



Launch Mission Execution Forecast



Mission: Atlas V CFT

Issued: 1 Jun 24 /1330L (1730Z)

Valid: 2 Jun 24 /1153-1213L (1553-1613Z)

Forecast Discussion: A large area of high pressure, currently centered near the North Carolina coast, will move eastward and be well offshore by the launch window. For Sunday, expect windspeeds to decrease a few knots and low-level cloudiness to increase slightly as compared to Saturday. Dry mid-levels and a moderately strong inversion should prevent significant vertical cloud development, but a few cumulus clouds may pose a flight through concern.

By the backup day, ridging over the spaceport should keep winds light and cloud cover low. The sea breeze may trigger an isolated shower or thunderstorm around the launch window, but a relatively dry atmosphere should limit the threat. Most convective development appears likely to occur after the window and inland of the spaceport. For the backup day, the weather risk remains low with the Cumulus Cloud Rule being the primary concern.

		Probability of Violating Weather Constraints ¹				
Launch Day	15%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions			Additional Risk Criteria ²		
	Weather/Visibility: None / 7 mi	Clouds		Base (ft)	Tops (ft)	Solar Activity: Low-Mod
	Temp/Humidity: 81°F / 55%	Type	Coverage	3,000	6,000	
Liftoff Winds (200'): 100° 14 - 22 kts	Cumulus	Scattered	24,000	28,000		
72-Hour Delay	Probability of Violating Weather Constraints ¹					
	10%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions			Additional Risk Criteria		
	Weather/Visibility: None / 7 mi.	Clouds		Base (ft)	Tops (ft)	Solar Activity: Low-Mod
Temp/Humidity: 83°F / 55%	Type	Coverage	3,000	6,000		
Liftoff Winds (200'): 080° 10 - 15 kts	Cumulus	Scattered				
Notes	<ol style="list-style-type: none"> 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		AS REQUIRED				