



Date: 1/13/2019

Time: 17:15:00

18th and Polk
facing SSE

Moon roughly First
Quarter

Altitude $\sim 45^\circ$
above the horizon



Your Sky

by [John Walker](#)

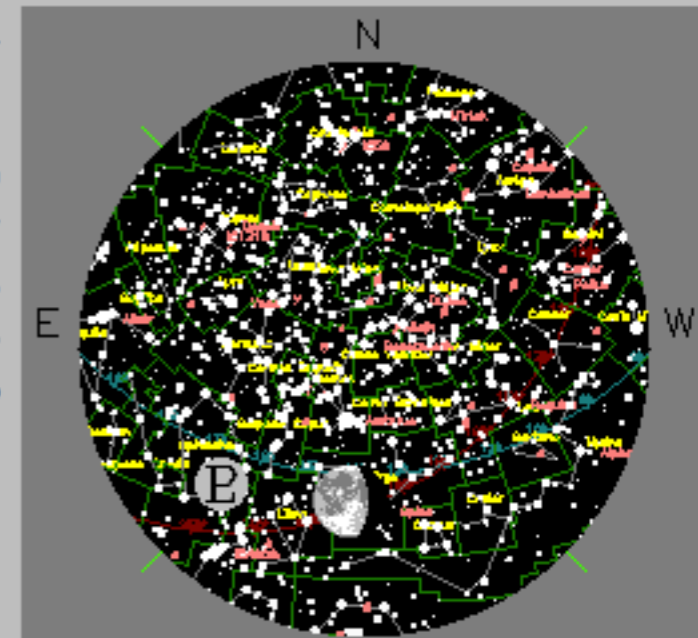
Welcome to *Your Sky*, the interactive planetarium of the Web. You can produce maps in the forms described below for any time and date, viewpoint, and observing location. If you enter the orbital elements of an asteroid or comet, *Your Sky* will compute its current position and plot it on the map. Each map is accompanied by an ephemeris for the Sun, Moon, planets, and any tracked asteroid or comet. A control panel permits customisation of which objects are plotted, limiting magnitudes, colour scheme, image size, and other parameters; each control is linked to its description in the [help file](#).

Your Sky provides three ways to view the sky with links, where appropriate, among the various presentations.

Sky Map

The sky map shows the entire sky as viewed from a given location at a specified time and date. A stereographic projection is used, as is the convention for printed star maps.

To make a sky map, enter the latitude and longitude of your observing site in the boxes below (be sure to check the correct "North/South" and "East/West" settings) and press the "Make Sky Map" button below the form. *Your Sky* will deliver a map showing the sky above the location you specified at the current time. On that reply page you can enter different dates and times, observing locations, display options, and orbital elements of asteroids and comets you wish to track. If you don't know your latitude and longitude, you can specify them by selecting a [nearby city](#).



View toward horizon from 44°3'15" N 123°5'31" W, azimuth 165° Tue 2019 Jan 15 1:15 UTC

Explain symbols in the map.



[View sky map for this observing site.](#)

Update

[Explain controls in the following panel.](#)

<p>Date and Time</p>	<p><input type="radio"/> Now</p> <p><input checked="" type="radio"/> Universal time: <input type="text" value="2019-01-15 1:15:00"/></p> <p><input type="radio"/> Julian day: <input type="text" value="2458498.55208"/></p>
<p>Viewpoint</p>	<p>Azimuth: <input type="text" value="Degrees: 165°"/></p> <p>Field of view: <input type="text" value="90°"/></p>
<p>Observing Site</p>	<p>Latitude: <input type="text" value="44°3'15"/> <input checked="" type="radio"/> North <input type="radio"/> South</p> <p>Longitude: <input type="text" value="123°5'31"/> <input type="radio"/> East <input checked="" type="radio"/> West</p> <p>Set for nearby city</p>
<p>Display Options</p>	<p><input checked="" type="checkbox"/> Ecliptic and equator</p> <p><input checked="" type="checkbox"/> Moon and planets</p> <p><input checked="" type="checkbox"/> Deep sky objects of magnitude <input type="text" value="3.0"/> and brighter</p> <p>Constellations:</p> <p><input checked="" type="checkbox"/> Outlines</p> <p><input checked="" type="checkbox"/> Names <input type="checkbox"/> abbreviate?</p> <p><input checked="" type="checkbox"/> Boundaries</p> <p>Stars:</p> <p>Show stars brighter than magnitude <input type="text" value="5.5"/></p> <p><input checked="" type="checkbox"/> Names for magnitude <input type="text" value="3.0"/> and brighter</p> <p><input checked="" type="checkbox"/> Bayer/Flamsteed codes for mag. <input type="text" value="3.5"/> and brighter</p> <p><input type="checkbox"/> Show magnitudes between <input type="text" value="-1.5"/> and <input type="text" value="6.0"/></p>

	<input checked="" type="checkbox"/> Terrain at horizon Roughness: <input type="text" value="0.7"/> <input checked="" type="checkbox"/> with scenery Image size: <input type="text" value="512"/> pixels Font scale: <input type="text" value="1.0"/> Colour scheme: <input type="text" value="Colour"/>
Asteroid and Comet Tracking	Paste orbital elements below: <input type="checkbox"/> Echo elements <input type="text"/>

[Ephemeris:](#)

	Right Ascension	Declination	Distance (AU)	From 44°3'15"N 123°5'31"W:		
				Altitude	Azimuth	
Sun	19h 45m 58s	-21° 12.3'	0.984	-3.429	63.500	Set
Mercury	19h 6m 36s	-23° 56.5'	1.407	-11.806	67.998	Set
Venus	16h 26m 57s	-18° 23.2'	0.741	-36.303	99.565	Set
Moon	2h 12m 36s	+7° 45.1'	60.9 ER	48.410	-36.161	Up
Mars	0h 34m 36s	+3° 43.7'	1.381	49.659	1.875	Up
Jupiter	16h 53m 35s	-21° 55.9'	6.062	-33.839	91.316	Set
Saturn	18h 56m 26s	-22° 19.9'	11.021	-12.419	70.833	Set
Uranus	1h 47m 10s	+10° 29.7'	19.767	53.389	-28.684	Up
Neptune	23h 4m 5s	-7° 1.5'	30.563	34.566	29.162	Up
Pluto	19h 30m 4s	-21° 56.8'	34.703	-6.540	65.637	Set

Azimuth in the above table follows the astronomical convention: zero degrees is South with positive angles toward the West and negative angles toward the East.