



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-5

Issued: 9 July 2023 / 0845L (1245Z)

Valid: 9 July 2023 / 2016 – 10/0019L (10/0016 – 0419Z)



Forecast Discussion: It's a quieter start to the morning across Central Florida, but it will not remain that way for long under abundant sunshine. In a familiar pattern from this week, storms will fire up along the Gulf coast and push eastwards into the Spaceport by early afternoon along with any locally developing activity. Like the past few days, a few strong storms are not out of the question along with heavy rain. With the later start to activity, some showers and storms may still be ongoing in the vicinity as the primary launch window opens this evening around sunset. Convection will end or push offshore shortly thereafter, leaving leftover clouds that will dissipate through the late evening launch window with improving weather conditions.

An upper-level disturbance will swing through the area on Monday, also bringing a weak surface front into North Florida. While timing of showers and storms won't be too dissimilar to today, the infusion of a little more energy to the atmosphere brings a few more stronger storms and keeps activity going later into the evening. This will lead to better chances for weather violations as the backup window opens Monday evening. Conditions will slowly improve through the window, though likely not as quickly as on Sunday.

Launch Day		Probability of Violating Weather Constraints ¹					
		50%→10%	Primary Concerns: Anvil Cloud Rules, Surface Electric Fields Rule, Cumulus Cloud Rule				
		Weather Conditions				Additional Risk Criteria ²	
		Weather/Visibility:	Isold Storms / 7 mi.	Clouds			Upper-Level Wind Shear: Low
			Type	Coverage	Base (ft)	Tops (ft)	
		Temp/Humidity:	81°F / 88%	Cumulus	Scattered	3,000	9,000
		Liftoff Winds (200'):	220° 7 - 12 mph	Cirrostratus	Broken	18,000	25,000
							Solar Activity: Low
24-Hour Delay		Probability of Violating Weather Constraints					
		75%→20%	Primary Concerns: Anvil Cloud Rules, Surface Electric Fields Rule, Cumulus Cloud Rule				
		Weather Conditions				Additional Risk Criteria	
		Weather/Visibility:	Sct Storms / 7 mi.	Clouds			Upper-Level Wind Shear: Low
			Type	Coverage	Base (ft)	Tops (ft)	
		Temp/Humidity:	83°F / 78%	Cumulus	Scattered	3,500	12,000
		Liftoff Winds (200'):	240° 10 - 15 mph	Cirrostratus	Broken	20,000	27,000
							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 Needed					