Launch Mission Execution Forecast

Mission: Falcon 9 OneWeb 1
Issued: 7 Dec 2022 / 0830L (1330Z)
Valid: 8 Dec 2022 / 1722 – 1732L (2222 – 2232Z)

Forecast Discussion: The stretch of favorable launch conditions will last through the end of the week as ridging aloft and associated high pressure at the surface remain in control of our weather pattern. A very weak boundary will approach the area tomorrow, but the strong high pressure will help stave it off and prevent any unsettled weather. While there will likely be a few showers off the coast tomorrow afternoon, they are expected to be low-topped and remain offshore. Winds will be fairly light from the north, and dry air aloft will cap off vertical cloud development. The only concern for both the primary and backup days is the small chance of a flight through Cumulus Cloud Rule violation.

Launch Day

Probability of Violating Weather Constraints[1]

10% | **Primary Concerns**: Cumulus Cloud Rule

Weather Conditions						Additional Risk Criteria[2]	
Weather/Visibility:	None / 7 mi.	**Clouds**				**Upper-Level Wind Shear**:	Low
		Type	Coverage	Base (ft)	Tops (ft)		
Temp/Humidity:	72°F / 80%	Cumulus	Scattered	2,500	8,000	**Solar Activity**:	Low
Liftoff Winds (200'):	010° 8 - 12 mph						

24-Hour Delay

Probability of Violating Weather Constraints

<10% | **Primary Concerns**: Cumulus Cloud Rule

Weather Conditions						Additional Risk Criteria	
Weather/Visibility:	None / 7 mi.	**Clouds**				**Upper-Level Wind Shear**:	Low
		Type	Coverage	Base (ft)	Tops (ft)		
Temp/Humidity:	74°F / 75%	Cumulus	Few	2,500	6,000	**Solar Activity**:	Low
Liftoff Winds (200'):	020° 8 - 12 mph						

Notes

1. *The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring anytime 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