



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 10-7

Issued: 8 Aug 2024 / 1430L (1830Z)

Valid: 10 Aug 2024 / 0721 – 1121L (1121 – 1521Z)



Forecast Discussion: The Atlantic subtropical ridge axis is expected to build and move towards southern Florida over the weekend, bringing weak southwesterly flow to the Spaceport through Sunday. Thunderstorm development is expected to be starting as the window closes each day and conditions should be favorable for either window. The primary concern each morning is for a Cumulus Cloud Rule violation, particularly near the end of the window, as the sea breeze forms and moves inland across the Cape.

Launch Day		Probability of Violating Weather Constraints ¹				
Launch Day	10 → 20%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria ²	
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
		Type	Coverage	Base (ft)	Tops (ft)	
Temp/Humidity: 82°F / 85%	Cumulus	Few	2,500	8,000	Booster Recovery Weather: Low	
Liftoff Winds (200'): 220° 12 - 17 mph	Cirrus	Scattered	33,000	36,000	Solar Activity: Low	
24-Hour Delay		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	
		Type	Coverage	Base (ft)	Tops (ft)	
Temp/Humidity: 81°F / 85%	Cumulus	Few	2,500	7,000	Booster Recovery Weather: Low	
Liftoff Winds (200'): 210° 10 - 15 mph	Cirrus	Scattered	29,000	33,000	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		9 Aug 2024				