



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-34

Issued: 10 Dec 2023 / 1300L (1800Z)

Valid: 11-12 Dec 2023 / 2300 – 0300L (12/0400 – 0800Z)



Forecast Discussion: A strong cold front will push through the area tonight, bringing showers and a few thunderstorms. By sunrise Monday, the front and associated weather will have pushed well offshore, with surface high pressure building across the state. This will set up breezy conditions for Monday night’s launch attempt but otherwise favorable weather. This northeasterly low-level flow will strengthen further by the delay day opportunity as a weak trough develops along the old frontal boundary to the south, also triggering a few more clouds locally.

Thus, liftoff winds remain a concern for both the Monday night and Tuesday night launch attempts, with a secondary concern on the backup day being additional upper-level cloud layers.

		Probability of Violating Weather Constraints ¹				
Launch Day	15%	Primary Concerns: Liftoff Winds				
	Weather Conditions			Additional Risk Criteria ²		
	Weather/Visibility: None / 7 mi.	Clouds Type Coverage Base (ft) Tops (ft)			Upper-Level Wind Shear: Low-Mod	
	Temp/Humidity: 55°F / 80%	Cumulus	Scattered	3,000	6,000	Booster Recovery Weather: Low
Liftoff Winds (200'): 010° 17 - 22 mph					Solar Activity: Low	
		Probability of Violating Weather Constraints				
24-Hour Delay	40%	Primary Concerns: Liftoff Winds, Thick Cloud Layers Rule				
	Weather Conditions			Additional Risk Criteria		
	Weather/Visibility: None / 7 mi.	Clouds Type Coverage Base (ft) Tops (ft)			Upper-Level Wind Shear: Low-Mod	
	Temp/Humidity: 64°F / 85%	Cumulus	Scattered	3,000	9,000	Booster Recovery Weather: Low
Liftoff Winds (200'): 060° 20 - 25 mph	Cirrostratus	Broken	20,000	25,000	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				