



Launch Mission Execution Forecast



Mission: Falcon 9 Starlink 4-25

Issued: 23 July 2022 / 0700L (1100Z)

Valid: 24 July 2022 / 0809 – 0949L (1209 – 1349Z)

Forecast Discussion: No significant changes to the forecast as the subtropical ridge axis will remain north of the Spaceport for the next several days. This set up creates low-level flow from the southeast that assists the east coast sea breeze's daily inland trek, which keeps the afternoon/evening convection west of the Space Coast. Showers around the periphery of the ridge and over the Gulf Stream will still be prevalent each morning. The primary weather concerns for launch attempts Sunday and Monday are the Cumulus and Anvil Cloud Rules associated with these showers.

| Launch Day | | Probability of Violating Weather Constraints ¹ | | | | | |
|------------------------------|--|---|---|-----------|-----------|---------------------------------------|--------------------------------------|
| | | 20% | Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules | | | | |
| | | Weather Conditions | | | | Additional Risk Criteria ² | |
| | | Weather/Visibility: Isold Showers / 7 mi. | Clouds | | | | Upper-Level Wind Shear: Low |
| | | | Type | Coverage | Base (ft) | Tops (ft) | |
| | | Temp/Humidity: 82°F / 80% | Cumulus | Few | 3,000 | 10,000 | Booster Recovery Weather: Low |
| | | Liftoff Winds (200'): 120° 8 - 12 mph | Altostratus | Scattered | 15,000 | 18,000 | Solar Activity: Low |
| 24-Hour Delay | | Probability of Violating Weather Constraints | | | | | |
| | | 20% | Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules | | | | |
| | | Weather Conditions | | | | Additional Risk Criteria | |
| | | Weather/Visibility: Isold Showers / 7 mi. | Clouds | | | | Upper-Level Wind Shear: Low |
| | | | Type | Coverage | Base (ft) | Tops (ft) | |
| | | Temp/Humidity: 83°F / 78% | Cumulus | Few | 3,000 | 10,000 | Booster Recovery Weather: Low |
| | | Liftoff Winds (200'): 140° 10 - 15 mph | Altostratus | Scattered | 15,000 | 18,000 | 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 anytime 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 | | | | | |