



# Launch Mission Execution Forecast

**Mission:** Falcon 9 Intuitive Machines-2

**Issued:** 25 Feb 2025 / 1330L (1830Z)

**Valid:** 26 Feb 2025 / 1902 – 1934L (27/0002 – 0034Z)



**Forecast Discussion:** Surface high pressure off the coast of the Carolinas will maintain mostly benign weather across the Spaceport during the primary launch window. An upper trough and surface cold front will approach the region near the backup launch window, increasing the possibility of a Thick Cloud Layers Rule and Cumulus Cloud Rule violation.

Launch Day	Probability of Violating Weather Constraints <sup>1</sup>				
	<b>&lt;5%</b>	Primary Concerns: None			
	Weather Conditions			Additional Risk Criteria <sup>2</sup>	
	Weather/Visibility: None / 7 mi.	<b>Clouds</b> Type            Coverage    Base (ft)    Tops (ft)		Upper-Level Wind Shear: Low	
Temp/Humidity: 67°F / 81%	Cumulus	Few	2,500	6,000	Booster Recovery Weather: Low
Liftoff Winds (200'): 090° 7 - 12 mph					Solar Activity: Low
24-Hour Delay	Probability of Violating Weather Constraints				
	<b>20%</b>	Primary Concerns: Thick Cloud Layers Rule, Cumulus Cloud Rule			
	Weather Conditions			Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	<b>Clouds</b> Type            Coverage    Base (ft)    Tops (ft)		Upper-Level Wind Shear: Low	
Temp/Humidity: 69°F / 81%	Cumulus	Few	3,000	8,000	Booster Recovery Weather: Low
Liftoff Winds (200'): 200° 12 - 17 mph	Cirrostratus	Scattered	21,000	28,000	Solar Activity: Low
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 <a href="https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf">https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf</a> for more information				
Next Forecast Will Be Issued		As Required			