Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 10-53
Issued: 28-May-26 / 0700L (1100Z)
Valid: 29-May-26 / 0752 - 1152L (1152 - 1552Z)
30-May-26 / 0730 - 1130L (1130 - 1530Z)

Forecast Discussion: The subtropical ridge axis will move south of the Spaceport by Friday, leading to an influx of tropical moisture. Westerly-to-southwesterly low-level winds will bring prime conditions for afternoon showers and thunderstorms along the east coast of Florida for several days, some of which could develop in the morning hours. For both the primary and backup launch windows, isolated showers and thunderstorms could develop towards the end of the windows, with possibly lingering anvil clouds towards the beginning of the windows.

Launch Day

Probability of Violating Weather Constraints[1]

20%

Primary Concerns: Cumulus Cloud Rule , Anvil Cloud Rules

Weather Conditions							Additional Risk Criteria[2]	
		Clouds						
		Type	Coverage	Base (ft)	Tops (ft)			
Weather/Visibility:	None / 7+ mi	Cumulus	Scattered	2,000	12,000		**Booster Recovery Weather**:	Low
Temp/Humidity:	76°F / 93%	Altocumulus	Scattered	18,000	21,000		**Solar Activity**:	Low
Liftoff Winds (200'):	260° 7 - 12 mph							

24-Hour Delay

Probability of Violating Weather Constraints[1]

20⟶30%

Primary Concerns: Cumulus Cloud Rule , Anvil Cloud Rules

Weather Conditions							Additional Risk Criteria	
		Clouds						
		Type	Coverage	Base (ft)	Tops (ft)			
Weather/Visibility:	None / 7+ mi	Cumulus	Scattered	2,000	12,000		**Booster Recovery Weather**:	Low
Temp/Humidity:	78°F / 90%	Cirrus	Scattered	20,000	24,000		**Solar Activity**:	Low
Liftoff Winds (200'):	260° 8 - 13 mph							

Notes

1. *The Probability of Violation (PoV) is the chance of a range or customer constraint violation occurring at 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 Launch FAQ https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html ***for more information***

Next Forecast Will Be Issued	As Required