



UPCOMING LAUNCH

HERA MISSION

SpaceX is targeting Monday, October 7 for Falcon 9's launch of the ESA **Hera** mission to interplanetary transfer orbit from Space Launch Complex 40 (SLC-40) at Cape Canaveral Space Force Station in Florida. Liftoff is targeted for 10:52 a.m. ET. If needed, a backup launch opportunity is available on Tuesday, October 8 at 10:46 a.m. ET.

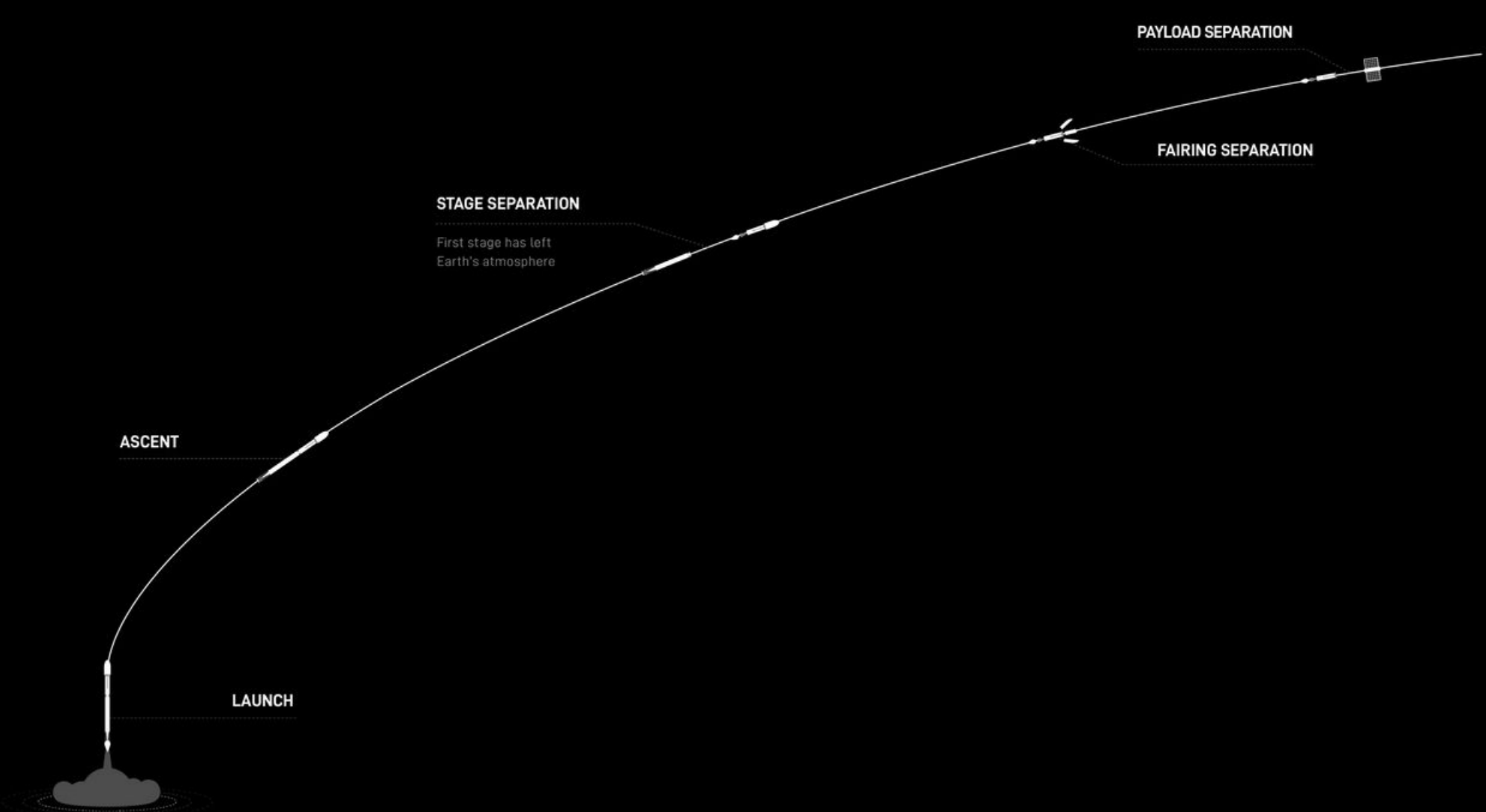
A live webcast of this mission will begin on **X @SpaceX** about 15 minutes prior to liftoff. You can also watch the webcast on the new X TV app.

Due to the additional performance required to deliver the payload to an interplanetary transfer orbit, this mission marks the 23rd and final launch for this Falcon 9 first stage booster, which previously launched Crew-1, Crew-2, SXM-8, CRS-23, IXPE, Transporter-4, Transporter-5, Globalstar FM15, ISI EROS C-3, Korea 425, Maxar 1, ASBM, and 10 Starlink missions.

Hera is a planetary defense mission that will study the impact NASA's Double Asteroid Redirection Test (DART) mission spacecraft had on the Dimorphos asteroid, which **Falcon 9 launched** in November 2021. Hera will provide valuable data for future asteroid deflection missions and science to help humanity's understanding of asteroid geophysics as well as solar system formation and evolutionary processes.

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)
00:02:41	1st stage main engine cutoff (MECO)
00:02:44	1st and 2nd stages separate
00:02:51	2nd stage engine starts (SES-1)
00:03:33	Fairing separation
00:07:39	2nd stage engine cutoff (SECO-1)
00:03:33	Fairing separation
00:07:39	2nd stage engine cutoff (SECO-1)
00:52:22	2nd stage engine starts (SES-2)
00:54:00	2nd stage engine cutoff (SECO-1)
01:16:02	ESA's Hera satellite deploys