



# Launch Mission Execution Forecast



**Mission:** Falcon 9 Starlink 6-25

**Issued:** 27 Oct 2023 / 0800L (1200Z)

**Valid:** 28 Oct 2023 / 1913 – 2313L (2313 – 29/0313Z)

**Forecast Discussion:** A surface ridge persists from the Mid-Atlantic to Southeastern states resulting in breezy onshore flow locally. Atmospheric moisture will remain shallow but likely sufficient to trigger isolated showers from time to time across the Florida East Coast. This ridge will gradually weaken with Post-Tropical Cyclone Tammy meandering in the vicinity of Bermuda over the next several days. The persistent winds associated with this slow-moving system acting on the ocean will continue to generate steep seas in the booster recovery zone through the weekend, gradually diminishing early next week.

Thus, the greatest weather-related threats for the primary launch day appear to be winds and seas in the booster recovery area, followed by local winds. The potential for cumulus clouds and possibly a few light showers rolling off the Atlantic waters also exists on both on the primary and backup launch opportunities.

Launch Day		Probability of Violating Weather Constraints <sup>1</sup>				
Launch Day	<b>20%</b>	Primary Concerns: Liftoff Winds, Cumulus Cloud Rule				
	Weather Conditions			Additional Risk Criteria <sup>2</sup>		
	<b>Weather/Visibility:</b> None / 7 mi.	<b>Clouds</b>			<b>Upper-Level Wind Shear:</b> Low	
	<b>Temp/Humidity:</b> 75°F / 75%	Type	Coverage	Base (ft)	Tops (ft)	<b>Booster Recovery Weather:</b> Moderate
<b>Liftoff Winds (200'):</b> 070° 17 - 22 mph	Cumulus	Scattered	3,000	12,000	<b>Solar Activity:</b> Low	
24-Hour Delay		Probability of Violating Weather Constraints				
24-Hour Delay	<b>10%</b>	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions			Additional Risk Criteria		
	<b>Weather/Visibility:</b> None / 7 mi.	<b>Clouds</b>			<b>Upper-Level Wind Shear:</b> Low	
	<b>Temp/Humidity:</b> 75°F / 80%	Type	Coverage	Base (ft)	Tops (ft)	<b>Booster Recovery Weather:</b> Low-Mod
<b>Liftoff Winds (200'):</b> 070° 15 - 20 mph	Cumulus	Scattered	3,000	12,000	<b>Solar Activity:</b> 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 <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				