

# NOVEMBER 2024



## Notable Sky Happenings

Nov. 1 - 7

Daylight time ends at 2:00am on the 3rd. Set clocks back one hour. Venus is above the Moon on the 4th (SW evening twilight).

Nov. 8 - 14

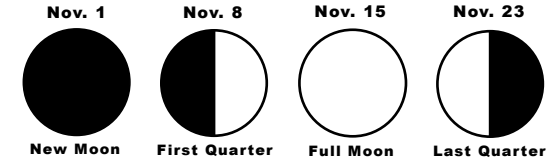
The "star" to the upper left of the Moon on the 10th is Saturn (S evening).

Nov. 15 - 21

The "star" below the Moon on the 16th is Jupiter (ENE evening). The Leonid Meteor Shower peaks the night of Nov. 17-18. Moon is at the upper right of Mars and lower right of Pollux on the 20th (SSW morning). Happy birthday, Edwin Hubble 135 years ago on the 20th!

Nov. 22 - 30

Occultation of Spica by the Moon on the 27th. Disappearance is at 5:31 AM EST (in Detroit) in the southeast; reappearance is at 6:44 AM EST in morning twilight.



## Now Showing

### "Tales of a Time Traveler"

Explore ancient civilizations. Witness the birth of the universe. Journey to the edge of a black hole. Time travel surrounds us - from the biological clock in our brain to the history of life on Earth to the lives of stars, the time scale of the Big Bang, and the distortion of time by gravity. Narrated by David Tennant.

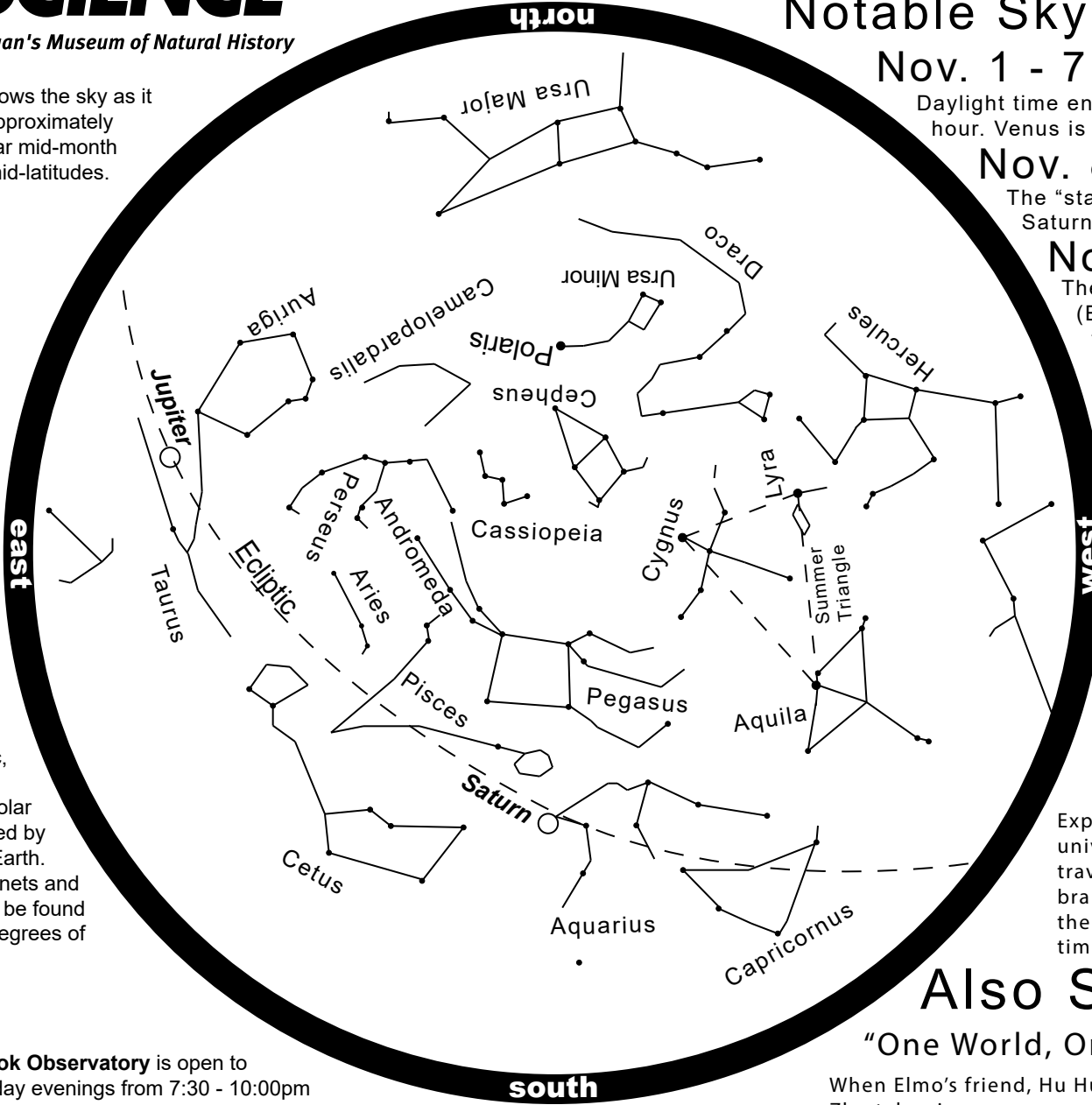
## Also Showing

### "One World, One Sky: Big Bird's Adventure"

When Elmo's friend, Hu Hu Zhu, visits from China. Big Bird, Elmo and Hu Hu Zhu take viewers on an exciting discovery of the Sun, Moon, and stars. They learn about the Big Dipper and the North Star and take an imaginary trip to the Moon where they learn that the Moon is a very different place.

For astronomy information visit <http://science.cranbrook.edu>

This chart shows the sky as it appears at approximately 8pm EST near mid-month at northern mid-latitudes.



What is that dashed line? It's the ecliptic, the reference plane of the solar system, defined by the Sun and Earth. The major planets and the Moon can be found within a few degrees of this plane.

The Cranbrook Observatory is open to the public Friday evenings from 7:30 - 10:00pm EST, and the first Sunday of the month from 1:00 - 4:00pm for solar viewing.

For observatory information visit <http://science.cranbrook.edu/explore/observatory>