



# Launch Mission Execution Forecast

**Mission:** Falcon 9 Dragon CRS-26

**Issued:** 24 November 2022 / 0930L (1430Z)

**Valid:** 26 November 2022 / 1415 - 1425L (1915 - 1925Z)



**Forecast Discussion:** A quasi-stationary frontal boundary currently located right across the Spaceport is kicking off Atlantic showers this morning. These will linger until the boundary lifts north later today. Rather than a singular frontal passage, models now show this boundary returning southwards late Friday. However, deep moisture does not look to be present with only a small chance for showers, a pattern that continues into the primary launch opportunity Saturday afternoon. The main weather concerns will be cumulus clouds and precipitation associated with any nearby showers.

Another cold front will move through on Monday with high pressure building across the eastern US behind it. With little momentum behind it, it's unclear if the boundary will completely clear the Spaceport for the backup launch attempt Monday afternoon, however it is expected to come with minimal fanfare. While chances for showers remain low, if the boundary still lingers then the increased mid-level cloud cover will pose the main weather concern.

By Tuesday drier weather is expected to arrive with only passing cumulus and high clouds, both of which pose minimal concern to the secondary backup window Tuesday afternoon at this time.

Launch Day	Probability of Violating Weather Constraints <sup>1</sup>					
	<b>20%</b>	Primary Concerns: Cumulus Cloud Rule, Flight Through Precipitation				
	Weather Conditions				Additional Risk Criteria <sup>2</sup>	
	<b>Weather/Visibility:</b> Isold Showers / 7 mi.	<b>Clouds</b>		<b>Upper-Level Wind Shear:</b> Low		
	Type	Coverage	Base (ft)	Tops (ft)		
<b>Temp/Humidity:</b> 76°F / 77%	Cumulus	Scattered	3,000	10,000	<b>Booster Recovery Weather:</b> Low	
<b>Liftoff Winds (200'):</b> 080° 12 - 17 mph	Cirrostratus	Broken	23,000	25,000	<b>Solar Activity:</b> Low	
48-Hour Delay	Probability of Violating Weather Constraints					
	<b>30%</b>	Primary Concerns: Thick Cloud Layer Rule, Cumulus Cloud Rule, Flight Through Precipitation				
	Weather Conditions				Additional Risk Criteria	
	<b>Weather/Visibility:</b> Isold Showers / 7 mi.	<b>Clouds</b>		<b>Upper-Level Wind Shear:</b> Low		
	Type	Coverage	Base (ft)	Tops (ft)		
<b>Temp/Humidity:</b> 75°F / 65%	Cumulus	Scattered	3,500	12,000	<b>Booster Recovery Weather:</b> Low-Mod	
<b>Liftoff Winds (200'):</b> 290° 7 - 12 mph	Altostratus	Overcast	17,000	21,000	<b>Solar Activity:</b> Low	
72-Hour Delay	Probability of Violating Weather Constraints					
	<b>10%</b>	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	<b>Weather/Visibility:</b> None / 7 mi.	<b>Clouds</b>		<b>Upper-Level Wind Shear:</b> Low		
	Type	Coverage	Base (ft)	Tops (ft)		
<b>Temp/Humidity:</b> 75°F / 72%	Stratocumulus	Scattered	3,000	7,000	<b>Booster Recovery Weather:</b> Low	
<b>Liftoff Winds (200'):</b> 090° 10 - 15 mph	Cirrus	Scattered	22,000	24,000	<b>Solar Activity:</b> Low	
Notes	1. The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring anytime 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** | 25 November 2022