



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-7

Issued: 26 Jul 2023 / 0930L (1330Z)

Valid: 27 Jul 2023 / 2204L – 28/0044L (28/0204 – 0444Z)



Forecast Discussion: Light onshore flow is on tap today due to the position of the Bermuda high ridge axis, which is now located to our north. Afternoon showers and storms will shift well inland by the late afternoon and evening. Tomorrow, a weak tropical wave will push into the Florida Peninsula. This system will produce scattered showers and isolated thunderstorms, with a higher coastal shower coverage. The main concerns for the primary launch window will be the Cumulus Cloud Rule, Thick Cloud Layers Rule, and Anvil Cloud Rules.

On Friday, the Atlantic ridge will retreat towards the east, causing steering flow to become lighter while shifting to the south. However, moisture from the tropical wave will still linger across the state. While most afternoon storms should generally move inland, coastal convective activity may linger near the Spaceport during the launch window. The same weather rules will be the focus of concern for the backup launch window Friday night.

		Probability of Violating Weather Constraints ¹				
Launch Day	60%	Primary Concerns: Cumulus Cloud Rule, Thick Cloud Layers Rule, Anvil Cloud Rules				
	Weather Conditions			Additional Risk Criteria ²		
	Weather/Visibility: Sct Showers / 7 mi.			Clouds		Upper-Level Wind Shear: Low
		Type	Coverage	Base (ft)	Tops (ft)	
Temp/Humidity: 79°F / 90%	Cumulus	Scattered	3,000	10,000	Booster Recovery Weather: Low	
Liftoff Winds (200'): 110° 12 - 17 mph	Altostratus	Broken	15,000	19,000	Solar Activity: Low	
		Probability of Violating Weather Constraints				
24-Hour Delay	35%	Primary Concerns: Cumulus Cloud Rule, Thick Cloud Layers Rule, Anvil Cloud Rules				
	Weather Conditions			Additional Risk Criteria		
	Weather/Visibility: Iso Showers / 7 mi.			Clouds		Upper-Level Wind Shear: Low
		Type	Coverage	Base (ft)	Tops (ft)	
Temp/Humidity: 80°F / 80%	Cumulus	Scattered	3,000	10,000	Booster Recovery Weather: Low	
Liftoff Winds (200'): 150° 10 - 15 mph	Altostratus	Scattered	15,000	19,000	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		As Required				