

Orbit calculations are based on the valid segment of 6 different orbital segments (orbital data above shown for the beginning of the segment containing the selected start time).

Simulation	Telesco	pe	Pointing Whole Sky			
800 Output size		Vertex is up				
Grid Grid		Telrad	Center	Satellite		
Main lines		Left-right mirrored image	45 deg	Field of View		
Constellations		Inverted image		Direction		
Boundaries		Digitized Sky		Object Name		
no line of Horizon	v	photographic plates		Cr Tr B Sh2		
Negate colors		(supports only equatorial view)		ACO SDSS		
draw no symbols	Auto	Limiting Magnitude		HIP TYC HD		
Realism (e.g., show Planets/Moons)				FK5 XZ GI Struve		
			1:17:35.388	Right Ascension		
			48:54:27.004	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: 7.5 mag

Time:

Sunday, 14 July 2013, 23h 45m 20s JD: **2456488.4064815** TDT: 2456488.4072584 deltaT: 67.13 sec Apparent sidereal time: Local: 17h 40m 00.698s Greenwich: 17h 17m 00.663s (Times in **CEST, UTC+02:00**, topocentric data for **toulouse, France**)

Map Center:

	Azimuth direction: Altitude:	39.43° 20.05°	NE (1	Northe	east)						
	Right Ascension: Declination:	1h 18m + 48°	25.405 58' 32.3	s Ap 10" Ap	pparent	t coord t coord	linates linates				
	Right Ascension: Declination:	1h 17m + 48°	35.388 54' 27.0	s J2 00" J2	2000 2000						
	Elongation from Sun center: 76.94° Elongation from Moon center: 135.59°										
	Rises:hm (Azimuth: 274.3° W) Transit: 7h 22m 30s on following day(Altitude: +86.17°) Sets:hm (Azimuth: 274.3° W)										
	Opposition in R.A. Conjunction in R.A.	:	14. Oct 11. Apr	tober ril 20	2013 013 (12h 08)h 27m	m CEST CEST	F Elong Elongat	gation: tion: 40	139.3° .7°	
Sur	1:										
	Altitude: Azimuth:	-18.1° 331.3°									
Mo	on:										
	Altitude: Azimuth: Phase, illum. fract	2.7° 258.3° tion:	37.2% (geocei	ntric)						

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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 the user level just next to the small Earth icon on top of each page.

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Software Version: 01 July 2013 17 Jul 2013, 11:31 UTC Database updated 28 min ago Current Users: 90, Runtime: 2.4s sponsors