

STARLINK GROUP 2-10 MISSION



MISSION OVERVIEW

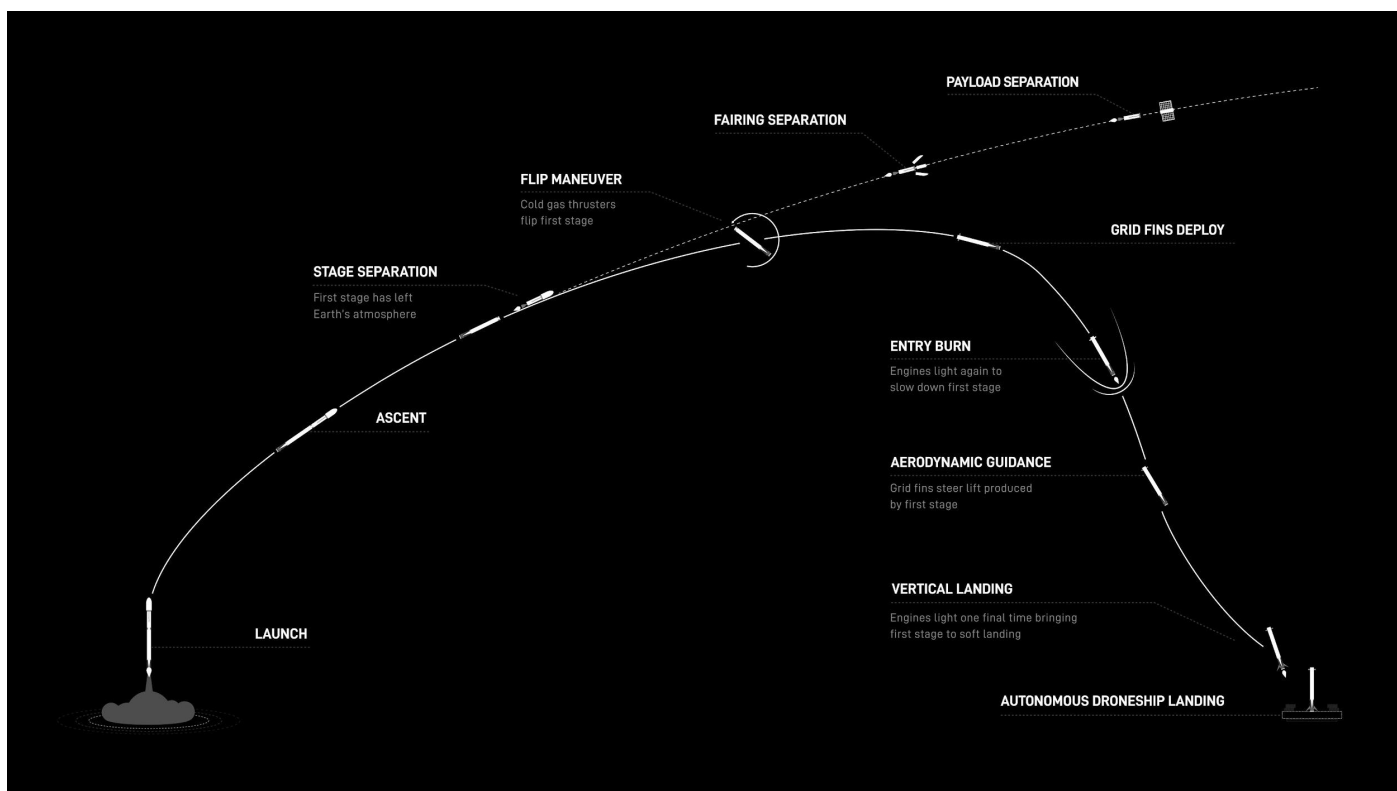
SpaceX is targeting Tuesday, May 30 at 11:02 p.m. PT (06:02 UTC on May 31) for a Falcon 9 launch of 52 **Starlink** satellites to low-Earth orbit from Space Launch Complex 4 East (SLC-4E) at Vandenberg Space Force Base in California. If needed, a backup opportunity is available on Wednesday, May 31 at 10:48 p.m. PT (05:48 UTC on June 1).

The first stage booster supporting this mission previously launched Crew-1, Crew-2, SXM-8, CRS-23, IXPE, Transporter-4, Transporter-5, Globalstar FM15, ISI EROS C-3, and four Starlink missions. Following stage separation, the first stage will 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.

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 the 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 |
| 00:06:42 | 1st stage entry burn begins |
| 00:07:01 | 1st stage entry burn ends |
| 00:08:20 | 1st stage landing burn begins |
| 00:08:40 | 2nd stage engine cutoff (SECO-1) |
| 00:08:43 | 1st stage landing |
| 00:17:21 | Starlink satellites deploy |