

# STARLINK GROUP 4-16 MISSION



## MISSION OVERVIEW

SpaceX is targeting Friday, April 29 for a Falcon 9 launch of 53 **Starlink** satellites to low-Earth orbit from Space Launch Complex 40 (SLC-40) at Cape Canaveral Space Force Station in Florida. The instantaneous launch window is at 5:27 p.m. ET, or 21:27 UTC, and a backup opportunity is available on Saturday, April 30 at 5:05 p.m. ET, or 21:05 UTC.

The first stage booster supporting this mission previously launched GPS III Space Vehicle 04, GPS III Space Vehicle 05, Inspiration4, one Starlink mission, and most recently the Ax-1 mission on April 8, 2022. Following stage separation, Falcon 9's first stage will return to Earth and land on the Just Read the Instructions droneship stationed in the Atlantic Ocean.

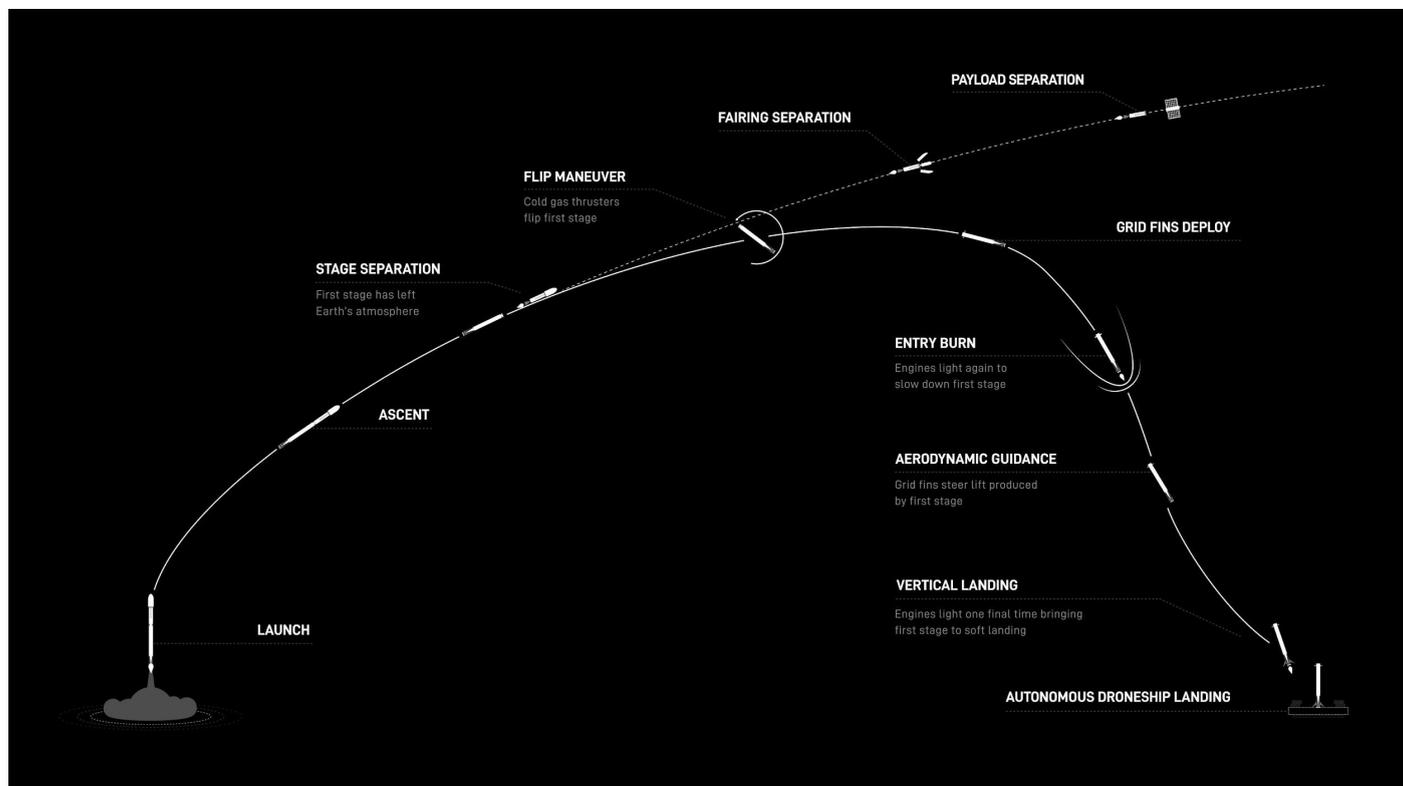
## WEBCAST

[A live webcast of this mission](#) will begin about 15 minutes prior to liftoff.

## 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

<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>
00:01:12	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)
00:02:50	Fairing deployment
00:06:13	1st stage entry burn begins
00:06:32	1st stage entry burn complete
00:08:02	1st stage landing burn begins
00:08:24	1st stage landing
00:08:49	2nd stage engine cutoff (SECO-1)
00:45:22	2nd stage engine starts (SES-2)
00:45:24	2nd stage engine cutoff (SECO-2)
00:59:30	Starlink satellites deploy