



# Launch Mission Execution Forecast



**Mission:** Falcon 9 Starlink 8-11

**Issued:** 3 Sep 2024 / 1000L (1400Z)

**Valid:** 4 Sep 2024 / 0859 – 1259L (1259 – 1659Z)

**Forecast Discussion:** Another wet day is expected as deep tropical moisture pools across the Florida Peninsula south of a lingering trough. This pattern will continue above normal rain chances for the state through the week. With south to southeast flow, scattered morning showers with isolated thunderstorms are expected across the coastal waters during the initial launch window. Late in the window, the sea breeze may begin to generate showers and storms along the Space Coast. The main concerns will be for the Cumulus Cloud Rule and Anvil Rules.

Deep moisture will continue for the backup launch window on Thursday, with southerly flow remaining. Aside from some subtle meandering of the trough, the pattern largely remains the same, so a matching POV is in order for the backup launch window.

		Probability of Violating Weather Constraints <sup>1</sup>				
<b>Launch Day</b>	<b>30%</b>	<b>Primary Concerns:</b> Cumulus Cloud Rule, Anvil Rules				
	Weather Conditions				Additional Risk Criteria <sup>2</sup>	
	<b>Weather/Visibility:</b> Sct Showers / 7 mi.	<b>Clouds</b>			<b>Upper-Level Wind Shear:</b> Low	
	<b>Temp/Humidity:</b> 85°F / 75%	Type	Coverage	Base (ft)	Tops (ft)	<b>Booster Recovery Weather:</b> Low
<b>Liftoff Winds (200'):</b> 120° 10 - 15 mph	Cumulus	Scattered	2,500	16,000	<b>Solar Activity:</b> Low	
	Altostratus	Scattered	22,000	26,000		
		Probability of Violating Weather Constraints				
<b>24-Hour Delay</b>	<b>30%</b>	<b>Primary Concerns:</b> Cumulus Cloud Rule, Anvil Rules				
	Weather Conditions				Additional Risk Criteria	
	<b>Weather/Visibility:</b> Sct Showers / 7 mi.	<b>Clouds</b>			<b>Upper-Level Wind Shear:</b> Low	
	<b>Temp/Humidity:</b> 85°F / 75%	Type	Coverage	Base (ft)	Tops (ft)	<b>Booster Recovery Weather:</b> Low
<b>Liftoff Winds (200'):</b> 130° 8 - 12 mph	Cumulus	Scattered	2,500	16,000	<b>Solar Activity:</b> Low	
	Altostratus	Scattered	22,000	26,000		
<b>Notes</b>	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				
<b>Next Forecast Will Be Issued</b>		As Required				