



Launch Mission Execution Forecast

Mission: Falcon 9 GPS III-9

Issued: 24 Jan 2026 / 0930L (1430Z)

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



Forecast Discussion: Today into tomorrow, a complex winter storm system will continue to develop over the eastern US, bringing significant ice and snow to large portions of the country. The parent low will drag a strong cold front into the Florida panhandle tomorrow, 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. However, on Monday 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 due to a tightening pressure gradient. Thus, the main concern for the primary attempt on Monday night is winds exceeding 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					
Launch Day	60%	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
	Temp/Humidity: 51°F / 60%	Stratocumulus	Few	2,000	3,500	Booster Recovery Weather:	Mod-High
Liftoff Winds (200'): 340° 30 - 38 mph					Solar Activity:	Low	
24-Hour Delay		Probability of Violating Weather Constraints					
24-Hour Delay	5%	Primary Concerns: Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria		
	Weather/Visibility: None / 7 mi.	Clouds Type Coverage Base (ft) Tops (ft)				Upper-Level Wind Shear:	Low
	Temp/Humidity: 48°F / 70%	Cumulus	Few	2,000	5,000	Booster Recovery Weather:	Low
Liftoff Winds (200'): 320° 15 - 20 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	25 Jan 2026					