



# Launch Mission Execution Forecast

**Mission:** Delta IV Heavy L-68  
**Issued:** 20 Jun 2023 / 0700L (1300Z)  
**Valid:** 21 Jun 2023 / DURING WINDOW



**Forecast Discussion:** An unsettled weather pattern will remain in place this week, characterized by above normal opportunities for showers and thunderstorms each day. While the highest threat for storms will target the afternoon and evening hours, there is a risk that earlier storms and associated clouds may persist into the overnight hours as a series of upper-level disturbances interact with a surface boundary across north Florida. A subtle shift in this boundary and the flow aloft appear to unfold during the latter portions of the week, leading to somewhat more favorable overnight launch weather. Additionally, overnight sustained winds are likely to remain elevated, although easing somewhat by late week.

Given these considerations, a high threat exists for nearby showers and storms 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				
<b>25%</b>		<b>Primary Concerns:</b> Anvil Cloud Rules, Cumulus Cloud Rule, Ground Winds				
Weather Conditions				Additional Risk Criteria		
<b>Weather/Visibility:</b>	None / 7 mi.	<b>Clouds</b>				
		Type	Coverage	Base (ft)	Tops (ft)	
<b>Temp/Humidity:</b>	75°F / 94%	Cumulus	Scattered	2,500	12,000	
<b>Ground Winds (306'):</b>	210° @ 17 - 22 knots	Altostratus	Broken	14,000	20,000	
		<b>Solar Activity:</b> Low				
24-Hour Delay		Probability of Violating Weather Constraints				
<b>20%</b>		<b>Primary Concerns:</b> Anvil Cloud Rules, Ground Winds				
Weather Conditions				Additional Risk Criteria		
<b>Weather/Visibility:</b>	None / 7 mi.	<b>Clouds</b>				
		Type	Coverage	Base (ft)	Tops (ft)	
<b>Temp/Humidity:</b>	74°F / 96%	Cumulus	Few	2,500	9,000	
<b>Ground Winds (306'):</b>	210° @ 17 - 22 knots	Altostratus	Scattered	16,000	20,000	
		<b>Solar Activity:</b> Low				
48-Hour Delay		Probability of Violating Weather Constraints				
<b>20%</b>		<b>Primary Concerns:</b> Anvil Cloud Rules				
Weather Conditions				Additional Risk Criteria		
<b>Weather/Visibility:</b>	None / 7 mi.	<b>Clouds</b>				
		Type	Coverage	Base (ft)	Tops (ft)	
<b>Temp/Humidity:</b>	74°F / 96%	Cumulus	Few	2,500	9,000	
<b>Ground Winds (306'):</b>	190° @ 12 - 17 knots	Altostratus	Scattered	16,000	20,000	
		<b>Solar Activity:</b> Low				

*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** As Required