



Launch Mission Execution Forecast

Mission: Falcon 9 StarlinkV1.0-L6

Issued: 21 Apr 2020/1000L (1400Z)

Valid: 22 Apr 2020/1507-1607L (1907-2007Z)

Synoptic Discussion: High pressure will build across the eastern US into mid-week, bringing drier weather for the Spaceport. Dry conditions are expected during the launch window on Wednesday, with light east winds bringing a few cumulus clouds.

Another strong low pressure system and cold front will move into the southeastern US on Thursday. Strong and gusty south winds are expected across the Spaceport ahead of this system during the backup launch window Thursday afternoon. While the front itself is expected to remain north of Central Florida during the day, increasing moisture across the region will bring a chance for showers and storms.

| <u>Clouds</u> | <u>Coverage</u> | <u>Bases (feet)</u> | <u>Tops (feet)</u> |
|---------------|-----------------|---------------------|--------------------|
| Cumulus | Few | 3,500 | 4,000 |
| Cirrus | Scattered | 30,000 | 40,000 |

Visibility/Weather: 7 Miles
Liftoff Winds (MPH): 070° @ 7-12 mph (200')
Temperature: 80°F
Pressure: 30.07 inHg
RH: 60%

| | Probability of Violating Weather Constraints* | | Other Risk Criteria | |
|----------------------|--|-----------------------------------|----------------------------|----------|
| Launch Day | 10% | Cumulus Cloud Rule | Upper-Level Shear | Low |
| | | | Recovery Conds | Low |
| | | | Solar Activity | Low |
| 24-Hour Delay | 50% | Liftoff Winds, Cumulus Cloud Rule | Upper-Level Shear | Moderate |
| | | | Recovery Conds | High |
| | | | Solar Activity | Low |

*The violation probabilities above do not include shear, recovery, or solar criteria.

| | | |
|---------------------------------------|--------------------------------------|-------------------------------|
| Sunrise: 22/0649L 23/0648L | Sunset: 22/1952L 23/1952L | |
| Moonrise: 22/0648L 23/0719L | Moonset: 22/1938L 23/2032L | Illumination: 0% 1% |

Next forecast will be issued: As Needed