

Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 10-45

Issued: 13-Jul-26 / 1030L (1430Z)

Valid: 14-Jul-26 / 0315 – 0715L (0715 – 1115Z)
15-Jul-26 / 0253 – 0653L (0653 – 1053Z)



Forecast Discussion: Weather conditions are expected to be very mostly favorable for both the primary and back-up launch windows. The Atlantic ridge axis is currently situated south of the Spaceport, maintaining the low-level southwesterly flow over East Central Florida. Given this pattern, showers and thunderstorms that develop over the eastern half of the peninsula in the late afternoon and evening will move offshore and quickly dissipate during the overnight hours. However, some lingering thick clouds left over by the evening convection may be present at the beginning of the launch window but should gradually dissipate through the window. As a result, we have raised the POV slightly at the beginning of tonight's launch window, but overall good weather is expected.

For the backup launch window Wednesday morning, more Saharian Air will be present across the Florida Peninsula, keeping the previous evening's convection limited. This will cause less lingering thick cloud overnight, leaving to an even lower POV than the day prior.

Launch Day	Probability of Violating Weather Constraints ¹							
	10→5%	Primary Concerns: Thick Cloud Layers Rule						
	Weather Conditions					Additional Risk Criteria ²		
	Weather/Visibility:	None / 7+ mi	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
	Temp/Humidity:	80°F / 85%	Altostratus	Scattered	13,000	24,000	Solar Activity:	Low
	Liftoff Winds (200’):	240° 5 - 10 mph	Cirrus	Few	30,000	35,000		
24-Hour Delay	Probability of Violating Weather Constraints ¹							
	5%	Primary Concerns: Cumulus Cloud Rule						
	Weather Conditions					Additional Risk Criteria		
	Weather/Visibility:	None / 7+ mi	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
	Temp/Humidity:	80°F / 85%	Cumulus	Few	6,000	12,000	Solar Activity:	Low
	Liftoff Winds (200’):	290° 5 - 10 mph						
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 Launch FAQ https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html for more information							
Next Forecast Will Be Issued			As Required					