



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-23

Issued: 16 Oct 2023 / 1245L (1645Z)

Valid: 17 Oct 2023 / 1649 – 2049L (2049 – 18/0049Z)



Forecast Discussion: Northwesterly winds behind the cold front centered over the Bahamas has brought dry conditions and much cooler temperatures to the Space Coast. This regime should persist as a sharp upper-level trough lingers in the Atlantic through Thursday morning. Conditions for the primary launch window look very favorable, with low relative humidity values and a weak chance for a Cumulus Cloud Rule violation. The upper levels remain very dry as high pressure settles in today and tomorrow. Any cumulus clouds will be low-topped and only a concern if they linger directly over the pad.

For the backup day, similar conditions are expected. Low-level winds will shift more northerly, providing onshore flow and slightly increased moisture near the surface. There remains a small chance for a Cumulus Cloud Rule violation.

		Probability of Violating Weather Constraints ¹				
Launch Day	5%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria ²	
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
	Temp/Humidity: 68°F / 55%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 340° 15 - 20 mph	Cumulus	Few	3,000	10,000	Solar Activity: Low	
		Probability of Violating Weather Constraints				
24-Hour Delay	10%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
	Temp/Humidity: 75°F / 55%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 010° 10 - 15 mph	Cumulus	Scattered	3,000	6,000	Solar Activity: Low	
Notes	<ol style="list-style-type: none"> The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window. 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				