

NASA explores the unknown in space for the benefit of all, and Webb's first observations tell the story of the hidden universe through every phase of cosmic history - from ...

Space Shuttle Discovery (Orbiter Vehicle Designation: OV-103) is a retired American Space Shuttle orbiter. The spaceplane was one of the orbiters from NASA's Space Shuttle program and the third of five fully operational orbiters to be built. [2] Its first mission, STS-41-D, flew from August 30 to September 5, 1984. Over 27 years of service it ...

The luminous, hot star Wolf-Rayet 124 (WR 124), which lies about 15,000 light-years from Earth, is prominent at the center of this James Webb Space Telescope composite image, which combines near ...

The James Webb Space Telescope has discovered a massive chain of 20 galaxies in the early universe, raising questions about the formation of the largest structures in the cosmos.

Held by the space shuttle Discovery's robotic arm, Hubble is unfurling its solar arrays as it hovers over Earth during its deployment in April 1990. The technology in Hubble and in its ground system has been used for numerous other benefits down here on Earth. NASA.

A team of international scientists has used NASA's James Webb Space Telescope to detect a new carbon compound in space for the first time. Known as methyl cation (pronounced cat-eye-on) ( $\text{CH}_3^+$ ), the molecule is important because it aids the formation of more complex carbon-based molecules.

On Display at the Udvar-Hazy Center Space Shuttle Discovery. Discovery is an example of a Space Shuttle orbiter, a component of NASA's Space Transportation System (STS). The STS consisted of a combination of a Space Shuttle orbiter, solid rocket boosters, and a fuel tank. Discovery was the third Space Shuttle orbiter vehicle to fly in space ...

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Webb's first observations were selected by a group of representatives from NASA, ESA, CSA, and the Space Telescope Science Institute. They reveal the capabilities of all four of Webb's state-of-the-art scientific instruments:. SMACS 0723: Webb has delivered the deepest and sharpest infrared image of the distant universe so far - and in only 12.5 hours.

3 days ago&#0183; Space exploration - Milestones, Achievements, History: The first artificial Earth satellite,

Sputnik 1, was launched by the Soviet Union on October 4, 1957. The first human to go into space, Yuri Gagarin, was launched, again by the Soviet Union, for a one-orbit journey around Earth on April 12, 1961. Within 10 years of that first human flight, American astronauts walked ...

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NASA's James Webb Space Telescope reveals the secrets of GN-z11, one of the youngest and most distant galaxies ever observed. Webb finds a supermassive black hole, a powerful wind, and a pristine gas clump in the ...

The newest branch of Discovery Space is a 5,000 square foot community workshop. Members of all ages can take advantage of open shop hours and classes that teach technical skills, critical thinking, and iterative learning. ...

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3 days ago#0183; The first scientific discovery made with instruments orbiting in space was the existence of the Van Allen radiation belts, discovered by Explorer 1 in 1958 bsequent space missions investigated Earth's magnetosphere, the surrounding region of space in which the planet's magnetic field exerts a controlling effect (see Earth: The magnetic field and ...

Alignment of bipolar jets confirms star formation theories For the first time, a phenomenon astronomers have long hoped to directly image has been captured by NASA's James Webb Space Telescope's Near-Infrared Camera (NIRCam). In this stunning image of the Serpens Nebula, the discovery lies in the northern area (seen at the upper left) of this [...]

3 days ago#0183; Space exploration, investigation, by means of crewed and uncrewed spacecraft, of the reaches of the universe beyond Earth's atmosphere and the use of the information so gained to increase knowledge of the cosmos and benefit humanity. Learn more about space exploration in this article. ... All of these activities--discovery, scientific ...

The James Webb Space Telescope (Webb or JWST) is a pathfinder of scientific discovery, generating

incredible insights about galaxies, planets, stars and all sorts of interesting cosmic objects ...

The Webb Space Telescope is the largest, most powerful and most complex telescope ever launched into space . It's design and development history stretches back before the Hubble Space Telescope was launched. Learn about the design, the major components and subsystems of Webb and see Webb in 3d in a 3d Solar System. [Learn More](#)

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