



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 5-15

Issued: 13 Jul 2023 / 0915L (1315Z)

Valid: 14 Jul 2023 / 0010 – 0111L (0410 – 0511Z)



Forecast Discussion: No significant changes to today's update, as conditions continue to look generally favorable for tonight's launch attempt. Today, upper-level ridging will build, and the low-level Atlantic ridge will continue its slow push northwards. The weaker low-level flow will allow the sea breeze and the associated storms to push further inland during the afternoon compared to the last several days. Some of this convection may try to push eastwards back towards the coast in the late afternoon and evening, but this activity will dissipate as we head towards the launch window shortly after midnight. Additional showers and storms will start to develop over the Gulf Stream waters overnight, but they are expected to stay off the coast. The primary concerns are the Anvil Cloud Rules and the Cumulus Cloud Rule violation associated with small risk of lingering cloud cover or blowoff from a storm off the coast. The back up day looks very similar to the primary launch attempt, so the POV and primary concerns are the same.

Launch Day		Probability of Violating Weather Constraints ¹					
		15%	Primary Concerns: Anvil Cloud Rules, Cumulus Cloud Rule				
		Weather Conditions				Additional Risk Criteria ²	
		Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear: Low
			Type	Coverage	Base (ft)	Tops (ft)	
		Temp/Humidity: 81°F / 85%	Cumulus	Scattered	3,000	9,000	Booster Recovery Weather: Low
		Liftoff Winds (200'): 190° 10 - 15 mph	Cirrostratus	Scattered	33,000	36,000	Solar Activity: Low
24-Hour Delay		Probability of Violating Weather Constraints					
		15%	Primary Concerns: Anvil Cloud Rules, 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: 82°F / 85%	Cumulus	Scattered	3,000	8,000	Booster Recovery Weather: Low
		Liftoff Winds (200'): 180° 12 - 17 mph	Cirrostratus	Scattered	31,000	34,000	Solar Activity: Low
Notes	1. The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window. 2. 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					