



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-60

Issued: 27 May 2024 / 1100L (1500Z)

Valid: 28 May 2024 / 0730-1130L (1130-1530Z)



Forecast Discussion: A frontal boundary in the Southeast U.S. is helping nudge the Subtropical ridge axis south of Central Florida. This creates southwesterly flow over the Space Coast and pins the sea breeze close to the Spaceport, keeping any locally developing showers and storms close and allowing any showers and storms that develop inland to move east towards the launch area. The first half of the launch window is more favorable each day, before the main weather risk of Cumulus Clouds begin to develop towards midday.

Probability of Violating Weather Constraints¹

10→20%

Primary Concerns: Cumulus Cloud Rule

Weather Conditions

Additional Risk Criteria²

Weather/Visibility: None / 7 mi.

Clouds

Type	Coverage	Base (ft)	Tops (ft)
Cumulus	Few	3,000	10,000

Upper-Level Wind Shear: Low

Temp/Humidity: 77°F / 90%

Booster Recovery Weather: Low

Liftoff Winds (200'): 270° 5 - 10 mph

Solar Activity: Low

Probability of Violating Weather Constraints

5→10%

Primary Concerns: Cumulus Cloud Rule

Weather Conditions

Additional Risk Criteria

Weather/Visibility: None / 7 mi.

Clouds

Type	Coverage	Base (ft)	Tops (ft)
Cumulus	Few	3,000	8,000

Upper-Level Wind Shear: Low

Temp/Humidity: 73°F / 90%

Booster Recovery Weather: Low

Liftoff Winds (200'): 290° 8 - 12 mph

Solar Activity: Low

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 Required