



Launch Mission Execution Forecast

Mission: Delta IV Heavy L-68

Issued: 18 Jun 2023 / 0800L (1200Z)

Valid: 21 Jun 2023 / DURING WINDOW



Forecast Discussion: An unsettled weather pattern is likely to remain in place through at least the middle of the week, characterized by above normal opportunities for showers and thunderstorms each day, with somewhat lesser storm coverage today and perhaps Monday compared to recent days. While the highest threat for storms will target the afternoon and evening hours, there is an elevated risk that some storms and associated clouds may persist into the overnight hours as a series of upper-level disturbances interact with a developing surface boundary across northern Florida. A subtle shift in this boundary and the flow aloft appears to unfold during the latter portions of the week, leading to somewhat more favorable overnight launch weather.

Given these considerations, a high threat for showers and storms exists during evening MST rollback operations, with the potential for remnant anvil and cumulus clouds persisting later into the night.

Launch Day		Probability of Violating Weather Constraints				
25%		Primary Concerns: Anvil Cloud Rules, Surface Electric Fields Rule, Cumulus Cloud Rule				
Weather Conditions				Additional Risk Criteria		
Weather/Visibility:	None / 7 mi.	Clouds				Solar Activity: Low
		Type	Coverage	Base (ft)	Tops (ft)	
Temp/Humidity:	75°F / 90%	Cumulus	Scattered	2,500	9,000	
Ground Winds (306'):	210° @ 12 - 17 knots	Altostratus	Broken	14,000	20,000	
24-Hour Delay		Probability of Violating Weather Constraints				
20%		Primary Concerns: Anvil Cloud Rules, Cumulus Cloud Rule				
Weather Conditions				Additional Risk Criteria		
Weather/Visibility:	None / 7 mi.	Clouds				Solar Activity: Low
		Type	Coverage	Base (ft)	Tops (ft)	
Temp/Humidity:	74°F / 92%	Cumulus	Few	2,500	9,000	
Ground Winds (306'):	210° @ 12 - 17 knots	Altostratus	Scattered	16,000	20,000	
48-Hour Delay		Probability of Violating Weather Constraints				
20%		Primary Concerns: Anvil Cloud Rules, Cumulus Cloud Rule				
Weather Conditions				Additional Risk Criteria		
Weather/Visibility:	None / 7 mi.	Clouds				Solar Activity: Low
		Type	Coverage	Base (ft)	Tops (ft)	
Temp/Humidity:	74°F / 94%	Cumulus	Few	2,500	9,000	
Ground Winds (306'):	190° @ 15 - 20 knots	Altostratus	Scattered	16,000	20,000	
Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear and solar activity.						
Next Forecast Will Be Issued		19 Jun 2023				