



# Launch Mission Execution Forecast

**Mission:** Atlas V GOES-T

**Issued:** 27 Feb 2022 / 0800L (1300Z)

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



**Forecast Discussion:** One last sunny dry day is expected today. For Roll Day tomorrow, a mostly dry cool front moves through in the morning, switching winds from the north and stalling just to our south. A complicated weather pattern develops on Monday with a mid-level shortwave trough moving across the state at the same time a surface low is developing off the frontal boundary right off the coast of east central FL. This brings scattered showers moving in from the northwest by late afternoon Monday. As the surface low intensifies off the coast, winds will increase to near 15-20kt from the north by late afternoon. 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 low lingering just off the coast through Tuesday and just slowly drifting away Wednesday, bringing few to scattered showers moving onshore from the northeast somewhere around central FL Tuesday and isolated to few lingering into Wednesday afternoon.

Launch Day	Probability of Violating Weather Constraints <sup>1</sup>				
	40%	Primary Concerns: Cumulus Cloud Rule, Surface Electric Fields Rule			
	Weather Conditions				Additional Risk Criteria <sup>2</sup>
	<b>Weather/Visibility:</b> Scattered Showers / 7 mi. <b>Temp/Humidity:</b> 69°F / 85% <b>Ground Winds (230'):</b> 360° 15 - 20 knots	<b>Clouds</b> Type Cumulus Stratus	Coverage Scattered Broken	Base (ft) 2,000 2,000	Tops (ft) 14,000 5,000 <b>Solar Activity:</b> Low
24-Hour Delay	Probability of Violating Weather Constraints				
	30%	Primary Concerns: Cumulus Cloud Rule			
	Weather Conditions				Additional Risk Criteria
	<b>Weather/Visibility:</b> Few Showers / 7 mi. <b>Temp/Humidity:</b> 68°F / 80% <b>Ground Winds (230'):</b> 010° 10 - 15 knots	<b>Clouds</b> Type Cumulus	Coverage Scattered	Base (ft) 2,500	Tops (ft) 10,000 <b>Solar Activity:</b> Low
Notes	1. The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring anytime 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 <a href="https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf">https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf</a> for more information.				
Next Forecast Will Be Issued		28 Feb 2022			