



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 10-61

Issued: 17 Sep 2025 / 0600L (1000Z)

Valid: 18 Sep 2025 / 0530 – 0930L (0930 – 1330Z)



Forecast Discussion: A weak boundary will drift southward across Florida late this week. Regardless of the location of that boundary during either launch window, cumulus clouds are expected to pose the primary threat of a weather violation. Although these clouds are likely to be isolated-to-scattered, a concentrated band of moisture bringing more cloud cover and longer periods of unfavorable conditions to the Cape is possible. Outside of that situation, most of the cloud tops should remain at, or below, flight-through levels but some tops may extend high enough to require more standoff distance.

Launch Day	Probability of Violating Weather Constraints ¹					
	35%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria ²	
	Weather/Visibility: Isol Showers / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
	Temp/Humidity: 77°F / 85%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
24-Hour Delay	Liftoff Winds (200'): 080° 8 - 16 mph	Cumulus	Scattered	2,500	10,000	Solar Activity: Low
		Cirrus	Scattered	28,000	31,000	
	Probability of Violating Weather Constraints					
	35%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
Notes	Weather/Visibility: Isol Showers / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
	Temp/Humidity: 78°F / 85%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
	Liftoff Winds (200'): 050° 12 - 22 mph	Cumulus	Scattered	2,500	11,000	Solar Activity: Low
		Cirrus	Scattered	28,000	31,000	
	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 Launch FAQ https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html for more information					
Next Forecast Will Be Issued		AS REQUIRED				