Launch Mission Execution Forecast

Mission: Falcon 9 Starlink g12-9
Issued: 6 February 2025 / 0900L (1400Z)
Valid: 7 February 2025 / 1350 – 1750L (1850 – 2250Z)

Forecast Discussion: Surface high pressure situated across the northern Atlantic with the associated ridge axis sprawled across Florida will ensure a continuation of patchy late night and morning fog and low clouds. Otherwise, fair weather is anticipated for both the primary and backup launch opportunities.

Launch Day

Probability of Violating Weather Constraints[1]

<5% | **Primary Concerns**: Cumulus Cloud Rule

Weather Conditions		Clouds				Additional Risk Criteria[2]	
		Type	Coverage	Base (ft)	Tops (ft)		
Weather/Visibility:	None / 7 mi.					**Upper-Level Wind Shear**:	Low
Temp/Humidity:	77°F / 70%	Cumulus	Scattered	2,000	6,000	**Booster Recovery Weather**:	Low
Liftoff Winds (200'):	120° 7 - 12 mph					**Solar Activity**:	Low

24-Hour Delay

Probability of Violating Weather Constraints

<5% | **Primary Concerns**: Cumulus Cloud Rule

Weather Conditions		Clouds				Additional Risk Criteria	
		Type	Coverage	Base (ft)	Tops (ft)		
Weather/Visibility:	None / 7 mi.					**Upper-Level Wind Shear**:	Low
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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 https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf for more information

Next Forecast Will Be Issued	As Required