

ESA EUCLID MISSION

MISSION OVERVIEW

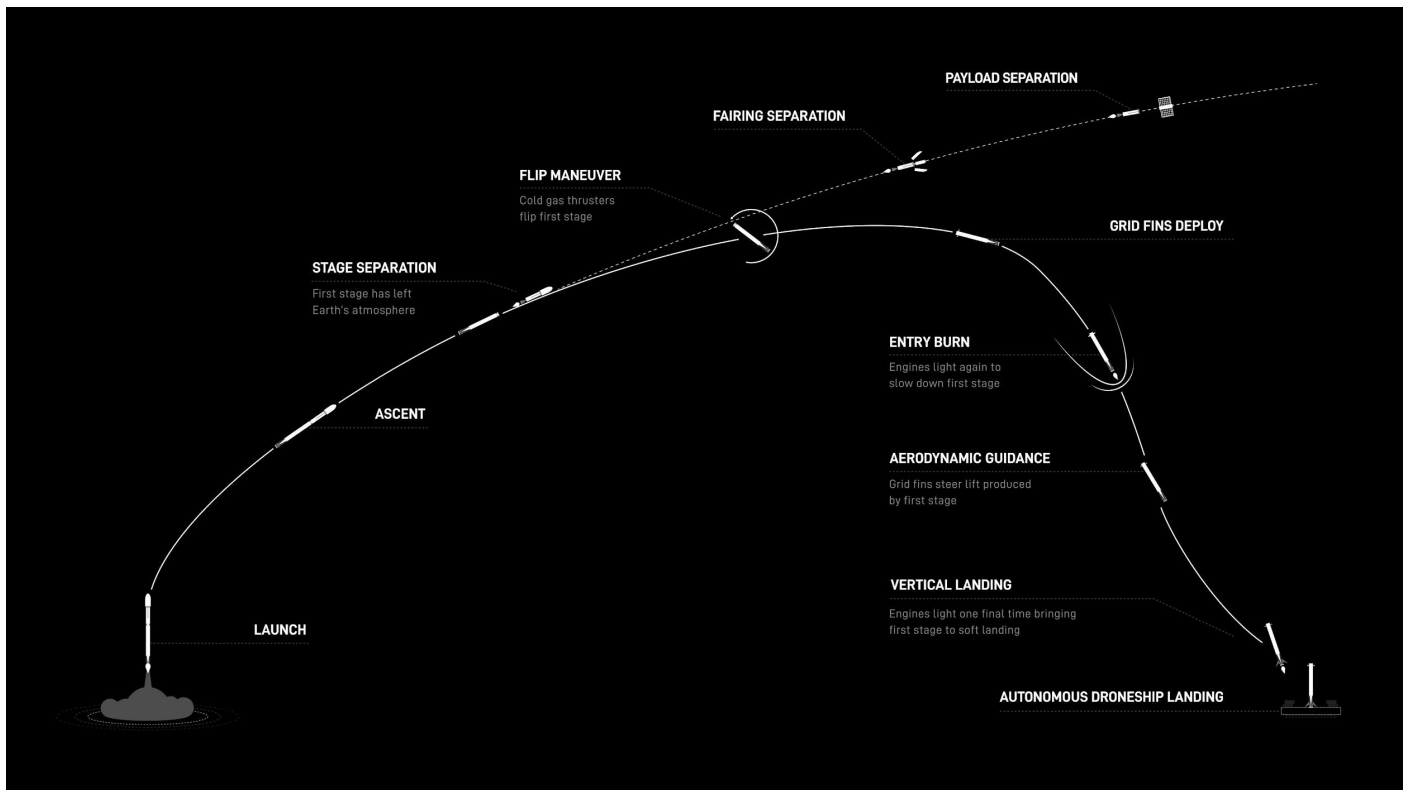
SpaceX is targeting Saturday, July 1 for Falcon 9's launch of the **ESA Euclid mission** to a Sun-Earth L2 transfer orbit, also known as the Sun-Earth Lagrange point 2, from Space Launch Complex 40 (SLC-40) at Cape Canaveral Space Force Station in Florida. Liftoff is targeted for 11:12 a.m. ET (15:12 UTC). If needed, a backup opportunity is available Sunday, July 2 at the same time.

The first stage booster supporting this mission previously launched Ax-2. Following stage separation, the first stage will land on the A Shortfall of Gravitas dronship, which will be stationed in the Atlantic Ocean.

WEBCAST

A live webcast of this mission will begin about 15 minutes prior to liftoff.

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 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

Hr/Min/Sec	Event
00:01:14	Max Q (moment of peak mechanical stress on the rocket)
00:02:37	1st stage main engine cutoff (MECO)
00:02:40	1st and 2nd stages separate
00:02:48	2nd stage engine starts (SES-1)
00:03:30	Fairing deployment
00:06:25	1st stage entry burn starts
00:06:47	1st stage entry burn ends
00:08:03	2nd stage engine cutoff (SECO-1)
00:08:23	1st stage landing burn start
00:08:31	1st stage landing
00:17:10	2nd stage engine starts (SES-2)
00:18:28	2nd stage engine cutoff (SECO-2)
00:40:58	ESA Euclid deploys