



Launch Mission Execution Forecast

Mission: Terran 1 TM-1

Issued: 21 Mar 2023 / 0900L (1300Z)

Valid: 22 Mar 2023/ 2200 – 23/0100L (23/0200-0500Z)



Forecast Discussion: Favorable weather looks to be in place for the launch attempt Wednesday night. A weak disturbance will bring a slight chance for showers today, but this feature should be out of the area later tonight and is not expected to be a concern for tomorrow night. Expect partly cloudy skies in the area so there is a slight concern for the Cumulus Cloud Rule, but the overall coverage should diminish through the late afternoon and early evening hours tomorrow.

In the event of a 24-hour delay, very favorable weather will continue for launch. Expect onshore flow to continue and speeds are expected to be around 10 mph. Sky cover will be minimal so there is only a slight chance for a Cumulus Cloud Rule violation.

Launch Day	Probability of Violating Weather Constraints ¹					
	5%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria ²	
	Weather/Visibility: None / 7 mi.	Clouds		Upper-level winds		Low
	Type	Coverage	Base (ft)	Tops (ft)		
Temp/Humidity: 67°F / 81%	Stratocumulus	Scattered	3,000	5,500		
Winds (162 ft): 090° 10-15 mph						

24-Hour Delay	Probability of Violating Weather Constraints					
	5%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds		Upper-level winds		Low
	Type	Coverage	Base (ft)	Tops (ft)		
Temp/Humidity: 68°F / 81%	Cumulus	Few	3,000	6,000		
Winds (162 ft): 130° 10-15 mph						

Notes

- The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window.
- 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	22 Mar 2023
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