



# Launch Mission Execution Forecast

**Mission:** Falcon 9 GPS III-9

**Issued:** 23 Jan 2026 / 1330L (1830Z)

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



**Forecast Discussion:** On Sunday, a complex storm system will continue to develop over the eastern US, bringing significant ice and snow to large portions of the Southeast through New England. The low will drag a cold front into the Florida panhandle Sunday afternoon and evening, but most of the state will experience well above average 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 as it pushes through the Spaceport. Behind the front, colder and drier air will filter in as northerly winds quickly increase due to a tightening pressure gradient. Thus, the main concern for the primary attempt on Monday night is winds approaching 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 the pressure gradient relaxes and high pressure pushes into the Southeast. This will allow for favorable launch conditions, with the only concern being the very low risk of a Cumulus Cloud Rule violation.

Launch Day		Probability of Violating Weather Constraints <sup>1</sup>					
		<b>45%</b>	Primary Concerns: Liftoff Winds				
Launch Day		Weather Conditions				Additional Risk Criteria <sup>2</sup>	
		<b>Weather/Visibility:</b> None / 7 mi.	<b>Clouds</b>			<b>Upper-Level Wind Shear:</b>	Low
			Type	Coverage	Base (ft)	Tops (ft)	
		<b>Temp/Humidity:</b> 52°F / 65%	Stratocumulus	Few	2,000	3,500	<b>Booster Recovery Weather:</b> Mod-High
<b>Liftoff Winds (200'):</b> 340° 28 - 34 mph						<b>Solar Activity:</b>	Low
24-Hour Delay		Probability of Violating Weather Constraints					
		<b>5%</b>	Primary Concerns: Cumulus Cloud Rule				
24-Hour Delay		Weather Conditions				Additional Risk Criteria	
		<b>Weather/Visibility:</b> None / 7 mi.	<b>Clouds</b>			<b>Upper-Level Wind Shear:</b>	Low
			Type	Coverage	Base (ft)	Tops (ft)	
		<b>Temp/Humidity:</b> 48°F / 65%	Cumulus	Few	2,000	5,000	<b>Booster Recovery Weather:</b> Low
<b>Liftoff Winds (200'):</b> 340° 15 - 20 mph						<b>Solar Activity:</b>	Low
Notes	<ol style="list-style-type: none"> <li>The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window.</li> <li>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 <a href="https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html">https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html</a> for more information</li> </ol>						
	<b>Next Forecast Will Be Issued</b>	24 Jan 2026					