



Launch Mission Execution Forecast

Mission: Falcon 9 Dragon CRS-26

Issued: 23 November 2022 / 0830L (1330Z)

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



Forecast Discussion: An inverted surface trough along the east coast of Florida will linger one more day, with continued cloudy and drizzly weather. Rain chances will wane into tonight as the trough moves farther east and an old frontal boundary lifts north of the area. This will bring a few days of quieter weather to end the week, with onshore flow bringing a small chance for Atlantic showers at times. This pattern will continue into the primary launch opportunity Saturday afternoon. The main weather concerns for Saturday afternoon will be cumulus clouds and precipitation associated with any nearby Atlantic showers.

The next storm system will lift out of the Deep South into the Northeastern US late Saturday into early Sunday, bringing another cold front into Florida on Sunday. Models differ with the exact timing of the front as it moves into the Spaceport sometime during the day, but consensus is for it to weaken as it does so with its parent low well to the north. The main weather concerns for a backup launch attempt Sunday afternoon will be the increased mid-level cloud cover with this front, along with cumulus clouds and precipitation with any showers that do manage to hold together.

Launch Day		Probability of Violating Weather Constraints ¹						
Launch Day	20%	Primary Concerns: Cumulus Cloud Rule, Flight Through Precipitation						
	Weather Conditions				Additional Risk Criteria ²			
	Weather/Visibility:	Isold Showers / 7 mi.	Clouds				Upper-Level Wind Shear:	Low
			Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
Temp/Humidity:	78°F / 75%	Cumulus	Scattered	3,000	10,000	Solar Activity:	Low	
Liftoff Winds (200'):	110° 7 - 12 mph	Cirrostratus	Broken	23,000	25,000			
24-Hour Delay		Probability of Violating Weather Constraints						
24-Hour Delay	50%	Primary Concerns: Thick Cloud Layers Rule, Cumulus Cloud Rule, Flight Through Precipitation						
	Weather Conditions				Additional Risk Criteria			
	Weather/Visibility:	Sct. Showers / 7 mi.	Clouds				Upper-Level Wind Shear:	Low
			Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
Temp/Humidity:	80°F / 75%	Cumulus	Broken	3,000	10,000	Solar Activity:	Low	
Liftoff Winds (200'):	220° 12 - 17 mph	Altostratus	Overcast	12,000	17,000			
Notes	<ol style="list-style-type: none"> The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring anytime during the launch window. 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 https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf for more information							
Next Forecast Will Be Issued		24 November 2022						