Launch Mission Execution Forecast

Mission: Falcon 9 StarlinkV1.0 L-16
Issued: 18 Jan 2021 / 0800L (1300Z)
Valid: 19 Jan 2021 / 0818 – 0829L (1318 – 1329Z)

Forecast Discussion: As the front moves further northeast, high pressure will begin to build in over the Spaceport today, causing drier conditions and lighter winds from the north to northeast with upper level winds dropping off as well. A few cumulus clouds could develop over the coast Tuesday morning, which could move over the Spaceport during the launch window. The Cumulus Cloud Rule will be the primary concern for a Tuesday launch attempt.

High pressure continues to dominate the area on Wednesday. Winds will continue to be light shifting to the northwest and upper-level winds begin to increase slightly as the jet dips further into the southeastern states. Moisture slightly increases over the Spaceport Wednesday morning increasing the potential for low-topped cumulus clouds to develop. This will cause the primary concern to remain the Cumulus Cloud Rule for a Wednesday launch attempt.

Launch Day

Probability of Violating Weather Constraints

10%

Primary Concerns: Cumulus Cloud Rule

Weather Conditions

Weather/Visibility: None / 7 mi.

Temp/Humidity: 57°F / 50%

Liftoff Winds (200'): 020° 10-15 mph

Clouds

Type	Coverage	Base (ft)	Tops (ft)
Cumulus	Few	2,500	4,000

Additional Risk Criteria

Upper-Level Wind Shear: Low

Booster Recovery Weather: Low

Solar Activity: Low

24-Hour Delay

Probability of Violating Weather Constraints

10%

Primary Concerns: Cumulus Cloud Rule

Weather Conditions

Weather/Visibility: None / 7 mi.

Temp/Humidity: 59°F / 60%

Liftoff Winds (200'): 330° 10-15 mph

Clouds

Type	Coverage	Base (ft)	Tops (ft)
Cumulus	Few	3,000	4,500

Additional Risk Criteria

Upper-Level Wind Shear: Low

Booster Recovery Weather: Low

Solar Activity: Low

***Note**: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.*

Next Forecast Will Be Issued | As needed