



Launch Mission Execution Forecast



Mission: Falcon 9 Starlink 6-36

Issued: 27 Dec 2023/ 1700L (27/2200Z)

Valid: 28 Dec 2023 / 2300 – 29/0300L (29/0400 – 0800Z)

Forecast Discussion: A mid-level wave in the Gulf of Mexico will push into central Florida this evening, causing cloudy conditions and the possibility for showers overnight and into tomorrow morning. A cold front will move through central Florida tomorrow evening, bringing in much cooler, dry conditions by Friday morning.

By the beginning of the launch window, winds will be westerly and a lingering shower behind the cold frontal passage is possible, making the Cumulus Cloud Rule the primary concern. For the backup day, dry and cool conditions aloft will limit cloud cover to the low levels. Increased wind speeds may cause a Liftoff Winds concern at the surface, and a strong jet maximum aloft could cause an Upper-Level wind shear concern.

		Probability of Violating Weather Constraints ¹				
Launch Day	10%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria ²	
	Weather/Visibility: Isold Showers / 7 mi.	Clouds			Upper-Level Wind Shear: Low-Mod	
	Temp/Humidity: 60°F / 90%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 270° 13 - 18 mph	Cumulus	Scattered	3,000	8,000	Solar Activity: Low	
		Probability of Violating Weather Constraints				
24-Hour Delay	5%	Primary Concerns: Liftoff Winds				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low-Mod	
	Temp/Humidity: 53°F / 70%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 300° 20 - 25 mph	Stratocumulus	Few	3,000	6,000	Solar Activity: Low	
Liftoff Winds (200'): 300° 20 - 25 mph	Cirrus	Scattered	25,000	30,000	Solar Activity: Low	
Notes	1. The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window.					
	2. Additional Risk Criteria, which are not included in the PoV, are mission-specific constraints that may not include all phenomena within each risk factor.					
		See https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf for more information				
Next Forecast Will Be Issued		As Needed				