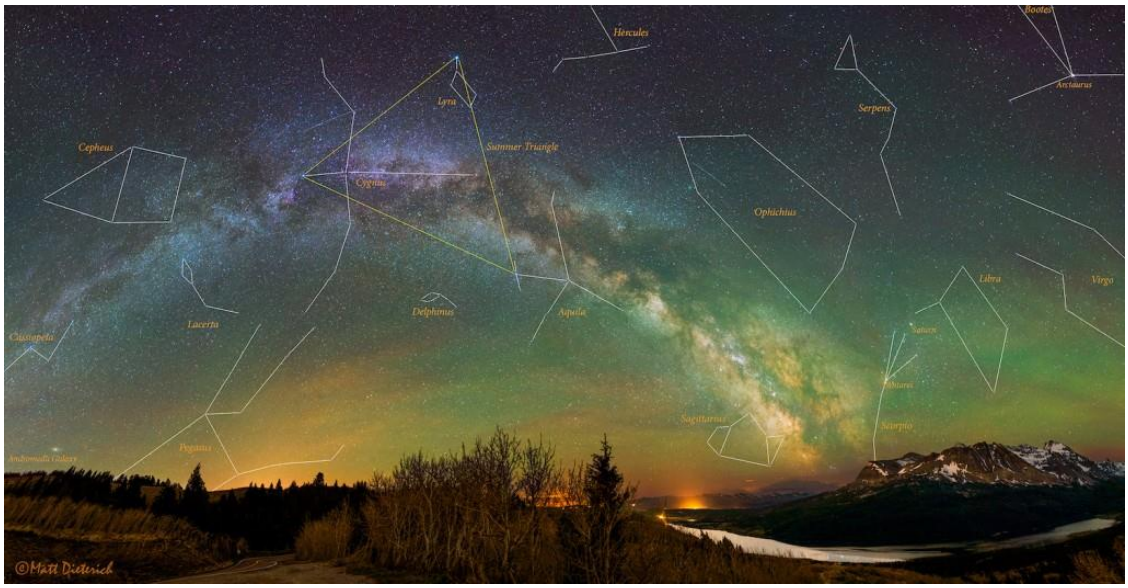
What's Up in the Night Sky for JULY



Presented by

Photonverse

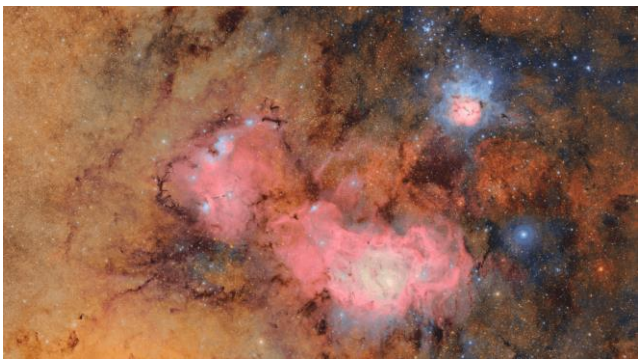
July 2025 Night Sky - Meteors, Planets & Deep Sky Objects
https://www.youtube.com/watch?v=5D9qNVuclng

MindFull

What's Up in the Night Sky – July 2025 |
Meteor Showers, Moon Phases & Planetary Events!

https://www.youtube.com/watch?v=G8cSNDTOmy8

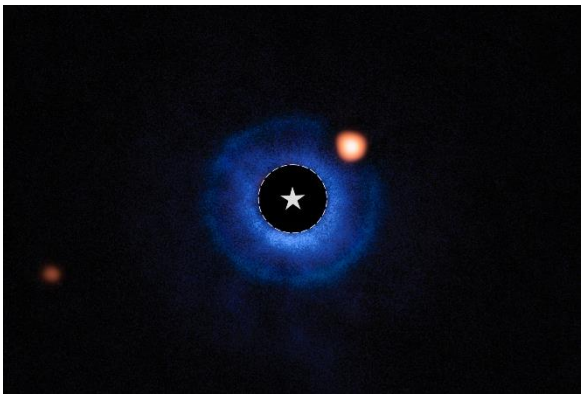
Vera C. Rubin Observatory released its first images



The Vera C. Rubin Observatory released its (Click Here) *first images* on June 23rd, unveiling stunning views of galaxies and asteroids. The above image is only a small fraction of the (Click Here) *entire skyscape* that Rubin offers. The observatory, which is a joint venture between the U.S. Department of Energy and the National Science Foundation, will use its huge digital camera to survey swaths of the sky, research dark energy and dark matter, and find millions of new asteroids and comets. With Asteroid Day coming up on June 30th, Rubin's timing couldn't be better: on its first night of operations alone, the observatory discovered nearly 1,000 asteroids. *Image credit: NSF–DOE Vera C. Rubin Observatory*

Webb finds evidence of a lightweight planet around TWA 7

June 25, 2025



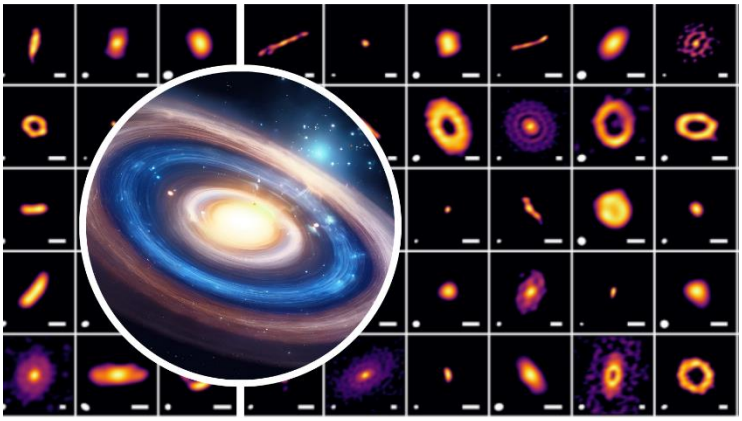
High-contrast coronograph image of TWA 7b
Source :European Space Agency

Astronomers using the NASA/ESA/CSA James Webb Space Telescope have captured compelling evidence of a planet with a mass similar to Saturn orbiting the young nearby star TWA 7. (Distance from Earth is 110 Light Years)

If confirmed, this would represent Webb's first direct image discovery of a planet, and the lightest planet ever seen with this technique. To read more click: https://rb.gy/mo1td4

Astronomers discover baby planets taking their 1st steps in nearby stellar nursery

Robert Lea **June 26, 2025**



(Main) Images of protoplanetary disks in the Ophiuchus star-forming region. (Inset) An illustration of a planet birthing-disk around a young star. (Image credit: ALMA(ESO/NAOJ/NRAO), A. Shoshi et al/ Robert Lea (created with Canva))

Astronomers may have caught the first stages of planets being born around infant stars.

The discovery came about when a team of scientists studied 78 planet-forming, flattened clouds of gas and dust, or "protoplanetary disks," in the Ophiuchus star-forming region. This stellar nursery, also known as the *Rho Ophiuchi* cloud complex, is located around 460 *light-years* from Earth, making it the closest star-forming region to our *solar system*. For more information click: https://rb.gy/n9hr7t

Beyond Green:
The Cosmic Quest for Life's Colors

Christopher S. Centi June 30, 2025

Why Purple Worlds Could Be Teeming with Alien Life

Humanity has long gazed at the stars, wondering if we are alone in the vast expanse of the cosmos. This profound question drives the field of astrobiology, the dedicated study of life's origins, evolution, distribution, and future across the universe. Our home planet, often referred to as the "pale blue dot," is also a vibrant green, a color synonymous with life thanks to the ubiquitous chlorophyll-driven photosynthesis in plants and algae. This characteristic green hue, along with the oxygen it produces, has traditionally served as a primary indicator of biological activity, a "biosignature," to seek on distant worlds.

However, groundbreaking research, exemplified by Lígia Fonseca Coelho's paper "Purple is the New Green: Biopigments and Spectra of Earth-like Purple Worlds," is fundamentally challenging this green-centric perspective. This work suggests that alien life might not be green at all, but rather a spectrum of other colors, with purple emerging as a particularly strong contender. Click here to read the full blog post https://www.centiastrospace.com/blog-1

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