

STARLINK GROUP 4-14 MISSION



MISSION OVERVIEW

SpaceX is targeting Thursday, April 21 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 11:14 a.m. ET, or 15:14 UTC, and a backup opportunity is available on Friday, April 22.

The first stage booster supporting this mission previously launched GPS III-3, Turksat 5A, Transporter-2, and eight Starlink missions. Following stage separation, Falcon 9's first stage will return to Earth and land on the Just Read the Instructions droneship 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

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)
00:02:30	1st stage main engine cutoff (MECO)
00:02:35	1st and 2nd stages separate
00:02:42	2nd stage engine starts (SES-1)
00:02:51	Fairing deployment
00:06:12	1st stage entry burn start
00:06:32	1st stage entry burn complete
00:08:01	1st stage landing burn start
00:08:23	1st stage landing
00:08:48	2nd stage engine cutoff (SECO-1)
00:45:25	2nd stage engine starts (SES-2)
00:45:36	2nd stage engine cutoff (SECO-2)
00:59:49	Starlink satellites deploy