



Launch Mission Execution Forecast



Mission: Falcon 9 CRS-34

Issued: 11-May-26 / 1030L (1430Z)

Valid: 12-May-26 / 1906 – 1926L (2306 – 2326Z)
 13-May-26 / 1840 – 1900L (2240 – 2300Z)
 14-May-26 / 1817 – 1837L (2217 – 2237Z)

Forecast Discussion: Today's forecast has trended significantly less favorable for both the primary and backup launch attempts. A lingering boundary remains stalled across North Florida, along with upper-level troughing and deep moisture over the peninsula. The set-up today is similar to yesterday's, with strong to severe thunderstorms possible in East Central Florida this afternoon and evening. By tonight, another front will overtake the stalled boundary, and it will push through much of the state during the day tomorrow. This morning's model runs have trended slower with the front's southward progression, leading to deeper moisture and higher shower/thunderstorm coverage in East Central Florida tomorrow afternoon and evening. As a result, the Probability of Violating weather constraints has increased for tomorrow evening's attempt, with the main concerns being the Cumulus Cloud Rule, Anvil Cloud Rules, Surface Electric Fields Rule, and Flight Through Precipitation.

A slow drying trend will take place each subsequent day as the week progresses, though not enough to completely shut off precipitation chances for the Spaceport, especially as the active upper-level pattern continues. Expect at least isolated showers and storms each afternoon/evening with the east coast sea breeze, with a higher coverage on Wednesday compared to Thursday.

Launch Day	Probability of Violating Weather Constraints ¹				
	65%	Primary Concerns: Cumulus Cloud Rule , Anvil Cloud Rules , Surface Electric Fields Rule			
	Weather Conditions			Additional Risk Criteria ²	
	Weather/Visibility: Sct Showers / 7+ mi	Type	Coverage	Base (ft)	Tops (ft)
Temp/Humidity: 75°F / 85%	Cumulus	Broken	3,000	18,000	Solar Activity: Low
Liftoff Winds (200'): 080° 15 - 20 mph	Cirrostratus	Overcast	35,000	40,000	
24-Hour Delay	Probability of Violating Weather Constraints				
	35%	Primary Concerns: Cumulus Cloud Rule , Anvil Cloud Rules , Flight Through Precip			
	Weather Conditions			Additional Risk Criteria	
	Weather/Visibility: Isol Showers / 7+ mi	Type	Coverage	Base (ft)	Tops (ft)
Temp/Humidity: 77°F / 80%	Cumulus	Scattered	3,000	16,000	Solar Activity: Low
Liftoff Winds (200'): 070° 7 - 12 mph	Cirrostratus	Broken	30,000	40,000	
48-Hour Delay	Probability of Violating Weather Constraints				
	15%	Primary Concerns: Cumulus Cloud Rule , Flight Through Precip			
	Weather Conditions			Additional Risk Criteria	
	Weather/Visibility: None / 7+ mi	Type	Coverage	Base (ft)	Tops (ft)
Temp/Humidity: 81°F / 70%	Cumulus	Scattered	3,500	10,000	Solar Activity: Low
Liftoff Winds (200'): 120° 10 - 15 mph	Cirrus	Scattered	30,000	35,000	
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 Launch FAQ https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html for more information				
Next Forecast Will Be Issued		As Required			