



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-25

Issued: 28 Oct 2023 / 0930L (1330Z)

Valid: 29 Oct 2023 / 1848 – 2248L (2248 – 30/0248Z)



Forecast Discussion: A surface ridge extends across the southeast US while a weak area of low pressure develops east of the Bahamas, resulting in continued breezy onshore flow across central Florida today and tomorrow. The ridge will gradually weaken as the Atlantic low pressure system shifts north, leading to a reduction in local winds by Monday. Atmospheric moisture remains shallow but sufficient to bring scattered to occasionally broken cumulus clouds onto the coast from the neighboring Atlantic. Windy conditions and steep seas in the booster recovery zone today will steadily diminish through early next week.

Thus, the primary weather concerns for primary and backup launch opportunities are onshore moving cumulus clouds, with an added risk of liftoff winds for the primary launch day.

		Probability of Violating Weather Constraints ¹				
Launch Day	15%	Primary Concerns: Liftoff Winds, Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria ²	
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
	Temp/Humidity: 75°F / 75%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low-Mod
Liftoff Winds (200'): 070° 15 - 20 mph	Cumulus	Scattered	3,000	12,000	Solar Activity: Low	
		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: 75°F / 80%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 050° 12 - 17 mph	Cumulus	Scattered	3,000	12,000	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 Required				