

Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-14

Issued: 07 Sep 2023 / 1100L (1500Z)

Valid: 08 Sep 2023 / 1932-2331L (08/2332-09/0331Z)



Forecast Discussion: High pressure and fair weather lingers over the Space Coast for one last day. By tomorrow, a mid-level shortwave trough will push over the Southeast and provide increased moisture and instability. Thunderstorm development is likely tomorrow afternoon along sea breeze boundaries in Central Florida. This could become a Surface Electric Fields Rule or Lightning Rule concern towards the beginning of the window on Friday. The primary concern will be the Cumulus Cloud Rule and Anvil Rules as westerly upper-level flow may push anvil over the Space Coast from thunderstorm development in Central Florida.

By Saturday, the shortwave troughs departure creates less upper-level support and a more typical wet-season thunderstorm potential in the afternoon. Lingering thunderstorm activity over Central Florida may still impact the beginning of the back-up launch window but will likely be less pronounced than Friday.

| | Probability of Violating Weather Constraints ¹ | | | | | | | | |
|---------------|---|--|--|--|---|---|---|-------------------------|--|
| Day | 40->15% Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules, Surface Electric Fields Rule, Lightning Rule | | | | | | | | |
| ch | Weather Conditions | | | | | | Additional Risk Criteria ² | | |
| aunch | Weather/Visibility: | Showers / 7 mi. | Type | Clouds Coverage | Base (ft) | Tops (ft) | Upper-Level Wind Shear: | Low | |
| _ | Temp/Humidity: | 82°F / 70% | Cumulus | Scattered | 3,000 | 8,000 | Booster Recovery Weather: | Low | |
| | Liftoff Winds (200' |): 160° 10 - 15 mph | Altostratus | Broken | 13,000 | 25,000 | Solar Activity: | Low | |
| | Probability of Violating Weather Constraints | | | | | | | | |
| Delay | 30->10% Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules | | | | | | | | |
| | Weather Conditions | | | | | | | | |
| בו | | Weather | r Condition | ıs | | | Additional Risk Cr | iteria | |
| -Hour | Weather/Visibility: | | Type | Clouds Coverage | Base (ft) | Tops (ft) | Additional Risk Cr Upper-Level Wind Shear: | iteria Low | |
| 24-Hour | Weather/Visibility: | | | Clouds | | Tops (ft) 10,000 | | | |
| 24-Hour | Temp/Humidity: | Showers / 7 mi. | Туре | Clouds Coverage | Base (ft) | | Upper-Level Wind Shear: | Low | |
| | Temp/Humidity: Liftoff Winds (2003) 1. The Probability of | Showers / 7 mi. 82°F / 65% 1: 140° 10 - 15 mph f Violation (PoV) is the chance | Type Cumulus Altostratus ce of a local safet | Clouds Coverage Few Broken | Base (ft) 3,000 14,000 onstraint vio | 10,000 25,000 | Upper-Level Wind Shear: Booster Recovery Weather: | Low Low Low ach window. | |
| Notes 24-Hour | Temp/Humidity: Liftoff Winds (200' 1. The Probability of 2. Additional Risk Co | Showers / 7 mi. 82°F / 65% 1: 140° 10 - 15 mph f Violation (PoV) is the chance interia, which are not include | Type Cumulus Altostratus ce of a local safet d in the PoV, are | Clouds Coverage Few Broken y or customer comission-specific | Base (ft) 3,000 14,000 onstraint vice constraints | 10,000 25,000 Delation occurr is that may no | Upper-Level Wind Shear: Booster Recovery Weather: Solar Activity: ing any random time during the laur | Low Low Low ach window. | |