



Launch Mission Execution Forecast



Mission: Space Launch System - Artemis I

Issued: 13 Nov 2022 / 1015L (1515Z)

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

Forecast Discussion: A weak cold front will slide through Central Florida this afternoon and stall across South Florida overnight. The front will bring a wind surge and a broken band of isolated showers, with a drop in humidity behind the boundary. On Monday, winds will quickly veer onshore, bringing a chance of coastal showers to the Spaceport through the day and night. On Tuesday, a (non-tropical) gulf low near Louisiana will progress gradually northeast 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, excellent weather is expected during the primary launch window, with the Cumulus Cloud Rule being only a minor concern.

Probability of Violating Weather Constraints¹

10%

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° 10-15 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

14 Nov 2022