



# Launch Mission Execution Forecast

**Mission:** Atlas V CFT

**Issued:** 31 May 24 /0700L (1100Z)

**Valid:** 1 Jun 24 /1218-1238L (1618-1638Z)



**Forecast Discussion:** A large area of high pressure, currently centered over the Ohio Valley region, should dominate Central Florida’s weather through the backup day. For the primary launch window, that high is expected to be near the North Carolina coast, bringing breezy, easterly winds and dry, stable air to the spaceport. Weather is expected to be favorable, with winds and the Cumulus Cloud Rule being the primary concerns.

By the backup day, the high is expected to have migrated eastward off the coast of North Carolina. Conditions are expected to be much like Saturday, although a slight decrease in wind speed and small increase in cloud cover are anticipated. The weather risk remains low overall, with wind and the Cumulus Cloud Rule continuing to pose a small threat.

<b>Launch Day</b>	<b>Probability of Violating Weather Constraints<sup>1</sup></b>					
	<b>10%</b>	<b>Primary Concerns:</b> Ground Winds, Cumulus Cloud Rule				
	<b>Weather Conditions</b>				<b>Additional Risk Criteria<sup>2</sup></b>	
	<b>Weather/Visibility:</b> None / 7 mi	<b>Clouds</b>				<b>Solar Activity:</b> Low-Mod
<b>Temp/Humidity:</b> 82°F / 55%	Type	Coverage	Base (ft)	Tops (ft)		
<b>Liftoff Winds (200'):</b> 080° 18 - 26 kts	Cumulus	Few	3,000	6,000		

<b>24-Hour Delay</b>	<b>Probability of Violating Weather Constraints<sup>1</sup></b>					
	<b>10%</b>	<b>Primary Concerns:</b> Ground Winds, Cumulus Cloud Rule				
	<b>Weather Conditions</b>				<b>Additional Risk Criteria</b>	
	<b>Weather/Visibility:</b> None / 7 mi.	<b>Clouds</b>				<b>Solar Activity:</b> Low-Mod
<b>Temp/Humidity:</b> 83°F / 55%	Type	Coverage	Base (ft)	Tops (ft)		
<b>Liftoff Winds (200'):</b> 100° 14 - 22 kts	Cumulus	Scattered	3,000	6,000		

**Notes**

- The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time 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

<b>Next Forecast Will Be Issued</b>	AS REQUIRED
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