



Launch Mission Execution Forecast

Mission: Falcon 9 NORTHROP MRV/MEP

Issued: 20-Jul-26 / 1100L (1500Z)

Valid: 21-Jul-26 / 1715 – 2104L (2115 – 0104Z)
22-Jul-26 / 1715 – 2104L (2115 – 0104Z)



Forecast Discussion: Tropical Depression Two, currently located south of the Florida Panhandle, is forecast to slowly strengthen as it drifts to the west-northwest along the northern Gulf coast and farther away from the Spaceport. As it does so, it will help wrap drier air across the Florida peninsula as the western Atlantic ridge strengthens westwards into the state. Steering flow will remain generally southerly, allowing for the east coast seabreeze to develop and move inland the next few afternoons. However, for the primary and backup windows Tuesday and Wednesday afternoons, models continue to show that arriving drier air will be sufficient to significantly limit the development of afternoon convection, perhaps shutting it off entirely for some locations. The primary violation concerns for both launch windows will be the Cumulus Cloud Rule for any showers or storms that develop or move by in the vicinity. The Anvil Cloud Rules will also be a concern as upper-level flow will be out of the northeast, allowing any storms that move offshore to potentially push anvils back towards the Spaceport.

Launch Day	Probability of Violating Weather Constraints ¹							
	25%	Primary Concerns: Cumulus Cloud Rule , Anvil Cloud Rules						
	Weather Conditions					Additional Risk Criteria ²		
	Weather/Visibility:	Isol Showers / 7+ mi	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
	Temp/Humidity:	88°F / 70%	Cumulus	Scattered	2,000	12,000	Solar Activity:	Low
	Liftoff Winds (200'):	150° 20 - 25 mph	Cirrostratus	Scattered	25,000	30,000		
24-Hour Delay	Probability of Violating Weather Constraints ¹							
	15%	Primary Concerns: Cumulus Cloud Rule , Anvil Cloud Rules						
	Weather Conditions					Additional Risk Criteria		
	Weather/Visibility:	Isol Showers / 7+ mi	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
	Temp/Humidity:	88°F / 70%	Cumulus	Scattered	2,000	12,000	Solar Activity:	Low
	Liftoff Winds (200'):	140° 15 - 20 mph	Cirrostratus	Scattered	25,000	30,000		
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 Needed					