



# Launch Mission Execution Forecast



**Mission:** Falcon 9 Starlink 6-22

**Issued:** 10 Oct 2023 / 1400L (1800Z)

**Valid:** 11 Oct 2023 / 1920 – 2321L (11/2320 – 12/0321Z)

**Forecast Discussion:** An area of low pressure is developing in the Gulf of Mexico along a boundary currently stalled across southern Florida. As this system strengthens and moves towards Florida Wednesday, it will lift the boundary northwards as a warm front. This will create overspreading rain and thunderstorms across Central Florida and the Spaceport. The primary launch weather concerns are the Thick Cloud Layers Rule and the Disturbed Weather Rule.

Thursday will be very squally with storms and periods of heavy rain accompanying strong southwest winds. The weather will begin to diminish as the evening progresses, but showers will remain at least isolated through the window. The primary launch weather concerns Thursday evening are Liftoff Winds and the Cumulus Cloud Rule.

Launch Day		Probability of Violating Weather Constraints <sup>1</sup>					
Launch Day	<b>75%</b>	Primary Concerns: Thick Cloud Layers Rule, Disturbed Weather Rule					
	Weather Conditions				Additional Risk Criteria <sup>2</sup>		
	<b>Weather/Visibility:</b>	Showers / 7 mi.	Clouds			<b>Upper-Level Wind Shear:</b>	Low-Mod
			Type	Coverage	Base (ft)	Tops (ft)	
<b>Temp/Humidity:</b>	78°F / 82%	Stratocumulus	Broken	3,500	8,000	<b>Booster Recovery Weather:</b>	Low
<b>Liftoff Winds (200'):</b>	120° 12 - 17 mph	Altostratus	Overcast	10,000	20,000	<b>Solar Activity:</b>	Low
24-Hour Delay		Probability of Violating Weather Constraints					
24-Hour Delay	<b>60%</b>	Primary Concerns: Liftoff Winds, Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria		
	<b>Weather/Visibility:</b>	Showers / 7 mi.	Clouds			<b>Upper-Level Wind Shear:</b>	Low
			Type	Coverage	Base (ft)	Tops (ft)	
<b>Temp/Humidity:</b>	76°F / 65%	Cumulus	Scattered	3,500	10,000	<b>Booster Recovery Weather:</b>	Low
<b>Liftoff Winds (200'):</b>	230° 20 - 25 mph	Altostratus	Scattered	10,000	12,000	<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 Needed					