

STARLINK-28 MISSION



MISSION OVERVIEW

SpaceX is targeting Saturday, May 15 for its next [Starlink](#) mission launching aboard Falcon 9 from Launch Complex 39A (LC-39A) at Kennedy Space Center in Florida. The instantaneous window is at 6:54 p.m. EDT, or 22:54 UTC, and a backup opportunity is available on Sunday, May 16 at 6:33 p.m. EDT, or 22:33 UTC. On board this mission are 52 Starlink satellites, a Capella Synthetic Aperture Radar (SAR) satellite, and Tyvak-0130.

WEBCAST

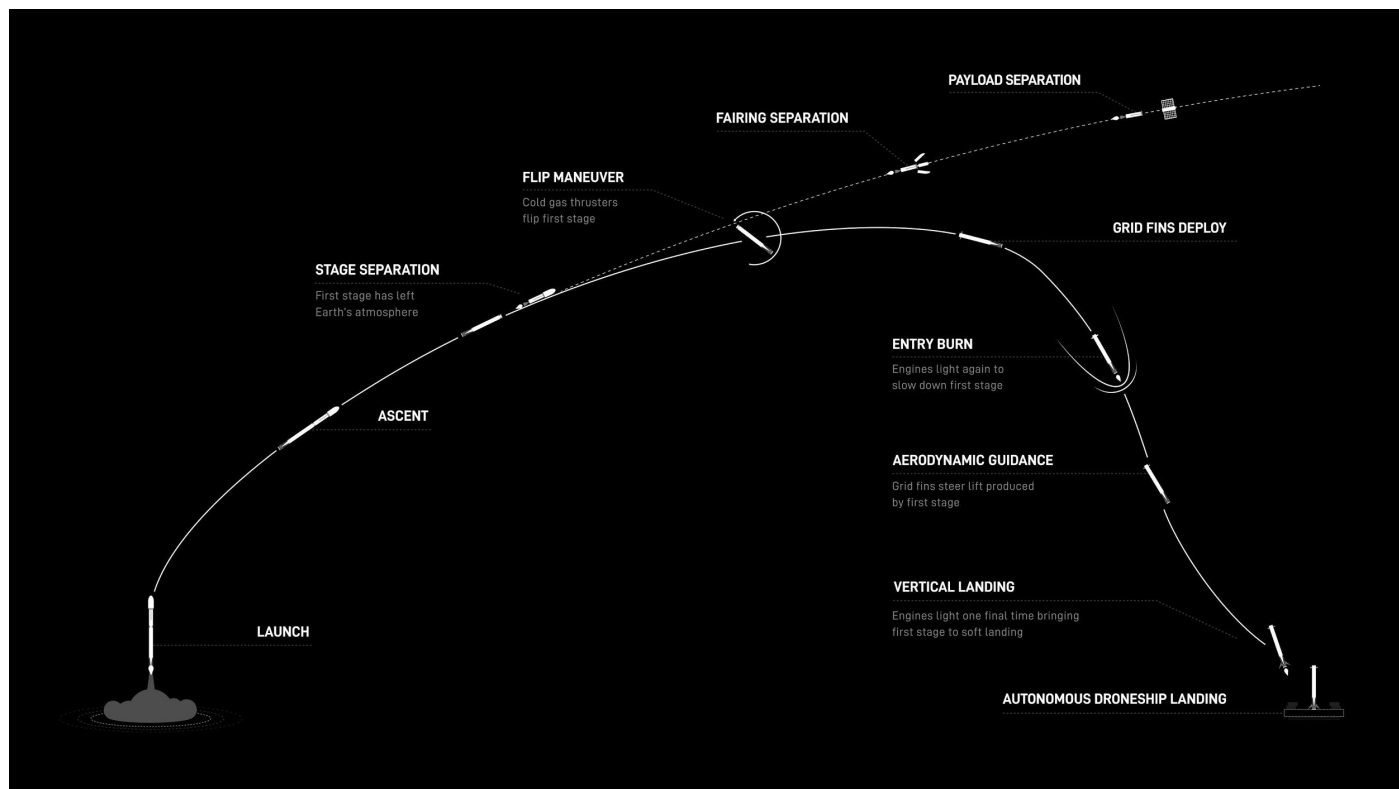
[A live webcast](#) of this mission will begin about 15 minutes prior to liftoff.

PHOTOS

High-resolution photos will be posted at [flickr.com/spacex](https://www.flickr.com/photos/spacex/).

The Falcon 9 first stage booster that supported this mission previously launched NASA astronauts Bob Behnken and Doug Hurley to the International Space Station, ANASIS-II, CRS-21, Transporter-1, and three Starlink missions. Following stage separation, SpaceX will land Falcon 9's first stage on the "Of Course I Still Love You" droneship, which will be located in the Atlantic Ocean. One half of Falcon 9's fairing previously supported the SXM-7 mission, and the other previously supported the NROL-108 mission.

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)
00:02:31	1st stage main engine cutoff (MECO)
00:02:35	1st and 2nd stages separate
00:02:43	2nd stage engine starts
00:03:16	Fairing deployment
00:06:42	1st stage entry burn complete
00:08:28	1st stage landing
00:08:42	2nd stage engine cutoff (SECO-1)
00:54:38	2nd stage engine restarts
00:54:42	2nd stage engine cutoff (SECO-2)
00:56:53	Tyvak-0130 deploys
01:00:23	Capella Synthetic Aperture Radar (SAR) satellite deploys
01:38:10	Starlink satellites deploy