

2021

Buhl Planetarium & Observatory

FEBRUARY STAR CHART

CARNEGIE
**SCIENCE
CENTER**



Night sky from Pittsburgh, PA 9 pm EST mid-February

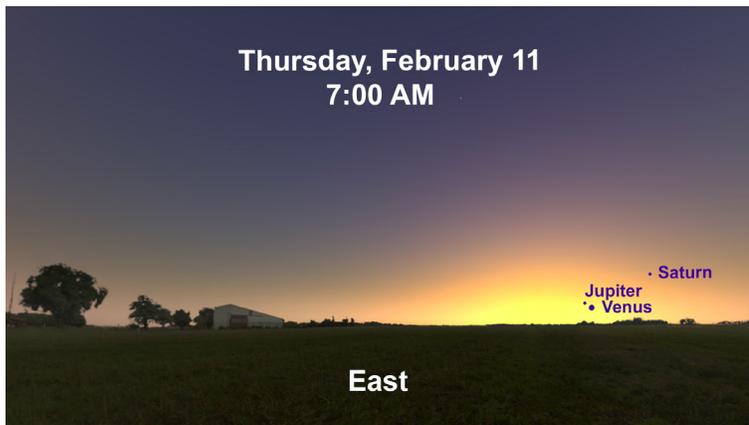
Look for future **SKYWATCH** dates, at CarnegieScienceCenter.org. Presented by



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Star Chart FAQ

How do I use the star chart?

Hold it out in front of you with the direction you're facing at the bottom of the chart. It works even better if you hold it above your head and look up at it.

Why are east and west switched?

They are only switched because you're used to looking at maps of the ground. Hold it above your head, and you'll see the directions line up just right.



Why isn't the Moon on the star chart?

The chart covers a whole month. During this time, the Moon travels around the Earth, doing a full lap around the sky.

What's happening in February?

Jupiter-Venus Morning Conjunction

For early risers, the morning of Thursday, Feb. 11 will offer a conjunction of the two brightest planets – Jupiter and Venus. About twenty minutes before sunrise look to the southeast. Venus, six times brighter than Jupiter, will be easier to find. In the mornings that follow, Venus will appear to sink towards the Sun. Jupiter, on the other hand, is climbing higher into viewable territory with each new morning. So, keep an eye on Jupiter, joined by Saturn, being regular bright lights in the pre-dawn eastern sky in March.



Space Fact of the Month

Orville and Wilbur Stand Back! Here Comes NASA's Ingenuity Mars Helicopter

118 years after the Wright brothers, powered flight is being attempted on another planet! NASA's robot drone, Ingenuity, is accompanying the Perseverance rover on its Mars Mission. The four-pound experimental helicopter is designed to fly in Mars' thin atmospheric conditions. To gain lift in air 100 times thinner than Earth, bigger blades were calculated to spin many times faster than an Earth helicopter. Lithium-ion batteries, charged by a solar panel mounted above the rotor blades, power the small craft. After a successful test flight, this drone's-eye view will open a window for exciting new discoveries.

Image Credit: NASA

Join us for a show in the NEW Buhl Planetarium! An all new experience.

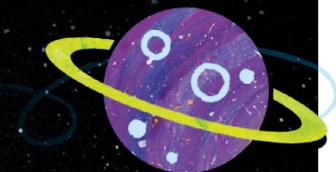
One giant leap from 4K to 8K resolution –

A brand new Sony projection system will utilize 10 projectors to create a seamless, synchronized True8K high resolution image—at least 8,000 pixels across every full 180-degree arc on the dome.

More options, more adventures –

The new Evans & Sutherland Digistar 7 Software features an extensive library of planetary models, real-time 3D computer graphics, and a catalog that incorporates data from all over the world to generate the most accurate 3D atlas of the universe.

Buhl Planetarium visitors will be able to travel to other stars and even exoplanets and fly through 3D digital nebulae based on volumetric data.



Buhl Planetarium Shows presented by

