

Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 12-25

Issued: 17 Mar 2025 / 1000L (1400Z)

Valid: 18 Mar 2025 / 1409 – 1809L (1809 – 2209Z)



Forecast Discussion: Gusty northwesterly winds are expected today as high pressure will build in and be dominant for much of the week. For tomorrow, the primary weather concern will be liftoff winds from northerly flow as the ridge strengthens across the peninsula, with winds gradually decreasing throughout the afternoon. For the backup day, the high center will move over Florida bringing ideal conditions across the Space Coast, so there will be no weather concerns for the launch window.

	Probability of Violating Weather Constraints ¹								
Day	5% Primary Concerns: Liftoff Winds								
ch	Weather Conditions							Additional Risk Criteria ²	
aunch	Weather/Visi	bility: N	lone / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
Ľ	Temp/Humid	i ty : 6	9°F / 50%	Cirrus	Few	20,000	25,000	Booster Recovery Weather:	Moderate
	Liftoff Winds	(200') : 0	10° 18 - 26 mph					Solar Activity:	Low
	Probability of Violating Weather Constraints								
a	<5% Primary Concerns: None								
Jel	<5%	Primar	y Concerns: None	е					
ur Delay	<5%	Primar	-	e r Conditions	S			Additional Risk Cr	iteria
	<5% Weather/Visil		-		Clouds Coverage	Base (ft)	Tops (ft)	Additional Risk Cr Upper-Level Wind Shear:	iteria
24-Hour Del		oility: N	Weathe	r Conditions	Clouds	=	Tops (ft) 25,000		
	Weather/Visi	bility: N	Weathe	r Conditions	Clouds Coverage	Base (ft)	,	Upper-Level Wind Shear:	Low
24-Hour	Weather/Visil Temp/Humid Liftoff Winds 1. The Proba	bility: N ity: 7 (200'): 0	Weather None / 7 mi. 4°F / 65% 50° 10 - 15 mph Nation (PoV) is the chance	Type Cirrus Ce of a local safety	Clouds Coverage Scattered	Base (ft) 20,000 onstraint vio	25,000	Upper-Level Wind Shear: Booster Recovery Weather:	Low Low Low ch window.
	Weather/Visil Temp/Humid Liftoff Winds	bility: N ity: 7 (200'): 0 bility of Vio Risk Criteri	Weather None / 7 mi. 4°F / 65% 150° 10 - 15 mph Nation (PoV) is the chance in which are not include	Type Cirrus ce of a local safety of in the PoV, are re	Clouds Coverage Scattered	Base (ft) 20,000 onstraint vice constraints	25,000 plation occurring that may no	Upper-Level Wind Shear: Booster Recovery Weather: Solar Activity:	Low Low Low ch window.