



UPCOMING LAUNCH

STARLINK MISSION

WATCH

SpaceX is targeting Thursday, December 14 for a Falcon 9 launch of 21 **Starlink** satellites to low-Earth orbit from Space Launch Complex 4 East (SLC-4E) at Vandenberg Space Force Base in California. Liftoff is targeted for 9:04 p.m. PT, with backup opportunities available until 12:37 a.m. PT on Friday, December 15. If needed, additional opportunities are also available on Friday, December 15 starting at 9:19 p.m. PT.

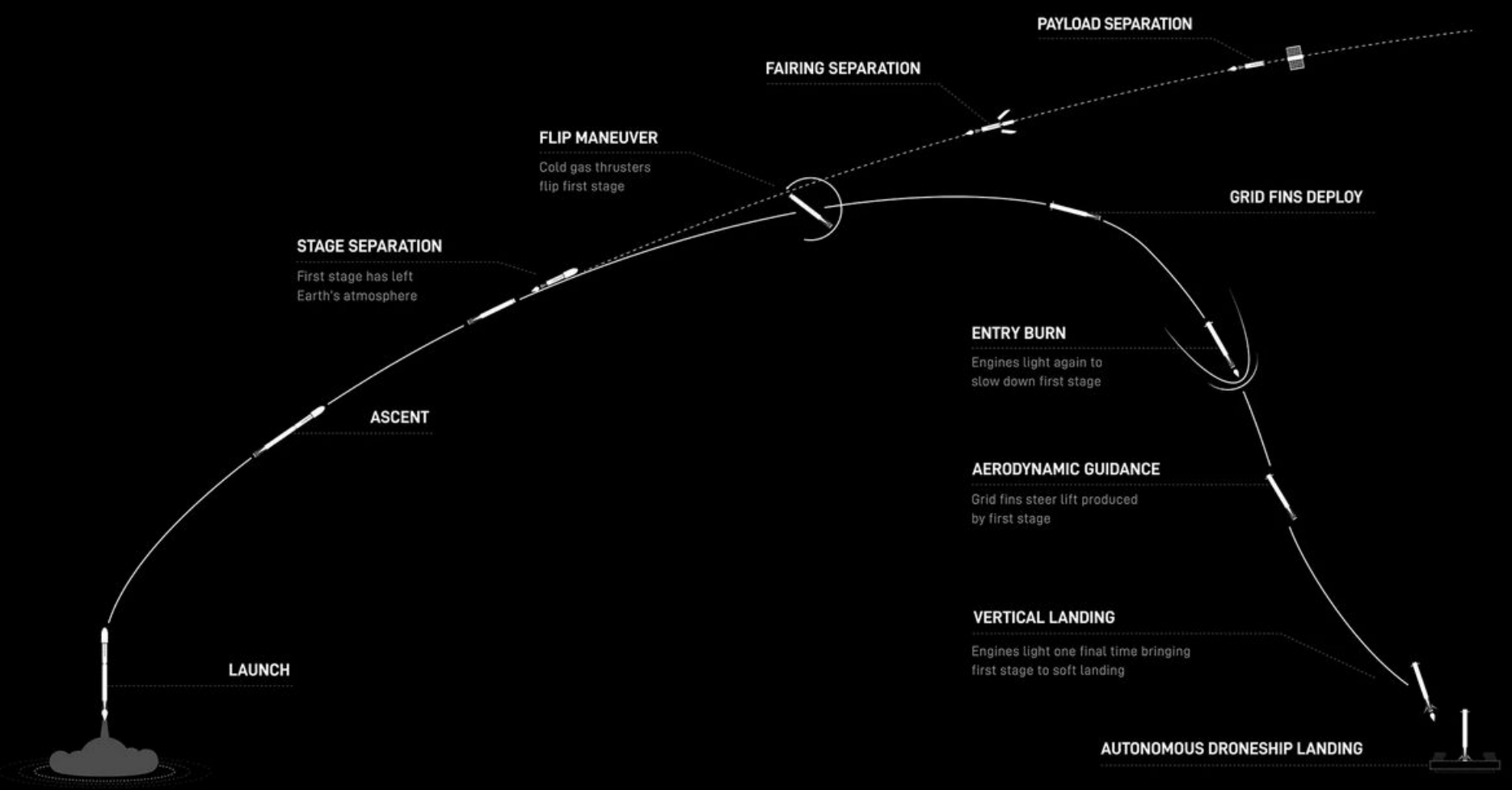
A live webcast of this mission will begin on **X @SpaceX** about fifteen minutes prior to liftoff. **Watch live.**

This is the first flight for the first stage booster supporting this mission. 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.

This launch will include the first six Starlink satellites with **Direct to Cell** capabilities that will enable mobile network operators around the world to provide seamless global access to texting, calling, and browsing wherever you may be on land, lakes, or coastal waters.

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

All times are approximate

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)
00:02:29	1st and 2nd stages separate
00:02:35	2nd stage engine starts (SES-1)
00:03:04	Fairing deployment
00:06:17	1st stage entry burn begins
00:06:37	1st stage entry burn ends
00:08:12	1st stage landing burn begins
00:08:33	1st stage landing
00:08:39	2nd stage engine cutoff (SECO-1)
00:53:35	2nd stage engine starts (SES-2)
00:53:38	2nd stage engine cutoff (SECO-2)
01:02:39	Starlink satellites deploy