



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 10-8

Issued: 25 Oct 2024 / 1030L (1430Z)

Valid: 26 Oct 2024 / 1747 – 2147L (26/2147 – 27/0147Z)



Forecast Discussion: Surface high pressure will build in across the Spaceport from the north through Saturday, ushering in drier air across the region. An isolated shower may develop near the coast in the mornings, with dry weather expected in the afternoons. Although most areas should see shallow cumulus, there is a small chance of the Cumulus Cloud Rule being violated. A front approaching from the north on Sunday will increase mid/high-level clouds, creating a small risk of the Thick Cloud Rule being violated for the backup day.

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	
		Type	Coverage	Base (ft)	Tops (ft)	
Temp/Humidity: 78°F / 60%	Cumulus	Few	3,000	11,000	Booster Recovery Weather: Low	
Liftoff Winds (200'): 050° 10 - 15 mph	Cirrus	Scattered	24,000	27,000	Solar Activity: Low	
24-Hour Delay		Probability of Violating Weather Constraints				
24-Hour Delay	10%	Primary Concerns: Thick 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: 79°F / 59%	Cumulus	Few	3,000	9,000	Booster Recovery Weather: Low-Mod	
Liftoff Winds (200'): 060° 11 - 16 mph	Altostratus	Scattered	20,000	24,000	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.					
Next Forecast Will Be Issued		As needed				

See <https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf> for more information