



Launch Mission Execution Forecast



Mission: Falcon 9 Starlink 6-77

Issued: 6 Nov 2024 / 1900 (7/0000Z)

Valid: 7 Nov 2024 / 1513 – 1913L (2013 – 8/0013Z)

Forecast Discussion: As Hurricane Rafael continues to move westward across the Gulf of Mexico, high pressure will build back in across the peninsula bringing drier air with it. The only concern for Thursday’s window will be any low-topped cumulus that may track directly over the launch complex. For Friday, a weak cold front approaches the panhandle but is expected to stall north of the area. The only concern for the backup day will be the Cumulus Cloud Rule associated with isolated coastal showers.

Launch Day		Probability of Violating Weather Constraints ¹				
Launch Day	10%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions			Additional Risk Criteria ²		
	Weather/Visibility: Isol Showers / 7 mi.			Clouds		Upper-Level Wind Shear: Low
		Type	Coverage	Base (ft)	Tops (ft)	
Temp/Humidity: 78°F / 80%	Cumulus	Scattered	2,000	9,000	Booster Recovery Weather: Low	
Liftoff Winds (200’): 100° 16 - 21 mph					Solar Activity: Low	
24-Hour Delay		Probability of Violating Weather Constraints				
24-Hour Delay	5%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions			Additional Risk Criteria		
	Weather/Visibility: None / 7 mi.			Clouds		Upper-Level Wind Shear: Low
		Type	Coverage	Base (ft)	Tops (ft)	
Temp/Humidity: 80°F / 75%	Cumulus	Scattered	2,000	8,000	Booster Recovery Weather: Low	
Liftoff Winds (200’): 090° 15 - 20 mph					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. <p>See https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf for more information</p>					
Next Forecast Will Be Issued	As Needed					