

UPCOMING LAUNCH

# PACE MISSION



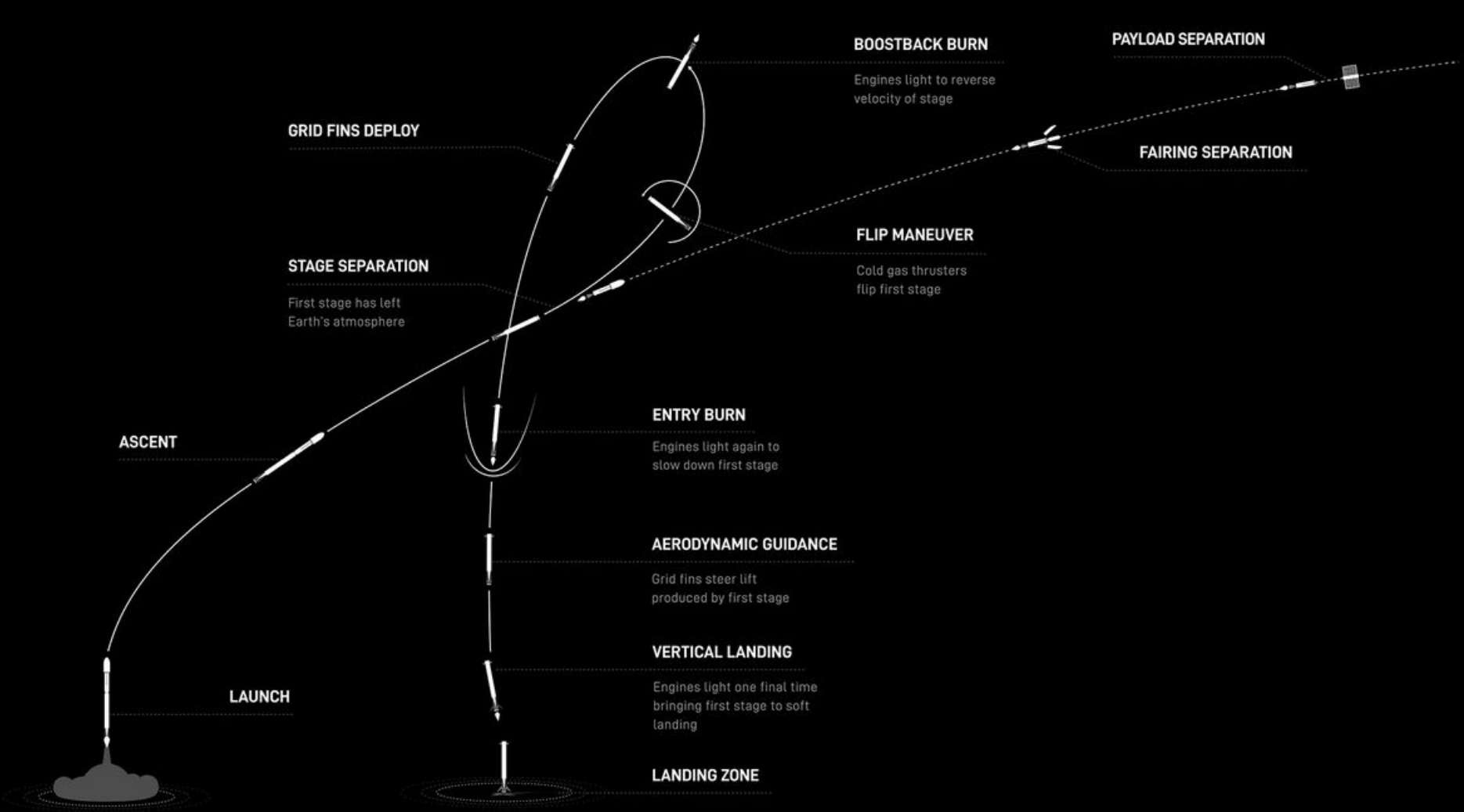
SpaceX is targeting Thursday February 8 at 1:33 a.m. ET for a Falcon 9 launch of NASA's PACE (Plankton, Aerosol, Cloud, ocean Ecosystem) mission to a sun-synchronous orbit from Space Launch Complex 40 (SLC-40) at Cape Canaveral Space Force Station in Florida. If needed, a backup opportunity is available Friday, February 9 at the same time.

A live webcast of this mission will begin on **NASA+** and **NASA Television** about 45 minutes prior to liftoff.

This is the fourth flight of the first stage booster supporting this mission, which previously launched Crew-7, CRS-29, and one Starlink mission. Following stage separation, the first stage will land on Landing Zone 1 (LZ-1) at Cape Canaveral Space Force Station in Florida.

## 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
00:01:07	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
00:02:30	2nd stage engine starts
00:02:36	Boostback Burn Starts
00:03:15	Boostback Burn Ends
00:03:54	Fairing deployment
00:05:51	1st stage entry burn start
00:06:13	1st stage entry burn ends
00:06:58	1st stage landing burn start
00:07:32	1st stage landing
00:10:20	2nd stage engine cutoff (SECO-1)
00:12:22	PACE spacecraft deploys