



Launch Mission Execution Forecast



Mission: Falcon 9 SES-24

Issued: 18 Jun 2024 / 2030L (19/0030Z)

Valid: 19 Jun 2024 / 1735 – 2024L (2135 – 20/0024Z)

Forecast Discussion: Dominant easterly flow will continue through the rest of this week as an easterly wave draws nearer. Wind speeds will be in the 25-30mph range for a Wednesday night launch attempt, with gusts potentially reaching 35-40mph within any shower activity.

A significant moisture increase is expected on Thursday and into Friday morning with the arrival of the easterly wave. Winds will turn more northeasterly, and trend down to the 18-23mph range. The primary concern on a Thursday evening launch attempt will be a Cumulus Cloud and/or Anvil Cloud violation as moisture converges over the Space Coast creating widespread showers and potential convection.

		Probability of Violating Weather Constraints ¹				
Launch Day	70%	Primary Concerns: Liftoff Winds, Cumulus Cloud Rule				
	Weather Conditions			Additional Risk Criteria ²		
	Weather/Visibility: Showers / 7 mi.	Clouds			Upper-Level Wind Shear: Low-Mod	
	Temp/Humidity: 82°F / 80%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Mod-Hi
Liftoff Winds (200'): 080° 25 - 30 mph	Cumulus	Scattered	3,000	15,000	Solar Activity: Low	
		Cirrus	Scattered	30,000	35,000	
		Probability of Violating Weather Constraints				
24-Hour Delay	60%	Primary Concerns: Cumulus Cloud Rule, Anvil Rule				
	Weather Conditions			Additional Risk Criteria		
	Weather/Visibility: Showers / 7 mi.	Clouds			Upper-Level Wind Shear: Low-Mod	
	Temp/Humidity: 82°F / 85%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low-Mod
Liftoff Winds (200'): 050° 18 - 23 mph	Cumulus	Scattered	3,000	25,000	Solar Activity: Low	
		Cirrus	Scattered	25,000	35,000	
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				