



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 10-22

Issued: 2 Sep 2025 / 0900L (1300Z)

Valid: 3 Sep 2025 / 0706-1106L (1106-1506Z)



Forecast Discussion: A weak low-pressure system off FL's east coast will slowly move off to the northeast today as surface high pressure builds in through the rest of the week. Onshore flow will keep moisture levels very high across the spaceport, increasing the chances of afternoon showers and thunderstorms. Isolated showers over the gulf stream are expected in the morning hours during both primary and back up launch days. This activity will pose an elevated possibility of a Cumulus Cloud Rule violation during the primary launch opportunity, with a lower risk of violation during the back-up launch opportunity.

Launch Day	Probability of Violating Weather Constraints ¹							
	30%	Primary Concerns: Cumulus Cloud Rule						
	Weather Conditions					Additional Risk Criteria ²		
	Weather/Visibility:	Isolated Showers / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humidity:	78°F / 88%	Cumulus	Scattered	2,500	14,000	Booster Recovery Weather:	Low
	Liftoff Winds (200'):	000° 8 - 12 mph				Solar Activity:	Low	
24-Hour Delay	Probability of Violating Weather Constraints							
	20%	Primary Concerns: Cumulus Cloud Rule						
	Weather Conditions					Additional Risk Criteria		
	Weather/Visibility:	Isolated Showers / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humidity:	79°F / 88%	Cumulus	Scattered	2,500	12,000	Booster Recovery Weather:	Low
	Liftoff Winds (200'):	045° 8 - 12 mph				Solar Activity:	Low	
Notes	<div>1. The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window.</div> <div>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.</div> <div>See Launch FAQ https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html for more information</div>							
Next Forecast Will Be Issued		As Required						