



# Launch Mission Execution Forecast

**Mission:** Falcon 9 Starlink 6-6

**Issued:** 22 July 2023 / 2300L (23/0300Z)

**Valid:** 23 July 2023 / 1836 – 2239L (2236 – 24/0239Z)



**Forecast Discussion:** The Atlantic surface ridge axis will remain across far south Florida tomorrow into Monday, as an upper-level trough persists over the US East Coast. This will keep our region in a deep southwesterly flow regime characterized by a high threat of afternoon and evening thunderstorms into the early portions of the week. In particular, the highest risk for weather violations will be during the front end of each window when active thunderstorms and their associated cloud cover are likely to be in close proximity to the pad. Later in the window, thunderstorms are expected to steadily weaken or move off the coast and into the Atlantic, with remnant cloud cover across the area gradually thinning.

Launch Day		Probability of Violating Weather Constraints <sup>1</sup>						
Launch Day	<b>70%→25%</b>	Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules, Surface Electric Fields Rule						
	Weather Conditions				Additional Risk Criteria <sup>2</sup>			
	<b>Weather/Visibility:</b>	Sct T-storms / 7 mi.	Clouds				<b>Upper-Level Wind Shear:</b>	Low
			Type	Coverage	Base (ft)	Tops (ft)		
<b>Temp/Humidity:</b>	82°F / 85%	Cumulus	Scattered	2,500	18,000	<b>Booster Recovery Weather:</b>	Low	
<b>Liftoff Winds (200'):</b>	240° 10 - 15 mph	Altostratus	Broken	18,000	24,000	<b>Solar Activity:</b>	Low	
24-Hour Delay		Probability of Violating Weather Constraints						
24-Hour Delay	<b>70%→25%</b>	Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules, Surface Electric Fields Rule						
	Weather Conditions				Additional Risk Criteria			
	<b>Weather/Visibility:</b>	Sct T-storms / 7 mi.	Clouds				<b>Upper-Level Wind Shear:</b>	Low
			Type	Coverage	Base (ft)	Tops (ft)		
<b>Temp/Humidity:</b>	82°F / 85%	Cumulus	Scattered	2,500	18,000	<b>Booster Recovery Weather:</b>	Low	
<b>Liftoff Winds (200'):</b>	240° 10 - 15 mph	Altostratus	Broken	18,000	24,000	<b>Solar Activity:</b>	Low	
Notes	<ol style="list-style-type: none"> <li>The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window.</li> <li>Additional Risk Criteria, which are not included in the PoV, are mission-specific constraints that may not include all phenomena within each risk factor.</li> </ol>							
	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		As Required						