Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 10-15
Issued: 24 Sep 2025 / 0900L (1300Z)
Valid: 25 Sep 2025 / 0436 – 0836L (0836 – 1236Z)

Forecast Discussion: Little change to previous forecast. High-pressure ridge over the southeastern U.S. will sag southward today bringing weak onshore flow and increasing low-level moisture resulting in some afternoon seabreeze-associated showers and storms, mainly over the central and western portions of the state. Lack of significant steering flow may allow some development to creep back toward the Space Coast by evening hours but should diminish after sunset. Atlantic showers will be present overnight for both the primary and backup opportunities with most remaining well off the coast, so the Cumulus Cloud Rule is only a slight concern for both days.

Launch Day

Probability of Violating Weather Constraints[1]

5% — **Primary Concerns**: Cumulus Cloud Rule

Weather Conditions

Weather/Visibility:	Iso Showers / 7 mi.
Temp/Humidity:	78°F / 85%
Liftoff Winds (200'):	VRB° 5 - 7 mph

Clouds

Type	Coverage	Base (ft)	Tops (ft)
Cumulus	Few	2,000	9,000
Cirrus	Scattered	25,000	30,000

Additional Risk Criteria[2]

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:	Iso Showers / 7 mi.
Temp/Humidity:	78°F / 90%
Liftoff Winds (200'):	250° 5 - 10 mph

Clouds

Type	Coverage	Base (ft)	Tops (ft)
Cumulus	Scattered	2,000	10,000
Cirrus	Scattered	25,000	30,000

Additional Risk Criteria

Upper-Level Wind Shear:	Low
Booster Recovery Weather:	Low
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 Launch FAQ https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html ***for more information***

Next Forecast Will Be Issued | As Needed