



Launch Mission Execution Forecast



Mission: Atlas V CFT

Issued: 5 May 24 /0900L (1300Z)

Valid: 6 May 24 / 2229-2239L (07/0229-0239Z)

Forecast Discussion: A ridge is expected to settle in over North Central Florida by Monday and remain in place for several days. This ridge should bring southeasterly winds and cause any precipitation and thunderstorm development from the afternoon sea breeze to form well inland of the Spaceport. Any convection that does develop should remain west of Interstate 95 and have decayed away by the launch window. Although unlikely, there is a slight chance of a stray cumulus cloud posing a flight through concern, but the risk appears to be quite low.

By the backup day, the setup should be a bit drier but similar otherwise. Currently, there are no specific weather constraint concerns for the backup day.

For the second backup day, a detailed forecast is not included below but guidance suggests the potential for a bit more unsettled weather as the ridge axis slips further south and the tail end of a frontal boundary is likely to be working its way into north Florida around that time. Between the location of the front and the southwesterly low-level winds, there would likely be a higher chance for a weather constraint violation if the second backup day were necessary.

Probability of Violating Weather Constraints¹

5%

Primary Concerns: Cumulus Cloud Rule

Weather Conditions

Additional Risk Criteria²

Weather/Visibility:		Clouds				Solar Activity:
Temp/Humidity:		Type	Coverage	Base (ft)	Tops (ft)	
None / 7 mi		Cumulus	Few	3,000	6,000	
72°F / 82%		Cirrus	Few	25,000	29,000	
Liftoff Winds (200'): 130° 14 - 18 kts						

Probability of Violating Weather Constraints

5%

Primary Concerns: None

Weather Conditions

Additional Risk Criteria

Weather/Visibility:		Clouds				Solar Activity:
Temp/Humidity:		Type	Coverage	Base (ft)	Tops (ft)	
None / 7 mi.		Cumulus	Few	3,000	6,000	
73°F / 84%						
Liftoff Winds (200'): 150° 14 - 20 kts						

24-Hour Delay

Notes

1. The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time 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

AS REQUIRED