



Launch Mission Execution Forecast



Mission: Space Launch System - Artemis I

Issued: 12 Nov 2022 / 1000L (1500Z)

Valid: 16 Nov 2022 / 0104 – 0304L (0604 – 0804Z)

Forecast Discussion: A foggy Saturday morning will turn into a beautiful, sunny day across much of the Florida Peninsula. A lingering tropical trailing trough, left behind the long-departed T.D. Nicole may still spark isolated showers and a thunderstorm or two across Central and South Florida this afternoon, with activity diminishing after sunset. On Sunday, a cold front will push through Central Florida mid-day and stall across South Florida by the following morning. The front will bring a wind surge and a broken band of isolated showers Sunday, with a drop in humidity behind the boundary. Winds will quickly veer onshore Monday, bringing a chance of coastal showers through the day and night. On Tuesday, a (non-tropical) gulf low near Louisiana will slide gradually into the Deep South. The Florida Peninsula will be in the warm sector of the system into Tuesday night, causing temperatures and humidity values to rise. However, the system will likely be too far away to otherwise impact local weather conditions across the Spaceport early Wednesday morning. As a result, the only concern during the primary launch window will be the Cumulus Cloud Rule.

Probability of Violating Weather Constraints¹

20%

Primary Concerns: Cumulus Cloud Rule

Weather Conditions

Additional Risk Criteria²

Weather/Visibility:	None / 7 mi.	Clouds			
		Type	Coverage	Base (ft)	Tops (ft)
Temp/Humidity:	70°F / 90%	Cumulus	Scattered	2,000	4,500
Liftoff Winds (132'):	190° 8-12 kts				

Upper-Level Winds: Low
Solar Activity: 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 <https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf> for more information

Next Forecast Will Be Issued

13 Nov 2022