



# Launch Mission Execution Forecast

**Mission:** Atlas V GOES-T

**Issued:** 26 Feb 2022 / 0800L (1300Z)

**Valid:** 1 Mar 2022 / 1638 – 1838L (2138 – 2338Z)



**Forecast Discussion:** Dry weather and above average temperatures continue through Sunday as high pressure lingers over central Florida. For Roll Day Monday, a mostly dry cool front moves through in the morning, switching winds from the north. After which, things get more complicated with a mid-level shortwave trough moving across the state as well as a surface trough or closed low developing right off the coast. Both of these will increase rain chances behind the front Monday afternoon through Tuesday, bringing scattered mostly light to moderate rain showers, with breezy winds near 15-20kt from the north. Lightning chances are lower at this time, with most lightning forecast to occur overnight Monday into Tuesday over the warmer Gulfstream waters offshore. For Launch Day through backup day, moisture remains high with the surface trough or low just off the coast, bringing few to scattered showers moving onshore somewhere around central FL Tuesday and isolated to few lingering into Wednesday afternoon.

Launch Day	Probability of Violating Weather Constraints <sup>1</sup>					
	<b>40%</b>	<b>Primary Concerns:</b> Cumulus Cloud Rule, Surface Electric Fields Rule				
	Weather Conditions				Additional Risk Criteria <sup>2</sup>	
	<b>Weather/Visibility:</b>	Scattered Showers / 7 mi.	Clouds			<b>Solar Activity:</b> Low
<b>Temp/Humidity:</b>	68°F / 85%	Type	Coverage	Base (ft)	Tops (ft)	
<b>Ground Winds (230'):</b>	010° 15 - 20 knots	Cumulus	Scattered	2,000	12,000	
		Stratus	Broken	2,000	5,000	

24-Hour Delay	Probability of Violating Weather Constraints					
	<b>30%</b>	<b>Primary Concerns:</b> Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	<b>Weather/Visibility:</b>	Few Showers / 7 mi.	Clouds			<b>Solar Activity:</b> Low
<b>Temp/Humidity:</b>	68°F / 80%	Type	Coverage	Base (ft)	Tops (ft)	
<b>Ground Winds (230'):</b>	020° 10 - 15 knots	Cumulus	Few	2,500	10,000	
		Stratocumulus	Scattered	2,500	5,000	

**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** | 27 Feb 2022