

STARLINK GROUP 5-13 MISSION



MISSION OVERVIEW

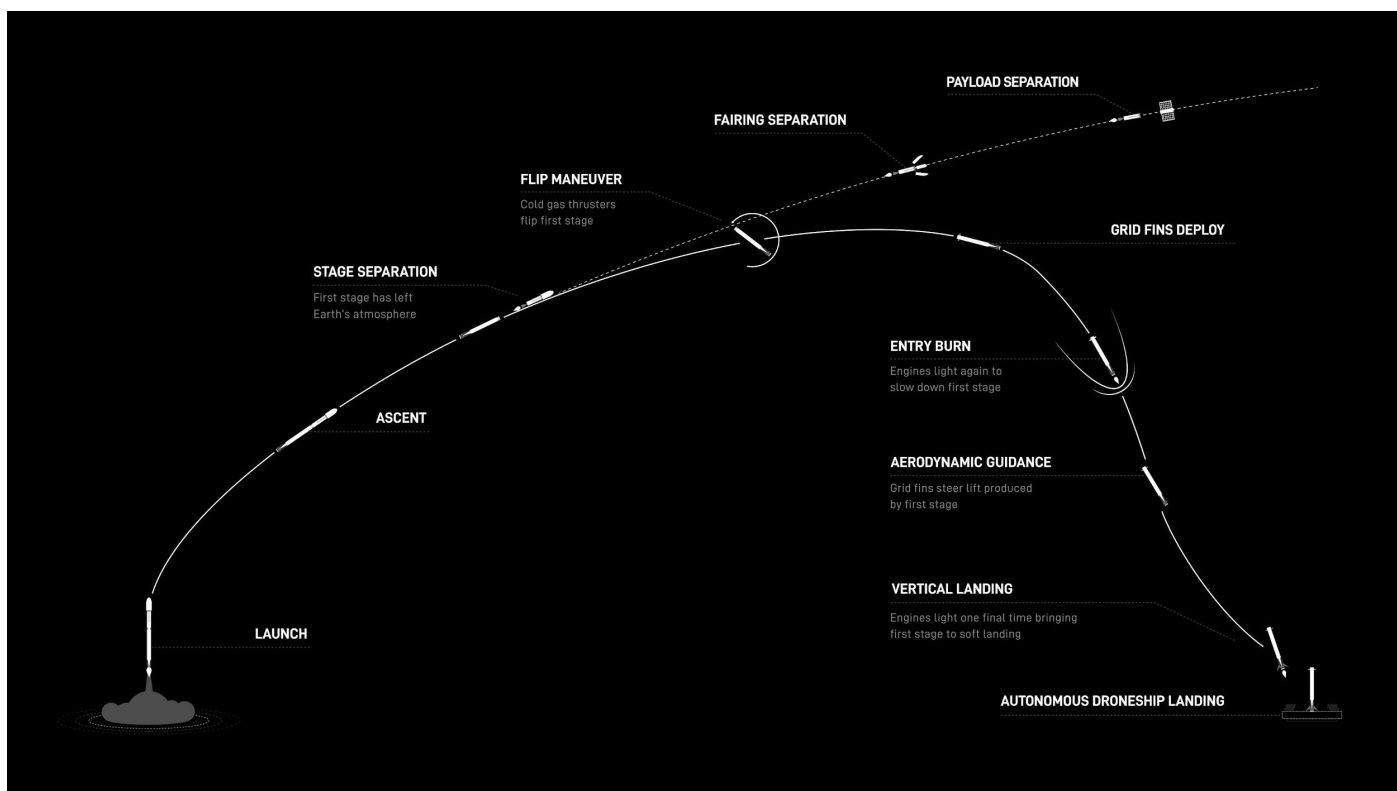
SpaceX is targeting Friday, July 7 at 12:29 p.m. PT (19:29 UTC) for a Falcon 9 launch of 48 **Starlink** satellites to low-Earth orbit from Space Launch Complex 4 East (SLC-4E) at Vandenberg Space Force Base in California. If needed, a backup opportunity is available on Saturday, July 8 at 12:06 p.m. PT (19:06 UTC).

This is the 12th flight for the first stage booster supporting this mission, which previously launched Sentinel-6 Michael Freilich, DART, Transporter-7, Iridium OneWeb, and seven Starlink missions. Following stage separation, the first stage will land on the Of Course I Still Love You dronship, which will be 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)
00:02:31	1st stage main engine cutoff (MECO)
00:02:34	1st and 2nd stages separate
00:02:41	2nd stage engine starts (SES-1)
00:02:46	Fairing deployment
00:06:45	1st stage entry burn begins
00:07:05	1st stage entry burn ends
00:08:26	1st stage landing burn begins
00:08:48	1st stage landing
00:08:45	2nd stage engine cutoff (SECO-1)
00:18:51	Starlink satellites deploy