



NILESAT 301 MISSION

MISSION OVERVIEW

SpaceX is targeting Wednesday, June 8 for launch of Nilesat 301 to a geosynchronous transfer orbit from Space Launch Complex 40 (SLC-40) at Cape Canaveral Space Force Station in Florida. The two-hour and twenty-nine-minute window opens at 5:04 p.m. ET, 21:04 UTC. A backup launch opportunity is available on Thursday, June 9 with the same window.

WEBCAST

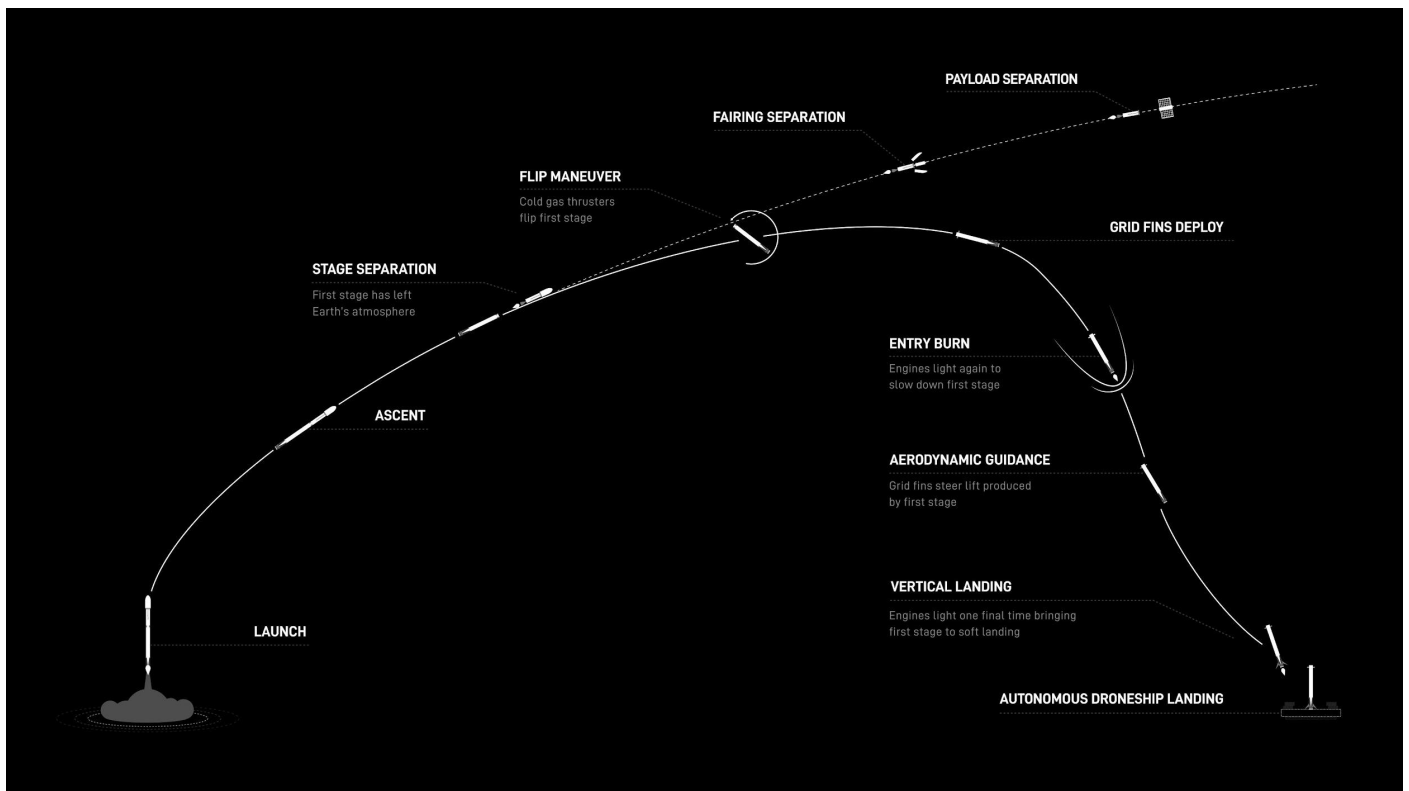
[A live webcast of this mission](#) will begin about 10 minutes prior to liftoff.

PHOTOS

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

The Falcon 9 first stage booster supporting this mission previously supported the launch of GPS III Space Vehicle 04, GPS III Space Vehicle 05, Inspiration4, Ax-1, and two Starlink missions. After stage separation, the first stage will land on the Just Read the Instructions droneship, which will be stationed in the Atlantic Ocean.

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 |
|-------------------|--|
| 00:01:12 | Max Q (moment of peak mechanical stress on the rocket) |
| 00:02:34 | 1st stage main engine cutoff (MECO) |
| 00:02:37 | 1st and 2nd stages separate |
| 00:02:45 | 2nd stage engine starts |
| 00:03:24 | Fairing deployment |
| 00:06:28 | 1st stage entry burn begins |
| 00:06:50 | 1st stage entry burn complete |
| 00:08:05 | 2nd stage engine cutoff (SECO) |
| 00:08:19 | 1st stage landing burn begins |
| 00:08:42 | 1st stage landing |
| 00:26:56 | 2nd stage engine restarts |
| 00:28:02 | 2nd stage engine cutoff (SECO-2) |
| 00:33:13 | Nilesat 301 deployment |