



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-10

Issued: 15 Aug 2023 / 0830L (1230Z)

Valid: 16 Aug 2023 / 2000 – 17/0000L (17/0000 – 0400Z)



Forecast Discussion: No significant changes to today’s update. This week will feature another active weather pattern across the Space Coast, as the Atlantic surface ridge has shifted back southwards. Tomorrow, the mid-level ridge that helped limit the storm coverage last week will continue to break down as a trough digs into the Southeast. This mid-level support, combined with deep moisture and the southwest flow, will bring a high coverage of thunderstorms across East Central Florida on both Wednesday and Thursday afternoons. The storms and associated cloud cover will likely persist into the opening of the window, and slowly dissipate as we approach midnight. For both the primary and backup days, the POV is significantly higher at the start of the window and decrease as the window progresses, with the main concerns being the cloud cover associated with the evening showers and storms.

		Probability of Violating Weather Constraints ¹					
Launch Day	80→35%	Primary Concerns: Anvil Cloud Rules, Surface Electric Fields Rule, Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria²		
	Weather/Visibility: Sct Showers / 7 mi.	Clouds				Upper-Level Wind Shear:	Low
	Temp/Humidity: 80°F / 90%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
Liftoff Winds (200’): 150° 12 - 17 mph	Cumulus	Scattered	3,000	12,000	Solar Activity:	Low	
	Cirrostratus	Broken	25,000	32,000			
		Probability of Violating Weather Constraints					
24-Hour Delay	80→35%	Primary Concerns: Anvil Cloud Rules, Surface Electric Fields Rule, Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria		
	Weather/Visibility: Sct Showers / 7 mi.	Clouds				Upper-Level Wind Shear:	Low
	Temp/Humidity: 79°F / 90%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
Liftoff Winds (200’): 200° 10 - 15 mph	Cumulus	Scattered	3,000	12,000	Solar Activity:	Low	
	Cirrostratus	Broken	25,000	32,000			
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					