Launch Mission Execution Forecast

Mission: Falcon 9 SXM-11
Issued: 27-Jun-26 / 1130L (1530Z)
Valid: 28-Jun-26 / 2225 – 29/0221L (29/0225 – 0621Z)
29-Jun-26 / 2225 – 30/0221L (30/0225 – 0621Z)

Forecast Discussion: A surface ridge axis just south of the Spaceport will remain nearly stationary today into tomorrow before getting shunted farther south early next week in response to developing low pressure off the Carolina coast. Flow aloft will be weak and variable, supporting daily storm motions that will be seabreeze and outflow dependent. This erratic nature of storm motion is more evident in today's model runs, suggesting a higher risk of storms lingering closer to the coast later into the night. However, remnant storms and clouds should slowly diminish as the night wears on during both the primary and backup launch opportunities.

Launch Day

Probability of Violating Weather Constraints[1]

20%→10%

Primary Concerns: Cumulus Cloud Rule , Anvil Cloud Rules

Weather Conditions		Clouds				Additional Risk Criteria[2]	
		Type	Coverage	Base (ft)	Tops (ft)		
Weather/Visibility:	None / 7+ mi	Cumulus	Scattered	3,000	14,000	**Booster Recovery Weather**:	Low
Temp/Humidity:	80°F / 85%	Cirrostratus	Scattered	22,000	26,000	**Solar Activity**:	Low
Liftoff Winds (200'):	160° 10 - 15 mph						

24-Hour Delay

Probability of Violating Weather Constraints[1]

25%→15%

Primary Concerns: Cumulus Cloud Rule , Anvil Cloud Rules

Weather Conditions		Clouds				Additional Risk Criteria	
		Type	Coverage	Base (ft)	Tops (ft)		
Weather/Visibility:	Isol Showers / 7+ mi	None	Scattered	3,000	16,000	**Booster Recovery Weather**:	Low
Temp/Humidity:	79°F / 90%	Altostratus	Scattered	14,000	18,000	**Solar Activity**:	Low
Liftoff Winds (200'):	170° 10 - 15 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