

STARLINK GROUP 2-4 MISSION



MISSION OVERVIEW

SpaceX is targeting Thursday, January 19 for a Falcon 9 launch of 51 Starlink satellites to low-Earth orbit from Space Launch Complex 4 East (SLC-4E) at Vandenberg Space Force Base in California. The instantaneous launch window is at 7:43 a.m. PT (15:43 UTC), and a backup opportunity is available on Friday, January 20 at 7:09 a.m. PT (15:09 UTC).

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 five 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 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 rocket)
00:02:26	1st stage main engine cutoff (MECO)
00:02:30	1st and 2nd stages separate
00:02:36	2nd stage engine starts (SES-1)
00:02:41	Fairing deployment
00:06:43	1st stage entry burn begins
00:07:03	1st stage entry burn ends
00:08:19	1st stage landing burn begins
00:08:39	2nd stage engine cutoff (SECO-1)
00:08:43	1st stage landing
00:29:00	Starlink satellites deploy