Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-56
Issued: 6 May 2024 / 1000L (1400Z)
Valid: 7 May 2024 / 1108 – 1508L (1508 – 1908Z)

Forecast Discussion: High pressure over the Atlantic coast will slide southward tomorrow into midweek, bringing the ridge axis across central Florida. The result will be slightly drier conditions with only a slight chance of Cumulus Cloud Rule violation at sea breeze onset during the midday hours. For the backup day, the ridge persists across the central portions of the state, so the only concern for the launch window will be for the Cumulus Cloud Rule with seabreeze onset once again.

Launch Day

Probability of Violating Weather Constraints[1]

10%

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:	86°F / 60%	Cumulus	Scattered	2,500	8,000	**Booster Recovery Weather**:	Low
Liftoff Winds (200'):	140° 10 - 16 mph					**Solar Activity**:	Mod

24-Hour Delay

Probability of Violating Weather Constraints

10%

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
Temp/Humidity:	86°F / 65%	Cumulus	Scattered	2,500	8,000	**Booster Recovery Weather**:	Low
Liftoff Winds (200'):	150° 10 - 15 mph					**Solar Activity**:	Mod

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 Needed