

DECEMBER 1, 2025

# STARLINK MISSION

WATCH →

On Monday, December 1 at 9:28 p.m. PT, Falcon 9 launched 27 **Starlink** satellites to low-Earth orbit from Space Launch Complex 4 East (SLC-4E) from Vandenberg Space Force Base in California.

There was a possibility that residents of Santa Barbara, San Luis Obispo, and Ventura counties may have heard **one or more sonic booms** during the launch, but what residents experienced depended on weather and other conditions.

This was the 20th flight for the first stage booster supporting this mission, which previously launched Crew-7, CRS-29, PACE, Transporter-10, EarthCARE, NROL-186, Transporter-13, TRACERS, NROL-48, and now 11 Starlink missions. Following stage separation, the first stage landed on the Of Course I Still Love You droneship, which was stationed in the Pacific Ocean.

## 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

All Times Approximate

| HR/MIN/SEC | EVENT                                                  |
|------------|--------------------------------------------------------|
| 00:01:12   | MAX Q (MOMENT OF PEAK MECHANICAL STRESS ON THE ROCKET) |
| 00:02:25   | 1ST STAGE MAIN ENGINE CUTOFF (MECO)                    |
| 00:02:28   | 1ST AND 2ND STAGES SEPARATE                            |
| 00:02:35   | 2ND STAGE ENGINE STARTS (SES-1)                        |
| 00:02:54   | FAIRING SEPARATION                                     |
| 00:06:12   | 1ST STAGE ENTRY BURN BEGINS                            |
| 00:06:35   | 1ST STAGE ENTRY BURN ENDS                              |
| 00:08:02   | 1ST STAGE LANDING BURN BEGINS                          |
| 00:08:25   | 1ST STAGE LANDING                                      |
| 00:08:39   | 2ND STAGE ENGINE CUTOFF (SECO-1)                       |
| 00:53:00   | 2ND STAGE ENGINE STARTS (SES-2)                        |
| 00:53:02   | 2ND STAGE ENGINE CUTOFF (SECO-2)                       |
| 01:01:52   | STARLINK SATELLITES DEPLOY                             |