



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 10-17

Issued: 17 Oct 2025 / 1030L (1430Z)

Valid: 19 Oct 2025 / 1052 – 1452L (1452 – 1852Z)



Forecast Discussion: The mostly dry conditions across the Spaceport are expected to persist through the end of next week. An unimpressive frontal boundary is expected to march its way to the Florida panhandle by Saturday. Winds will shift out of the south ahead of this front, but they will remain relatively light. The dry conditions and weak winds leave little concern for violations on the primary launch day. The weak boundary is expected to slide past the Spaceport on Monday morning, shifting our winds northerly but again remaining relatively light. While all guidance points to a very quiet frontal passage, a shower or two cannot be completely ruled out. Therefore, there is only a slight concern for Cumulus Cloud Rule violation on the backup day.

Launch Day	Probability of Violating Weather Constraints ¹							
	<5%	Primary Concerns: None						
	Weather Conditions					Additional Risk Criteria ²		
	Weather/Visibility:	None / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humidity:	81°F / 58%	Cumulus	Few	3,000	6,000	Booster Recovery Weather:	Low
	Liftoff Winds (200’):	180° 5 - 10 mph					Solar Activity:	Low
24-Hour Delay	Probability of Violating Weather Constraints							
	5%	Primary Concerns: Cumulus Cloud Rule						
	Weather Conditions						Additional Risk Criteria	
	Weather/Visibility:	None / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humidity:	77°F / 75%	Cumulus	Few	3,000	8,000	Booster Recovery Weather:	Low
	Liftoff Winds (200’):	010° 5 - 10 mph					Solar Activity:	Low
Notes	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. 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			18 Oct 2025					