4h 04m CEST Elongation: 107.9°
Conjunction in R.A.: 23. December 2013 12h 01m CET Elongation: 72.1°

Sun:

Altitude: -15.8°
 Azimuth: 328.2°

Moon:

Altitude: 13.0°
 Azimuth: 116.8°
 Phase, illum. fraction: 93.1% (geocentric)

Print E-mail

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→ Nightvision-Mode

→ E-mail & Alert Manager

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Select start of calculation:


Date: 25 July 2013

Time: 00 : 04 : 34 . 24 in TDT 


Select duration:

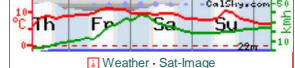
Select interval:




geipan
ST Malo, France 

Easting: -2.0256
 Northing: 48.6493
 Time zone: CET/CEST





Local Sponsors: Your name?

Name: **Yaogan 9C**
 Launched: 05 Mar 2010
 Dimensions: 3 m x 2 m, cylindrical
 Brightness: 4.5 mag (at 1000 km, 50% illuminated)
 3.7 mag (at perigee, full illumination)
 Mean magnitude estimated from object size
 RCS: 2.5m² (Radar cross section)
 USSPACECOM Nr: **36415** Internat. Designator: 2010-009C
 Orbit: 999.9 x 1179 km, 107min Inclination: 63.4°
 Age Elements:  0 days

Satellite Menu

- Orbit History/Zoom
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Telescope

Vertex is up

Telrad

Left-right mirrored image

Inverted image

Digitized Sky Survey photographic plates (supports only equatorial view)

Limiting Magnitude

Pointing


Field of View

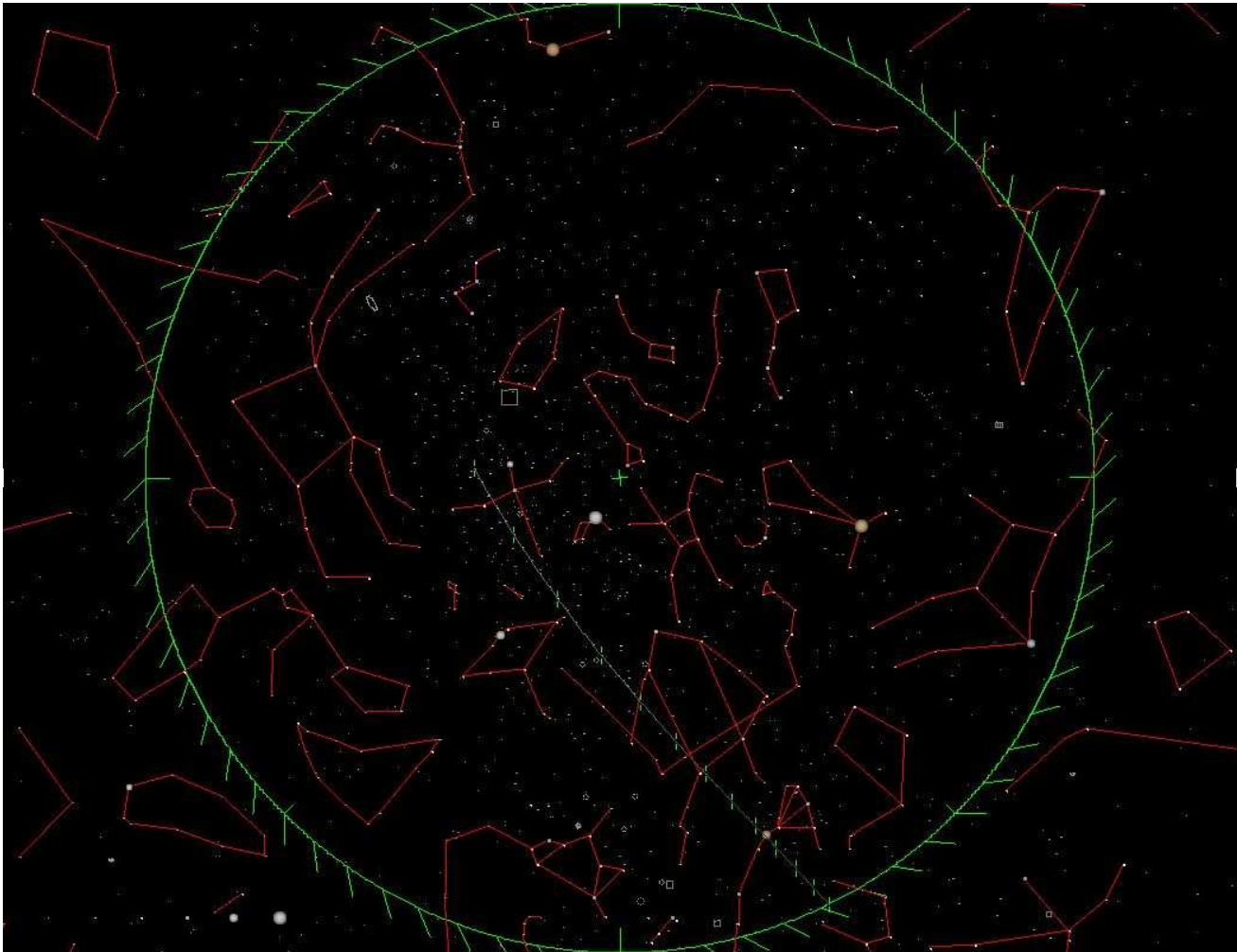
Direction

Object Name, NGC M PGC Cr Tr B Sh2
 PK Abell M6
 ACO SDSS 2QZ / SAO HIP TYC HD FK5 XZ GI Struve

Right Ascension

Declination





Stars as seen from the observer.
Visual limiting magnitude: 5.5 mag

Time:

Thursday, 25 July 2013, 00h 04m 34.25s
 JD: **2456498.4198408** TDT: 2456498.4206178 deltaT: 67.13 sec leap seconds: 35 sec
 Apparent sidereal time: Local: 18h 07m 37.492s Greenwich: 18h 15m 43.653s
 Mean sidereal time: Local: 18h 07m 36.683s Greenwich: 18h 15m 42.845s
 Local solar time: Mean: 21h 56m 28.082s True: 21h 49m 57.868s
 Equation of Time: - 6m 30.21s
 (Times in **CEST, UTC+02:00**, topocentric data for **ST Malo, France**)

Map Center:

Azimuth direction: 83.47° E (East)
 Altitude: 89.94°
 Right Ascension: 18h 08m 00.795s Apparent coordinates
 Declination: + 48° 39' 23.90" Apparent coordinates

Right Ascension: 18h 07m 37.492s J2000
 Declination: + 48° 38' 57.61" J2000

Elongation from Sun center: 105.80°
 Elongation from Moon center: 76.91°

Rises: --h --m (Azimuth: 338.7° NNW)
Transit: 0h 01m 02s on following day (Altitude: +89.99°)
Sets: --h --m (Azimuth: 338.7° NNW)

Opposition in R.A.: 23. June 2013 5h 20m CEST Elongation: 107.9°
Conjunction in R.A.: 23. December 2013 13h 13m CET Elongation: 72.1°

Sun:

Altitude: -15.8°
 Azimuth: 328.3°

Moon:

Altitude: 13.0°
 Azimuth: 116.8°
 Phase, illum. fraction: 93.1% (geocentric)

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