

Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 10-29

Issued: 28 Jul 2025 / 1000L (1400Z)

Valid: 29 Jul / 2330L – 30 Jul / 2025 0330L (30 / 0330 – 0730Z)



Forecast Discussion: The high pressure that has brought the unusual heat has moved well to the west into Louisiana and Texas, however high pressure well out near Bermuda will begin to build across the FL peninsula throughout the middle to end of this week. While we transition from one high pressure to another, moisture should begin to return to seasonably normal levels, bringing more typical rain and thunder chances to region. Storms in the interior will decay going into the overnight hours on Tuesday going into Wednesday and winds out of the S and SE should keep any threat during the window to lingering cumulus.

As the Bermuda High continues to build across the FL peninsula, low level winds shift slightly more S and SW increasing the probability that interior thunderstorms will push across the Spaceport into the overnight hours. Relatively weak surface and low-level winds combined with loss of daytime heating gives good confidence that storms will have decayed by the opening of the window.

	Probability of Violating Weather Constraints ¹								
Day	10% Primary Concerns: Cumulus Cloud Rule								
ıch	Weather Conditions							Additional Risk Criteria ²	
aunch	Weather/Visi	bility:	None / 7 mi.	Туре	Cloud Coverage	S Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humid	ity:	78°F / 90%	Cumulus	Few	2,000	4,500	Booster Recovery Weather:	Low
	Liftoff Winds	(200'):	160° 10 - 15 mph	Cirrus	Few	28,000	31,000	Solar Activity:	Low
	Probability of Violating Weather Constraints								
Delay	20% Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules								
	Weather Conditions							Additional Risk Criteria	
24-Hour	Weather/Visibility: None / 7 mi.		Туре	Cloud Coverage	S Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
24	Temp/Humid	ity:	76°F / 90%	Cumulus	Few	2,500	11,000	Booster Recovery Weather:	Low
	Liftoff Winds	(200'):	180° 10 – 15 mph	Cirrostratus	Few	22,000	28,000	Solar Activity:	Low
Notes	 The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch windo Additional Risk Criteria, which are not included in the PoV, are mission-specific constraints that may not include all phenomena within each risk factors See Launch FAQ https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html for more information 								
Novi	t Forecast V	Vill Be	Issued 29 July 2	025					