

UPCOMING LAUNCH

ESA EARTHCARE MISSION

WATCH

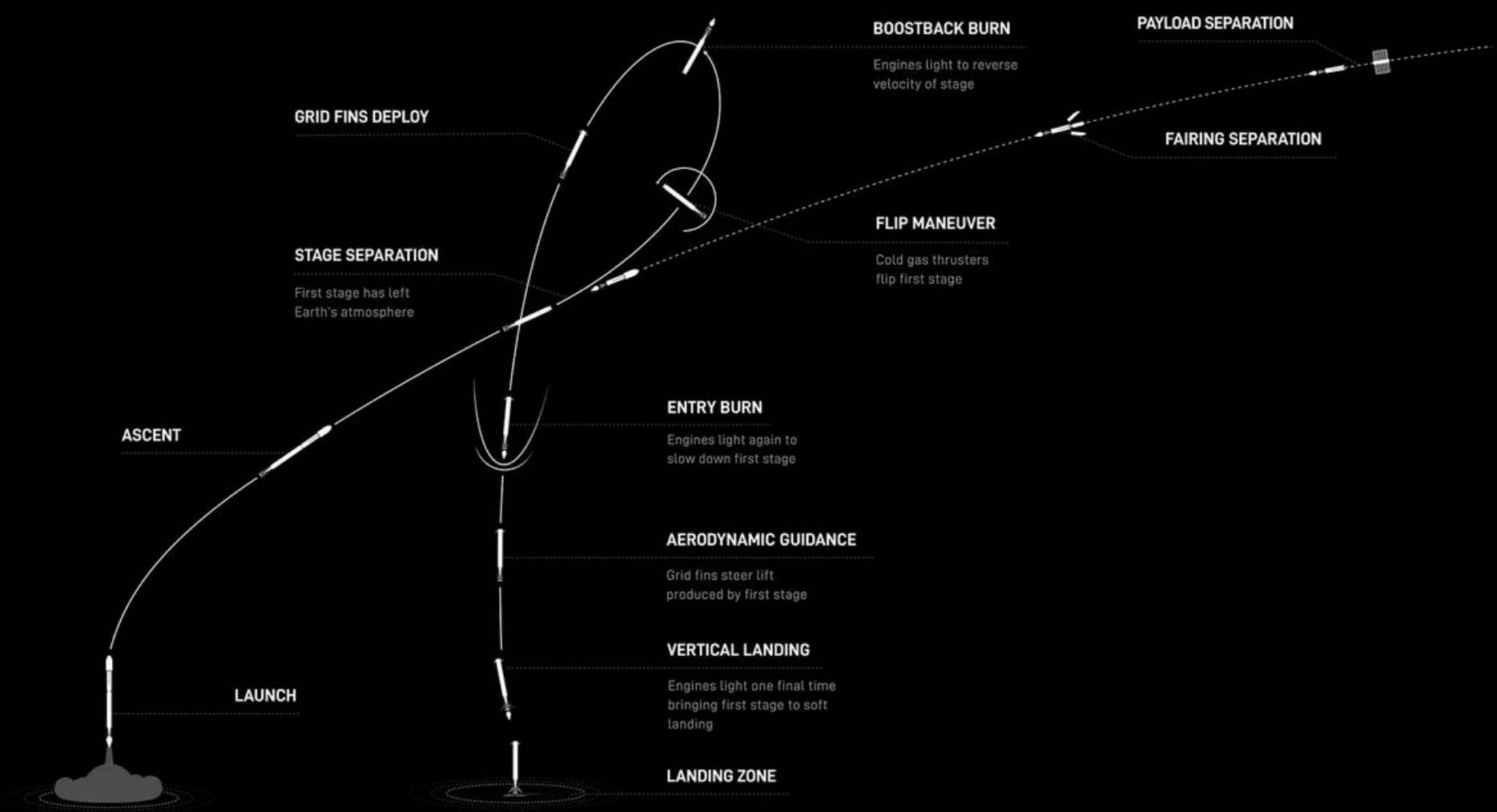
SpaceX is targeting Tuesday, May 28 for Falcon 9's launch of the ESA EarthCARE (Earth Cloud Aerosol and Radiation Explorer) mission to low-Earth orbit from Space Launch Complex 4 East (SLC-4E) at Vandenberg Space Force Base in California. Liftoff is targeted for 3:20 p.m. PT. If needed, a backup launch opportunity is available on Wednesday, May 29 at the same time.

A live webcast of this mission will begin on [X @SpaceX](#) about 15 minutes prior to liftoff. **Watch live.**

This will be the seventh flight for the Falcon 9 first stage booster supporting this mission, which previously launched Crew-7, CRS-29, PACE, Transporter-10, and two Starlink missions. After stage separation, the first stage will land on Landing Zone 4 (LZ-4) at Vandenberg Space Force Base.

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



COUNTDOWN

All Times Approximate

HR/MIN/SEC	EVENT
00:01:07	Max Q (moment of peak mechanical stress on the rocket)
00:02:19	1st stage main engine cutoff (MECO)
00:02:23	1st and 2nd stages separate
00:02:24	Stage 1 flip
00:02:24	2nd stage engine starts (SES-1)
00:02:36	1st stage boostback burn Starts
00:02:46	Fairing deployment
00:03:19	1st stage boostback burn ends
00:06:19	1st stage entry burn begins
00:06:38	1st stage entry burn completes
00:07:30	1st stage landing burn begins
00:07:46	1st stage landing
00:08:41	2nd stage engine cutoff (SECO-1)
00:10:42	EarthCARE deploys