



SENTINEL-6 MICHAEL FREILICH MISSION

MISSION OVERVIEW

SpaceX is targeting Saturday, November 21 for Falcon 9's launch of the [Sentinel-6 Michael Freilich mission](#) from Space Launch Complex 4E (SLC-4E) at Vandenberg Air Force Base in California. The instantaneous launch window is at 9:17 a.m. PST, 17:17 UTC, and a backup opportunity is available on Sunday, November 22 with an instantaneous launch window at 9:04 a.m. PST, 17:04 UTC.

Following stage separation, Falcon 9's first stage will return to Earth and land on Landing Zone 4 at Vandenberg Air Force Base. The spacecraft will deploy approximately 53 minutes after liftoff.

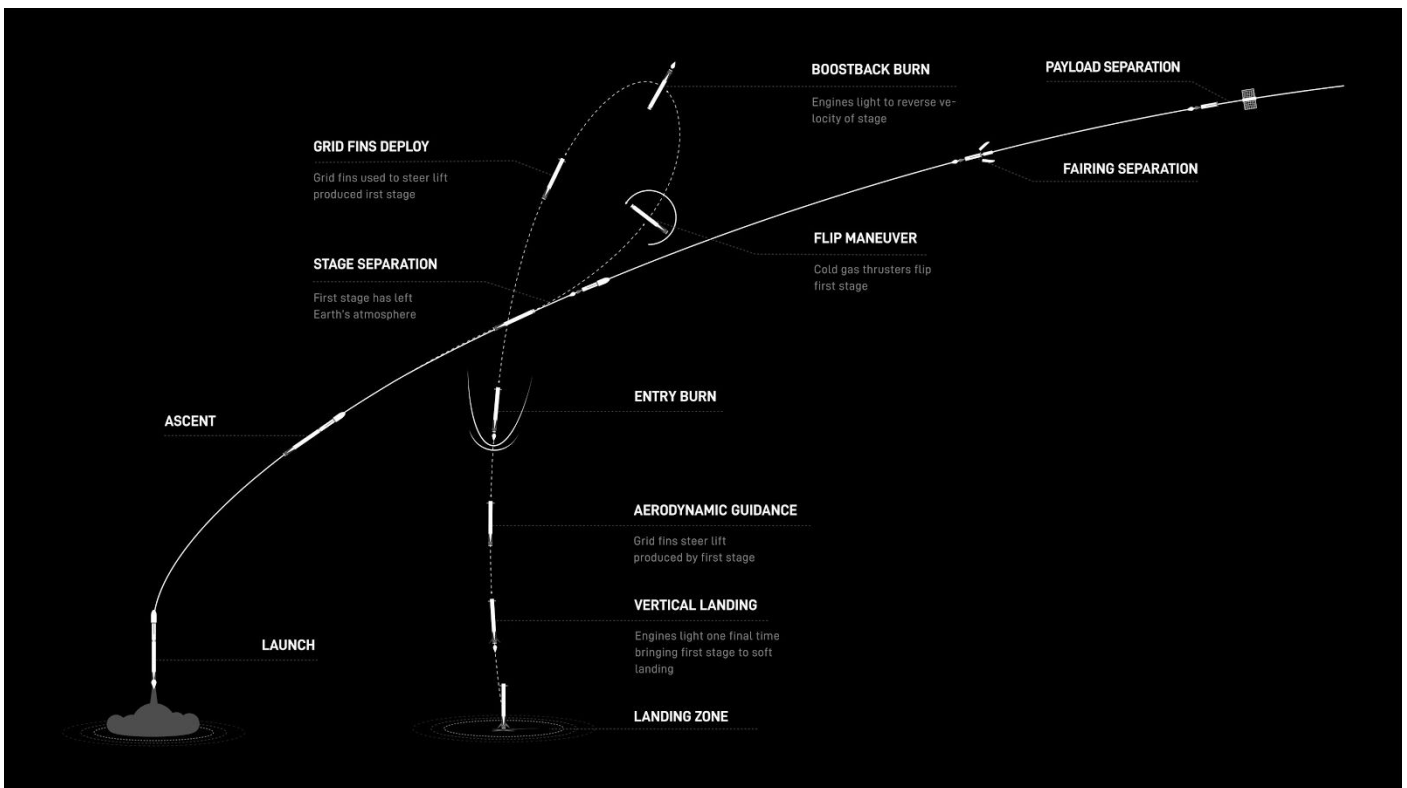
WEBCAST

You can watch the launch webcast [here](#), which will begin at 8:45 a.m. PST on launch day.

PHOTOS

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

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 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

Hr/Min/Sec	Event
00:01:01	Max Q (moment of peak mechanical stress on the rocket)
00:02:17	1st stage main engine cutoff (MECO)
00:02:21	1st and 2nd stages separate
00:02:28	2nd stage engine starts (SES-1)
00:02:50	Fairing deployment
00:06:55	1st stage entry burn complete
00:08:18	2nd stage engine cutoff (SECO-1)
00:08:19	1st stage landing
00:53:18	2nd stage engine starts (SES-2)
00:53:28	2nd stage engine cutoff (SECO-2)
00:53:29	Sentinel-6 deployment