

# SES O3B MPOWER B MISSION



## MISSION OVERVIEW

SpaceX is targeting Friday, April 28 for a Falcon 9 launch of the **SES O3b mPOWER mission** to medium-Earth orbit from Space Launch Complex 40 (SLC-40) at Cape Canaveral Space Force Station in Florida. The 88-minute launch window opens at 5:12 p.m. ET (21:12 UTC). If needed, a backup opportunity is available Saturday, April 29 with the same window.

The first stage booster supporting this mission previously launched Crew-6. Following stage separation, the first stage will land on the Just Read the Instructions droneship, which will be stationed in the Atlantic Ocean.

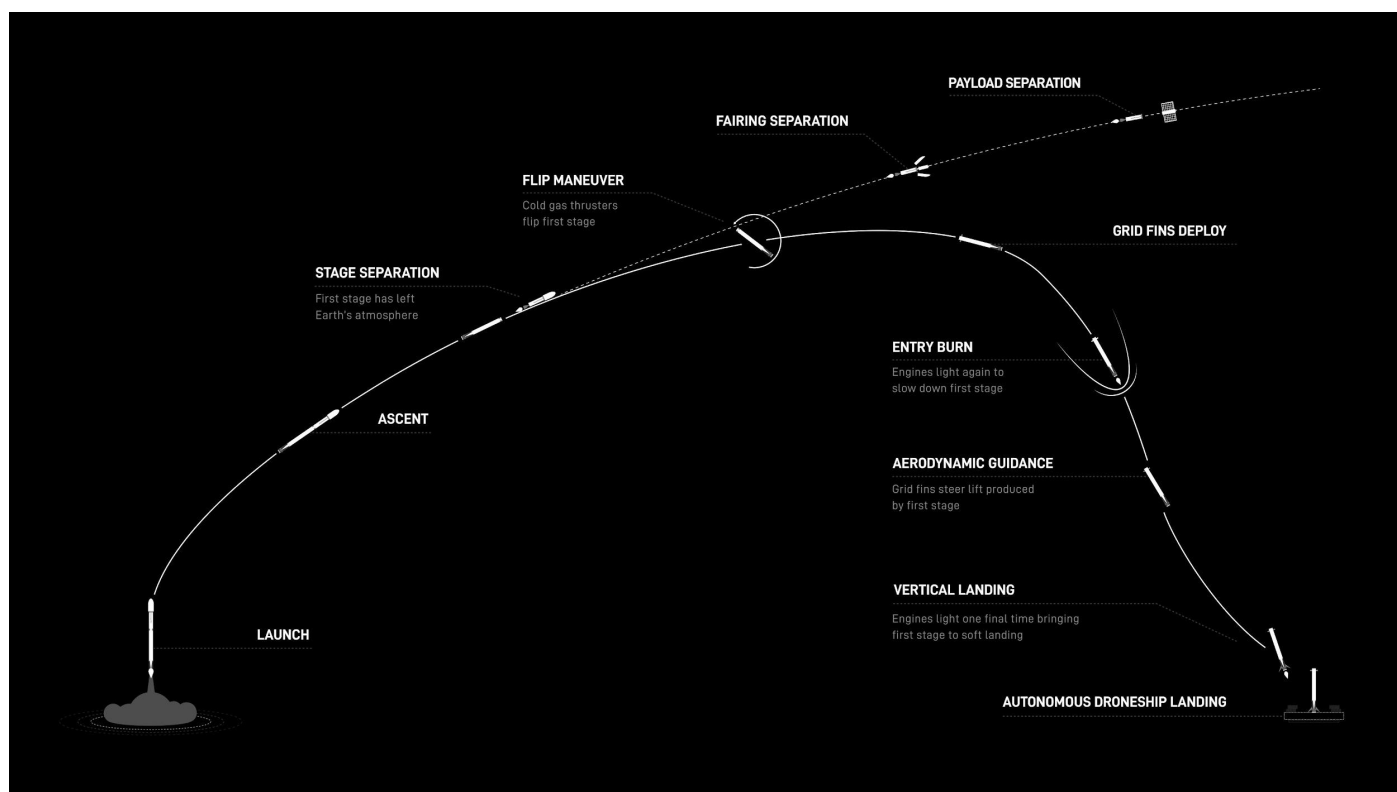
## WEBCAST

A live webcast of this mission will begin about five 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 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

<b>Hr/Min/Sec</b>	<b>Event</b>
00:01:12	Max Q (moment of peak mechanical stress on the rocket)
00:02:33	1st stage main engine cutoff (MECO)
00:02:36	1st and 2nd stages separate
00:02:44	2nd stage engine starts
00:03:23	Fairing deployment
00:06:30	1st stage entry burn start
00:06:52	1st stage entry burn ends
00:08:01	2nd stage engine cutoff (SECO-1)
00:08:22	1st stage landing burn start
00:08:46	1st stage landing
00:27:12	2nd stage engine starts (SES-2)
00:27:44	2nd stage engine cutoff (SECO-2)
01:49:50	2nd stage engine starts (SES-3)
01:50:18	2nd stage engine cutoff (SECO-3)
01:53:19	First O3b mPOWER satellite deploys
02:00:19	Second O3b mPOWER satellite deploys