



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 5-11

Issued: 9 Jun 2023 / 0845L (1245Z)

Valid: 12 Jun 2023 / 0240 – 0522L (0640 – 0922Z)



Forecast Discussion: Strong to isolated severe storms will again fire up in East Central Florida today due to the deep southwesterly flow, along with sufficient moisture and instability. A weak boundary will slowly drift southward into Central Florida today into tomorrow, but will begin to push back northwards by Sunday. Over the weekend, afternoon shower and storm activity will diminish by the evening hours, then offshore showers will develop over the Gulf Stream overnight due to the offshore flow. The timing of the launch window is favorable in this setup, as most of the activity is expected to stay over the Atlantic waters. The primary concern for the primary launch day is the small risk of a Cumulus Cloud Rule violation.

The backup day looks very similar to the primary day, with continued westerly flow keeping most of the shower activity offshore overnight. Thus, both the POV and primary concern are the same as the primary day.

Launch Day	Probability of Violating Weather Constraints¹					
	15%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria²	
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
Temp/Humidity: 78°F / 85%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low	
Liftoff Winds (200'): 260° 10 - 15 mph	Cumulus	Scattered	2,500	8,000	Solar Activity: Low	
24-Hour Delay	Probability of Violating Weather Constraints					
	15%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
Temp/Humidity: 78°F / 85%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low	
Liftoff Winds (200'): 250° 12 - 17 mph	Cumulus	Scattered	2,500	8,000	Solar Activity: Low	
Notes	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 https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf for more information					
Next Forecast Will Be Issued		10 Jun 2023				