

STARLINK-9 MISSION

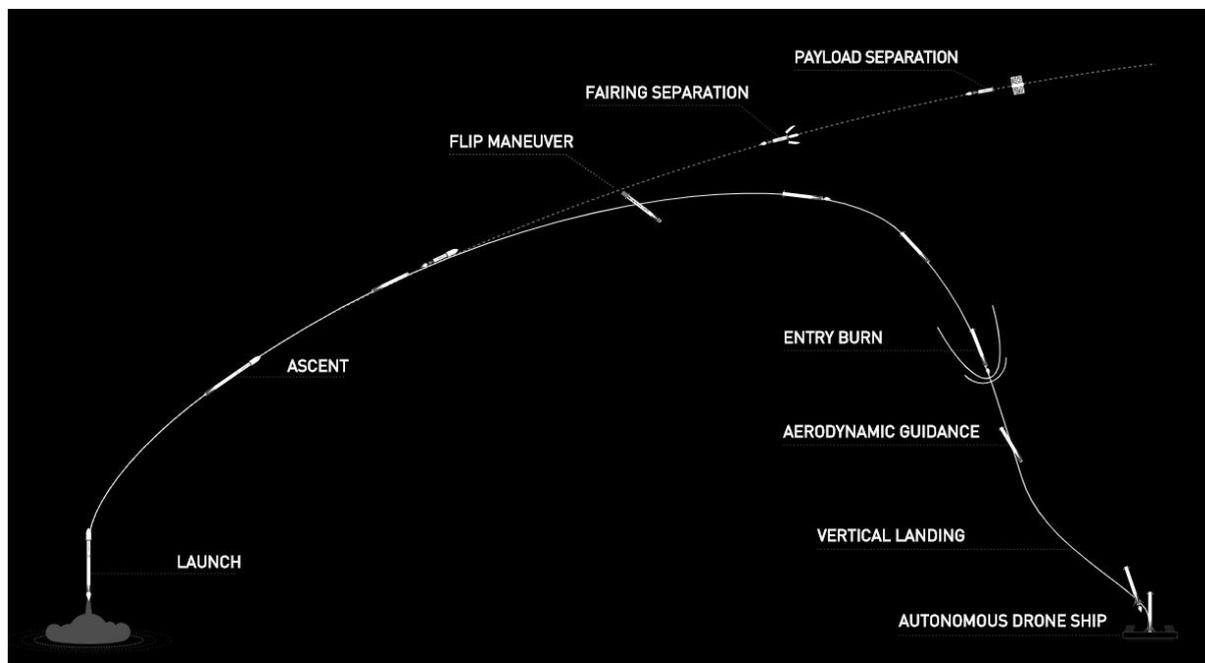
MISSION OVERVIEW

SpaceX is targeting Saturday, June 13 at 5:21 a.m. EDT, 9:21 UTC, for launch of its ninth Starlink mission, which will include 58 Starlink satellites and three of [Planet's SkySats](#). Falcon 9 will lift off from Space Launch Complex 40 (SLC-40) at Cape Canaveral Air Force Station, and a backup opportunity is available on Sunday, June 14 at 4:59 a.m. EDT, 8:59 UTC. This mission marks SpaceX's first SmallSat Rideshare Program launch.

Falcon 9's first stage previously supported Dragon's 19th and 20th resupply missions to the International Space Station. Following stage separation, SpaceX will land Falcon 9's first stage on the "Of Course I Still Love You" droneship, which will be stationed in the Atlantic Ocean.

One half of Falcon 9's fairing previously flew on the JCSAT-18/Kacific1 mission, and the other half previously flew on SpaceX's third Starlink mission. Planet's SkySats will deploy sequentially beginning about 12 minutes after liftoff, and the Starlink satellites will deploy approximately 26 minutes after liftoff.

You can watch the launch webcast [here](#), starting about 10 minutes before liftoff.



MISSION TIMELINE

COUNTDOWN

All Times Are Approximate

Hr/Min/Sec	Event
- 00:38:00	SpaceX Launch Director verifies go for propellant load
- 00:35:00	RP-1 (rocket grade kerosene) loading underway
- 00:35:00	1st stage LOX (liquid oxygen) loading underway
- 00:16:00	2nd stage LOX loading underway
- 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

All Times Are Approximate

Hr/Min/Sec	Event
00:01:12	Max Q (moment of peak mechanical stress on the rocket)
00:02:32	1st stage main engine cutoff (MECO)
00:02:36	1st and 2nd stages separate
00:02:43	2nd stage engine starts
00:03:11	Fairing deployment
00:07:03	1st stage entry burn complete
00:08:42	1st stage landing
00:08:53	2nd stage engine cutoff (SECO-1)
00:12:34	SkySat-18 deployment
00:13:04	SkySat-17 deployment
00:13:34	SkySat-16 deployment
00:26:00	Starlink satellites deploy