

STARLINK GROUP 5-9 MISSION



MISSION OVERVIEW

SpaceX is targeting Sunday, May 14 at 1:03 a.m. ET (05:03 UTC) for a Falcon 9 launch of 56 **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 additional launch opportunities the same day at 2:44 a.m. ET (06:44 UTC), and 4:25 a.m. ET (8:25 UTC). Backup opportunities are also available on Monday, May 15 at 12:38 a.m. ET (04:38 UTC), 2:19 a.m. ET (06:19 UTC), and 4:00 a.m. ET (08:00 UTC).

WEBCAST

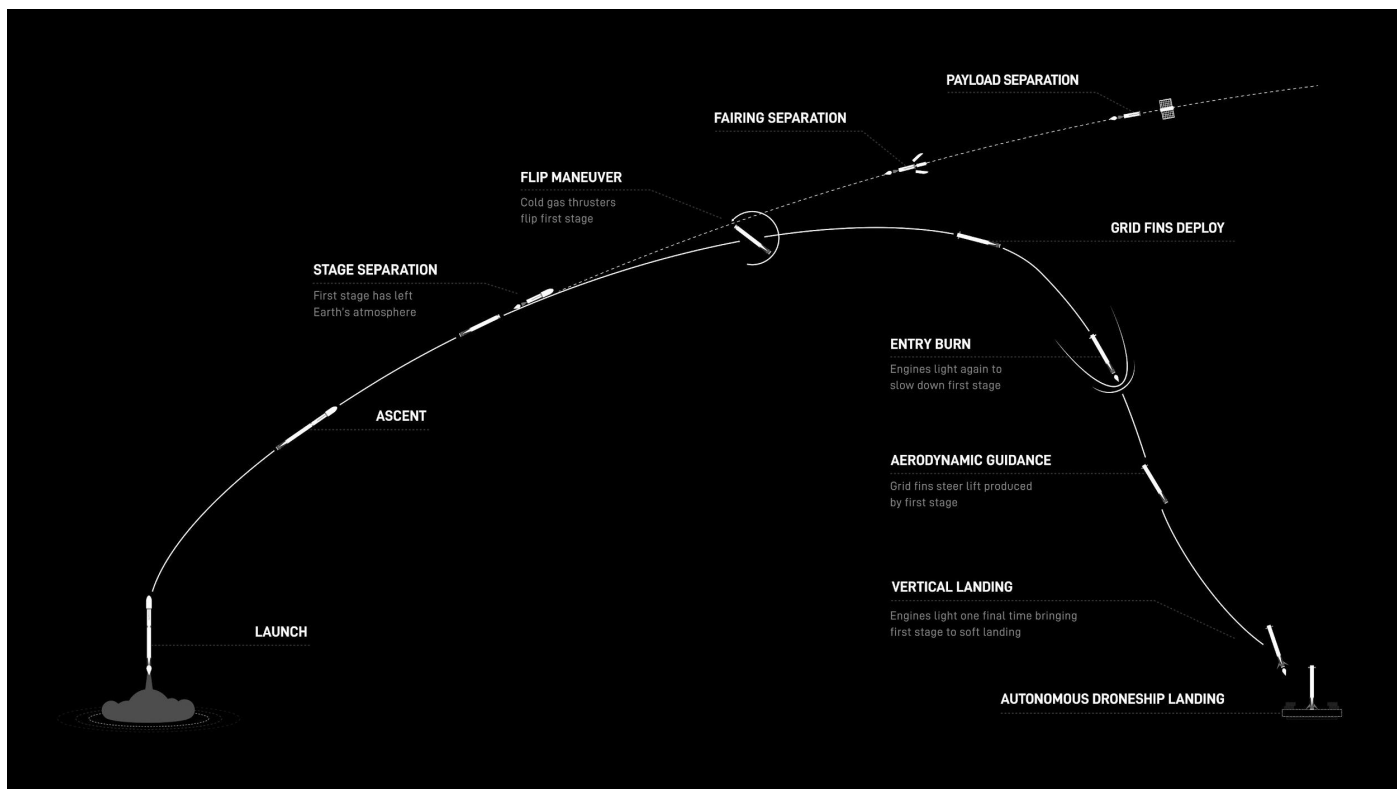
A live webcast of this mission will begin about five minutes prior to liftoff.

PHOTOS

High-resolution photos will be posted at [flickr.com/spacex](https://www.flickr.com/photos/spacex/).

This is the eleventh flight for the first stage booster supporting this mission, which previously launched CRS-22, Crew-3, Turksat 5B, Crew-4, CRS-25, Eutelsat HOTBIRD 13G, mPOWER-a and three Starlink missions. Following stage separation, the first stage will land on the Just Read the Instructions dronship, 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)
00:02:28	1st stage main engine cutoff (MECO)
00:02:31	1st and 2nd stages separate
00:02:38	2nd stage engine starts (SES-1)
00:02:46	Fairing deployment
00:06:13	1st stage entry burn begins
00:06:32	1st stage entry burn ends
00:08:08	1st stage landing burn begins
00:08:29	1st stage landing
00:08:36	2nd stage engine cutoff (SECO-1)
00:54:05	2nd stage engine starts (SES-2)
00:54:07	2nd stage engine cutoff (SECO-2)
01:04:53	Starlink satellites deploy