



# Launch Mission Execution Forecast



**Mission:** Falcon Heavy USSF-67

**Issued:** 14 Jan 2023 / 1400L (1900Z)

**Valid:** 15 Jan 2023 / 1756 – 1833L (2256 – 2333Z)

**Forecast Discussion:** Launch weather conditions will be fantastic over the next several days as a strong continental high pressure system moves over Florida. Winds will die off tonight into tomorrow morning as the center of high pressure moves overhead. After another cold start to the day tomorrow, temperatures will bounce back to near 60° F under mostly clear skies, with lighter northwest winds compared to today. High pressure and dry air will remain in control through early next week. This will lead to very favorable launch weather for the primary and backup launch days, with a negligible chance of a Cumulus Cloud Rule violation.

Launch Day		Probability of Violating Weather Constraints <sup>1</sup>																																																			
<b>Launch Day</b>	<b>&lt;10%</b>	<b>Primary Concerns:</b> Cumulus Cloud Rule																																																			
	Weather Conditions				Additional Risk Criteria <sup>2</sup>																																																
	<b>Weather/Visibility:</b> None / 7 miles	<b>Clouds</b>			<b>Upper-Level Wind Shear:</b> Low																																																
	<b>Temp/Humidity:</b> 54°F / 55%	Type	Coverage	Base (ft)	Tops (ft)	<b>Fairing Recovery Conds:</b> High																																															
<b>Liftoff Winds (200'):</b> 340° 10 - 15 mph	Cumulus	Few	3,000	5,000	<b>Solar Activity:</b> Low-Mod																																																
<table border="1"> <thead> <tr> <th colspan="2">24-Hour Delay</th> <th colspan="6">Probability of Violating Weather Constraints</th> </tr> </thead> <tbody> <tr> <td rowspan="4" style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>24-Hour Delay</b></td> <td style="text-align: center;"><b>&lt;10%</b></td> <td colspan="6"><b>Primary Concerns:</b> Cumulus Cloud Rule</td> </tr> <tr> <th colspan="4">Weather Conditions</th> <th colspan="2">Additional Risk Criteria</th> </tr> <tr> <td><b>Weather/Visibility:</b> None / 7 miles</td> <td colspan="3"><b>Clouds</b></td> <td colspan="2"><b>Upper-Level Wind Shear:</b> Low</td> </tr> <tr> <td><b>Temp/Humidity:</b> 61°F / 62%</td> <td>Type</td> <td>Coverage</td> <td>Base (ft)</td> <td>Tops (ft)</td> <td><b>Fairing Recovery Conds:</b> High</td> </tr> <tr> <td><b>Liftoff Winds (200'):</b> 120° 5 - 10 mph</td> <td>Cumulus</td> <td>Few</td> <td>3,000</td> <td>5,000</td> <td><b>Solar Activity:</b> Low-Mod</td> </tr> <tr> <td></td> <td></td> <td>Cirrus</td> <td>Few</td> <td>30,000</td> <td>33,000</td> <td></td> </tr> </tbody> </table>							24-Hour Delay		Probability of Violating Weather Constraints						<b>24-Hour Delay</b>	<b>&lt;10%</b>	<b>Primary Concerns:</b> Cumulus Cloud Rule						Weather Conditions				Additional Risk Criteria		<b>Weather/Visibility:</b> None / 7 miles	<b>Clouds</b>			<b>Upper-Level Wind Shear:</b> Low		<b>Temp/Humidity:</b> 61°F / 62%	Type	Coverage	Base (ft)	Tops (ft)	<b>Fairing Recovery Conds:</b> High	<b>Liftoff Winds (200'):</b> 120° 5 - 10 mph	Cumulus	Few	3,000	5,000	<b>Solar Activity:</b> Low-Mod			Cirrus	Few	30,000	33,000	
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<b>Notes</b>	<ol style="list-style-type: none"> <li>The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring anytime during the launch window.</li> <li>Additional Risk Criteria, which are not included in the PoV, are mission-specific constraints that may not include all phenomena within each risk factor.</li> </ol>																																																				
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<b>Next Forecast Will Be Issued</b>		As Required																																																			