



Launch Mission Execution Forecast



Mission: Falcon 9 Starlink 5-11

Issued: 10 Jun 2023 / 1045L (1445Z)

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

Forecast Discussion: The combination of deep offshore flow and the early morning launch window will allow for generally favorable weather both the primary and backup days. A weak boundary will slowly drift southward into Central Florida today, but will begin to push back northwards as a warm front tomorrow. This weekend, afternoon shower and storm activity along the Space Coast will diminish after sunset, then offshore showers will develop over the Gulf Stream overnight. Most of the activity will stay over the Atlantic waters overnight and early morning due to the westerly flow. 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 any shower activity offshore overnight. Both the POV and primary concern are the same as the primary day.

		Probability of Violating Weather Constraints ¹			
Launch Day	10%	Primary Concerns: Cumulus Cloud Rule			
	Weather Conditions			Additional Risk Criteria ²	
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low
	Temp/Humidity: 77°F / 90%	Type	Coverage	Base (ft)	Tops (ft)
Liftoff Winds (200'): 260° 10 - 15 mph	Cumulus	Scattered	2,500	8,000	Booster Recovery Weather: Low
					Solar Activity: Low
		Probability of Violating Weather Constraints			
24-Hour Delay	10%	Primary Concerns: Cumulus Cloud Rule			
	Weather Conditions			Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low
	Temp/Humidity: 77°F / 85%	Type	Coverage	Base (ft)	Tops (ft)
Liftoff Winds (200'): 240° 12 - 17 mph	Cumulus	Scattered	2,500	8,000	Booster Recovery Weather: Low
					Solar Activity: Low
Notes	<ol style="list-style-type: none"> The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time 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		11 Jun 2023			