



# Launch Mission Execution Forecast

**Mission:** Atlas V Leo 4

**Issued:** 14 Dec 2025 / 1330L (1830Z)

**Valid:** 16 Dec 2025 / 0328 - 0357L (0828 - 0857Z)



**Forecast Discussion:** A cold front will move across the Spaceport this evening, followed by strong high pressure building from the Midwest to the Ohio Valley on Monday. The pressure gradient between the departing front and the high building in will create windy conditions across the Spaceport this evening through Monday. These winds will quickly diminish Monday afternoon into the evening, as high pressure builds across the Southeast, helping to create mostly favorable weather conditions during the primary and backup launch opportunities.

<b>Launch Day</b>	Probability of Violating Weather Constraints <sup>1</sup>						
	<b>5%</b>	<b>Primary Concerns:</b> Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria <sup>2</sup>		
	<b>Weather/Visibility:</b>	None / 7 mi.	<b>Clouds</b>		<b>Solar Activity:</b> Low		
		Type	Coverage	Base (ft)			Tops (ft)
<b>Temp/Humidity:</b>	59°F / 79%	Cumulus	Scattered	3,000			6,000
<b>Ground Winds (230'):</b>	050° 8 - 13 knots						

<b>24-Hour Delay</b>	Probability of Violating Weather Constraints						
	<b>5%</b>	<b>Primary Concerns:</b> Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria		
	<b>Weather/Visibility:</b>	None / 7 mi.	<b>Clouds</b>		<b>Solar Activity:</b> Low		
		Type	Coverage	Base (ft)			Tops (ft)
<b>Temp/Humidity:</b>	64°F / 81%	Cumulus	Scattered	3,000			6,000
<b>Ground Winds (230'):</b>	110° 8 - 12 knots						
		Cirrus	Few	30,000	32,000		

**Notes**

- The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring anytime during the launch window.
- 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