



Launch Mission Execution Forecast

Mission: Falcon 9 GPS III-9

Issued: 25 Jan 2026 / 1215L (1715Z)

Valid: 26 Jan 2026 / 2334 – 27/0009L (27/0434 – 0509Z)



Forecast Discussion: Today, a major winter storm system will continue to develop over the eastern US as it brings significant ice and snow to large portions of the country. A strong cold front associated with the storm will move into the Florida panhandle this afternoon, but most of the state will experience near-record high temperatures and dry conditions due to the enhanced south/southwesterly winds ahead of the front. Tomorrow morning, the front will bring scattered showers to East Central Florida as it pushes through the region. Behind the front, much colder and drier air will filter in as northerly winds significantly increase with the tightening pressure gradient. These winds will be the main concern for the primary attempt on Monday night, as they are expected to approach and periodically exceed liftoff constraints. Additionally, elevated winds and waves in the recovery area behind the departing storm will be a watch item.

On Tuesday, winds at both the launch site and recovery area will decrease as high pressure pushes into the Southeast, relaxing the pressure gradient. This will allow for very favorable launch conditions, with the only concern being the negligible risk of a Cumulus Cloud Rule violation.

Launch Day		Probability of Violating Weather Constraints ¹					
		60%	Primary Concerns: Liftoff Winds				
Launch Day		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: 51°F / 65%	Stratocumulus	Few	2,000	3,500	Booster Recovery Weather: Moderate
Liftoff Winds (200'): 340° 32 - 38 mph					Solar Activity:	Low	
24-Hour Delay		Probability of Violating Weather Constraints					
		5%	Primary Concerns: Cumulus Cloud Rule				
24-Hour Delay		Weather Conditions			Additional Risk Criteria		
		Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear:	Low
			Type	Coverage	Base (ft)	Tops (ft)	
		Temp/Humidity: 48°F / 70%	Cumulus	Few	2,000	5,000	Booster Recovery Weather: Low
Liftoff Winds (200'): 320° 12 - 17 mph					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 Launch FAQ https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html for more information						
Next Forecast Will Be Issued		As Required					