

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.

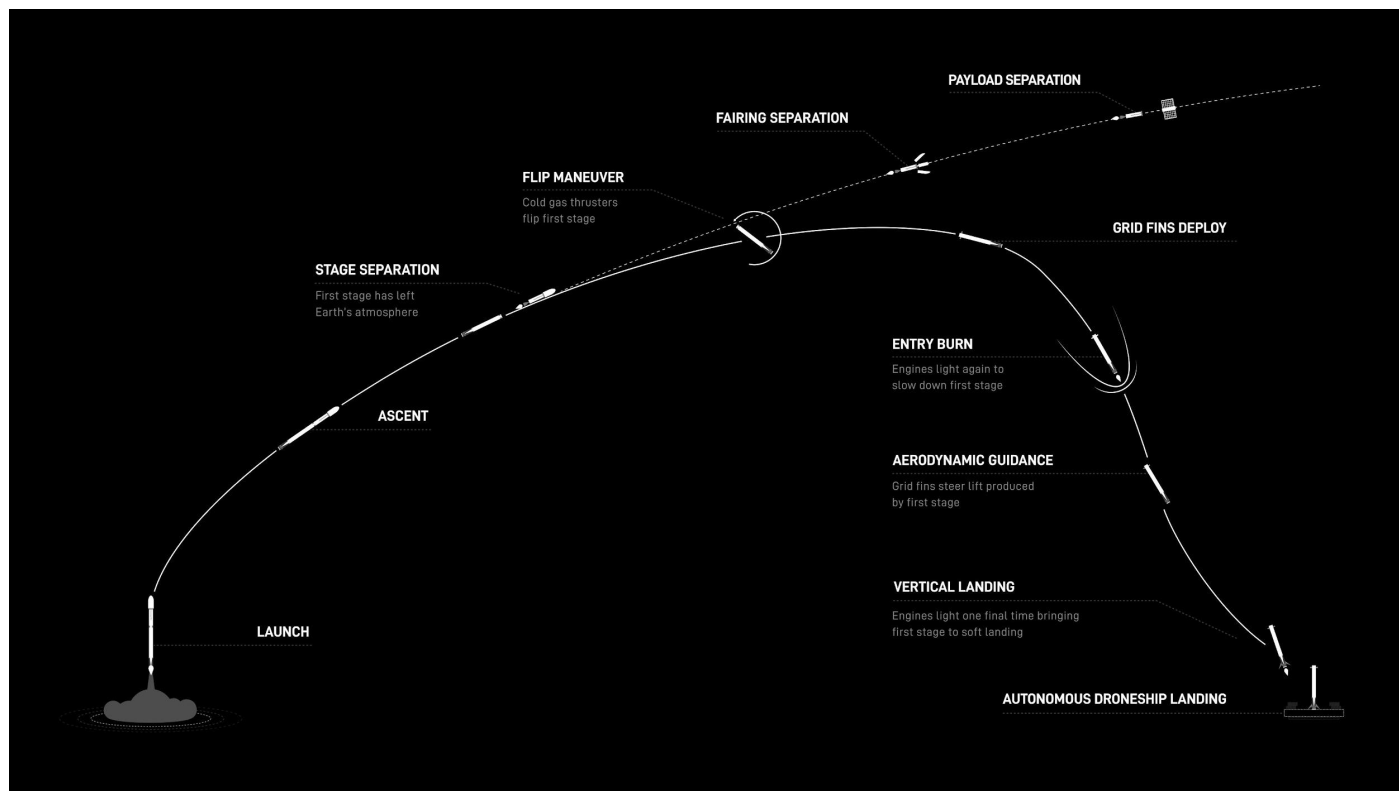
WEBCAST

A live webcast of this mission will begin about 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

| 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

| Hr/Min/Sec | Event |
|-------------------|--|
| 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 |