



## GPS III SV04 MISSION

### MISSION OVERVIEW

SpaceX is targeting Thursday, November 5 for a Falcon 9 launch of the United States Space Force's [GPS III Space Vehicle 04](#) from Space Launch Complex 40 (SLC-40) at Cape Canaveral Air Force Station in Florida. The 15-minute launch window opens at 6:24 p.m. EST, 23:24 UTC, and a backup opportunity is available on Friday, November 6 with a 15-minute backup window opening at 6:20 p.m. EST, 23:20 UTC.

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. The spacecraft will deploy approximately 1 hour and 29 minutes after liftoff.

In September 2020, the United States Space Force's Space and Missile Systems Center (SMC) announced an agreement with SpaceX to launch previously flown first stage boosters on future [National Security Space Launch \(NSSL\) missions](#).

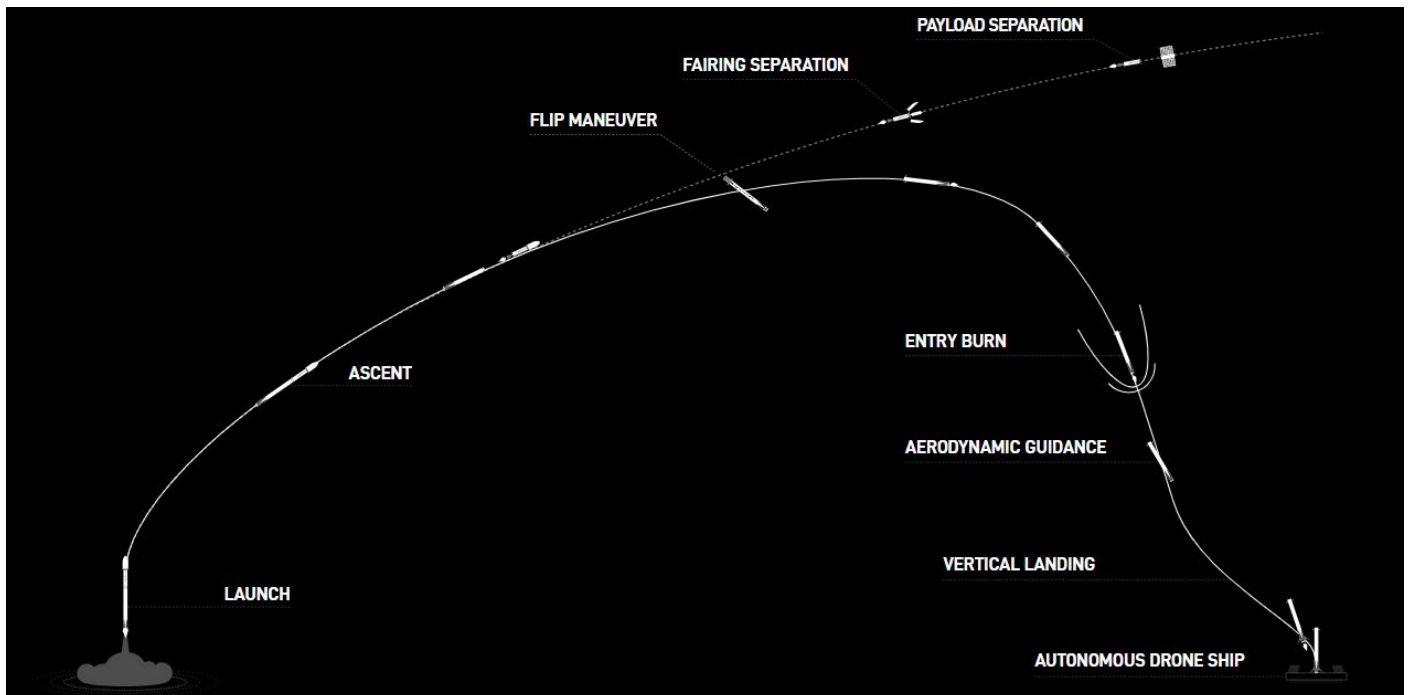
### WEBCAST

You can watch the launch webcast [here](#), starting about 15 minutes before liftoff.

### PHOTOS

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

### MISSION PROFILE



# MISSION TIMELINE (ALL TIMES APPROXIMATE)

## COUNTDOWN

<b>Hr/Min/Sec</b>	<b>Event</b>
- 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

<b>Hr/Min/Sec</b>	<b>Event</b>
00:01:11	Max Q (moment of peak mechanical stress on the rocket)
00:02:31	1st stage main engine cutoff (MECO)
00:02:35	1st and 2nd stages separate
00:02:42	2nd stage engine starts (SES-1)
00:03:27	Fairing deployment
00:06:47	1st stage entry burn complete
00:08:07	2nd stage engine cutoff (SECO-1)
00:08:35	1st stage landing
01:03:32	2nd stage engine starts (SES-2)
01:04:17	2nd stage engine cutoff (SECO-2)
01:29:18	GPS III Space Vehicle 04 deployment