

STARLINK GROUP 5-4 MISSION



MISSION OVERVIEW

SpaceX is targeting Sunday, February 12 at 12:10 a.m. ET (05:10 UTC) for a Falcon 9 launch of 55 **Starlink** satellites to low-Earth orbit from Space Launch Complex 40 (SLC-40) at Cape Canaveral Space Force Station in Florida. If needed, there are additional launch opportunities the same day at 1:51 a.m. ET (06:51 UTC), and 3:32 a.m. ET (08:32 UTC), with backup opportunities also available on Sunday, February 12 at 11:55 p.m. ET (04:55 UTC on February 13) and on Monday, February 13 at 1:39 a.m. ET (06:39 UTC), and 3:07 a.m. ET (08:07 UTC).

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/).

The first stage booster supporting this mission previously launched GPS III Space Vehicle 04, GPS III Space Vehicle 05, Inspiration4, Ax-1, Nilesat 301, and six Starlink missions. Following stage separation, the first stage will land on the A Shortfall of Gravitas droneship, which will be stationed in the Atlantic Ocean.

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 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

Hr/Min/Sec	Event
00:01:12	Max Q (moment of peak mechanical stress on the rocket)
00:02:28	1st stage main engine cutoff (MECO)
00:02:31	1st and 2nd stages separate
00:02:38	2nd stage engine starts (SES-1)
00:02:45	Fairing deployment
00:06:17	1st stage entry burn begins
00:06:35	1st stage entry burn ends
00:08:12	1st stage landing burn begins
00:08:32	1st stage landing
00:08:39	2nd stage engine cutoff (SECO-1)
00:54:12	2nd stage engine starts (SES-2)
00:54:14	2nd stage engine cutoff (SECO-2)
01:03:15	Starlink satellites deploy