

STARLINK GROUP 3-1 MISSION



MISSION OVERVIEW

SpaceX is targeting Sunday, July 10 for a Falcon 9 launch of 46 **Starlink** satellites to low-Earth orbit from Space Launch Complex 4 East (SLC-4E) at Vandenberg Space Force Station in California. The instantaneous launch window is at 6:39 p.m. PT (01:39 UTC on Monday, July 11), and a backup opportunity is available on Monday, July 11 at 6:39 p.m. PT (01:39 UTC on Tuesday, July 12).

The first stage booster supporting this mission previously launched Sentinel-6 Michael Freilich, DART, and three Starlink missions. Following stage separation, Falcon 9's first stage will return to Earth and land on the Of Course I Still Love You droneship stationed in the Pacific Ocean.

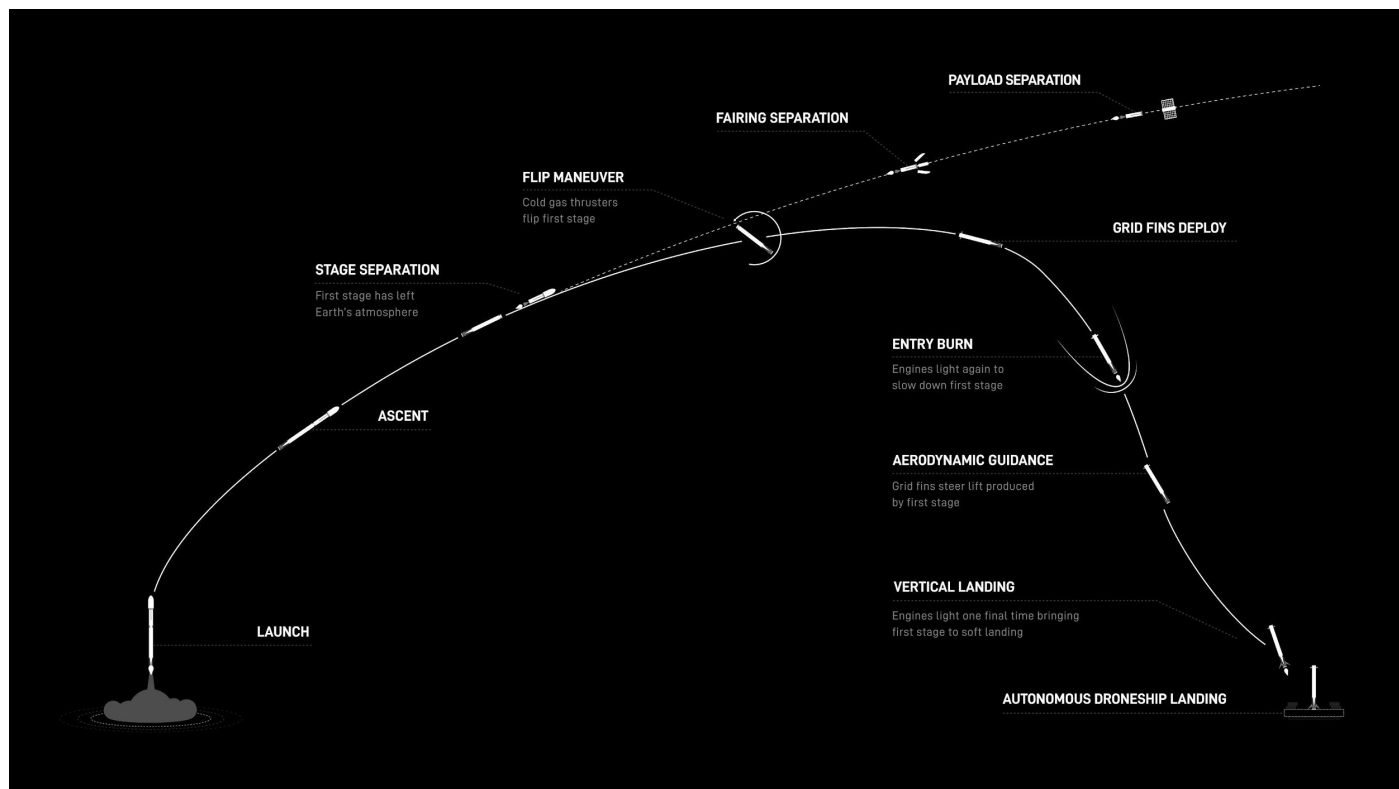
WEBCAST

[A live webcast of this mission](#) will begin about 5 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 underway
- 00:35:00	1st stage LOX (liquid oxygen) loading underway
- 00:16:00	2nd stage LOX loading underway
- 00:07:00	Falcon 9 begins engine chill prior to launch
- 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
00:01:12	Max Q (moment of peak mechanical stress on the rocket)
00:02:28	1st stage main engine cutoff (MECO)
00:02:31	1st and 2nd stages separate
00:02:38	2nd stage engine starts (SES-1)
00:02:44	Fairing deployment
00:06:20	1st stage entry burn start
00:06:39	1st stage entry burn complete
00:08:03	1st stage landing burn start
00:08:25	1st stage landing
00:08:42	2nd stage engine cutoff (SECO-1)
00:53:56	2nd stage engine starts (SES-2)
00:53:57	2nd stage engine cutoff (SECO-2)
01:02:58	Starlink satellites deploy