

UPCOMING LAUNCH

EUROPA CLIPPER MISSION

SpaceX is targeting Monday, October 14 for launch of NASA's **Europa Clipper** mission to Jupiter's icy moon Europa from Launch Complex 39A (LC-39A) at NASA's Kennedy Space Center in Florida. The instantaneous launch window opens at 12:05 p.m. ET. If needed, a backup opportunity is available on Tuesday, October 15 at 11:58 a.m. ET.

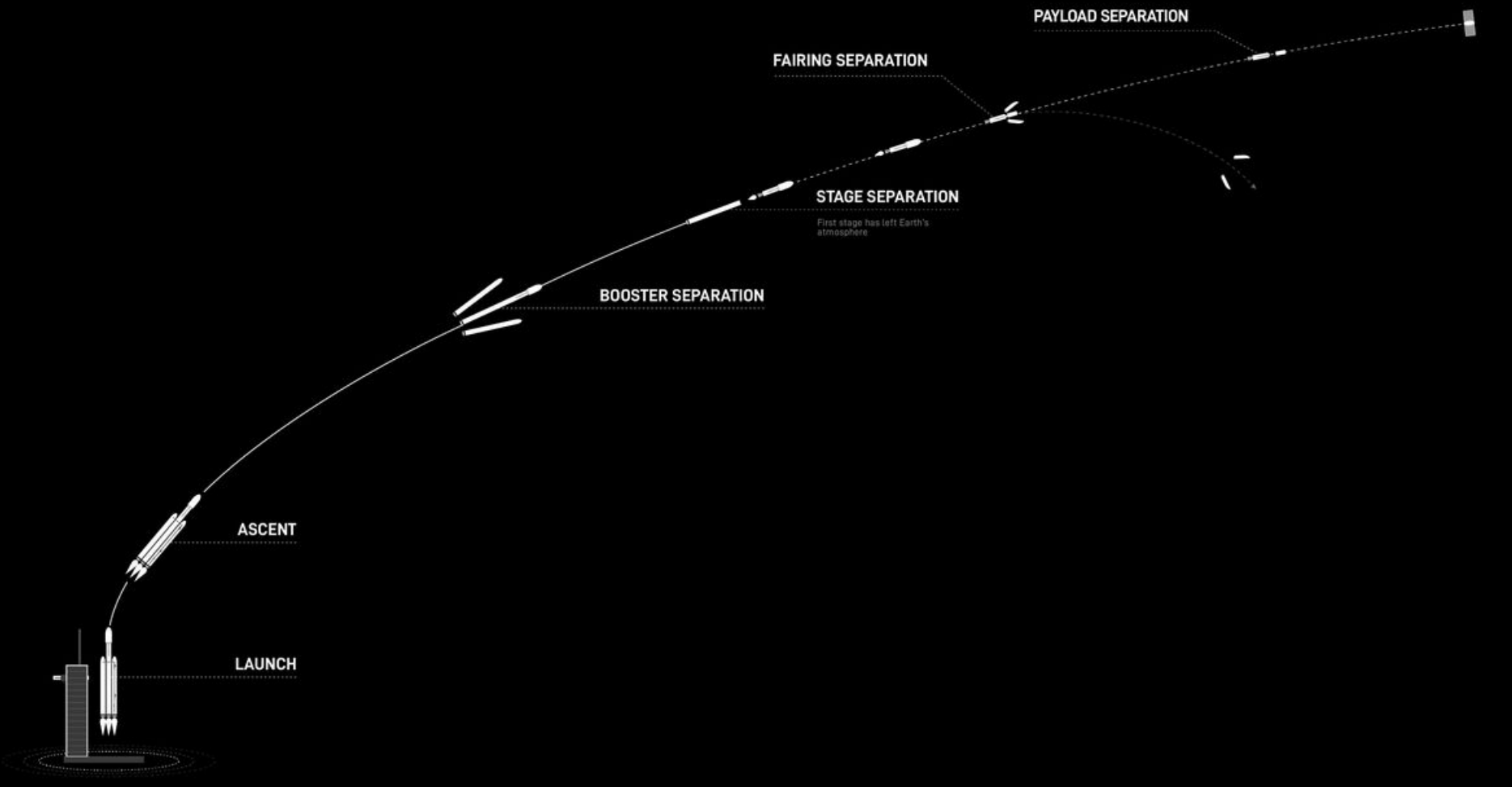
A live webcast of this mission will begin on **NASA's website** around one hour prior to liftoff.

This is the sixth and final flight for the first stage side boosters supporting this mission, which previously launched USSF-44, USSF-67, USSF-52, Hughes JUPITER 3, and NASA's Psyche mission exactly one year ago.

Europa Clipper is the largest spacecraft NASA has ever developed for a planetary mission with solar arrays spanning more than 100 feet (~30 meters) when deployed and weighing nearly 13,000 pounds (6,000 kilograms) at launch. Powered by 24 engines, Europa Clipper will make nearly 50 flybys of Jupiter's icy moon Europa, surveying for conditions suitable to support life after scientists predicted that a salty ocean lies beneath Europa's icy surface which has more water than Earth's oceans combined. It will take five years to reach Europa, with an anticipated arrival in 2030.

COUNTDOWN

HR/MIN/SEC	EVENT
- 00:53:00	SpaceX Launch Director verifies go for propellant load
- 00:50:00	1st stage RP-1 (rocket grade kerosene) loading begins
- 00:45:00	1st stage LOX (liquid oxygen) loading begins
- 00:35:00	2nd stage RP-1 (rocket grade kerosene) loading begins
- 00:18:30	2nd stage LOX loading begins
- 00:07:00	Falcon Heavy begins engine chill
- 00:00:59	Flight computer commanded to begin final pre-launch checks
- 00:00:45	SpaceX Launch Director verifies go for launch
- 00:00:20	Propellant tanks pressurize for flight
- 00:00:06	Engine controller commands engine ignition sequence to start
- 00:00:00	Falcon Heavy liftoff



LAUNCH AND DEPLOYMENT

All Times Approximate

HR/MIN/SEC	EVENT
00:01:07	Max Q (moment of peak mechanical stress on the rocket)
00:03:03	Side boosters engine cutoff (BECO)
00:03:07	Side boosters separate
00:04:02	1st stage main engine cutoff (MECO)
00:04:06	1st and 2nd stages separate
00:04:13	2nd stage engine starts (SES)
00:04:31	Fairing deployment
00:07:53	2nd stage engine cutoff (SECO-1)
00:47:40	2nd stage engine starts (SES-2)
00:50:56	2nd stage engine cutoff (SECO-2)
01:02:12	Europa Clipper deploys