



# Launch Mission Execution Forecast



**Mission:** Falcon 9 Starlink 10-43  
**Issued:** 03-Jun-26 / 0800L (1200Z)  
**Valid:** 04-Jun-26 / 0400 – 0800L (0800 – 1200Z)  
 05-Jun-26 / 0318 – 0718L (0718 – 1118Z)

**Forecast Discussion:** Weather conditions will drastically improve this afternoon as dry air filters into the Spaceport behind a front. Fresh breezes out of the northeast will continue today but will slacken to moderate breezes after midnight. Mid to upper-level clouds will persist but will most likely be too high to pose an LLCC concern. Latest model guidance has become drier behind the front with the latest runs, leading to a drop in POV for the initial launch window Thursday morning.

For the backup launch window, high pressure building off the coast of the Carolinas will relax the local pressure gradient, slackening winds to gentle breezes. A slight uptick in moisture in the atmospheric column will promote a thickening and lowering of the upper cloud deck, possibly creating occasional Thick Clouds. Also, onshore flow will promote isolated coastal showers during the launch window, but the vast majority should be low topped and not an LCC concern.

Launch Day	Probability of Violating Weather Constraints <sup>1</sup>					
	<b>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> Type      Coverage      Base (ft)      Tops (ft)			<b>Booster Recovery Weather:</b>	Low-Mod
<b>Temp/Humidity:</b> 75°F / 70%	Cumulus	Scattered	2,500	6,000	<b>Solar Activity:</b> Low	
<b>Liftoff Winds (200'):</b> 060° 17 - 22 mph	Cirrostratus	Broken	30,000	40,000		
24-Hour Delay	Probability of Violating Weather Constraints <sup>1</sup>					
	<b>10%</b>	Primary Concerns: Thick Cloud Layers Rule				
	Weather Conditions				Additional Risk Criteria	
	<b>Weather/Visibility:</b> Isol Showers / 7+ mi	<b>Clouds</b> Type      Coverage      Base (ft)      Tops (ft)			<b>Booster Recovery Weather:</b>	Low
<b>Temp/Humidity:</b> 75°F / 70%	Cumulus	Scattered	2,500	7,000	<b>Solar Activity:</b> Low	
<b>Liftoff Winds (200'):</b> 090° 10 - 15 mph	Cirrostratus	Broken	25,000	40,000		
Notes	1. The Probability of Violation (PoV) is the chance of a range or customer constraint violation occurring at any random time 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 <b>Launch FAQ</b> <a href="https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html">https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html</a> for more information					
	<b>Next Forecast Will Be Issued</b>	As Required				