

# HUGHES JUPITER 3 MISSION

## MISSION OVERVIEW

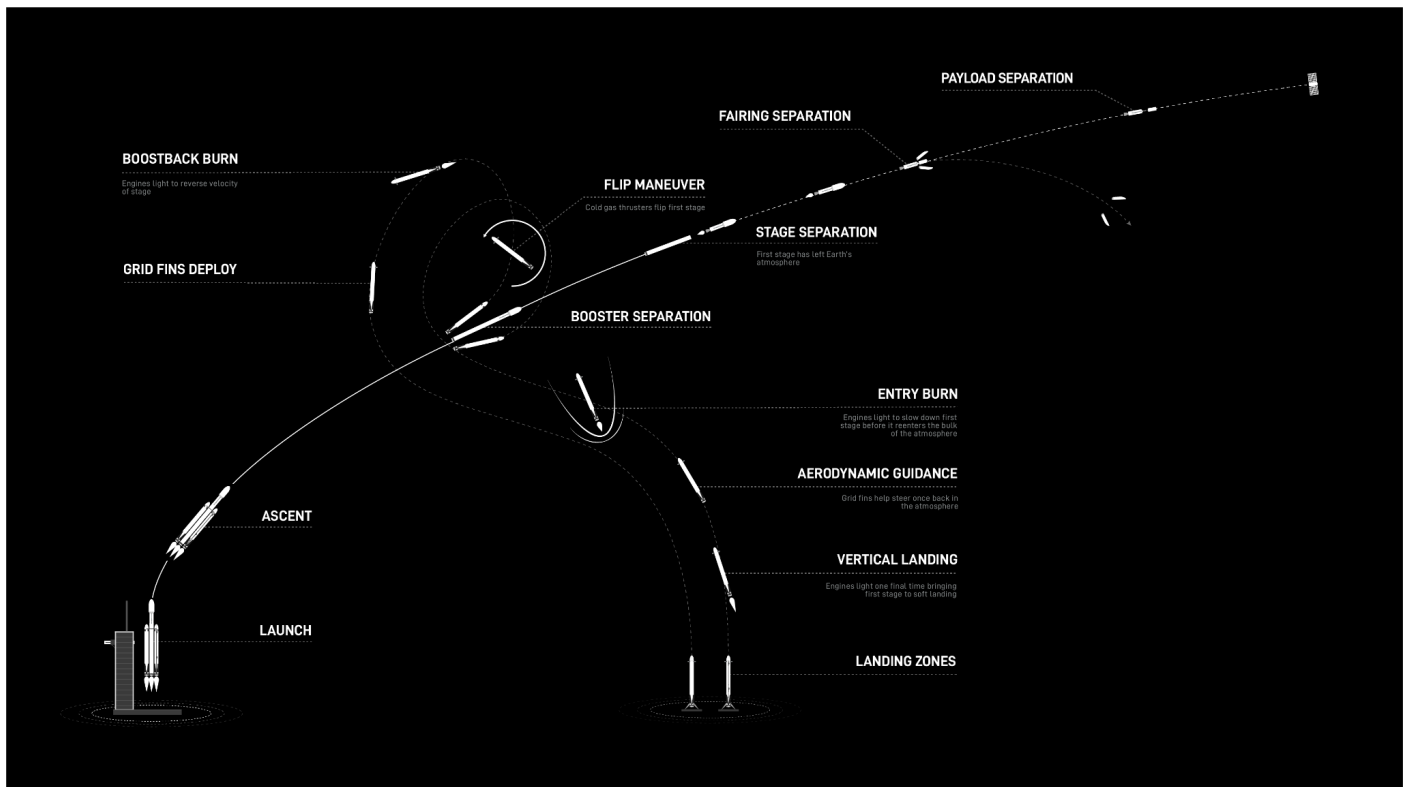
SpaceX is targeting Thursday, July 27 for Falcon Heavy's launch of the **Hughes JUPITER 3 mission** to a geosynchronous transfer orbit from Launch Complex 39A (LC-39A) at Kennedy Space Center in Florida. The 99-minute launch window opens at 11:04 p.m. ET (03:04 UTC on July 28).

Both of the side boosters on this mission previously supported USSF-44 and USSF-67. Following stage separation, Falcon Heavy's two side boosters will land on SpaceX's Landing Zones 1 and 2 (LZ-1 and LZ-2) at Cape Canaveral Space Force Station in Florida.

## WEBCAST

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

## MISSION PROFILE



# MISSION TIMELINE (ALL TIMES APPROXIMATE)

## COUNTDOWN

<b>Hr/Min/Sec</b>	<b>Event</b>
- 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, LANDING AND DEPLOYMENT

<b>Hr/Min/Sec</b>	<b>Event</b>
00:01:09	Max Q (moment of peak mechanical stress on the rocket)
00:02:22	Side boosters engine cutoff (BECO)
00:02:25	Side boosters separate
00:02:44	Side boosters boostback burns begin
00:03:49	Side boosters boostback burns end
00:03:52	1st stage main engine cutoff (MECO)
00:03:55	1st and 2nd stages separate
00:04:01	2nd stage engine starts (SES)
00:04:16	Fairing deployment
00:06:20	Side boosters entry burns start
00:06:36	Side boosters entry burns end
00:07:20	Side boosters landing burns start
00:07:34	Side boosters landing
00:08:23	2nd stage engine cutoff (SECO-1)
00:26:25	2nd stage engine starts (SES-2)
00:27:59	2nd stage engine cutoff (SECO-2)
03:22:01	2nd stage engine starts (SES-3)
03:22:26	2nd stage engine cutoff (SECO-3)
03:28:39	JUPITER 3 deploys