



CRS-22 MISSION

MISSION OVERVIEW

SpaceX is targeting Thursday, June 3 for Falcon 9's launch of the twenty-second Commercial Resupply Services mission (CRS-22). Liftoff is targeted for 1:29 p.m. EDT, or 17:29 UTC, from Launch Complex 39A (LC-39A) at Kennedy Space Center, Florida. A backup launch opportunity is available on Friday, June 4 at 1:03 p.m. EDT, or 17:03 UTC. Following stage separation, SpaceX will land Falcon 9's first stage on the "Of Course I Still Love You" droneship, which will be located in the Atlantic Ocean. Dragon will separate from Falcon 9's second stage about twelve minutes after liftoff and autonomously dock to the space station on Saturday, June 5.

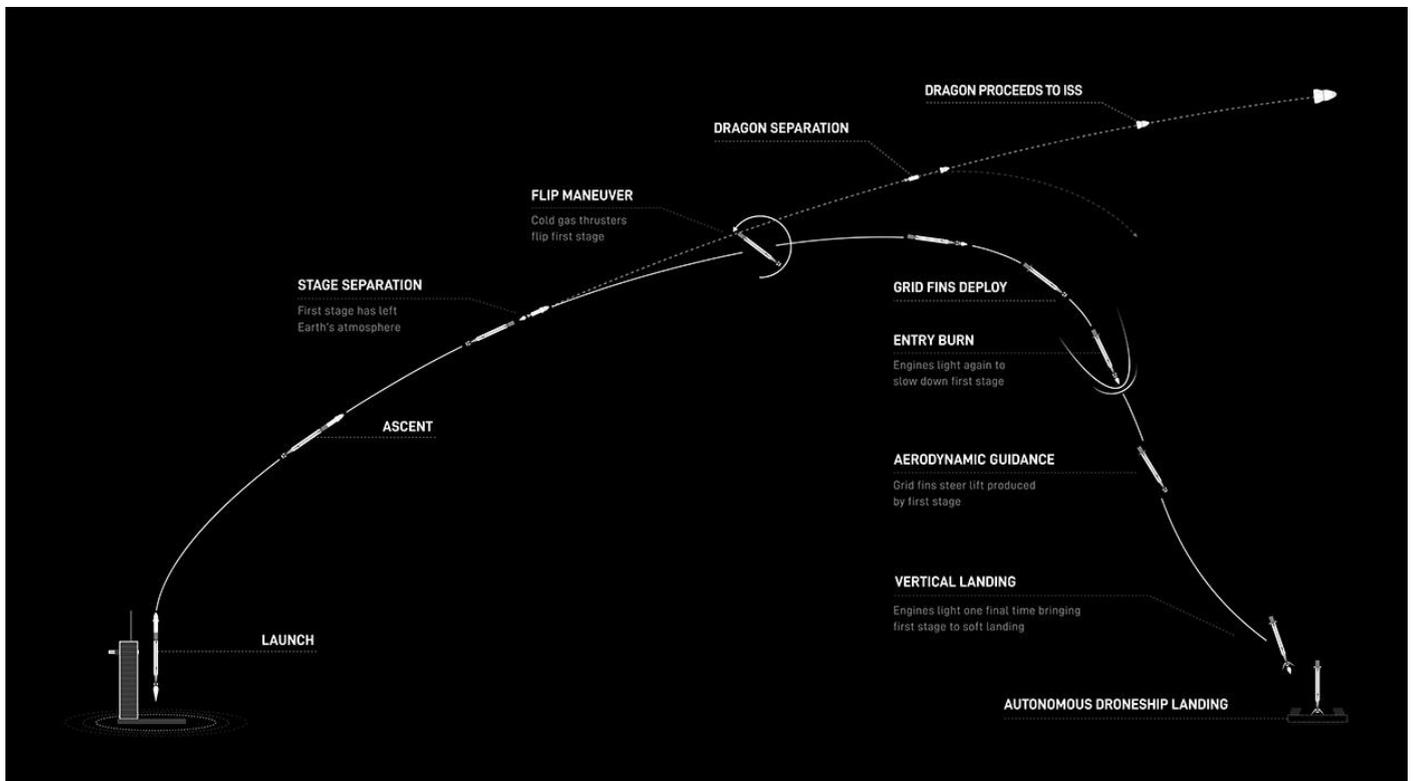
WEBCAST

[A live webcast](#) of this mission will begin about 15 minutes prior to liftoff.

PHOTOS

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

MISSION PROFILE



MISSION TIMELINE (ALL TIMES APPROXIMATE)

COUNTDOWN

Hr/Min/Sec	Event
- 00:38:00	SpaceX Launch Director verifies go for propellant load
- 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 pre-launch engine chill
- 00:05:00	Dragon transitions to internal power
- 00:01:00	Command flight computer to begin final prelaunch checks
- 00:01:00	Propellant tanks pressurize for flight
- 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
00:01:12	Max Q (moment of peak mechanical stress on the rocket)
00:02:26	1st stage main engine cutoff (MECO)
00:02:30	1st and 2nd stages separate
00:02:37	2nd stage engine starts
00:02:43	1st stage boostback burn begins
00:05:52	1st stage entry burn begins
00:07:41	1st stage landing
00:08:39	2nd stage engine cutoff (SECO)
00:11:52	Dragon separates from 2nd stage