

## **Launch Mission Execution Forecast**

Mission: Falcon 9 KF-3

**Issued**: 10 Oct 2025 / 1045L (1445Z)

**Valid**: 11 Oct 25 / 2041L – 2315L (12/0041 – 0315Z)



**Forecast Discussion**: The heavy rain will continue today across East Central Florida due to deep moisture in place and a frontal boundary stalled across the area. Tonight into tomorrow, a surface low will form along this front and slowly begin to push to the northeast. As the low develops, it will drag the front farther south and allow for some drier air to move in behind it. However, a tightening pressure gradient will increase northerly winds along the coast. There will also be enough lingering moisture and low-level convergence for scattered coastal showers through tomorrow night. Thus, the primary concerns for Saturday evening's launch window are Liftoff Winds and the Cumulus Cloud Rule. Conditions will significantly improve on Sunday as winds relax and drier air filters into the area. The only concern is the very low risk of a Cumulus Cloud Rule violation.

	Probability of Violating Weather Constraints <sup>1</sup>								
Day	35% Primary Concerns: Liftoff Winds, Cumulus Cloud Rule								
ch	Weather Conditions							Additional Risk Criteria <sup>2</sup>	
aunch	Weather/Visi	bility:	Sct Showers / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
Ľ	Temp/Humid	ity:	75°F / 85%	Cumulus	Scattered	2,000	14,000	Booster Recovery Weather:	Mod-High
	Liftoff Winds	(200'):	350° 22 - 28 mph	Cirrus	Scattered	25,000	30,000	Solar Activity:	Low
,	Probability of Violating Weather Constraints								
5% Primary Concerns: Cumulus Cloud Rule									
	Weather Conditions								
5			Weather	r Conditior	าร			Additional Risk Cı	riteria
Hour	Weather/Visi	bility:	Weather None / 7 mi.	r Condition	Clouds Coverage	Base (ft)	Tops (ft)	Additional Risk Co	riteria
24-Hour	Weather/Visi	•			Clouds	-	Tops (ft) 8,000		_
24-Hour	Temp/Humid	ity:	None / 7 mi.	Туре	Clouds Coverage	Base (ft)	,	Upper-Level Wind Shear:	Low
Notes 24-Hour	Temp/Humid Liftoff Winds  1. The Proba 2. Additional	ity: (200'): bility of Name of	None / 7 mi.  73°F / 80%  340° 12 - 17 mph  Violation (PoV) is the chanceria, which are not include:	Type Cumulus ce of a local safed in the PoV, are	Clouds Coverage Few	Base (ft) 2,000  onstraint vice constraints	8,000	Upper-Level Wind Shear: Booster Recovery Weather:	Low Low-Mod Low  ch window.