



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-8

Issued: 5 August 2023 / 0900L (1300Z)

Valid: 6 August 2023 / 2022 – 7/0025L (7/0022 – 0425Z)



Forecast Discussion: A series of upper-level troughs passing through the eastern US into next week will act to suppress the subtropical surface ridge axis well south of the Spaceport. The resultant deep southwesterly flow combined with above normal atmospheric moisture and daily seabreeze development will trigger numerous showers and storms during the late afternoon and evening hours across the eastern portion of the Florida peninsula each day this weekend through the middle of next week.

Thus, the probability for weather violations will be rather high for both the primary day and backup day attempts, specifically during the front end of each window when active thunderstorms and their associated cloud cover are more likely to be in close proximity to the pad. Later in the window, thunderstorms are expected to diminish or move offshore, with remnant cloud cover gradually thinning.

Launch Day	Probability of Violating Weather Constraints ¹						
	70%→20%	Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules, Surface Electric Fields Rule					
	Weather Conditions				Additional Risk Criteria ²		
	Weather/Visibility:	Sct T-storms / 7 mi.	Clouds			Upper-Level Wind Shear:	Low
		Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
Temp/Humidity:	82°F / 90%	Cumulus	Scattered	3,000	18,000	Solar Activity:	Low
Liftoff Winds (200'):	220° 10 - 15 mph	Altostratus	Broken	18,000	24,000		
24-Hour Delay	Probability of Violating Weather Constraints						
	70%→20%	Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules, Surface Electric Fields Rule					
	Weather Conditions				Additional Risk Criteria		
	Weather/Visibility:	Sct T-storms / 7 mi.	Clouds			Upper-Level Wind Shear:	Low
		Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
Temp/Humidity:	83°F / 85%	Cumulus	Scattered	3,000	18,000	Solar Activity:	Low
Liftoff Winds (200'):	220° 10 - 15 mph	Altostratus	Broken	18,000	24,000		
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					