



spardhaguru2022



Spardhaguru Current affairs



Spardhaguru1



SpardhaGuru



Spardha.guru



www.spardha.guru



## Space & Astronomy:

### Solar Observations

The NSF Daniel K. Inouye Solar Telescope in Hawaii has captured the highest-resolution images ever of a solar flare at the H-alpha wavelength. The images revealed ultra-fine coronal loops, which are arches of plasma following the Sun's magnetic field lines, that were smaller and thinner than previously observed. This landmark observation is expected to improve space weather forecasting and reshape the understanding of the Sun's magnetic architecture. The M4.5 solar flare that was observed has also caused a minor radiation storm on Earth, with a greater than 10 MeV proton flux.

### Space Missions and Launches

Blue Origin has scheduled the launch of its uncrewed New Shepard rocket, designated NS-35, to carry more than 40 scientific and research payloads to suborbital space. The mission, which was delayed, marks the 35th flight for the program and will bring the total number of payloads to over 200. Meanwhile, SpaceX has again scrubbed the planned 10th test flight of its Starship megarocket, this time due to weather conditions. A SpaceX Dragon cargo capsule also arrived at the International Space Station on August 25, delivering around 5,000 pounds of supplies.

### Astronomical Discoveries

Scientists using NASA's Juno spacecraft have discovered a new plasma wave in Jupiter's auroras, offering fresh insight into space weather and magnetism. In another notable

finding, the James Webb Space Telescope (JWST) has identified a previously unknown moon orbiting Uranus, which is estimated to be about 10 kilometers in diameter. This new moon, designated S/2025 U1, was not visible to the Voyager 2 spacecraft during its 1986 flyby.

**Dear Aspirants,**

Stay updated with **important lessons, tutorials, and announcements** by subscribing to our official **WhatsApp Channel!**

**Scan the QR code below** to join and never miss an update!

Thank you for your continued support and enthusiasm.

**Let's keep learning and growing together!**





spardhaguru2022



Spardhaguru Current affairs



Spardhaguru1



SpardhaGuru



Spardha.guru



www.spardha.guru



### MCQS

**Question 1: The NSF Daniel K. Inouye Solar Telescope captured the highest-resolution images ever of a solar flare. What feature did these images reveal?**

- A) Ultra-fine coronal loops
- B) The sun's core
- C) Sunspots forming
- D) Solar wind particles

**Answer: A) Ultra-fine coronal loops**

The news states, "The images revealed ultra-fine coronal loops, which are arches of plasma following the Sun's magnetic field lines, that were smaller and thinner than previously observed."

**Question 2: The M4.5 solar flare observed on August 26, 2025, caused what effect on Earth?**

- A) A major geomagnetic storm
- B) A minor radiation storm
- C) A power grid failure
- D) Communications blackout

**Answer: B) A minor radiation storm**

The news states, "The M4.5 solar flare that was observed has also caused a minor radiation storm on Earth, with a greater than 10 MeV proton flux."

**Question 3: What is the designation of the upcoming Blue Origin New Shepard rocket launch, and what is the total number of payloads the program will have carried after this mission?**

- A) NS-34, over 150 payloads
- B) NS-35, over 200 payloads
- C) NS-36, over 100 payloads
- D) NS-35, over 50 payloads

**Answer: B) NS-35, over 200 payloads**

The news states, "Blue Origin has scheduled the launch of its uncrewed New Shepard rocket, designated NS-35...marks the 35th flight for the program and will bring the total number of payloads to over 200."

**Question 4: Why was the planned 10th test flight of SpaceX's Starship megarocket scrubbed again?**

- A) A technical malfunction
- B) An engine issue
- C) A software glitch
- D) Weather conditions

**Answer: D) Weather conditions**

The news states, "SpaceX has again scrubbed the planned 10th test flight of its Starship megarocket, this time due to weather conditions."

**Question 5: How many pounds of supplies were delivered by a SpaceX Dragon cargo capsule that arrived at the International Space Station on August 25?**

- A) Around 1,000 pounds
- B) Around 2,500 pounds
- C) Around 5,000 pounds
- D) Around 10,000 pounds

**Answer: C) Around 5,000 pounds**

The news states, "A SpaceX Dragon cargo capsule also arrived at the International Space Station on August 25, delivering around 5,000 pounds of supplies."

**Question 6: Using which spacecraft did scientists discover a new plasma wave in Jupiter's auroras?**

- A) Voyager 2
- B) Juno
- C) Cassini
- D) Hubble







spardhaguru2022



Spardhaguru Current affairs



Spardhaguru1



SpardhaGuru



Spardha.guru



www.spardha.guru

**Answer: B) Juno**

The news states, "Scientists using NASA's Juno spacecraft have discovered a new plasma wave in Jupiter's auroras..."

**Question 7: The James Webb Space Telescope (JWST) identified a new moon orbiting which planet?**

- A) Mars
- B) Jupiter
- C) Uranus
- D) Neptune

**Answer: C) Uranus**

The news states, "the James Webb Space Telescope (JWST) has identified a previously unknown moon orbiting Uranus..."

**Dear Aspirants,**

Stay updated with **important lessons, tutorials, and announcements** by subscribing to our official **YouTube Channel!**

**Scan the QR code below** to subscribe and never miss an update!

Thank you for your continued support and enthusiasm. Let's keep learning together!

