

Launch Mission Execution Forecast

Mission: Falcon 9 PSN N5

Issued: 8 September 2025 / 2145L (9/0145Z)

Valid: 9 September 2025 / 1951 – 2209L (2351 – 10/0209Z)



Forecast Discussion: Deep atmospheric moisture will remain in place across Florida through early to mid-week. This, combined with a stalled front across northern FL and periods of instability aloft, will continue elevated chances of showers and storms for the primary and backup launch opportunities. Wind gusts of 30 to 40 mph are possible near stronger storms. Instability aloft will be weaker on Wednesday. Therefore, the POV will be slightly lower for the backup launch opportunity.

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	Probability of Violating Weather Constraints ¹								
Day	85→70%	85->70% Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules, Surface Electric Fields Rule							
ch Ch	Weather Conditions						Additional Risk Criteria ²		
aunch	Weather/Visibility:	T-storms / 7 mi.	Туре	Cloud Coverage	S Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
_	Temp/Humidity:	79°F / 88%	Cumulus	Broken	3,000	18,000	Booster Recovery Weather:	Low	
	Liftoff Winds (200'):	060° 9 - 15 mph	Altostratus	Broken	20,000	24,000	Solar Activity:	Low	
	Probability of Violating Weather Constraints								
		Prob	ability of V	iolating V	Veather	Constra	ints		
Delay	70→55 %		-				ints Surface Electric Fields Rule		
	70→55%	Primary Concerns	-	oud Rule, A				iteria	
	70→55% Weather/Visibility:	Primary Concerns	s: Cumulus Cl	oud Rule, A	Anvil Cloud		Surface Electric Fields Rule	iteria	
24-Hour Delay		Primary Concerns Weathe	: Cumulus Cl	oud Rule, A	Anvil Cloud	d Rules, S	Surface Electric Fields Rule Additional Risk Cri		
	Weather/Visibility:	Primary Concerns Weathe Sct T-storms / 7 mi. 78°F / 91%	r Condition	oud Rule, A	Anvil Cloud s Base (ft)	d Rules, S	Additional Risk Cr Upper-Level Wind Shear:	Low	
	Weather/Visibility: Temp/Humidity: Liftoff Winds (200'): 1. The Probability of 2. Additional Risk Critical Processing Control of the Critical Processing Control of the Critical Processing Control of the Critical Process	Primary Concerns Weathe Sct T-storms / 7 mi. 78°F / 91% 020° 8 - 13 mph Violation (PoV) is the chanteria, which are not include	Type Cumulus Altostratus ce of a local safeted in the PoV, are	oud Rule, A Cloud Coverage Broken Broken by or customer of mission-specifi	S Base (ft) 3,000 18,000 constraint vicinc constraints	Tops (ft) 15,000 24,000 elation occurres that may no	Additional Risk Cr Upper-Level Wind Shear: Booster Recovery Weather:	Low Low Low	