



# ARABSAT BADR-8 MISSION

## MISSION OVERVIEW

SpaceX is targeting Tuesday, May 23 for Falcon 9's launch of the **ARABSAT BADR-8 mission** to a geosynchronous transfer orbit from Space Launch Complex 40 (SLC-40) at Cape Canaveral Space Force Station in Florida. The 127-minute launch window opens at 11:25 p.m. ET (03:25 UTC on May 24). If needed, there is a backup opportunity available on Wednesday, May 24 with the same window.

The first stage booster supporting this mission previously launched GPS III Space Vehicle 04, GPS III Space Vehicle 05, Inspiration4, Ax-1, Nilesat 301, OneWeb Launch 17, and seven Starlink missions. Following stage separation, the first stage will land on the Just Read the Instructions droneship, which will be stationed in the Atlantic Ocean.

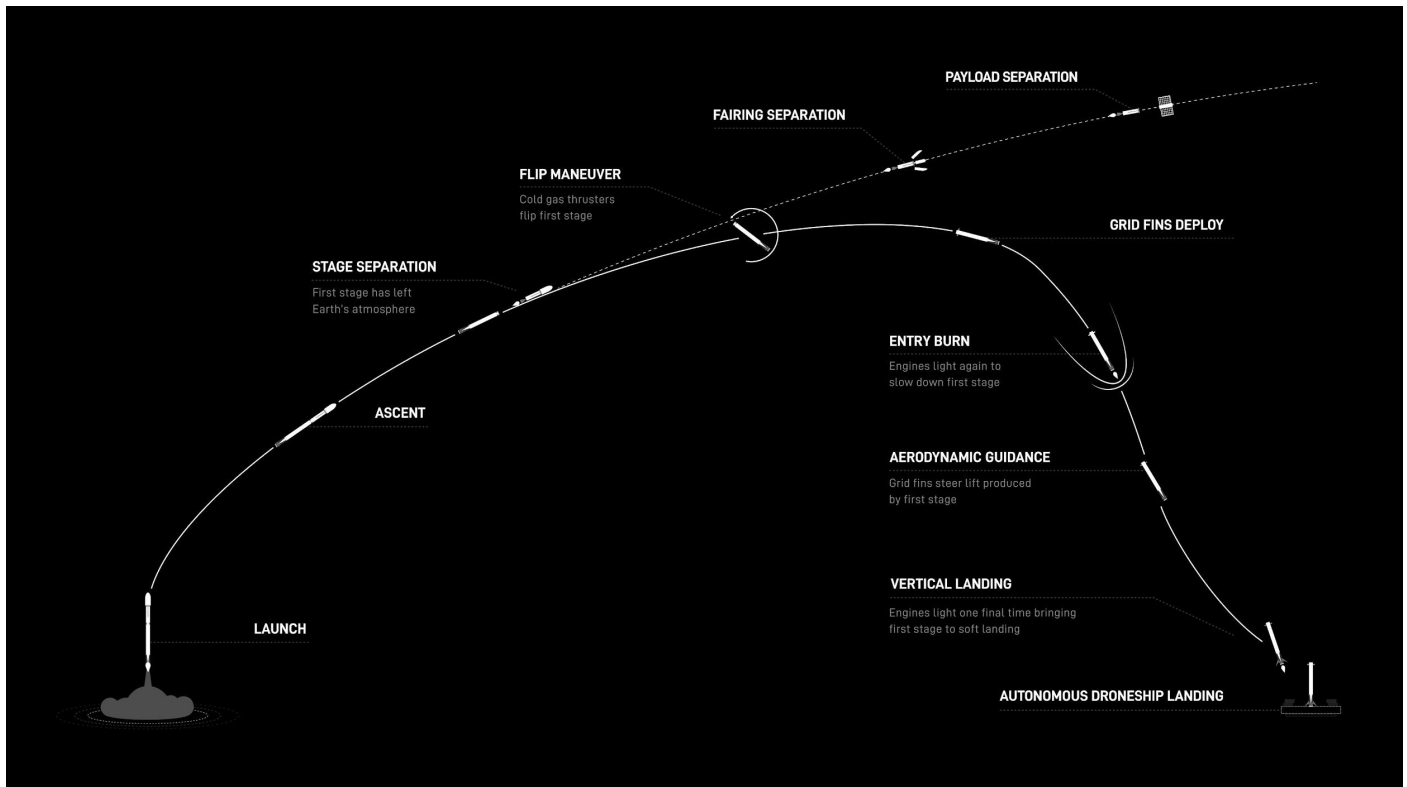
## WEBCAST

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

<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 (SES-1)
00:03:22	Fairing deployment
00:06:29	1st stage entry burn starts
00:06:51	1st stage entry burn ends
00:08:10	2nd stage engine cutoff (SECO-1)
00:08:23	1st stage landing burn start
00:08:44	1st stage landing
00:29:03	2nd stage engine starts (SES-2)
00:30:02	2nd stage engine cutoff (SECO-2)
00:37:13	ARABSAT BADR-8 deploys