

Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 10-30

Issued: 3 Aug 2025 / 1030L (1430Z)

Valid: 4 Aug 2025 / 0011-0411L (0411-0811Z)



Forecast Discussion: The low-pressure system with associated front has stalled and draped itself along southern Georgia. This system will continue to suppress the Bermuda High and keep the ridge axis to our south for today, which will keep us in a more southerly/southwesterly flow. Isolated thunderstorms and showers should be expected during the early to late afternoon hours that should dissipate much later this evening; however, slight instability and ample moisture still pose a chance for cumulus development in the overnight hours. The main concern for the primary launch window is cumulus and anvil cloud rules. The ridge will slowly begin to build back in on Monday as the low-pressure system marches northeast along the eastern seaboard and weakens, slightly decreasing probabilities of violation. This transitioning pattern of winds shifting more southeasterly will pose a risk of cumulus pushing in from the Atlantic during the launch window.

	Probability of Violating Weather Constraints ¹									
ich Day	15% Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules									
	Weather Conditions							Additional Risk Criteria ²		
aunch	Weather/Visi	oility: Nor	ne / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
_	Temp/Humid	ty : 82°	°F / 88%	Cumulus	Scattered	2,500	8,000	Booster Recovery Weather:	Low	
	Liftoff Winds	(200') : 190)° 10 - 15 mph	Cirrostratus	Few	25,000	30,000	Solar Activity:	Low	
	Probability of Violating Weather Constraints									
Delay	10% Primary Concerns: Cumulus Cloud Rule									
	Weather Conditions									
5			Weather	Condition	S			Additional Risk Cr	iteria	
-Hou	Weather/Visil	oility: Nor	Weather	Type	Clouds Coverage	Base (ft)	Tops (ft)	Additional Risk Cr	i teria	
24-Hou	Weather/Visil	•			Clouds		Tops (ft) 10,000		Low	
24-Hour	Temp/Humid	ity : 82°	ne / 7 mi.	Туре	Clouds Coverage	Base (ft)		Upper-Level Wind Shear:	Low	
Notes 24-Hou	Temp/Humid Liftoff Winds 1. The Proba 2. Additional	ity: 82° (200'): 170 bility of Violatingsk Criteria,	ne / 7 mi. PF / 85% O° 10 - 15 mph ion (PoV) is the chance which are not include:	Type Cumulus ee of a local safety d in the PoV, are r	Clouds Coverage Scattered or customer comission-specific	Base (ft) 3,000 onstraint vio	10,000	Upper-Level Wind Shear: Booster Recovery Weather:	Low Low Low	