

# STARLINK GROUP 4-21 MISSION



## MISSION OVERVIEW

SpaceX is targeting Thursday, July 7 for a Falcon 9 launch of 53 **Starlink** satellites to low-Earth orbit from Space Launch Complex 40 (SLC-40) at Cape Canaveral Space Force Station in Florida. The instantaneous launch window is at 9:11 a.m. ET (13:11 UTC), and a backup opportunity is available on Friday, July 8 at 8:49 a.m. ET (12:49 UTC).

The first stage booster supporting this mission previously launched Crew Demo-2, ANASIS-II, CRS-21, Transporter-1, Transporter-3, and seven Starlink missions. Following stage separation, Falcon 9's first stage will return to Earth and land on the Just Read the Instructions dronship stationed in the Atlantic Ocean.

## WEBCAST

[A live webcast of this mission](#) will begin about five 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)
00:02:27	1st stage main engine cutoff (MECO)
00:02:30	1st and 2nd stages separate
00:02:37	2nd stage engine starts
00:02:42	Fairing deployment
00:06:48	1st stage entry burn start
00:07:08	1st stage entry burn complete
00:08:23	1st stage landing burn start
00:08:31	2nd stage engine cutoff (SECO-1)
00:08:35	1st stage landing
00:15:30	Starlink satellites deploy