

Launch Mission Execution Forecast

Mission: Falcon 9 GlobalStar-FM15 Issued: 18 Jun 2022 / 1000L (1400Z)

Valid: 19 Jun 2022 / 0025 – 0035L (0425 – 0435Z)



Forecast Discussion: A hot and stormy day is in store for the Spaceport as a weak surface boundary pushes into the state. Expect storm initiation to begin in the early afternoon, with some cells becoming strong to severe before dying down after sunset. While most of the thunderstorm activity will be long gone as we enter the midnight hour, some midlevel clouds with remnant electrical charge may be left behind. The main concern for the primary window will be the Cumulus Cloud Rule and Surface Electric Field Rule.

On Sunday, the boundary lingers across the Florida Peninsula, but shower coverage should be lower across the Spaceport with the main precip shield displaced to the south. This leaves less remnant cloud cover behind for the backup launch window. Therefore, the Probability of Violation for a Monday morning launch attempt is lower, with the Cumulus Cloud Rule and Surface Electric Field Rule being the main concerns.

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	Probability of Violating Weather Constraints ¹									
Day	40% Primary Concerns: Cumulus Cloud Rule, Surface Electric Field Rule									
Launch	Weather Conditions							Additional Risk Criteria ²		
	Weather/Visi	bility:	Iso Showers / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
	Temp/Humid	ity:	77°F / 90%	Cumulus	Scattered	5,000	9,000	Booster Recovery Weather:	Low-Mod	
	Liftoff Winds	(200'):	220° 12 - 17 mph	Altocumulus	Scattered	18,000	22,000	Solar Activity:	Low	
		Probability of Violating Weather Constraints								
20% Primary Concerns: Cumulus Cloud Rule, Surface Electric Field Rule										
	Weather Conditions							Additional Risk Criteria		
24-Hour	Weather/Visibility: Iso Showers / 7 mi.		Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Mod		
24	Temp/Humid	ity:	77°F / 90%	Cumulus	Scattered	4,000	8,000	Booster Recovery Weather:	Low	
	Liftoff Winds	(200'):	080° 15 – 20 mph					Solar Activity:	Low	
Notes										
No	See https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf for more information									
Next Forecast Will Be Issued As Required										