



Launch Mission Execution Forecast



Mission: Atlas V CST-100 OFT-2

Issued: 29 Jul 2021 / 0800L (1200Z)

Valid: 30 Jul 2021 / 1443 – 1503L (1843 – 1903Z)

Forecast Discussion: *The Probability of Violation (POV) has been lowered slightly with this forecast update.* Light southwest steering flow, combined with deep moisture over the area, will continue to encourage afternoon showers and thunderstorms over the eastern half of the peninsula today. While ample moisture will linger into Friday, increasingly stable conditions aloft should result in a delayed start and slightly lower coverage of afternoon convection. Still, given the time of day of the launch, a weather-related violation is possible during the countdown due to isolated showers and thunderstorms, particularly late in the count and west of Space Launch Complex 41. The primary concerns remain the Cumulus Cloud, Surface Electric Fields, and Lightning Rules.

Probability of Violating Weather Constraints

Launch Day

50%

Primary Concerns: Cumulus Cloud Rule, Surface Electric Fields Rule, Lightning Rule

Weather Conditions

Additional Risk Criteria

		Clouds			
		Type	Coverage	Base (ft)	Tops (ft)
Weather/Visibility:	Isolated Storms / 7 mi.				
Temp/Humidity:	87°F / 74%	Cumulonimbus	Scattered	3,000	30,000
Ground Winds (230'):	170° 8 - 14 knots	Cirrus	Scattered	28,000	34,000

Solar Activity: Low

Note: *The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear and solar activity.*

Next Forecast Will Be Issued As Necessary