



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 5-6

Issued: 2 May 2023 / 0900L (1300Z)

Valid: 4 May 2023 / 0319 – 0712L (0719 – 1112Z)



Forecast Discussion: Very little in the way of change in the forecast for this cycle. A dry and stable air mass remains in place over Florida and this trend will continue through the end of the week. This will result in mostly clear skies during the overnight hours with no chance for precipitation. There could be a few cumulus clouds around that may pose a weather concern, but that scenario is not very likely. The primary weather concern for launch day is the Cumulus Cloud Rule.

In the event of a 24-hour delay, nearly identical weather conditions will prevail across the Space Coast area. Dry and stable conditions will persist across the area and will limit weather concerns for the backup day. The primary weather concern for the backup day is the Cumulus Cloud Rule.

| | | Probability of Violating Weather Constraints ¹ | | | | | | | | | | | | | | | |
|---|--|--|-----------|---------------------------------------|--------|--|--|--|------|----------|-----------|-----------|---------|-----|-------|-------|------------------------------------|
| Launch Day | 5% | Primary Concerns: Cumulus Cloud Rule | | | | | | | | | | | | | | | |
| | Weather Conditions | | | Additional Risk Criteria ² | | | | | | | | | | | | | |
| | Weather/Visibility: None / 7 mi. | <table border="1"> <thead> <tr> <th colspan="4">Clouds</th> </tr> <tr> <th>Type</th> <th>Coverage</th> <th>Base (ft)</th> <th>Tops (ft)</th> </tr> </thead> <tbody> <tr> <td>Cumulus</td> <td>Few</td> <td>2,000</td> <td>4,000</td> </tr> </tbody> </table> | | | Clouds | | | | Type | Coverage | Base (ft) | Tops (ft) | Cumulus | Few | 2,000 | 4,000 | Upper-Level Wind Shear: Low |
| | Clouds | | | | | | | | | | | | | | | | |
| Type | Coverage | Base (ft) | Tops (ft) | | | | | | | | | | | | | | |
| Cumulus | Few | 2,000 | 4,000 | | | | | | | | | | | | | | |
| Temp/Humidity: 65°F / 73% | | | | Booster Recovery Weather: Low | | | | | | | | | | | | | |
| Liftoff Winds (200'): 330° 10 - 15 mph | | | | Solar Activity: Low | | | | | | | | | | | | | |
| | | Probability of Violating Weather Constraints | | | | | | | | | | | | | | | |
| 24-Hour Delay | 5% | Primary Concerns: Cumulus Cloud Rule | | | | | | | | | | | | | | | |
| | Weather Conditions | | | Additional Risk Criteria | | | | | | | | | | | | | |
| | Weather/Visibility: None / 7 mi. | <table border="1"> <thead> <tr> <th colspan="4">Clouds</th> </tr> <tr> <th>Type</th> <th>Coverage</th> <th>Base (ft)</th> <th>Tops (ft)</th> </tr> </thead> <tbody> <tr> <td>Cumulus</td> <td>Few</td> <td>2,000</td> <td>4,000</td> </tr> </tbody> </table> | | | Clouds | | | | Type | Coverage | Base (ft) | Tops (ft) | Cumulus | Few | 2,000 | 4,000 | Upper-Level Wind Shear: Low |
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| Cumulus | Few | 2,000 | 4,000 | | | | | | | | | | | | | | |
| Temp/Humidity: 67°F / 73% | | | | Booster Recovery Weather: Low | | | | | | | | | | | | | |
| Liftoff Winds (200'): 080° 10 - 15 mph | | | | 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 | | 3 May 2023 | | | | | | | | | | | | | | | |