



CREW-3 MISSION

MISSION OVERVIEW

SpaceX and NASA are targeting as soon as Wednesday November 10 for Falcon 9's launch of Dragon's third long-duration crew mission (**Crew-3**) to the International Space Station (ISS) from historic Launch Complex 39A (LC-39A) at NASA's Kennedy Space Center in Florida. The instantaneous launch window opens at 9:03 p.m. EST, or 2:03 UTC on November 11, with a backup opportunity available on Thursday, November 11 at 8:40 p.m. EST, or 1:40 UTC on November 12.

Following stage separation, Falcon 9's first stage will land on the "A Shortfall of Gravitas" droneship stationed in the Atlantic Ocean.

During the Crew-3 mission, NASA astronauts **Raja Chari**, **Tom Marshburn**, **Kayla Barron**, and European Space Agency (ESA) astronaut **Matthias Maurer** will fly aboard the Dragon spacecraft, marking the fifth human spaceflight mission SpaceX has launched since May 2020.

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

WEBCAST

The [webcast](#) for the Crew-3 mission will go live about 4 hours before liftoff.

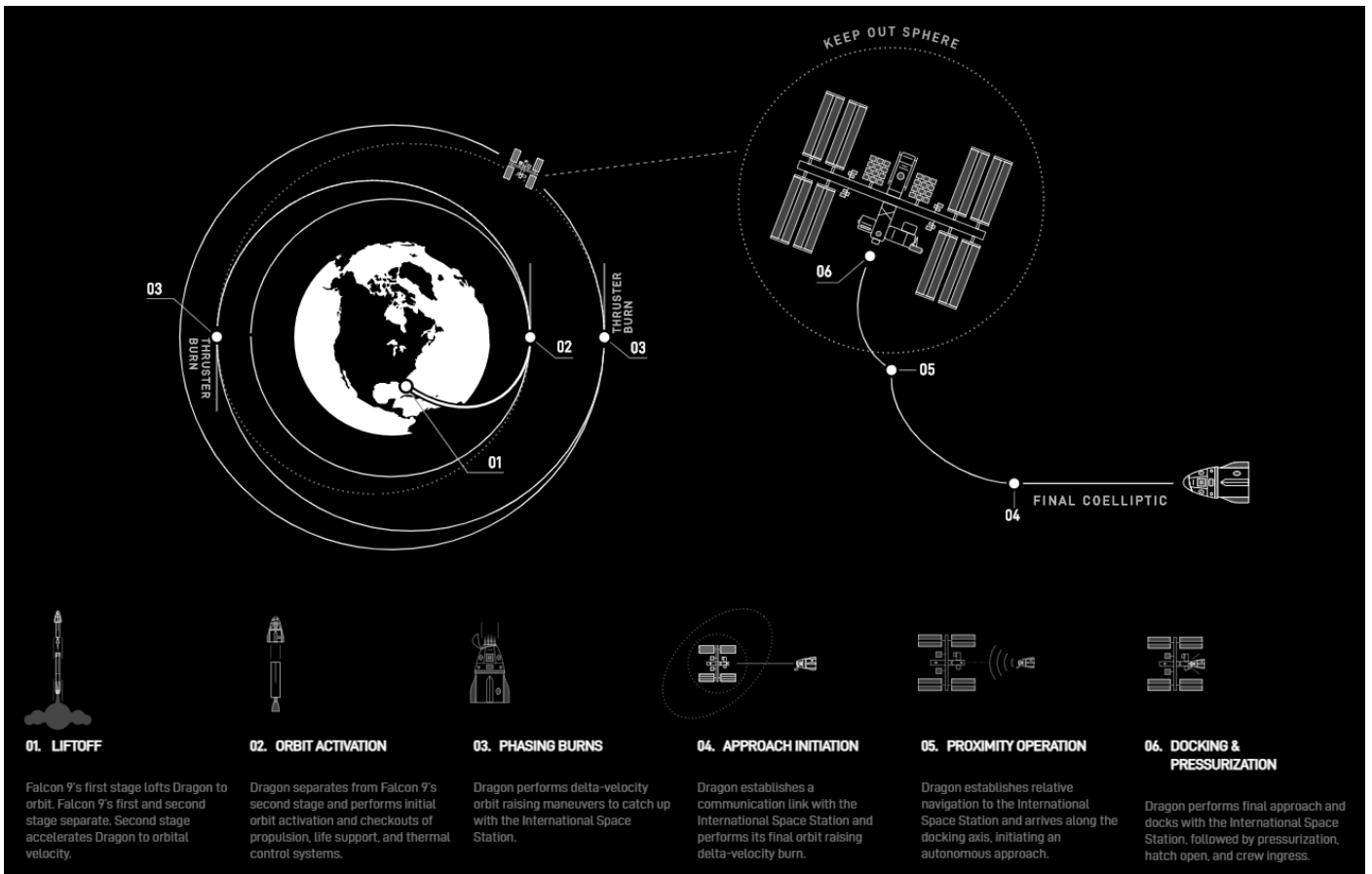
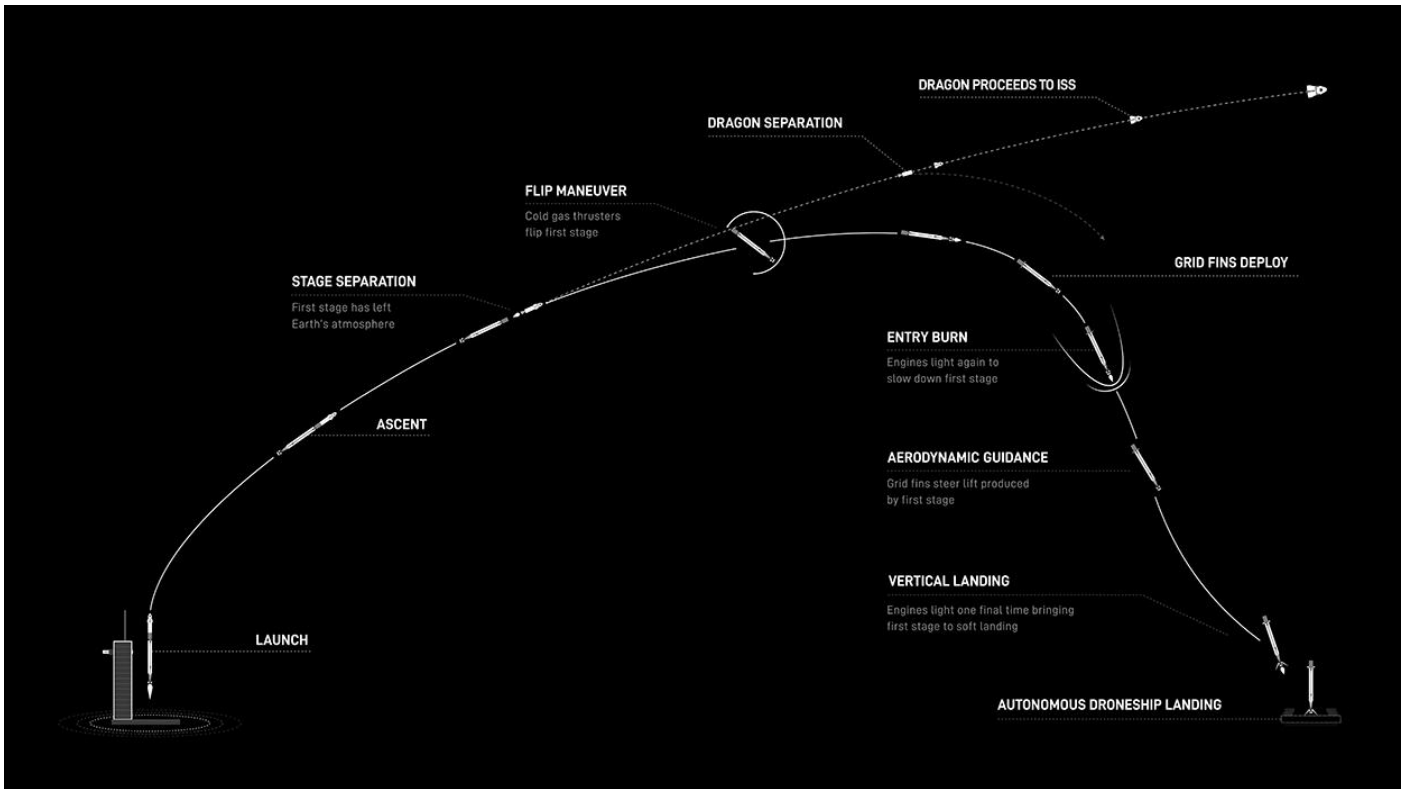
PHOTOS

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

THE ASTRONAUTS



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)
00:02:36	1st stage main engine cutoff (MECO)
00:02:40	1st and 2nd stages separate
00:02:41	2nd stage engine starts
00:07:30	1st stage entry burn
00:08:48	2nd stage engine cutoff (SECO-1)
00:09:02	1st stage landing burn
00:09:29	1st stage landing
00:12:03	Dragon separates from 2nd stage
00:12:51	Dragon nosecone open sequence begins