

STARLINK GROUP 6-13 MISSION



MISSION OVERVIEW

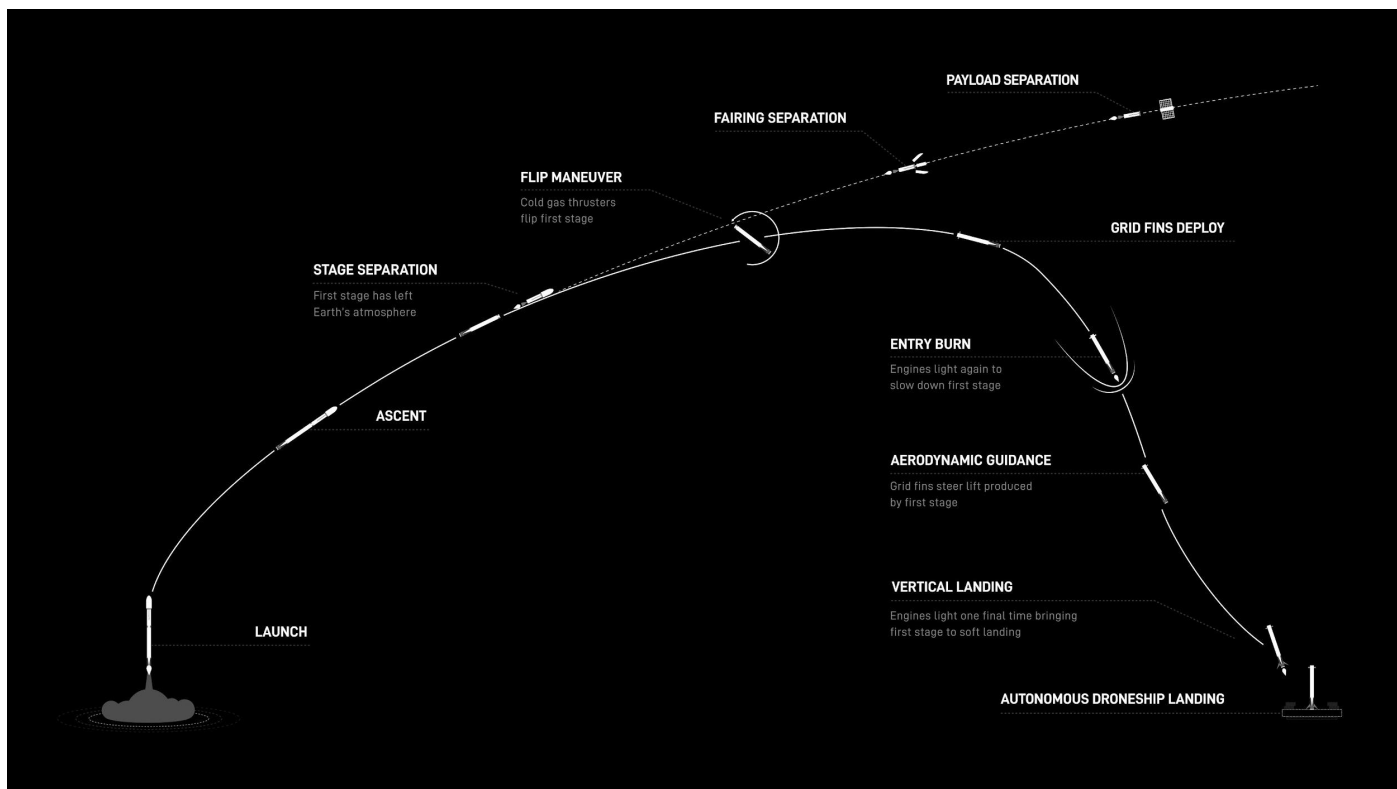
SpaceX is targeting Thursday, August 31 at 7:52 p.m. ET (23:52 UTC) for a Falcon 9 launch of 22 **Starlink** satellites to low-Earth orbit from Space Launch Complex 40 (SLC-40) at Cape Canaveral Space Force Station in Florida. If needed, there are currently five additional launch opportunities starting at 8:40 p.m. ET (00:40 UTC on September 1) until 11:29 p.m. ET (03:29 UTC on September 1). Six backup opportunities are also currently available on Friday, September 1 from 7:25 p.m. ET (23:25 UTC) until 10:56 p.m. ET (02:56 UTC on September 2).

WEBCAST

A live webcast of this mission will begin about five minutes prior to liftoff.

This is the seventh flight for the first stage booster supporting this mission, which previously launched Crew-5, GPS III Space Vehicle 06, Inmarsat I6-F2, CRS-28, Intelsat G-37, and one Starlink mission. Following stage separation, the first stage will land on the A Shortfall of Gravitas droneship, which will be stationed in the Atlantic Ocean.

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)
00:02:25	1st stage main engine cutoff (MECO)
00:02:29	1st and 2nd stages separate
00:02:35	2nd stage engine starts (SES-1)
00:03:03	Fairing deployment
00:06:08	1st stage entry burn begins
00:06:31	1st stage entry burn ends
00:08:04	1st stage landing burn begins
00:08:26	1st stage landing
00:08:39	2nd stage engine cutoff (SECO-1)
00:54:04	2nd stage engine starts (SES-2)
00:54:05	2nd stage engine cutoff (SECO-2)
01:05:13	Starlink satellites deploy