



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-56

Issued: 7 May 2024 / 1000L (1400Z)

Valid: 8 May 2024 / 1042 – 1442L (1442 – 1842Z)



Forecast Discussion: The high-pressure ridge axis is now positioned across central Florida and will remain in place for the next few days. Moisture extent is limited to the very lowest levels of the atmosphere, so there will be only a slight chance of Cumulus Cloud Rule violation at sea breeze onset during the midday hours. For the backup day, the ridge persists across the central portions of the state, so the only concern for the launch window will be for the Cumulus Cloud Rule with seabreeze onset once again.

Launch Day		Probability of Violating Weather Constraints ¹				
Launch Day	10%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria ²	
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
	Temp/Humidity: 85°F / 65%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 150° 12 - 18 mph	Cumulus	Scattered	2,500	8,000	Solar Activity: Mod	
24-Hour Delay		Probability of Violating Weather Constraints				
24-Hour Delay	10%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
	Temp/Humidity: 85°F / 70%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 190° 15 - 20 mph	Cumulus	Scattered	2,500	9,000	Solar Activity: Mod	
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				