



Launch Mission Execution Forecast



Mission: Falcon 9 Starlink 10-6

Issued: 1 August 2024 / 1100L (1500Z)

Valid: 2 August 2024 / 0019 – 0419L (0419 – 0819Z)

Forecast Discussion: No significant changes from the previously issued forecast. The western Atlantic ridge will continue to weaken ahead of an advancing tropical wave and a relatively drier column of air will allow ample opportunity for near record-high temperatures at the surface. With a weaker pressure gradient in place, winds will become light and variable and give way to localized daily seabreeze thunderstorms during maximum heating. These storms will meander the Space Coast area but will subside in advance of the launch windows each day leaving just lingering dissipating clouds. Additionally, during the launch windows there is a small chance for nocturnal storms to develop over the water near the coastline, especially on Saturday morning. Primary concerns for each day would be the Cumulus Cloud Rule.

		Probability of Violating Weather Constraints ¹				
Launch Day	5%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria ²	
	Weather/Visibility: Isolated Showers / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
	Temp/Humidity: 82°F / 85%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): VRB 5 mph	Cumulus	Few	3,000	15,000	Solar Activity: Mod	
		Probability of Violating Weather Constraints				
24-Hour Delay	20%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: Isolated Showers / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
	Temp/Humidity: 83°F / 85%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 150° 5-10 mph	Cirrostratus	Scattered	27,000	32,000	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		As Required				