

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.

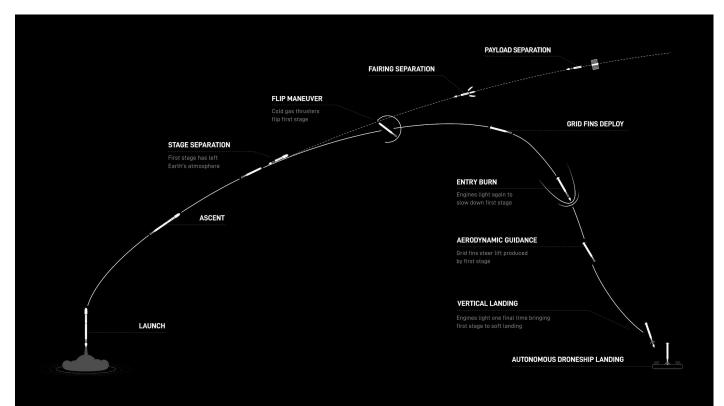
WEBCAST

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**.

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 |
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