



# Launch Mission Execution Forecast



**Mission:** Terran 1 TM-1

**Issued:** 7 Mar 2023 / 0900L (1400Z)

**Valid:** 8 Mar 2023/ 1300 – 1600L (1800-2100Z)

**Forecast Discussion:** A weak backdoor cold front will move across the Space Coast later this evening and overnight. This feature is not expected to have a significant impact on the weather across the area other than to turn the surface winds to a northeasterly direction and become gusty, especially from late morning and throughout the entire launch window. Highest gusts look to be in the 20 to 22 mph range during the count. The strength of the winds will impact sea breeze development in the afternoon, but should one develop, it should maintain onshore flow and should help to take low level clouds inland away from the launch pad. The primary concern would be from the Cumulus Cloud Rule.

In the event of a 24-hour delay, the overall weather pattern does not change very much. High pressure will build in across the region in the wake of the front and wind speeds will diminish. Expect more of an easterly wind. Once again, the sea-breeze will help to push low clouds inland but the primary concern for liftoff would be from the Cumulus Cloud Rule.

Probability of Violating Weather Constraints <sup>1</sup>																																
<b>Launch Day</b>	<b>10%</b> Primary Concerns: Cumulus Cloud Rule																															
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<b>Notes</b>	<ol style="list-style-type: none"> <li>The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window.</li> <li>Additional Risk Criteria, which are not included in the PoV, are mission-specific constraints that may not include all phenomena within each risk factor.</li> </ol>																															
	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																															
<b>Next Forecast Will Be Issued</b>	As requested																															