



Launch Mission Execution Forecast

Mission: Falcon 9 StarlinkV1.0-L12

Issued: 5 Oct 20 / 0745L (1145Z)

Valid: 6 Oct 20 / 0724 – 0735L (1124 – 1135Z)



Forecast Discussion: The remnant boundary that has been lingering across the state over the past week is expected to drift just enough northward later today to allow the prevailing flow to become more easterly and a slight drying to occur over the Spaceport. Coverage of showers will be highest this morning, though the threat for onshore moving showers into the Spaceport will continue through the day. This pattern will continue through the overnight hours and early morning hours on Tuesday. However, the exact coverage and placement of this activity will be hard to pin down in advance.

While high clouds from Tropical Storm Gamma located in the southern Gulf of Mexico will continue to stream across the Florida peninsula, the primary weather concern during a Tuesday morning launch attempt would be cumulus clouds associated with this onshore moving activity.

Probability of Violating Weather Constraints																																						
Launch Day	30% Primary Concerns: Cumulus Cloud Rule																																					
	<table border="1"> <thead> <tr> <th colspan="4">Weather Conditions</th> <th colspan="2">Additional Risk Criteria</th> </tr> <tr> <th colspan="2"></th> <th colspan="3">Clouds</th> <th colspan="2"></th> </tr> <tr> <th>Weather/Visibility:</th> <th>Isold. Showers / 7 mi.</th> <th>Type</th> <th>Coverage</th> <th>Base (ft)</th> <th>Tops (ft)</th> <th>Upper-Level Wind Shear:</th> <th>Low</th> </tr> </thead> <tbody> <tr> <td>Temp/Humidity:</td> <td>80°F / 85%</td> <td>Cumulus</td> <td>Scattered</td> <td>2,500</td> <td>8,000</td> <td>Booster Recovery Weather:</td> <td>Low</td> </tr> <tr> <td>Liftoff Winds (200'):</td> <td>110° 12 - 17 mph</td> <td>Cirrus</td> <td>Scattered</td> <td>35,000</td> <td>40,000</td> <td>Solar Activity:</td> <td>Low</td> </tr> </tbody> </table>	Weather Conditions				Additional Risk Criteria				Clouds					Weather/Visibility:	Isold. Showers / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	Temp/Humidity:	80°F / 85%	Cumulus	Scattered	2,500	8,000	Booster Recovery Weather:	Low	Liftoff Winds (200'):	110° 12 - 17 mph	Cirrus	Scattered	35,000	40,000	Solar Activity:	Low
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<i>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.</i>																																						
Next Forecast Will Be Issued	As Needed																																					