

SpaceX Gears up for a Starlink Mission Launch and the Uncoupling of a Crew Dragon from the ISS on Monday - Spaceflight Now

Description



A meticulously captured file photo of a Falcon 9 prior to an eminent Starlink satellite deployment endeavor. Image source: SpaceX.

As the weekend draws to a close, SpaceX is primed for an exquisitely synchronized pair of Falcon 9 rocket excursions emanating from both Florida and California. Concurrently, the pioneering space exploration and technology company is diligently preparing for the anticipated undocking of the Crew Dragon Endurance, ensconced within the orbiting confines of the International Space Station.

The Falcon 9 rocket, having the formidable duty of dispatching the Starlink 6-43 mission into orbit, is set to ascend majestically from the Space Launch Complex 40 (SLC-40); part of the vast expanse of Cape Canaveral Space Force Station. Its precise departure scheduled for the evening of 7:05 p.m. EDT (2305 UTC). This significant venture has been primed to augment a further 23 Starlink satellites to the already burgeoning low Earth orbit constellation.

A meteorological forecast, meticulously compiled by the 45th Weather Squadron, suggests an over 95 percent probability of benign weather at the proposed moment of liftoff, thus far asserting no additional risk criteria designated as items requiring vigilant attention.

Spaceflight Now, the authoritative and trusted news source for the global space community, will commence its live broadcast coverage an hour prior to the predetermined time of liftoff, offering insightful commentary



and expertise.

The initial stage booster entrusted with propelling this voyage, duly labeled as B1077, prepares for its 11th endeavour into the celestial abyss. Its prolific service record encompasses the successful launch of the Crew-5 mission, the Commercial Resupply Services 28 (CRS-28) mission, and the Northrop Grumman 20 (NG-20) Cygnus journey to the International Space Station.

Merely 8.5 minutes after its departure from the Earth, the booster is scheduled to alight upon the steadfast deck of the SpaceX droneship, quaintly christened 'Just Read the Instructions.' This will add to the stellar track record of JRTI, marking its 74th successful landing, and contributing to a grand total of 218 successful booster landings.

This pivotal mission occurs in the context of a partnership between NASA and SpaceX. They are preparing, with palpable anticipation, for the launch of the first second-generation Cargo Dragon spacecraft bound for the orbiting International Space Station from SLC-40 later this month. Although the precise moment remains unannounced, the launch will signify the inaugural use of the newly erected crew-access tower.

Orgonbound Homeward: Dragon's Return

In the midst of these parallel events, SpaceX, collaborating with NASA's historic establishment, orchestrates the imminent return of the Crew-7 mission's astronaut-cosmonaut quartet from the confines of the ISS.

The uniformed explorers relinquished their residential ties, bid adieu, and conducted a ceremonial changing of the guard with Expedition 70 on Sunday morning. The symbolic key was passed from European Space Agency (ESA) astronaut, Andreas Mogensen, to Russian cosmonaut Oleg Kononenko - thereby formalizing the change.

"You have now surpassed the previous record and are well en route to achieving 1,000 days in space. I can unreservedly confirm that the command could not be in safer hands," Mogensen articulated to Kononenko.

The complex process of undocking the Crew Dragon Endurance is foreseen to commence at 11:05 a.m. EDT (1505 UTC) on the fated day of Monday, March 11, with the splashdown anticipated in the early hours of the following day at approximately 5:35 a.m. EDT (0935 UTC).

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Vocabulary List:

1. **endeavor** // (noun): A serious attempt or effort.
2. **concurrent** // (adjective): Existing happening or done at the same time.
3. **synchronize** // (verb): To cause to occur or operate at the same time or rate.
4. **orbital** // (adjective): Relating to an orbit or orbits.
5. **anticipated** // (adjective): Regarded as probable or likely.
6. **meteorological** // (adjective): Relating to the study of the atmosphere and weather.

Vocabulary quizzes

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

1. Which word is defined as a puzzle or a mystery?

- Option: Comprehension
- Option: Dominion
- Option: Enigma
- Option: Quotient

2. Which word means causing great happiness and excitement?

- Option: Efficient
- Option: Exhilarating
- Option: Descent
- Option: Triumph

3. Which word can refer to a large or impressive grouping or collection?



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- Option: Luminary
Option: Postulate
Option: Array
Option: Anticipated
4. Which word can describe something related to an orbit or rotation?
Option: Anticipated
Option: Meteorological
Option: Orbital
Option: Fragment
5. Which word is typically used to refer to a range of colors or choices available?
Option: Palette
Option: Concurrent
Option: Amplified
Option: Uncontrolled
6. Which word means a serious and determined effort towards a goal?
Option: Burgeoning
Option: Endeavor
Option: Auspicious
Option: Microscopic
7. Which word means to suggest or assume the existence fact or truth of something as a basis for reasoning discussion or belief?
Option: Synchronize
Option: Anticipated
Option: Postulate
Option: Incandescent
8. Which word means a small part broken off or detached?
Option: Efficient
Option: Fragment
Option: Uncontrolled
Option: Levitational
9. Which word refers to sovereignty or control?
Option: Amplified
Option: Burgeoning
Option: Dominion
Option: Luminary
10. Which word means to accelerate or spark a process?



- Option: Concurrent
- Option: Catalyze
- Option: Array
- Option: Array

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

11. Albert Einstein was known as a scientific _____ .
12. The team celebrated their _____ in the championship match.
13. To study the cell structure scientists use _____ equipment.
14. The fire quickly spread due to _____ winds.
15. To save energy it is important to use _____ appliances.
16. The newlyweds found the sunny weather on their wedding day to be _____ .
17. The release of the new tech gadget was highly _____ by fans.
18. The two events will run _____ so attendees will have choices to make.
19. The city's tech industry is _____ with new startups and innovations.
20. The dancers had to _____ their moves to the music for a flawless performance.

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

21. The professor emphasized the importance of studying to increase one's knowledge .
22. The roller coaster ride was so thrilling and that it left everyone screaming with joy.
23. The mountaineers began their treacherous down the icy slope.
24. The satellite was placed in a stable around the Earth.
25. The speaker used a microphone to ensure her voice was to all attendees.
26. The award ceremony celebrated the achievements of several scientists.



27. The new law was intended to positive change in the community.

28. The disappearance of the ancient artifact remains an unsolved in archaeology.

29. The luxurious resort's beachfront location added to its overall .

30. Despite facing numerous challenges the team managed to achieve an incredible .

Answer

Multiple Choice: 1. Enigma 2. Exhilarating 3. Array 4. Orbital 5. Palette 6. Endeavor 7. Postulate 8. Fragment 9. Dominion 10. Catalyze

Gap-Fill: 11. Luminary 12. Triumph 13. Microscopic 14. Uncontrolled 15. Efficient 16. Auspicious 17. Anticipated 18. Concurrent 19. Burgeoning 20. Synchronize

Matching sentence: 1. Quotient 2. Exhilarating 3. Descent 4. Orbital 5. Amplified 6. Illustrious 7. Catalyze 8. Enigma 9. Allure 10. Triumph

CATEGORY

1. Sci/Tech - LEVEL6

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