



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink V1.0 L-5

Issued: 17 Mar 2020/0930L (1330Z)

Valid: 18 Mar 2020/0811-0822L (1211-1222Z)

Synoptic Discussion: No change to previous forecast necessary. Surface high pressure will continue to dominate the weather across the Space Coast region. A loose pressure gradient will result in light onshore winds. Expect scattered low level clouds, mainly over the water. The primary weather concern for launch day is the Cumulus Cloud Rule.

In the event of a 24-hour delay, wind speeds will likely increase slightly as the pressure gradient tightens in response to a weak surface boundary moves from the Middle Mississippi Valley toward the southeast U.S. No significant weather is expected and only scattered low level clouds are expected, again mainly over the water. The primary weather concern is the Cumulus Cloud Rule.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Cumulus	Scattered	2,500	4,000

Visibility/Weather: 7 Miles
Liftoff Winds (MPH): 090° @ 5-10mph (200')
Temperature: 70°F
Pressure: 30.27 inHg
RH: 84%

	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	10%	Cumulus Cloud Rule	Upper-Level Shear	Low
			Recovery Conds	Low
			Solar Activity	Low

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

Sunrise: 17/0729L 18/0728L	Sunset: 14/1932L 18/1932L	
Moonrise: 17/0310L 18/0403L	Moonset: 17/1343L 18/1438L	Illumination: 39% 29%

Next forecast will be issued: As required.