UPCOMING LAUNCH

GOES-U MISSION

SpaceX is targeting Tuesday, June 25 for launch of NASA's **GOES-U** mission to a geostationary orbit from Launch Complex 39A (LC-39A) at NASA's Kennedy Space Center in Florida. The two-hour launch window opens at 5:16 p.m. ET. If needed, a backup opportunity is available on Wednesday, June 26 at the same time.

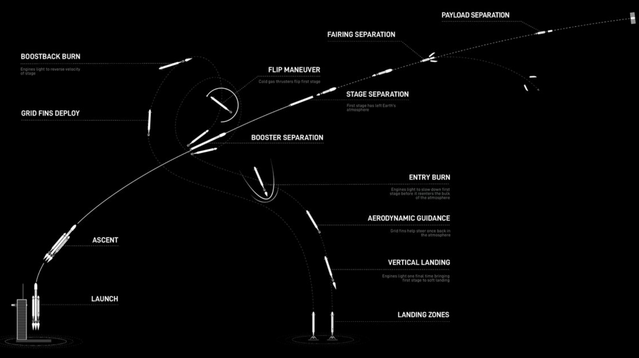
A live webcast of this mission will begin on **NASA's website** about one hour prior to liftoff.

The **GOES-U satellite** will orbit above the Earth's equator at approximately 35,700 km (22,236 mi) observing weather patterns in the contiguous USA, Central and South America, and Atlantic Ocean. GOES-U is part of the National Oceanic and Atmospheric Administration's (NOAA) most sophisticated Geostationary Operational Environmental Satellites (GOES) series and will assist weather forecasters and climate researchers with real-time high-resolution imagery, earlier detection of severe weather that could save lives, and tropical cyclone forecasts. The weather satellite also carries a suite of space weather instruments that will be used to detect solar storms early and help predict their possible impacts.

Following booster separation, the two new side boosters supporting this mission will land on SpaceX's Landing Zones 1 and 2 (LZ-1 and LZ-2) at Cape Canaveral Space Force Station in Florida.

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



COUNTDOWN

All Times Approximate

HR/MIN/SEC	EVENT
00:01:11	Max Q (moment of peak mechanical stress on the rocket)
00:02:25	Side boosters engine cutoff (BECO)
00:02:28	Side boosters separate
00:02:44	Side boosters boostback burns begin
00:03:53	Side boosters boostback burns end
00:03:56	1st stage main engine cutoff (MECO)
00:03:59	1st and 2nd stages separate
00:04:06	2nd stage engine starts (SES-1)
00:04:24	Fairing separation
00:06:36	Side boosters entry burns start
00:06:51	Side boosters entry burns end
00:07:53	Side boosters landing burns start
00:08:11	Side boosters landing
00:08:23	2nd stage engine cutoff (SECO-1)
00:26:19	2nd stage engine starts (SES-2)
00:27:46	2nd stage engine cutoff (SECO-2)
04:21:18	2nd stage engine starts (SES-3)
04:21:51	2nd stage engine cutoff (SECO-3)
04:30:02	GOES-U deploys