

UPCOMING LAUNCH

ASTRANIS: FROM ONE TO MANY MISSION

WATCH

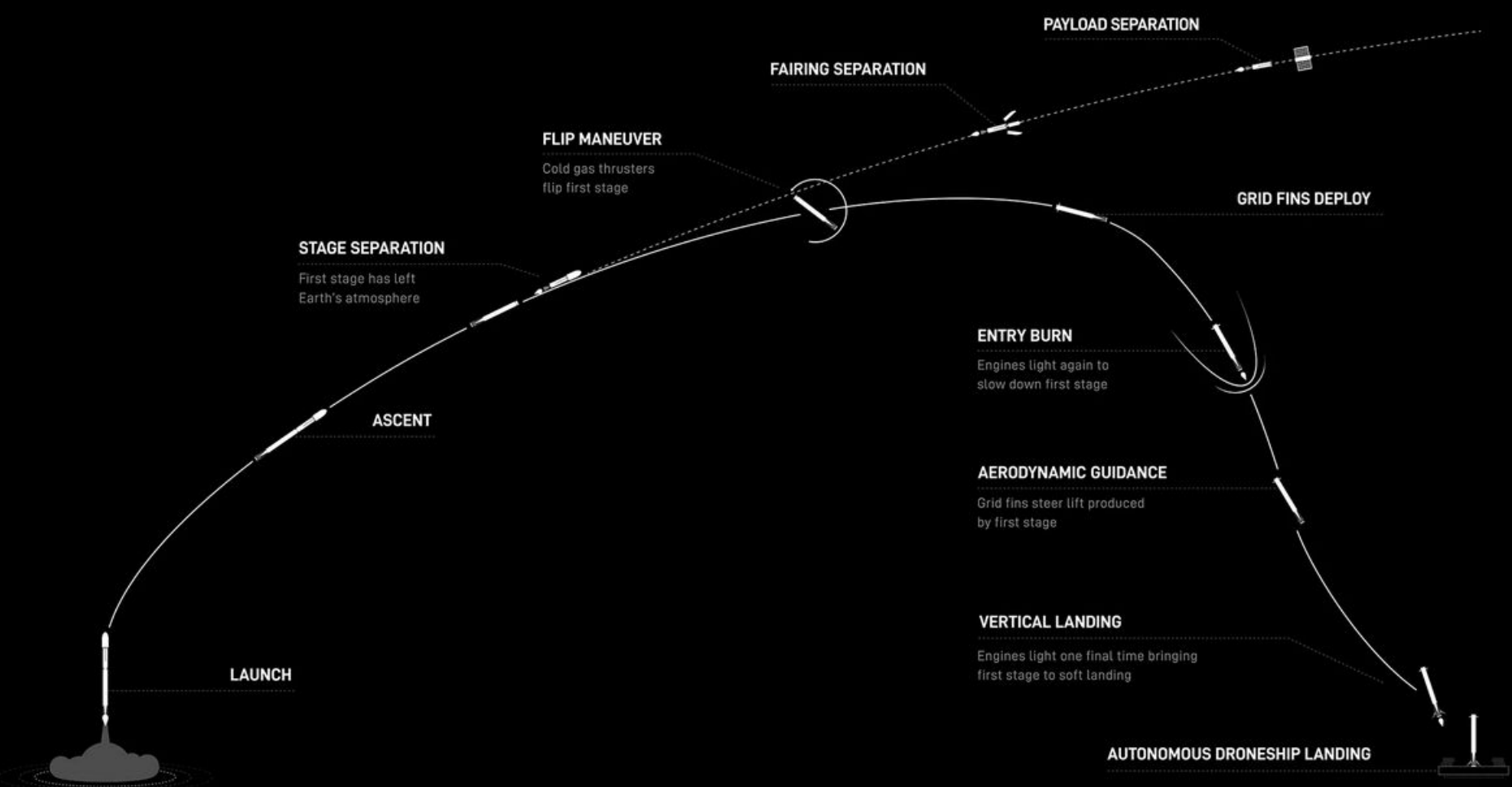
SpaceX is targeting Sunday, December 29 for Falcon 9's launch of the **Astranis: From One to Many** mission to a geosynchronous transfer orbit from Space Launch Complex 40 (SLC-40) at Cape Canaveral Space Force Station in Florida. The 2.5-hour window opens at 12:00 a.m. ET. If needed, a backup opportunity is available later that night during a 3.75-hour window that opens at 10:43 p.m. ET.

A live webcast of this mission will begin about 15 minutes prior to liftoff, which you can watch here and on **X @SpaceX**. You can also watch the webcast on the new X TV app.

This will be the seventh flight for the Falcon 9 first stage booster supporting this mission, which previously launched Crew-8, Polaris Dawn, CRS-31, and three Starlink missions. After stage separation, the first stage will land on the A Shortfall of Gravitas droneship, which will be stationed in the Atlantic 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
00:01:14	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
00:02:39	2nd stage engine starts (SES-1)
00:03:21	Fairing separation
00:06:23	1st stage entry burn begins
00:06:50	1st stage entry burn ends
00:07:52	2nd stage engine cutoff (SECO-1)
00:08:19	1st stage landing burn begins
00:08:26	1st stage landing
00:26:25	2nd stage engine starts (SES-2)
00:27:30	2nd stage engine cutoff (SECO-2)
00:33:45	UtilitySat deploys
00:34:45	NuView Bravo deploys
00:35:45	NuView Alpha deploys
00:36:45	AGILA deploys