



# Launch Mission Execution Forecast

**Mission:** Falcon Heavy USSF-67

**Issued:** 11 Jan 2023 / 0800L (1300Z)

**Valid:** 14 Jan 2023 / 1700 – 2100L (2200 – 15/0200Z)



**Forecast Discussion:** High pressure remains in control of the weather across Central Florida for another day, keeping pleasant conditions with light winds and mostly clear skies. On Thursday, the high pressure area will slide off into the Atlantic as a frontal boundary moves into the Central Gulf Coast States. Conditions along the Space Coast remain mostly clear as winds switch southeasterly. The front will make its way across Central Florida on Friday, bringing rain showers and isolated thunderstorms, but quickly push through the Spaceport. Winds will become northwesterly by early evening, bringing colder, drier air into the region. On Saturday, expect mostly clear skies with gusty winds and temperatures in the mid-40s at the Spaceport. The only weather concern for a Saturday evening launch is Liftoff Winds.

On Sunday, skies will remain mostly clear, and winds will drop off allowing temperatures to drop into the low-40s. The primary weather concern for a Sunday evening launch attempt is the Cumulus Cloud Rule

Launch Day	Probability of Violating Weather Constraints <sup>1</sup>					
	<b>20%</b>	Primary Concerns: Liftoff Winds				
	Weather Conditions				Additional Risk Criteria <sup>2</sup>	
	<b>Weather/Visibility:</b> None / 7 miles	<b>Clouds</b>			<b>Upper-Level Wind Shear:</b> Moderate	
<b>Temp/Humidity:</b> 50°F / 64%	Type	Coverage	Base (ft)	Tops (ft)	<b>Fairing Recovery Conds:</b> High	
<b>Liftoff Winds (200'):</b> 300° 17 - 22 mph	Cirrostratus	Few	25,000	27,000	<b>Solar Activity:</b> Low-Mod	
24-Hour Delay	Probability of Violating Weather Constraints					
	<b>&lt;10%</b>	Primary Concerns: 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> 55°F / 72%	Type	Coverage	Base (ft)	Tops (ft)	<b>Fairing Recovery Conds:</b> High	
<b>Liftoff Winds (200'):</b> 360° 7 - 12 mph	Cumulus	Few	3,000	7,000	<b>Solar Activity:</b> Low-Mod	
Notes	1. The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring anytime 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 <a href="https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf">https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf</a> for more information					
<b>Next Forecast Will Be Issued</b>		12 Jan 2023				