Launch Mission Execution Forecast

Mission: Falcon 9 Koreasat-6A
Issued: 10 Nov 2024 / 0830L (1330Z)
Valid: 11 Nov 2024 / 1207 – 1607L (1707 – 2107Z)

Forecast Discussion: High pressure off the eastern seaboard will bring breezy onshore winds and a slight chance for showers today. By Monday that high will have moved well into the Atlantic Ocean and a trailing ridge axis should be just north of the spaceport. This pattern is expected to open the door for a trough to move out of the tropics and into the local area, bringing a chance for showers and isolated thunderstorms during the primary launch window. By Tuesday, an offshore cold front is expected to pull much of the moisture away from the Cape. For both launch windows, the Cumulus Cloud Rule is the most likely weather constraint concern, with the potential for a violation considerably higher on Monday.

Launch Day

Probability of Violating Weather Constraints[1]

30% — **Primary Concerns**: Cumulus Cloud Rule

Weather Conditions		Clouds				Additional Risk Criteria[2]	
		Type	Coverage	Base (ft)	Tops (ft)		
Weather/Visibility:	Isol Showers / 7 mi.					**Upper-Level Wind Shear**:	Low
Temp/Humidity:	80°F / 80%	Cumulus	Scattered	3,000	10,000	**Solar Activity**:	Low
Liftoff Winds (200'):	020° 10 - 16 mph						

24-Hour Delay

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:	80°F / 80%	Cumulus	Scattered	3,000	8,000	**Solar Activity**:	Low
Liftoff Winds (200'):	030° 14 - 20 mph						

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