



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 10-14

Issued: 29 Aug 2025 / 0900L (1300Z)

Valid: 31 Aug 2025 / 0715–1115L (1115–1515Z)



Forecast Discussion: A weak westerly flow pattern continues over the state and will persist into the weekend, as a weak surface boundary over the northern portions of the peninsula gradually sags southward. With moisture levels remaining very high, showers and thunderstorms are expected to develop quickly with daytime heating each day, then slowly drift back toward the east coast during the afternoon and evening hours before diminishing overnight. Only isolated offshore showers are expected at the start of the window, but the risk of Cumulus Cloud and Anvil Rule violations increases with daytime heating toward the end of the window each day.

Launch Day	Probability of Violating Weather Constraints ¹					
	15→35%	Primary Concerns: Cumulus Cloud Rule, Anvil Rule				
	Weather Conditions				Additional Risk Criteria ²	
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear: Low
		Type	Coverage	Base (ft)	Tops (ft)	
24-Hour Delay	Temp/Humidity: 80°F / 85%	Cumulus	Few	2000	10,000	Booster Recovery Weather: Low-Mod
	Liftoff Winds (200'): 320° 8 - 12 mph	Cirrus	Scattered	25,000	28,000	Solar Activity: Low
	Probability of Violating Weather Constraints					
	20→40%	Primary Concerns: Cumulus Cloud Rule, Anvil Rule				
	Weather Conditions				Additional Risk Criteria	
Notes	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear: Low
		Type	Coverage	Base (ft)	Tops (ft)	
	Temp/Humidity: 79°F / 90%	Cumulus	Scattered	2,000	15,000	Booster Recovery Weather: Low
	Liftoff Winds (200'): 040° 10 - 15 mph	Cirrus	Broken	25,000	28,000	Solar Activity: Low
	<div>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.</div> <div>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.</div> <div>See Launch FAQ https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html for more information</div>					
Next Forecast Will Be Issued		30 Aug 25				