



# Launch Mission Execution Forecast

**Mission:** Falcon 9 Starlink 5-5

**Issued:** 23 Mar 2023 / 0900L (1300Z)

**Valid:** 24 Mar 2023 / 1123 – 1506L (1523 – 1906Z)



**Forecast Discussion:** High pressure stretching into Central Florida dominates through Fri, bringing favorable weather with near zero concerns for the primary launch day. On Sat, a shallow cold front weakens as it moves into north Florida. Increased moisture ahead of the front, along with an afternoon sea breeze and southwest steering flow, brings taller cumulus clouds developing by the end of the window, with a few showers possible after the window. This brings a slightly higher POV for the backup day.

Launch Day		Probability of Violating Weather Constraints <sup>1</sup>					
<b>Launch Day</b>	<b>&lt;5%</b>	Primary Concerns: Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria <sup>2</sup>		
	<b>Weather/Visibility:</b> None / 7 mi.	<b>Clouds</b>			<b>Upper-Level Wind Shear:</b> Low		
	<b>Temp/Humidity:</b> 77°F / 70%	Type	Coverage	Base (ft)	Tops (ft)	<b>Booster Recovery Weather:</b> Low	
<b>Liftoff Winds (200'):</b> 160° 12 - 17 mph	Cumulus	Few	2,500	6,000	<b>Solar Activity:</b> Low		
24-Hour Delay		Probability of Violating Weather Constraints					
<b>24-Hour Delay</b>	<b>15%</b>	Primary Concerns: Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria		
	<b>Weather/Visibility:</b> None / 7 mi.	<b>Clouds</b>			<b>Upper-Level Wind Shear:</b> Low-Mod		
	<b>Temp/Humidity:</b> 79°F / 70%	Type	Coverage	Base (ft)	Tops (ft)	<b>Booster Recovery Weather:</b> Low	
<b>Liftoff Winds (200'):</b> 200° 18 - 23 mph	Cumulus	Few	3,000	10,000	<b>Solar Activity:</b> Low		
Notes	<ol style="list-style-type: none"> <li>The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time 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>						
	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						
Next Forecast Will Be Issued		As required					