

# STARLINK GROUP 4-8 MISSION



## MISSION OVERVIEW

SpaceX is targeting Monday, February 21 for a Falcon 9 launch of 46 **Starlink** satellites to low Earth orbit from Space Launch Complex (SLC-40) at Cape Canaveral Space Force Station in Florida. The instantaneous launch window is at 9:44 a.m. EST, or 14:44 UTC.

The first stage booster supporting this mission previously launched Crew Demo-2, ANASIS-II, CRS-21, Transporter-1, Transporter-3, and five Starlink missions. Following stage separation, SpaceX will land Falcon 9's first stage on the A Shortfall of Gravitas droneship, which will be stationed in the Atlantic Ocean. This is the fourth flight for both fairing halves supporting this mission.

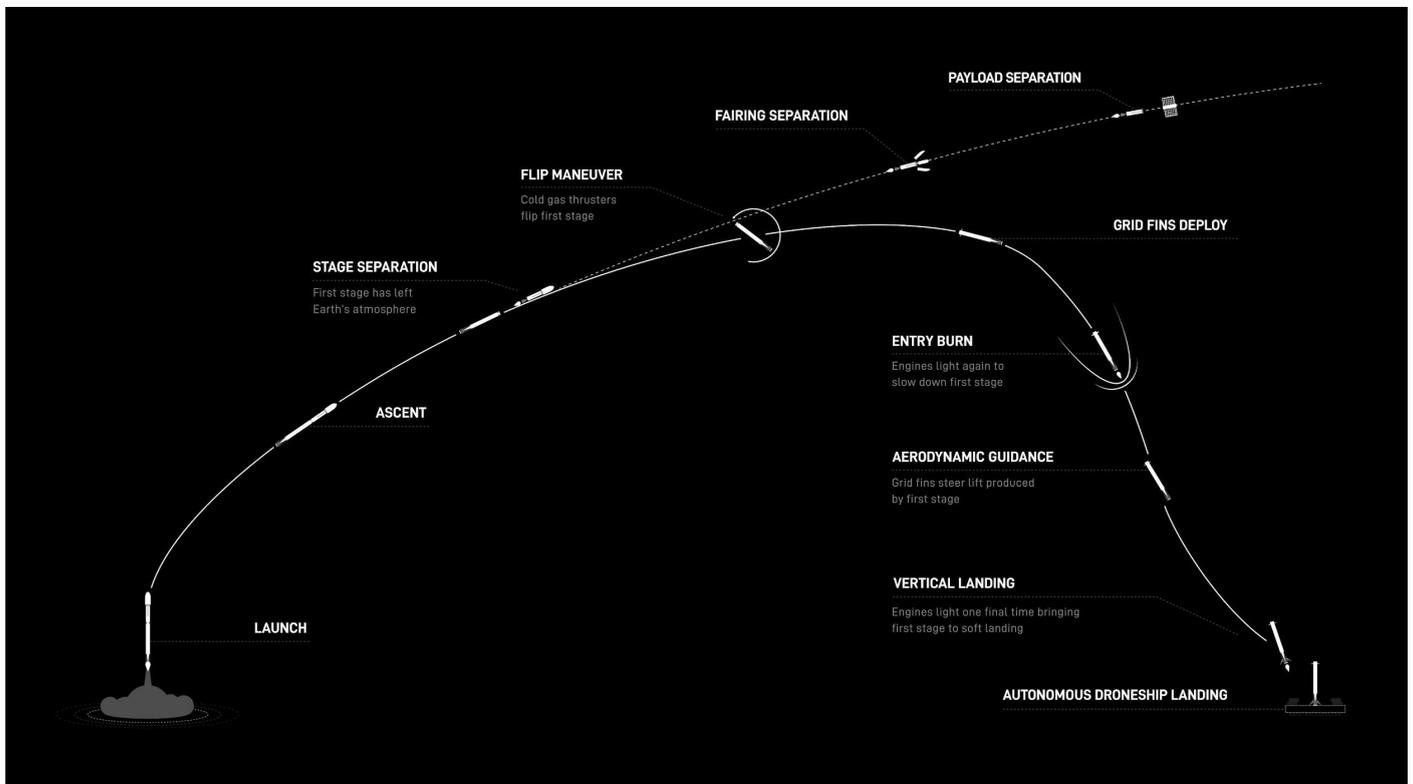
## WEBCAST

[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)
00:02:32	1st stage main engine cutoff (MECO)
00:02:35	1st and 2nd stages separate
00:02:43	2nd stage engine starts
00:02:49	Fairing deployment
00:06:49	1st stage entry burn start
00:07:10	1st stage entry burn complete
00:08:25	1st stage landing burn start
00:08:47	2nd stage engine cutoff (SECO-1)
00:08:49	1st stage landing
00:56:38	2nd stage engine starts
00:56:39	2nd stage engine cutoff (SECO-2)
01:02:55	Starlink satellites deploy