



CREW-6 MISSION

MISSION OVERVIEW

SpaceX and NASA are targeting no earlier than Monday, February 27 for Falcon 9's launch of Dragon's sixth operational human spaceflight mission (**Crew-6**) to the International Space Station from Launch Complex 39A (LC-39A) at NASA's Kennedy Space Center in Florida. The instantaneous launch window is at 1:45 a.m. ET (6:45 UTC), with a backup opportunity available on Tuesday, February 28 at 1:22 a.m. ET (6:22 UTC).

The Dragon spacecraft supporting this mission previously flew Demo-2, Crew-2, and Axiom Space's Ax-1 to and from the space station. Following stage separation, Falcon 9's first stage will land on the Just Read the Instructions droneship stationed in the Atlantic Ocean.

On its flight to the International Space Station, Dragon executes a series of burns that position the vehicle progressively closer to the station before it performs final docking maneuvers, followed by pressurization of the vestibule, hatch opening, and crew ingress.

During their time on the orbiting laboratory, the crew will conduct over **200 science experiments and technology demonstrations** in areas such as life and physical sciences to advanced materials, technology development, in-space production applications, and even student-led research.

WEBCAST

The **SpaceX webcast** for the Crew-6 mission will go live about one hour before liftoff.

PHOTOS

High-resolution photos will be posted at [flickr.com/spacex](https://www.flickr.com/photos/spacex/).

THE ASTRONAUTS



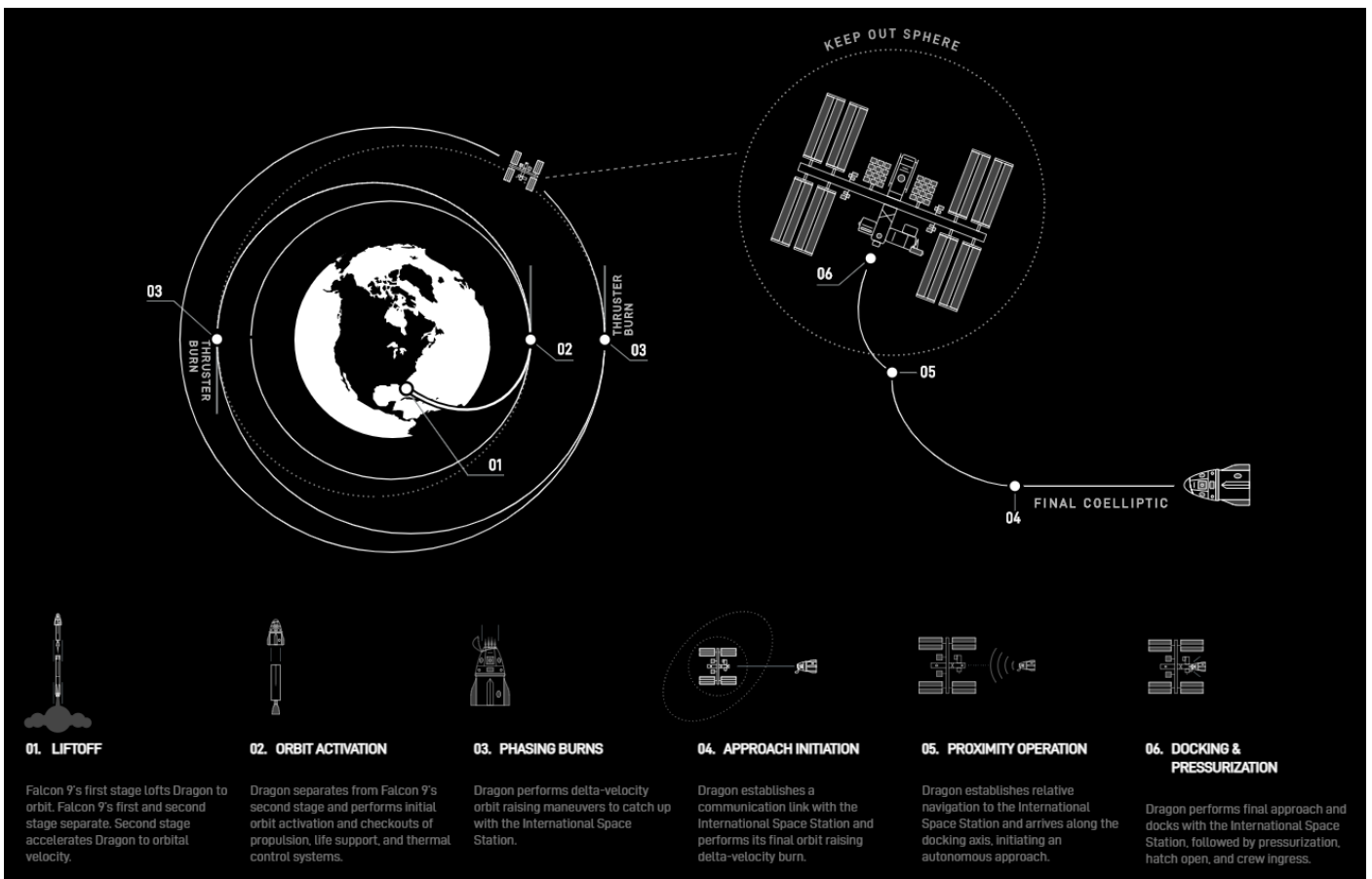
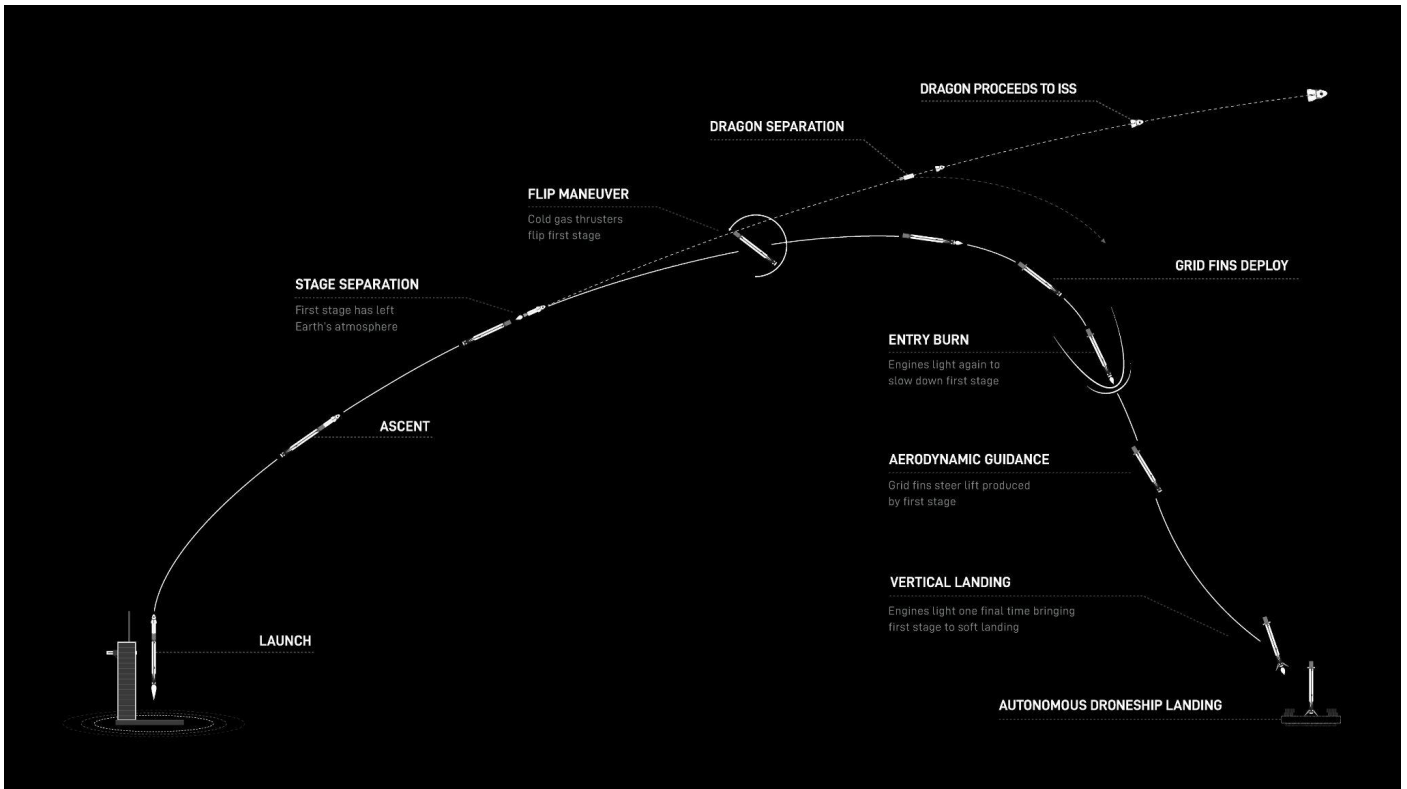
Stephen Bowen

Warren "Woody" Hoburg

Andrey Fedyaev

Sultan Alneyadi

MISSION PROFILE



MISSION TIMELINE (ALL TIMES APPROXIMATE)

COUNTDOWN

Hr/Min/Sec	Event
- 00:45:00	SpaceX Launch Director verifies go for propellant load
- 00:42:00	Crew access arm retracts
- 00:37:00	Dragon's launch escape system is armed
- 00:35:00	RP-1 (rocket grade kerosene) loading begins
- 00:35:00	1st stage LOX (liquid oxygen) loading begins
- 00:16:00	2nd stage LOX loading begins
- 00:07:00	Falcon 9 begins engine chill prior to launch
- 00:05:00	Dragon transitions to internal power
- 00:01:00	Command flight computer to begin final prelaunch checks
- 00:01:00	Propellant tank pressurization to flight pressure begins
- 00:00:45	SpaceX Launch Director verifies go for launch
- 00:00:03	Engine controller commands engine ignition sequence to start
- 00:00:00	Falcon 9 liftoff

LAUNCH, LANDING AND DEPLOYMENT

Hr/Min/Sec	Event
00:01:02	Max Q (moment of peak mechanical stress on the rocket)
00:02:34	1st stage main engine cutoff (MECO)
00:02:38	1st and 2nd stages separate
00:02:45	2nd stage engine starts
00:07:22	1st stage entry burn
00:08:47	2nd stage engine cutoff (SECO-1)
00:08:59	1st stage landing burn
00:09:26	1st stage landing
00:11:57	Dragon separates from 2nd stage
00:12:45	Dragon nosecone open sequence begins