

Many astronomy apps are available for the iPhone and iPad

Some help locate objects, check weather, align the telescope, alert to events and aurorae, identify craters and moons, find dark skies or even calculate values!



SkyWeek

Friday, Nov. 11



• Very low in the southwest, Saturn is falling ever farther away to the lower right of Venus at dusk. Far to the upper left of Venus, Mars is drawing closer toward it very, very gradually.

By about 8 p.m. now, Orion is clearing the eastern horizon (depending on how far east or west you live in your time zone). High above Orion shines orange Aldebaran.
Above Aldebaran is the little Pleiades cluster, the size of your fingertip at arm's length. Far left of the Pleiades shines bright Capella.

Saturday, Nov. 12



• The waxing gibbous Moon shines in the southeast this evening. Upper left of it by about 15° are the two or three leading stars of Aries. About the same distance lower left of the Moon is Menkar, Alpha Ceti, the only brightish star (magnitude 2.5) in Cetus's







Year

Month

SkyWeek November 11

Fri Nov 11, 2016 05:30:00 PM Current Location Venus Saturn SW Now

Min

Sec

Hour

Dav

11:27 AM

\$ 95% 💷 🤄

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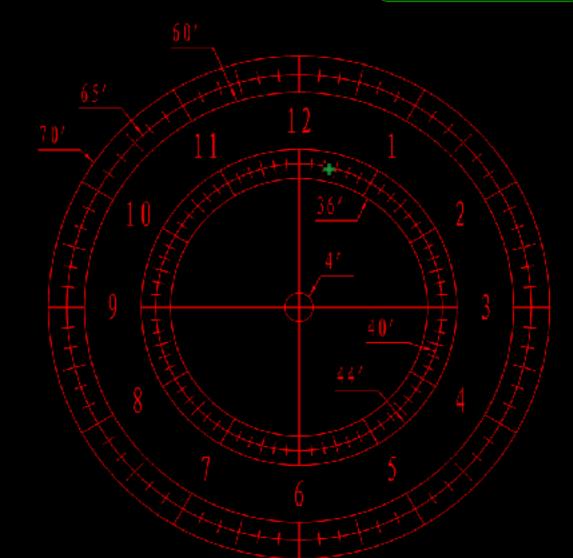
November 2, 2016

APOD





Local Time: 2016-11-07 11:27:42 Longitude: 079°45′51″ W Latitude: 43°27′01″ N Elevation: 0151 m Temperature: 11.2 °C Barometric Pressure: 100956 Pa Position of Polaris: 00h 24.7m Radius: 39.9 arcmin English/简体中文



M27: The Dumbbell Nebula



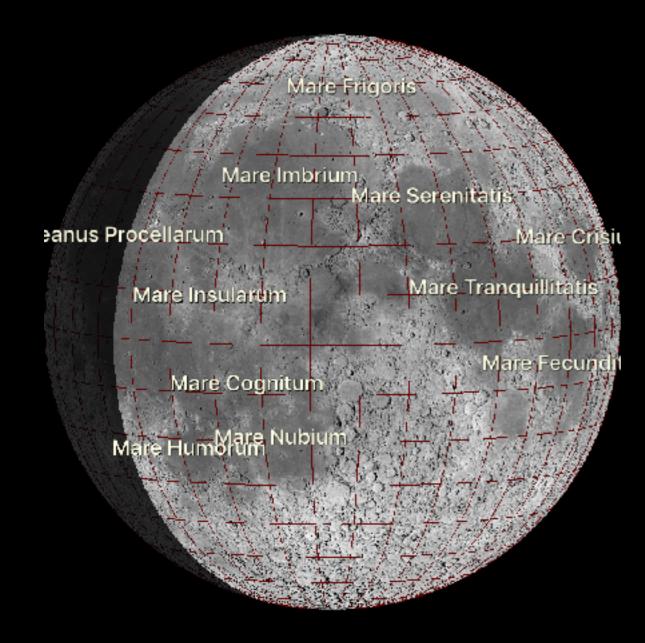
11:33 AM Nov 11, 2016, 11:27 AM



••••• ROGERS LTE

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Moon Atlas













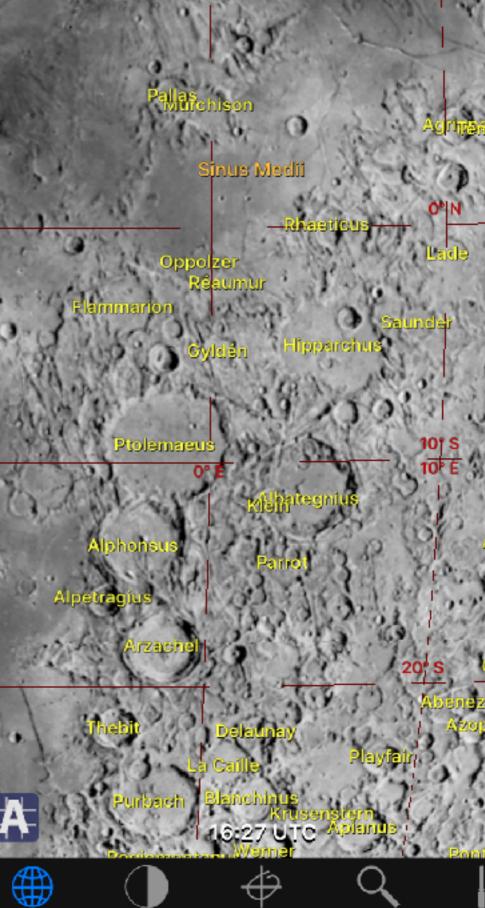
16:27 UTC







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11:33 AM

Nov 11, 2016, 11:27 AM

Phase

Libration Search Settings

94%

●●●○ ROGERS LTE

* 94% 💷 🕨

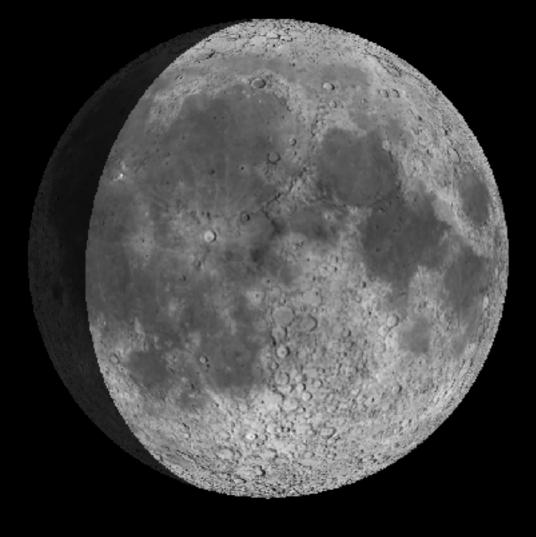
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11:34 AM

∦ 94% 💻 י

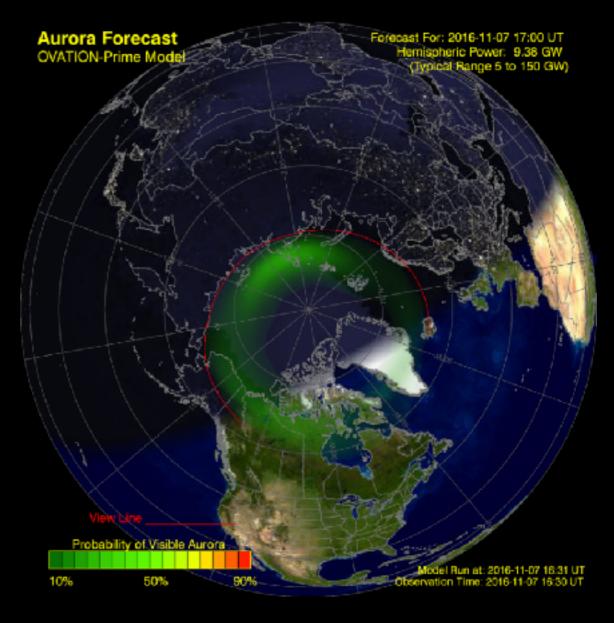
Close

Aurora Fcst



11:33 AM

Nov 11, 2016, 11:27 AM 16:27 UTC



RA: 00 h 36.7 m Dec: +00° 29.9' **Currently Below** Horizon

Phase: 87.9% (Waxing) Colongitude: 54.6° Angular Size: 32.50' Set: 03:08 Rise: 15:34

Distance: 361,255.1 km (224,473.5 miles)



Map

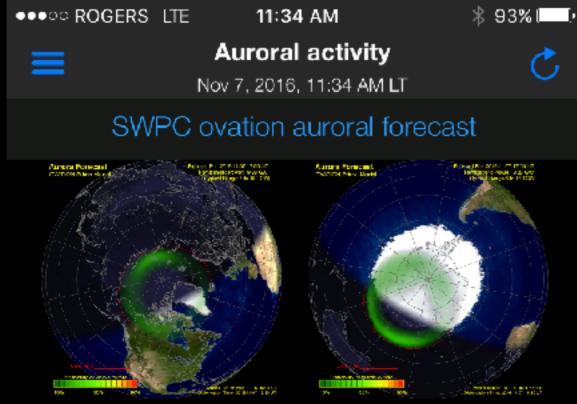


Phase

Libration

Search

Settings.



North

South

Geomagnetic activity probabilities

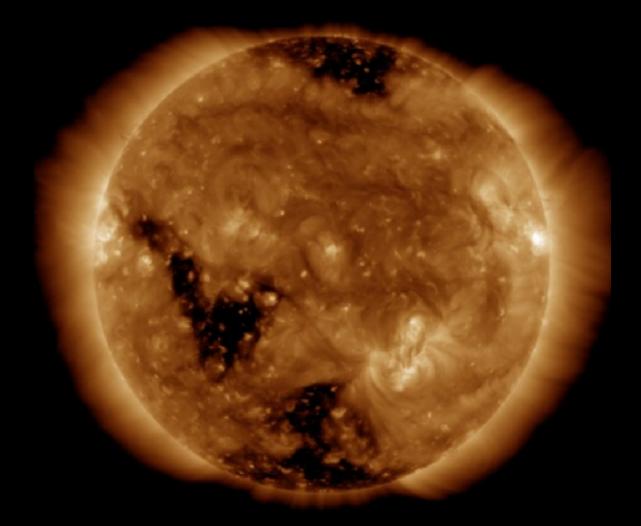
High Latitude	Mon, 07	Tue, 08	Wed, 09
Active	15	15	15
Minor storm	20	15	20
Major-severe storm	20	15	20
Middle Latitude	Mon, 07	Tue, 08	Wed, 09
Middle Latitude Active	Mon, 07 15	Tue, 08 25	Wed, 09 15

Auroral predictions

Predicted High Latitude Kp Index

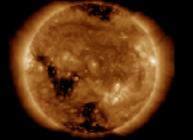
LT

●●●○○ ROGERS LTE	11:35 AM	∦ 93% ⊡ ∙
	Sun now	Ċ

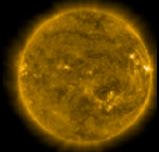


SDO/AIA 193 2018-11-07 16:26:30 UT

AIA 193







AIA 193

AIA 304

AIA 171



MoonPhase

Nov 11, 2016, 8:00 PM









Nov 11, 2016, 8:00 PM







Calendar

Settings

Location

Calendar

Settings

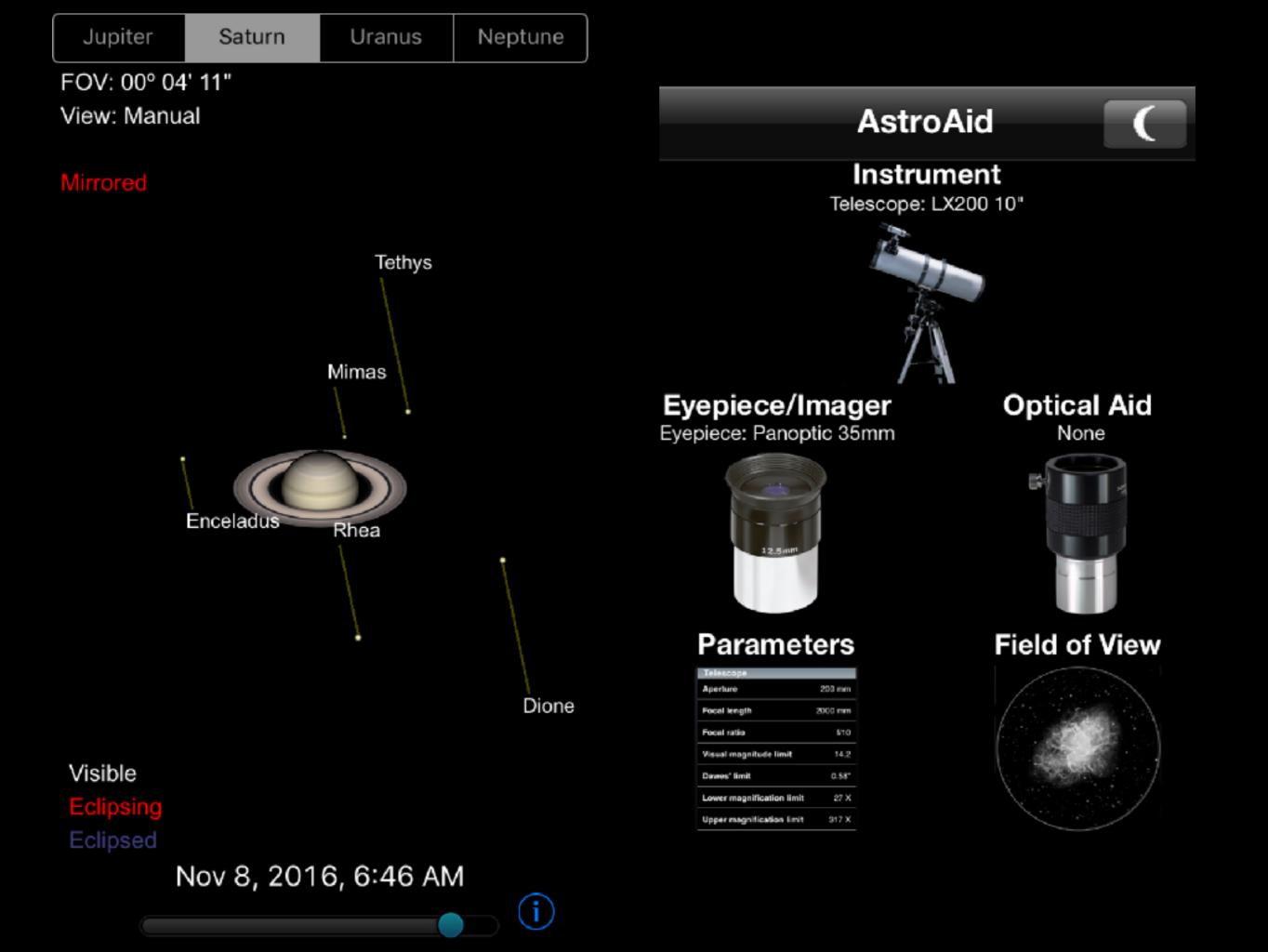
Location



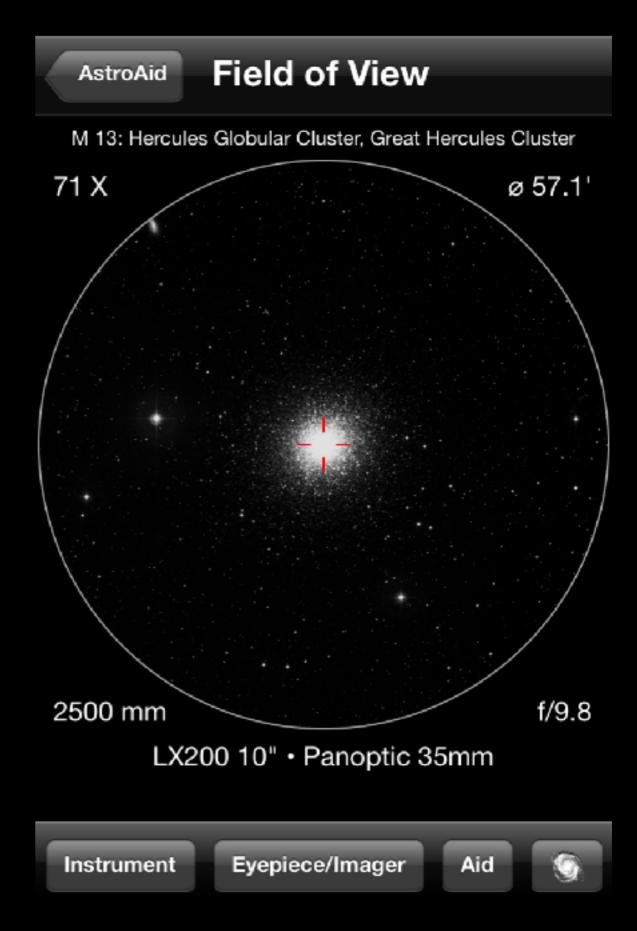
Jupiter	Saturn	Uranus	Neptune
FOV: 00° 08 View: Manua			
Mirrored	Gas (Giants	
Callisto		Ganyn	nede
Visible Eclipsing Eclipsed			

Nov 8, 2016, 1:09 AM

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AstroAid Parameters	
Optical Aid	
Focal length increase	n/a
Magnification	n/a
System	
Magnification	71 X
Actual field of view	57.1'
Exit pupil	3.6 mm
Actual focal length	2500 mm
Actual focal ratio	f/9.8
Depth of Focus (550nm)	260.0 µm
Instrument Eyepiece/Imager	Optical Aid



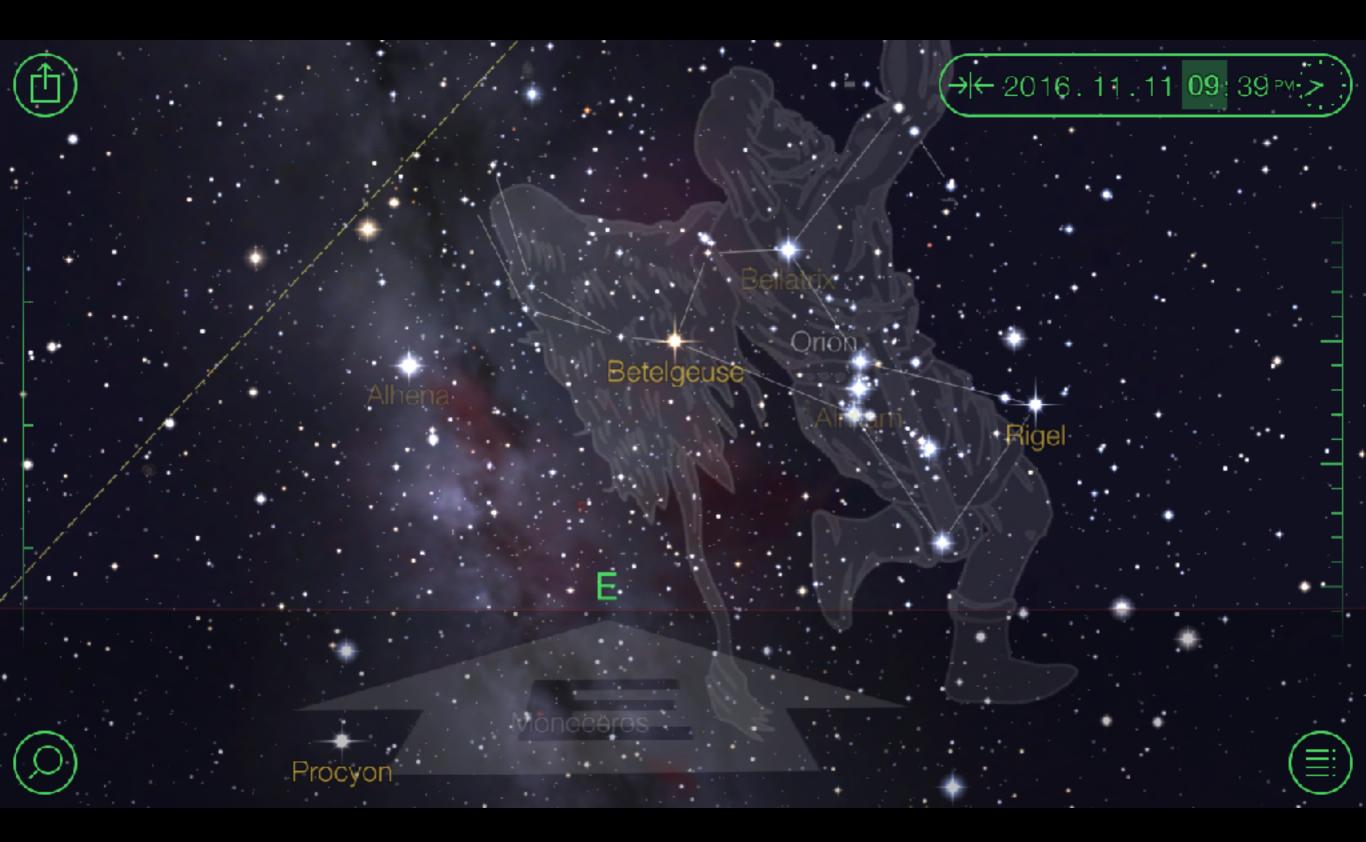
Spyglass

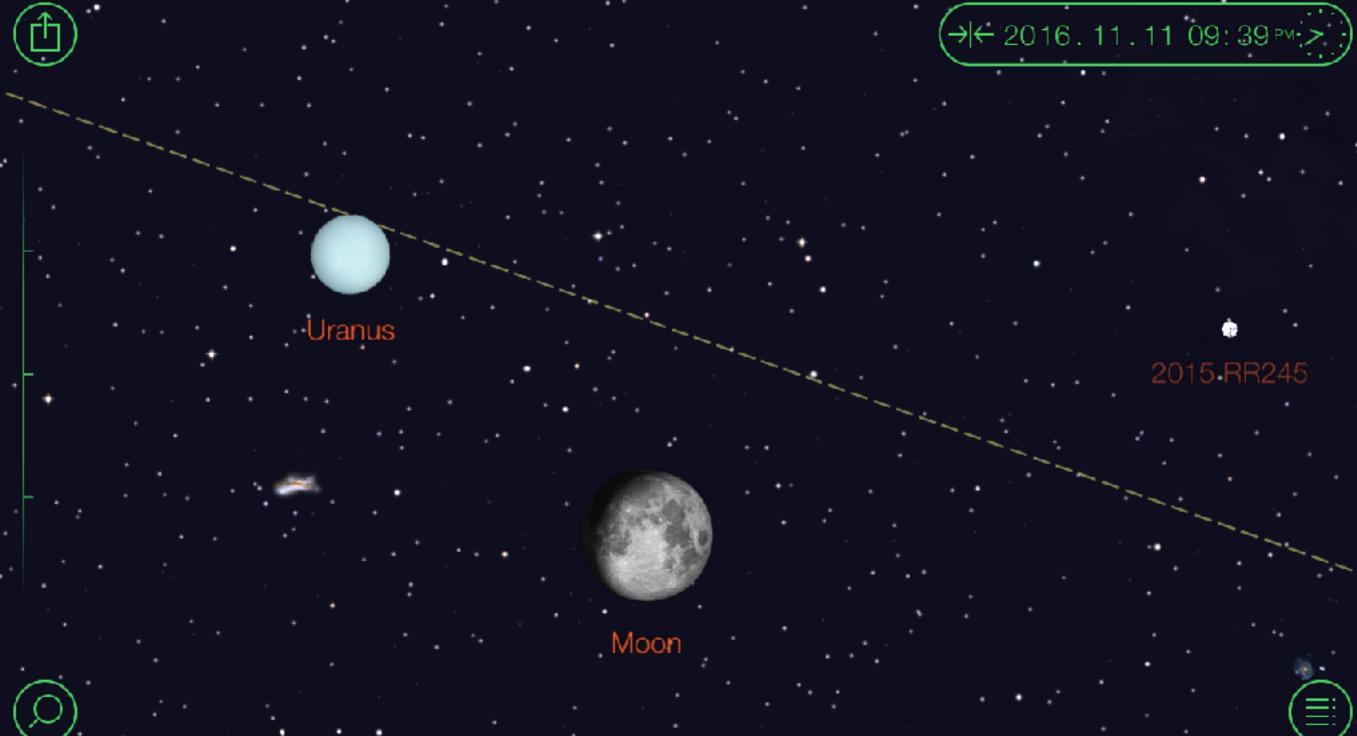
This is an augmented reality app that overlays the camera view with a compass and altimeter

I used it to determine whether I would be able to see Pluto from this location



Star Walk





Info

Search

Scope

Orbit

Time

tings

Compass





43°27'1" N 79°45'52" W 150 m Elevation

SkySafari + Capella Aldebaran Betelgeuse Rigel $\left(+ \right)$ Now Month Min Year Day Hour Sec

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< Settings	Equipment	Edit
100 mm Refract Aperture = 100.0 m		>
8" Dobsonian Aperture = 200.0 m	m, FL = 1200.0 mm	>
10" SCT Aperture = 254.0 m	m, FL = 2540.0 mm	>
	Add Telescope	
EYEPIECES		
10mm Plossl AFOV = 50°, FL = 10	0.0 mm	>
24mm Plossl AFOV = 50°, FL = 24	4.0 mm	>

Add Eyepiece

BINOCULARS & FINDERS

10x50 Binocular Aperture = 50.0 mm, Mag = 10.0x	>
7x42 Finder Aperture = 42.0 mm, Mag = 7.0x	>

Add Binocular or Finder

CAMERAS

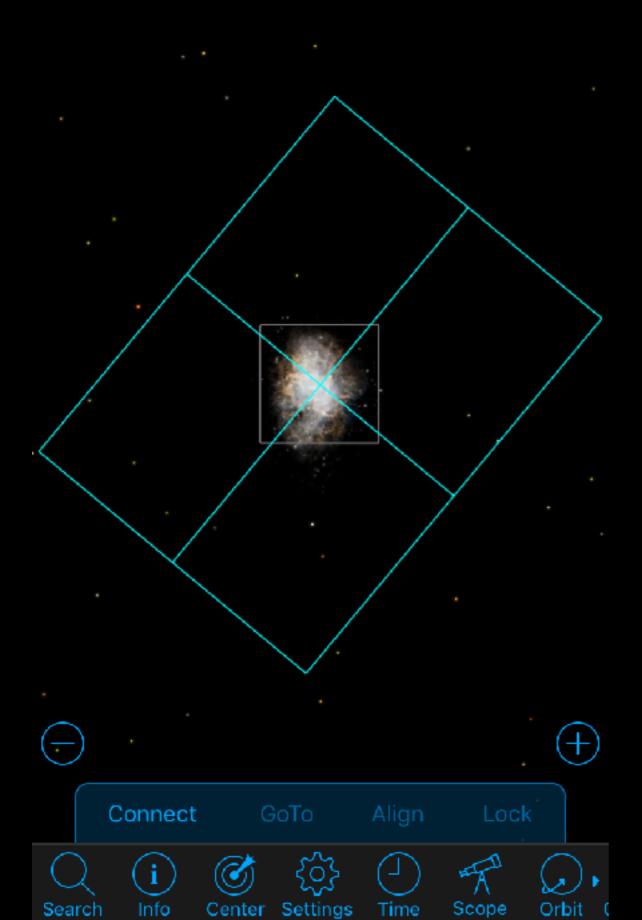
CD Guide Chin

CCD Camera 30 x 20 mm	>

Current Location

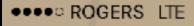
Fri Nov 11, 2016 08:59:18 PM

E 078º 34' 58.7" Alt +20º 27' 16.9" 29.2' x 46.5'



Crab nebula (M1) layout based on 10" f/10 SCT with my Olympus E-M1 m43 Camera

Can do the same with eyepiece field of view



1:01 PM

TPE

\$ 90%₿

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91% 💷 🤄 \geq

+73.1 m | 43.4394°N 79.6661°W

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🗰 Sun 13 Nov 2016

• 4:48 PM -0500

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Lakeside Park

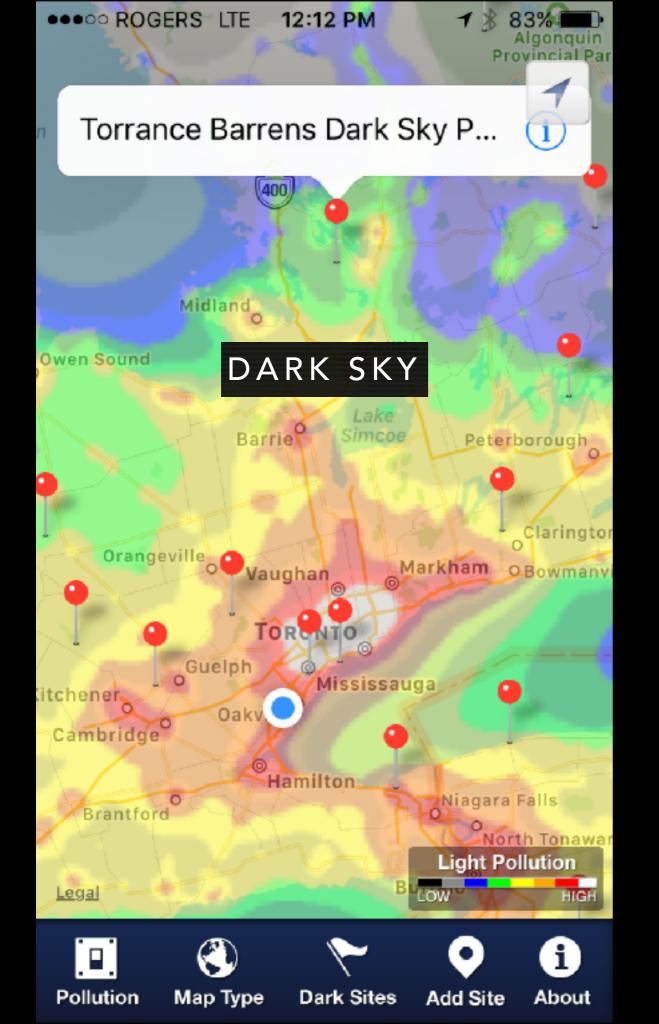
Tannery Park

Google

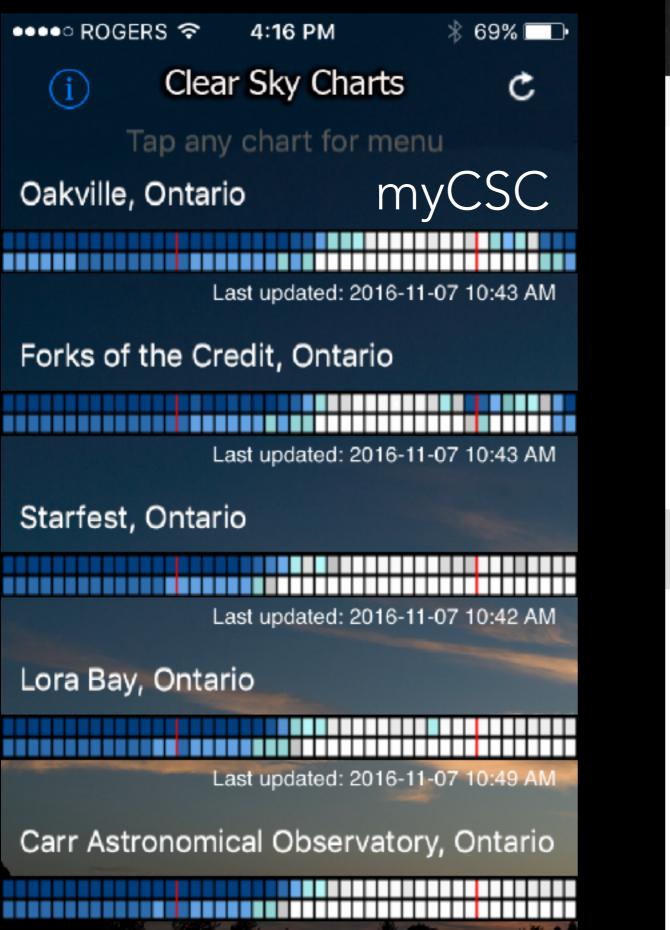
cal start	Civil start	Sunrise 🕇	Moonrise 🐢	Sunset 🕴
5 AM	6:40 AM	7:10 AM	4:48 PM	4:55 PM
93.7°	109.4°	114.5°	74.6°	245.3°
mins	30 mins		Waxing 99.3%	
+59°		4:48 PM		
	The second se	Sun 244.	0° +0.9°	
-65°		Moon 74.	6° -0.8°	
		Ĵ,	Æ	abo
Map	Location	ns – Visual sear	ch Shadows	More

THE PHOTOGRAPHER'S **EPHEMERIS** *

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••••• ROGERS	TE 12:12 PM	イ ∦83% ■
Done D	ark Site Detail	S
Directions	Add Review	Edit Site
GENERAL INFO		
Name	Torrance Barrens [Preserve	Dark Sky
Notes	Free site because Land. There are hil around.	
Added On	November 7, 2015	
Clear Sky Chart	Tonight's Forecas	st (7PM-12AM)
Transparency: Above Average Seeing: Average		
Torrance Barrens Dark-Sky Preserve		
DETAILED INFO		
Fee	Free	
Access	It's just on the side	of the road



Last updated: 2016-11-07 10:39 AM

Tap to select a nearby chart Bolton (42.8 km / 26.6 mi)

FvH Observatory (43.2 km / 26.8 mi)

Forks of the Credit (43.5 km / 27.0 mi)

Guelph (44.2 km / 27.5 mi)

Binbrook Conservation Area (45.2 km / 28.1 mi)

David Dunlap Observatory (46.8 km / 29.1 mi)

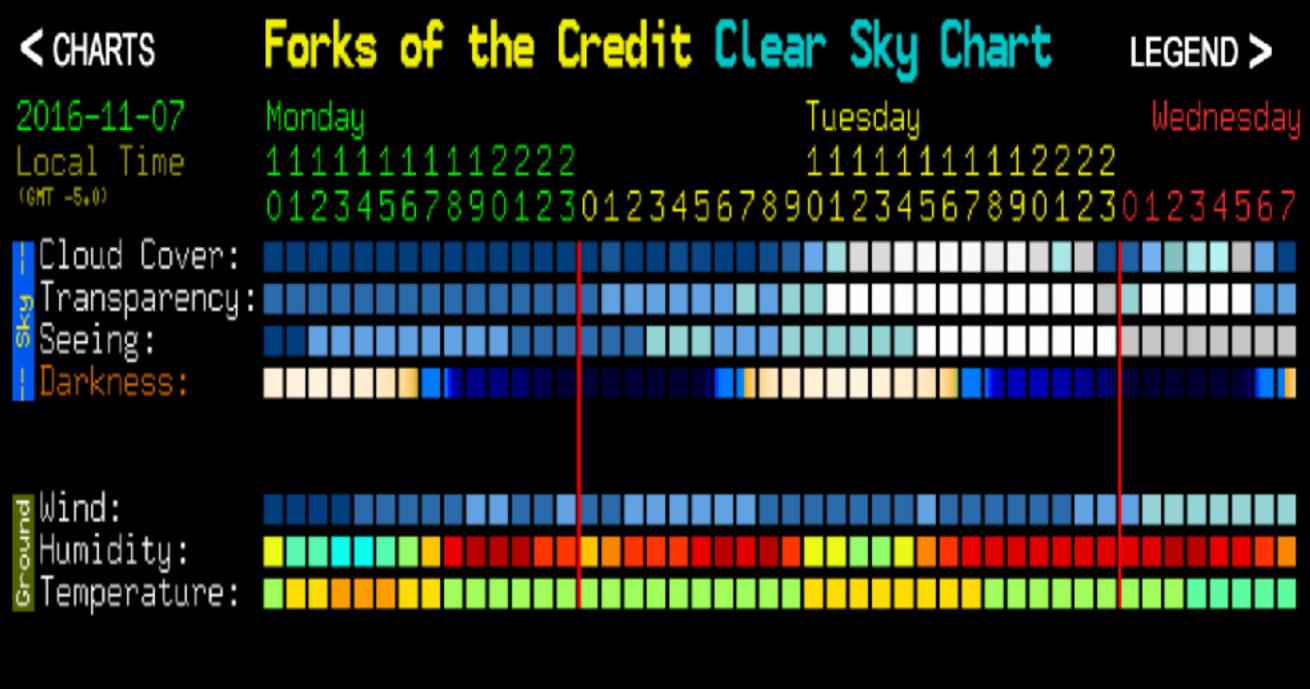
Astrodoc's Doghouse Observatory (49.6 km / 30.8 mi)

Scarborough (49.7 km / 30.9 mi)

Markham (50 km / 31.1 mi)

Cambridge (50.8 km / 31.6 mi)

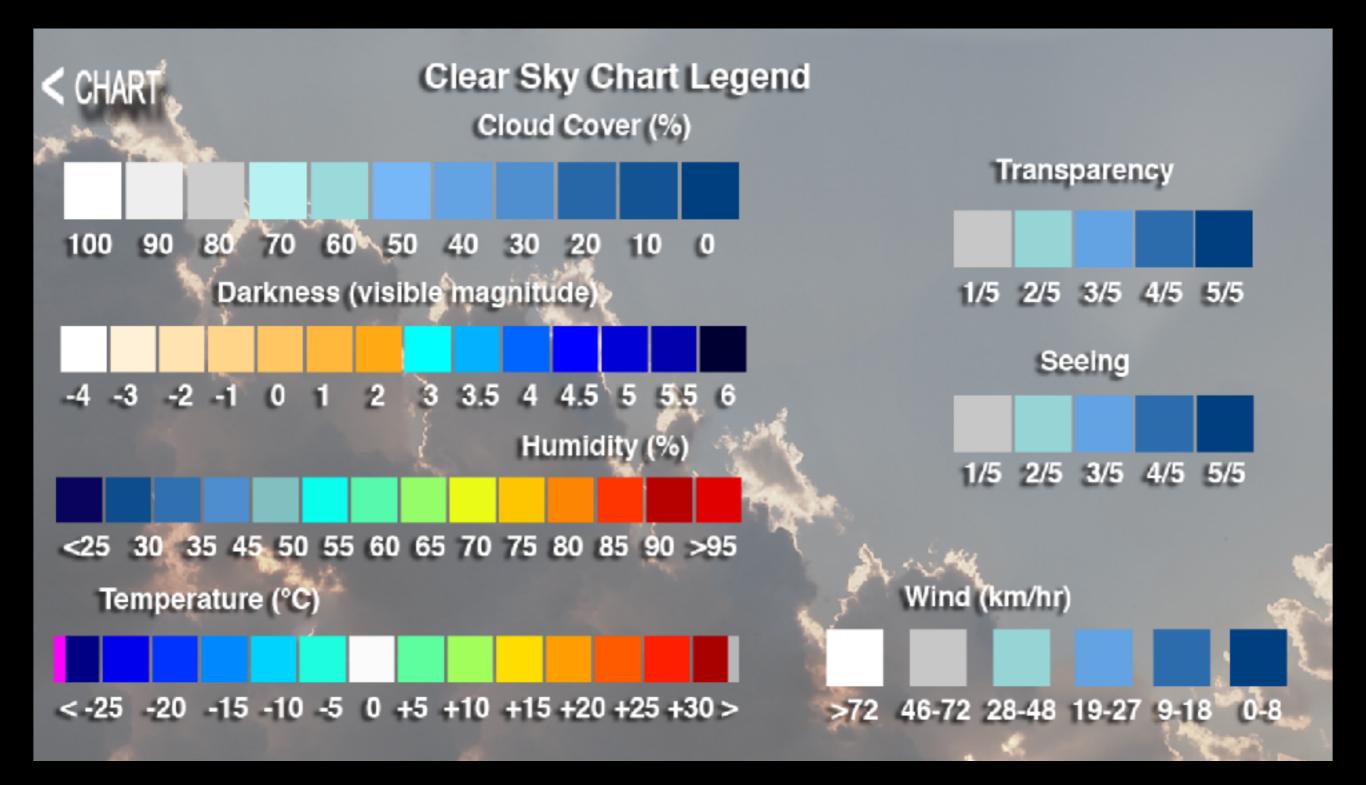
Palgrave Conservation Area (52.1 km / 32.4 mi)



Environment Canada Environnement

Canada

© 2016 A.Danko. forecast: A.Rahill data: 🔶



●●●● ROGERS 🗢 4:17 PM

🕴 69% 🔳

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Clear Sky Charts

ap any chart for menu

Oakville, Ontario

Select an Option:

Detailed Chart

Open CSC Site

Map Location

Set Chart Location

Delete Chart

Share Chart

Cancel

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Copyright	© Anything Bin	ary 2016

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