



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-92

Issued: 5 Dec 2025 / 1330L (1830Z)

Valid: 7 Dec 2025 / 1640 – 2040L (2140 – 08/0140Z)



Forecast Discussion: Gradual warming back into the 80s will occur today as winds shift to the southwest in a pre-frontal environment. On Saturday, moisture will gradually increase across the peninsula as the weak frontal boundary slowly sags towards Central Florida, introducing rain with isolated thunderstorms into the forecast. On Sunday, the synoptic pattern remains sloppy as the weak boundary shifts to Central Florida. A weak area of low pressure is expected to form along the northern Gulf coast Sunday, which should help to tug the cold front through Central Florida by Monday morning, but not before the initial launch window. Agreement is not high between major model guidance of the timing of thickening of mid-level clouds or the onset of convection (if any), but the pattern is unsettled enough to warrant a POV of 60% for the initial launch window.

For the backup launch window Monday, the cold front will push to South Florida. However, a secondary cold front set up behind it across North Florida will create lingering thick clouds across Central Florida, leading to a POV concern. Additionally, strong northerly winds behind the front will be present but the lack of convection should keep winds below threshold.

Launch Day	Probability of Violating Weather Constraints ¹						
	60%	Primary Concerns: Thick Cloud Layers Rule, Cumulus Cloud Rule, Anvil Cloud Rules					
	Weather Conditions					Additional Risk Criteria ²	
	Weather/Visibility:	Sct showers / 7 mi.	Clouds				Upper-Level Wind Shear: Low
	Temp/Humidity:	72°F / 90%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
24-Hour Delay	Liftoff Winds (200'):	340° 12 - 17 mph	Cumulus	Scattered	2,500	10,000	Solar Activity: Low
			Cirrostratus	Broken	25,000	29,000	
	Probability of Violating Weather Constraints						
	30%	Primary Concerns: Thick Cloud Layers Rule, Liftoff Winds					
	Weather Conditions					Additional Risk Criteria	
Notes	Weather/Visibility:	None / 7 mi.	Clouds				Upper-Level Wind Shear: Low
	Temp/Humidity:	67°F / 80%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Moderate
	Liftoff Winds (200'):	350° 22 - 27 mph	Cumulus	Scattered	2,500	4,000	Solar Activity: Low
			Altostratus	Broken	19,000	24,000	
	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		6 Dec 2025					