



# TURKSAT 5B MISSION

## MISSION OVERVIEW

SpaceX is targeting Saturday, December 18 for launch of the **Turksat 5B** mission to geostationary transfer orbit from Space Launch Complex 40 (SLC-40) at Cape Canaveral Space Force Station in Florida. The 90-minute launch window opens at 10:58 p.m. EST, or 3:58 UTC on December 19, and a backup opportunity is available on Sunday, December 19 with the same 90-minute window.

The Falcon 9 first stage booster supporting this mission previously supported launch of CRS-22 and Crew-3. Following stage separation, the first stage will land on the A Shortfall of Gravitas dronship, which will be stationed in the Atlantic Ocean. The fairing halves supporting this mission previously supported the GPS III Space Vehicle 05 mission.

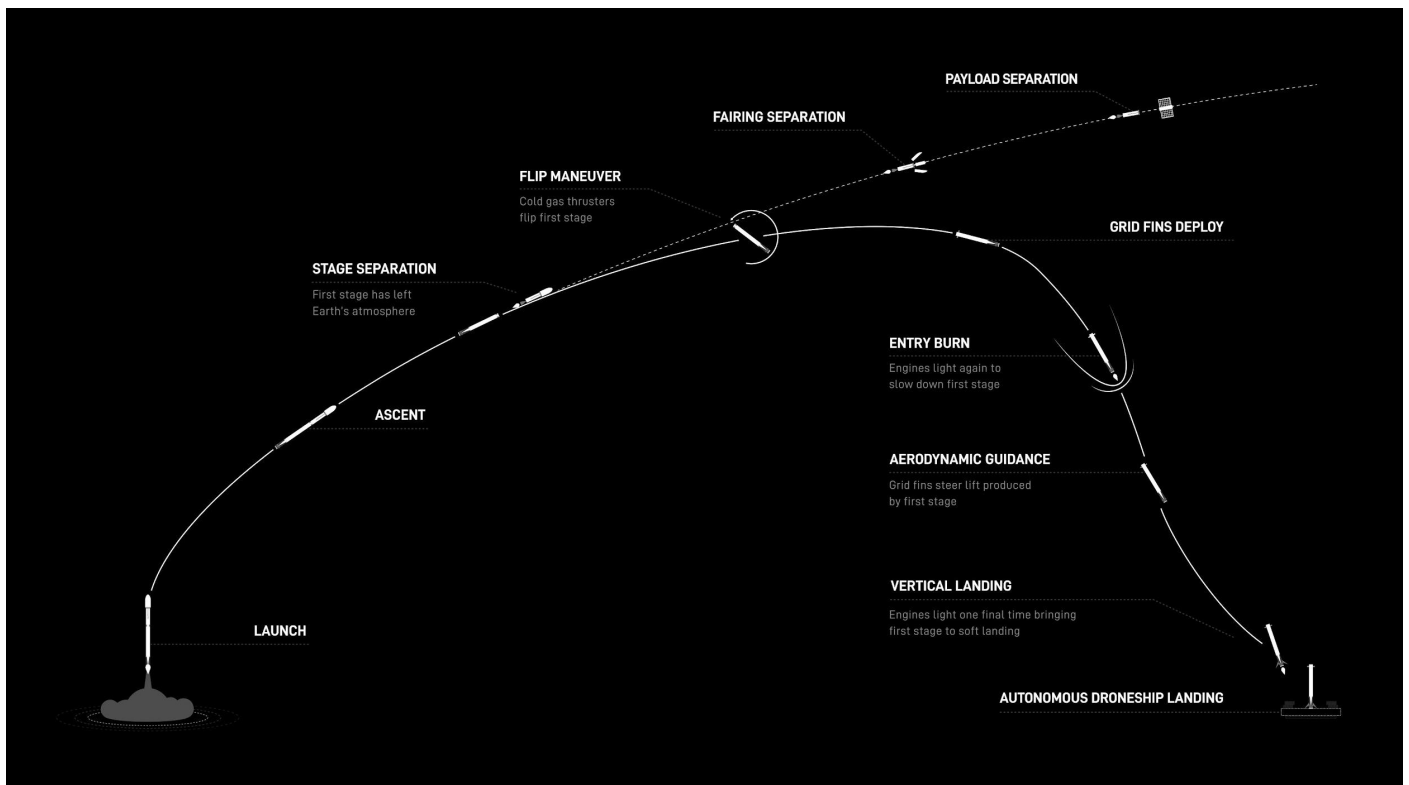
## WEBCAST

[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)
00:02:33	1st stage main engine cutoff (MECO)
00:02:37	1st and 2nd stages separate
00:02:44	2nd stage engine starts
00:03:24	Fairing deployment
00:06:27	1st stage entry burn start
00:06:51	1st stage entry burn end
00:08:06	2nd stage engine cutoff (SECO)
00:08:19	1st stage landing burn start
00:08:42	1st stage landing burn complete
00:26:43	2nd stage engine restarts
00:27:44	2nd stage engine cutoff (SECO-2)
00:32:45	Turksat 5B deployment