

Spardhaguru India Private Limited Space & Astronomy:

10 Years of Excellence



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Space & Astronomy:

Astronomical Events

September Epsilon Perseids Meteor Shower: The September Epsilon Perseids meteor shower peaked predawn on September 9. While not a major shower, it's an annual event where meteors appear originate from the to constellation Perseus.

A "Blood Moon" Lunar Eclipse: A total lunar eclipse, also known as a "Blood Moon," occurred on September 7-8. During this event, the Earth passed between the sun and the moon, causing the moon to turn a deep red or orange color. This was visible to billions of people across Asia, Austra<mark>lia,</mark> Africa, and Europe and was notable for its exceptionally long total phase, lasting around 82 minutes.

Celestial Conjunctions: The night of September 8 saw the moon align with Saturn and Neptune. Additionally, later in the month, a conjunction between the moon and Jupiter will take place.

Fomalhaut in the Night Sky: The bright star Fomalhaut, also known as the "mouth of the southern fish," is visible in the southern sky. This star is young and surrounded by a large protoplanetary disk.

Space Research & Missions

Black Hole Research: New research is shedding light on the "messy habits" of smaller, stellarmass black holes, showing that the process of them accreting matter is complex disorderly.

TRAPPIST-1e Observations: The James Webb Space Telescope (JWST) has begun examining the atmosphere of the exoplanet TRAPPIST-1e, a planet in a habitable zone. Early observations suggest it has not retained its original atmosphere, likely due to powerful flaring from

Origin of Life: A new study suggests that a planetary collision may have been responsible for bringing the necessary ingredients, like water and carbon compounds, to early Earth to allow for life to emerge.

Interstellar Object Mission: A new mission concept has been developed by researchers a Southwestern Research Institute to rendezvous with and explore the interstellar comet 3I/ATLAS.

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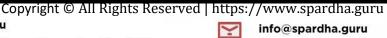
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Page | 1









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- A) The moon was passing through a cloud of cosmic dust.
- B) Earth passed between the sun and the moon.
- C) A solar flare hit the moon's surface.
- D) The moon's atmosphere was refracting sunlight.

Answer: B) Earth passed between the sun and the moon.

The summary explains, "A total lunar eclipse, also known as a 'Blood Moon,' occurred on September 7-8. During this event, the Earth passed between the sun and the moon, causing the moon to turn a deep red or orange color."

- 3: What celestial bodies did the moon align with on the night of September 8?
- A) Mars and Venus
- B) Jupiter and Saturn
- C) Saturn and Neptune
- D) Venus and Neptune

MCQS

1: The September Epsilon Perseids meteor shower, which peaked on September 9, appears to originate from which constellation?

- A) Orion
- B) Ursa Major
- C) Perseus
- D) Andromeda

Answer: C) Perseus

The news states, "The September Epsilon Perseids meteor shower peaked predawn on September 9. While not a major shower, it's an annual event where meteors appear to originate from the constellation Perseus."

2: What caused the moon to turn a deep red or orange color during the recent total lunar eclipse?

Answer: C) Saturn and Neptune

The news mentions, "The night of September 8 saw the moon align with Saturn and Neptune."

- 4: What is the bright star Fomalhaut also known
- A) The "eye of the northern fish"
- B) The "tail of the southern fish"
- C) The "mouth of the southern fish"
- D) The "heart of the northern fish"

Answer: C) The "mouth of the southern fish" "The bright The summary states, Fomalhaut, also known as the 'mouth of the southern fish,' is visible in the southern sky."

5: What new insight has been gained about stellar-mass black holes from recent research?

A) They are much larger than previously thought.

Page | 2



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- B) They accrete matter in a complex and disorderly process.
- C) They do not accrete any matter.
- D) They have a perfectly ordered accretion process.

Answer: B) They accrete matter in a complex and disorderly process.

The news summary mentions that new research is shedding light on the "messy habits" of smaller, stellar-mass black holes, showing that the process of them accreting matter is "complex and disorderly."

- 6: Why is the exoplanet TRAPPIST-1e believed to have lost its original atmosphere?
- A) A collision with another planet.
- B) Powerful flaring from its star.
- C) The planet's weak gravitational pull.
- D) It was never formed with an atmosphere.

Answer: B) Powerful flaring from its star. The summary states that early observations of TRAPPIST-1e suggest it has not retained its original atmosphere, "likely due to powerful flaring from its star."

- 7: According to a new study, what event may have been responsible for bringing the necessary ingredients for life to early Earth?
- A) A series of asteroid impacts.
- B) A planetary collision.
- C) The formation of a volcanic super-continent.
- D) The gradual accumulation of cosmic dust.

Answer: B) A planetary collision.

The news reports that a new study suggests "a planetary collision may have been responsible for bringing the necessary ingredients, like water and carbon compounds, to early Earth to allow for life to emerge."

- 8: What is the name of the interstellar object that a new mission concept aims to explore?
- A) Oumuamua
- B) Borisov
- C) 3I/ATLAS
- D) Comet Halley

Answer: C) 3I/ATLAS

The summary mentions a new mission concept developed to "rendezvous with and explore the interstellar comet 3I/ATLAS."

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