



# Launch Mission Execution Forecast



**Mission:** Falcon 9 Starlink 4-26

**Issued:** 08 Aug 2022 / 0830L (1230Z)

**Valid:** 09 Aug 2022 / 1849 – 2229L (09/2249 – 10/0229Z)

**Forecast Discussion:** Today, the east coast sea breeze and its associated storms will once again move quickly into the interior due to predominately easterly flow. By later tonight, the western Atlantic ridge that has remained to the north of the Spaceport will begin to drift south, causing winds at the Spaceport to become from the southeast and reducing available moisture. This will favor early-morning showers along the coast and afternoon storms over the interior. Primary launch day conditions continue to look favorable for launch. However, light and veering upper-level flow has the chance to bring anvil clouds to the area, and occasional onshore-moving Atlantic showers cannot be ruled out in this pattern. The primary concerns during Tuesday’s launch window are the Cumulus Cloud Rule and Anvil Cloud Rules. Conditions look to remain largely similar for a backup attempt on Wednesday, while available moisture will continue to decrease and chances for those occasional evening Atlantic showers will drop correspondingly. The primary concern during the backup window remains the Cumulus Cloud Rule.

Launch Day		Probability of Violating Weather Constraints <sup>1</sup>																		
		<b>30%</b>	Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules																	
		Weather Conditions				Additional Risk Criteria <sup>2</sup>														
		Weather/Visibility: Isold Showers / 7 mi.	<table border="1"> <thead> <tr> <th colspan="4">Clouds</th> </tr> <tr> <th>Type</th> <th>Coverage</th> <th>Base (ft)</th> <th>Tops (ft)</th> </tr> </thead> <tbody> <tr> <td>Cumulus</td> <td>Few</td> <td>3,500</td> <td>12,000</td> </tr> </tbody> </table>				Clouds				Type	Coverage	Base (ft)	Tops (ft)	Cumulus	Few	3,500	12,000	Upper-Level Wind Shear: Low	
Clouds																				
Type	Coverage	Base (ft)	Tops (ft)																	
Cumulus	Few	3,500	12,000																	
		Temp/Humidity: 84°F / 80%					Booster Recovery Weather: Low													
		Liftoff Winds (200'): 130° 10 - 15 mph					Solar Activity: Low													
24-Hour Delay		Probability of Violating Weather Constraints																		
		<b>10%</b>	Primary Concerns: Cumulus Cloud Rule																	
		Weather Conditions				Additional Risk Criteria														
		Weather/Visibility: None / 7 mi.	<table border="1"> <thead> <tr> <th colspan="4">Clouds</th> </tr> <tr> <th>Type</th> <th>Coverage</th> <th>Base (ft)</th> <th>Tops (ft)</th> </tr> </thead> <tbody> <tr> <td>Cumulus</td> <td>Few</td> <td>3,500</td> <td>8,000</td> </tr> </tbody> </table>				Clouds				Type	Coverage	Base (ft)	Tops (ft)	Cumulus	Few	3,500	8,000	Upper-Level Wind Shear: Low	
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Cumulus	Few	3,500	8,000																	
		Temp/Humidity: 84°F / 73%					Booster Recovery Weather: Low													
		Liftoff Winds (200'): 150° 10 - 15 mph					Solar Activity: Low													
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																			
Next Forecast Will Be Issued		AS REQUIRED																		