



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink-L20

Issued: 6 March 2021 / 0900L (1400Z)

Valid: 9 March 2021 / 2058-2259L (10/0158-0359Z)



Forecast Discussion: A low pressure area currently in the eastern Gulf of Mexico will transit southern Florida today, bringing widespread clouds, showers and gusty winds. The system will continue to move east into the Atlantic on Sunday, taking much of the unsettled weather with it, as high pressure builds into Florida. The pressure gradient between these two systems will keep gusty northerly winds over the Space Coast throughout the day. On Monday, winds will diminish and become more northeasterly as the high pressure area moves off the Mid-Atlantic coast. Expect much the same conditions on Tuesday as the winds become easterly, increasing cloud cover slightly with the onshore flow. The primary weather concerns for an attempt Tuesday evening are liftoff winds and the Cumulus Cloud Rule.

On Wednesday, conditions remain much the same as the high pressure area continues to dominate the area with continued onshore flow. The primary weather concerns remain liftoff winds and the Cumulus Cloud Rule.

| | | Probability of Violating Weather Constraints | | | | | |
|--|---|---|----------|-----------|------------------------------------|--------------------------------------|--|
| Launch Day | 10% | Primary Concerns: Liftoff Winds, Cumulus Cloud Rule | | | | | |
| | Weather Conditions | | | | Additional Risk Criteria | | |
| | Weather/Visibility: None / 7 mi. | Clouds | | | Upper-Level Wind Shear: Low | | |
| | Temp/Humidity: 62°F / 80% | Type | Coverage | Base (ft) | Tops (ft) | Booster Recovery Weather: Low | |
| | Liftoff Winds (200'): 090° 15 - 20 mph | Cumulus | Few | 3,500 | 5,000 | Solar Activity: Low | |
| | Cirrostratus | Few | 28,000 | 30,000 | | | |
| 24-Hour Delay | Probability of Violating Weather Constraints | | | | | | |
| | 20% | Primary Concerns: Liftoff Winds, Cumulus Cloud Rule | | | | | |
| | Weather Conditions | | | | Additional Risk Criteria | | |
| | Weather/Visibility: None / 7 mi. | Clouds | | | Upper-Level Wind Shear: Low | | |
| | Temp/Humidity: 64°F / 80% | Type | Coverage | Base (ft) | Tops (ft) | Booster Recovery Weather: Low | |
| Liftoff Winds (200'): 100° 15 -20 mph | Cumulus | Scattered | 3,500 | 5,000 | Solar Activity: Low | | |
| | Cirrostratus | Scattered | 25,000 | 28,000 | | | |

Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.

Next Forecast Will Be Issued 7 March 2021