



SpaceX successfully launches German TV satellite from Cape Canaveral

Description

SpaceX Successfully Launches Astra 1P/SES-24 Satellite

SpaceX achieved a successful **launch** of the Astra 1P/SES-24 satellite from Cape Canaveral Space Launch Complex 40 after a series of weather-related delays. The launch marked the end of a 13-day period without any launches on the Space Coast, highlighting the challenges posed by unpredictable weather conditions.

Despite initial concerns about the weather, SpaceX managed to beat the **odds** and launch the satellite on Thursday afternoon. The 45th Weather Squadron had predicted a 40 percent chance of favorable weather, but SpaceX decided to proceed with the launch and was rewarded with a successful liftoff.

The Astra 1P/SES-24 satellite is a communications satellite developed by Thales Alenia Space for a partnership between SES and Astra, European communication organizations. This Ku-band **geostationary** satellite will provide satellite TV services to Germany, France, and Spain, continuing the legacy of Astra satellites that have been serving Germany since 1988.

Looking ahead, SpaceX has rescheduled its Starlink 10-2 mission for Sunday, June 23, also from Cape Canaveral Space Launch Complex 40. This mission was prioritized after weather-related setbacks forced SpaceX to delay its previous launch attempts.

In other SpaceX news, the company achieved a **milestone** with the successful landing of the Falcon 9 first-stage booster on the **droneship** "Just Read the Instructions." This marked SpaceX's 250th first-stage landing for an orbital flight, showcasing the company's ongoing commitment to reusability in space missions.

Overall, the successful launch of the Astra 1P/SES-24 satellite **demonstrates** SpaceX's resilience in overcoming challenges and pushing the boundaries of space exploration. It sets the stage for future missions and advancements in satellite communications technology.

Vocabulary List

1. **Launch** /lɔːnt/ (noun): The act of sending a spacecraft or missile into the sky.
2. **Odds** /ɔːdz/ (noun): The probability or likelihood of an event occurring.
3. **Geostationary** /ˌdʒiːstəˈsteɪʃənəri/ (adjective): Referring to a satellite that stays in the same position relative to the earth's surface.
4. **Milestone** /ˈmaɪlstoʊn/ (noun): A significant stage or event in the development of something.
5. **Demonstrate** /dɪˈmɒnstreɪt/ (verb): Clearly show the existence or truth of something by giving proof or evidence.
6. **Droneship** /ˈdrɒnʃɪp/ (noun): An uncrewed ship used to land rocket stages.



Comprehension Questions

Multiple Choice

1. Where was the Astra 1P/SES-24 satellite successfully launched from?
Option: Cape Canaveral Space Launch Complex 39
Option: Cape Canaveral Space Launch Complex 40
Option: Kennedy Space Center
Option: Vandenberg Space Force Base
2. What type of satellite is the Astra 1P/SES-24 satellite?
Option: Communication satellite
Option: Exploration satellite
Option: Weather satellite
Option: Observation satellite
3. Which organization developed the Astra 1P/SES-24 satellite?
Option: SES
Option: Astra
Option: Thales Alenia Space
Option: SpaceX
4. What service will the Astra 1P/SES-24 satellite provide?
Option: Internet services
Option: Satellite TV services
Option: Weather forecasting services
Option: GPS services
5. How many days passed without any launches on the Space Coast before the successful launch of Astra 1P/SES-24 satellite?
Option: 7 days
Option: 13 days
Option: 20 days
Option: 30 days
6. Which SpaceX mission was rescheduled after the successful launch of Astra 1P/SES-24 satellite?
Option: Starlink 10-1



- Option: Starlink 10-2
- Option: Crew-3
- Option: Inspiration4

Answer

Multiple Choice: 1. Cape Canaveral Space Launch Complex 40 2. Communication satellite 3. Thales Alenia Space 4. Satellite TV services 5. 13 days 6. Starlink 10-2

Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. Which term is used to describe objects related to the sky or outer space?
 - Option: Celestial
 - Option: Energetics
 - Option: Genome
 - Option: Torque
2. What term refers to the study of energy and its transformation?
 - Option: Cancellation
 - Option: Energetics
 - Option: Replicative barriers
 - Option: Hybrid powertrains
3. If a purchase is reversed and the money is given back what term describes this action?
 - Option: Transparency
 - Option: Refunded
 - Option: Turbocharged
 - Option: Neanderthals
4. What is the term for mating or breeding between different species or populations?
 - Option: Luminosity
 - Option: Refunded
 - Option: Interbreeding
 - Option: Infertility
5. What term is used to describe a state of being puzzled or unable to proceed?
 - Option: Enigmatic
 - Option: Stumped



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- Option: Replicative barriers
Option: Hybrid powertrains
6. What concept refers to the inability of genetic material to combine and produce fertile offspring?
Option: Genetic incompatibility
Option: Infotainment system
Option: Torque
Option: Intriguing
7. What technology combines two or more types of power sources for propulsion?
Option: Neanderthals
Option: Cancellation
Option: Hybrid powertrains
Option: Transparency
8. Which word puzzle usually consists of black and white squares arranged in a grid pattern?
Option: Perplexing
Option: Crossword
Option: Infotainment system
Option: Steptonic automatic transmission
9. What term describes something that is fascinating or captivating?
Option: Intriguing
Option: Neanderthals
Option: Revamped
Option: Luminosity
10. Which term refers to an engine equipped with a turbocharger for increased power output?
Option: Energetics
Option: Turbocharged
Option: Infertility
Option: Celestial

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

11. _____ is essential in building trust between individuals and organizations.
12. _____ were an ancient human species that existed in Eurasia.
13. The company _____ its marketing strategy to appeal to a younger audience.
14. The new car model comes with an advanced _____ that includes navigation and



media features.

15. High _____ is essential for powerful acceleration in vehicles.
16. The artist's work was so _____ leaving critics debating its true meaning.
17. The math problem was so _____ that even the advanced students struggled with it.
18. The concert was postponed due to bad weather and ticket holders were offered a _____.
19. The star's _____ or brightness depends on its size and age.
20. Some pesticides can affect soil quality and lead to _____ in plants.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)

21. Astronomers study objects in the realm such as stars and planets.
22. The field of focuses on how energy is transferred and utilized in different systems.
23. The travel agency announced the of the flight due to logistical issues.
24. The engine produces high allowing the car to accelerate quickly.
25. The concept of is common in animals leading to new and varied offspring.
26. were ancient hominids with distinct physical features.
27. The of an organism contains all of its hereditary information.
28. Issues with fertility can lead to and challenges in conception.
29. The company its entire product line to attract a younger demographic.
30. combine traditional internal combustion engines with electric power for improved efficiency.

Answer

- Multiple Choice:** 1. Celestial 2. Energetics 3. Refunded 4. Interbreeding 5. Stumped 6. Genetic incompatibility 7. Hybrid powertrains



8. Crossword 9. Intriguing 10. Turbocharged

Gap-Fill: 11. Transparency 12. Neanderthals 13. Revamped 14. Infotainment system 15. Torque 16. Enigmatic 17. Perplexing 18. Cancellation 19. Luminosity 20. Infertility

Matching sentence: 1. Celestial 2. Energetics 3. Cancellation 4. Torque 5. Interbreeding 6. Neanderthals 7. Genome 8. Infertility 9. Revamped 10. Hybrid powertrains

CATEGORY

1. Sci/Tech - LEVEL6

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