



Launch Mission Execution Forecast



Mission: Falcon 9 Starlink 12-18

Issued: 10 Feb 2025 / 1130L (1630Z)

Valid: 11 Feb 2025 / 1200 – 1600L (1700 – 2100Z)

Forecast Discussion: Aside from patchy morning fog, benign weather will continue across Central Florida through mid-week as we remain on the western fringe of a ridge axis. This will keep weak frontal boundaries pinned to our north and will promote continued above-average temperatures. With high temperatures reaching the 80-degree mark Tuesday, the sea breeze circulation may contribute to the formation low-topped showers in the afternoon. Therefore, we have added isolated showers into the forecast and are now tracking the Cumulus Cloud Rule as a distant concern for the primary launch window. On Wednesday, the flow dries out as a weak frontal boundary shifts back north into the deep south, but the tightening pressure gradient will elevate winds at rocket level. However, wind speeds should still stay well below threshold, so Liftoff Winds will only be a distant concern for the backup launch opportunity Wednesday.

| | | Probability of Violating Weather Constraints ¹ | | | |
|---|--|---|----------|---------------------------------------|--------------------------------------|
| Launch Day | 5% | Primary Concerns: Cumulus Cloud Rule | | | |
| | Weather Conditions | | | Additional Risk Criteria ² | |
| | Weather/Visibility: Iso Showers / 7 mi. | Clouds | | Upper-Level Wind Shear: | Low |
| | Temp/Humidity: 74°F / 75% | Type | Coverage | Base (ft) | Tops (ft) |
| Liftoff Winds (200'): 160° 12 - 17 mph | Cumulus | Scattered | 2,000 | 7,000 | Booster Recovery Weather: Low |
| | | | | | Solar Activity: Low |
| | | Probability of Violating Weather Constraints | | | |
| 24-Hour Delay | 5% | Primary Concerns: Liftoff Winds | | | |
| | Weather Conditions | | | Additional Risk Criteria | |
| | Weather/Visibility: None / 7 mi. | Clouds | | Upper-Level Wind Shear: | Low |
| | Temp/Humidity: 75°F / 80% | Type | Coverage | Base (ft) | Tops (ft) |
| Liftoff Winds (200'): 180° 20 - 25 mph | Cumulus | Scattered | 2,000 | 6,000 | Booster Recovery Weather: Low |
| | | | | | Solar Activity: Low |
| Notes | <ol style="list-style-type: none"> The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window. 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 | | | |