



# Launch Mission Execution Forecast

**Mission:** Falcon 9 SpainSat NG I

**Issued:** 28 Jan 2025 / 1245L (1745Z)

**Valid:** 29 Jan 2025 / 2034 – 30/0023L (30/0134 – 0523Z)



**Forecast Discussion:** Overall, launch weather conditions look favorable as ridging aloft and an area of high pressure at the surface move over the Florida peninsula tomorrow. The only watch item is jet-induced cirrostratus clouds streaming into the area, which introduces a small risk of a Thick Cloud Layers Rule violation if the bases are low enough. Upper-level cloud cover will diminish by Thursday as the high slides eastward, and there are no significant weather concerns for the backup launch day.

Launch Day		Probability of Violating Weather Constraints <sup>1</sup>				
Launch Day	<b>5%</b>	Primary Concerns: Thick Cloud Layers Rule				
	Weather Conditions				Additional Risk Criteria <sup>2</sup>	
	<b>Weather/Visibility:</b> None / 7 mi.	<b>Clouds</b>			<b>Upper-Level Wind Shear:</b> Low-Mod	
	<b>Temp/Humidity:</b> 62°F / 75%	Type	Coverage	Base (ft)	Tops (ft)	<b>Booster Recovery Weather:</b> N/A
<b>Liftoff Winds (200'):</b> 240° 5 - 10 mph	Cirrostratus	Scattered	26,000	32,000	<b>Solar Activity:</b> Low	
24-Hour Delay		Probability of Violating Weather Constraints				
24-Hour Delay	<b>&lt;5%</b>	Primary Concerns: None				
	Weather Conditions				Additional Risk Criteria	
	<b>Weather/Visibility:</b> None / 5 mi.	<b>Clouds</b>			<b>Upper-Level Wind Shear:</b> Low	
	<b>Temp/Humidity:</b> 65°F / 90%	Type	Coverage	Base (ft)	Tops (ft)	<b>Booster Recovery Weather:</b> N/A
<b>Liftoff Winds (200'):</b> 140° 10 - 15 mph	Cirrus	Few	33,000	36,000	<b>Solar Activity:</b> Low	
<b>Notes</b>	<ol style="list-style-type: none"> <li>The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window.</li> <li>Additional Risk Criteria, which are not included in the PoV, are mission-specific constraints that may not include all phenomena within each risk factor.</li> </ol>					
	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					
<b>Next Forecast Will Be Issued</b>		As Required				