

Launch Mission Execution Forecast

Mission: Falcon 9 Intelsat G-31/G-32

Issued: Valid:

6 November 2022 / 0730L (1230Z) 8 November 2022 / 1106 – 1307L (1606 – 1807Z)



Forecast Discussion: A strong high pressure area remains anchored north of Bermuda, while a low pressure area with tropical characteristics has developed north of Puerto Rico. The low pressure area has a high chance of developing into a named tropical system as it slowly moves northwards and strengthens. The interaction of these two systems will create strong onshore flow with occasional fast-moving showers, mostly in the overnight and early morning hours. These conditions will continue through early next week with the shower activity becoming more prevalent as the depth and strength of the easterly flow increases. On Tuesday, the low pressure area should reach its northern most position, east of the central Bahamas. The primary weather concerns for a launch attempt Tuesday are Liftoff Winds, and the Cumulus Cloud Rule associated with the strong onshore flow.

On Wednesday, the low pressure area will most likely move towards south Florida, creating the peak pressure gradient and shower activity at the Spaceport. The primary weather concerns for a Wednesday attempt remain Liftoff Winds and the Cumulus Cloud Rule, with the addition of the Disturbed Weather Rule due to the proximity of the low pressure area.

	Probability of Violating Weather Constraints ¹										
Launch Day	70%	0% Primary Concerns: Liftoff Winds, Cumulus Cloud Rule									
	Weather Conditions								Additional Risk Criteria ²		
	Weather/Visibility: Isold Showers / 7			vers / 7 mi.	. Type Coverage Base (ft) Tops (ft)				Upper-Level Wind Shear:	Moderate	
	Temp/Humid	ity:	82°F / 72%	0	Cumulus	Few	3,000	12,000	Recovery Conditions:	High	
	Liftoff Winds	(200') :	040° 28 - 3	32 mph	Cirrus	Scattered	28,000	30,000	Solar Activity:	Low	
	Probability of Violating Weather Constraints										
Delay	80%	80% Primary Concerns: Liftoff Winds, Cumulus Cloud Rule, Disturbed Weather Rule									
	Weather Conditions								Additional Risk Criteria		
24-Hour	Weather/Visibility: Showers / 5 mi.			Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low-Mod		
24.	Temp/Humidity: 77°F / 82%			Cumulus	Scattered	3,000	18,000	Recovery Conditions:	High		
	Liftoff Winds (200'): 050° 30 - 35 mph			Cirrostratus	Broken	28,000	32,000	Solar Activity:	Low		
Notes											
Next Forecast Will Be Issued 7 November 2022											