



Launch Mission Execution Forecast

Mission: Falcon 9 StarlinkV1.0-L17

Issued: 28 Feb 2021 / 2100L (1/0200Z)

Valid: 1 Mar 2021 / 1915 - 2116L (2/0015- 0216Z)



Forecast Discussion: Moisture plume lifting north in combination with the sea breeze collision is triggering showers across interior Florida this evening. While most of this activity is expected to remain west of the Spaceport, a few light showers may drift towards the area late this evening as prevailing flow becomes more southwesterly.

Monday will be another warmer than normal day across Central Florida with breezy southwesterly flow ahead of a weakening frontal boundary sliding into the state. The prevailing flow should result in a stronger Gulf sea breeze, pushing towards the east coast late into the evening hours and interacting with the Atlantic breeze. The late day sea breeze collision is expected to drive shower development along the coast through the early portion of the launch window. In addition, the approaching front will drive an increase in mid and upper level cloud cover. The primary weather concerns for a launch attempt Monday evening will be thick clouds associated with the boundary and cumulus clouds associated with sea breeze showers.

Probability of Violating Weather Constraints						
Launch Day	40%	Primary Concerns: Thick Cloud Layer Rule, Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear:	Low
	Temp/Humidity: 75°F / 80%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Moderate
Liftoff Winds (200'): 190° 7 - 12 mph	Cumulus	Scattered	2,500	12,000	Solar Activity: Low	
	Cirrocumulus	Broken	30,000	40,000		
<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		1 Mar 2021				