



Launch Mission Execution Forecast

Mission: SpaceX Falcon 9 (Starlink-L7)

Issued: 3 Jun 2020 / 1015L (1415Z)

Valid: 3 Jun 2020 / 2055 – 2156L (4 Jun 0055 – 0156Z)



Forecast Discussion: As of this morning, models and radar have not trended in a favorable direction for the launch window tonight, showing an increase in both moisture and shower coverage today. An area of showers and isolated thunderstorms to the south of the Spaceport will continue to push north as the day progresses. These showers and storms, being aided by an upper level disturbance, will likely move into the area by the late morning and early afternoon as winds shift more southerly. Some models still hint that they may begin to dissipate or push far enough out of the area by the evening hours, but the moisture will linger, and the main concerns will be the Thick Cloud Layer Rule, the Cumulus Cloud Rule, and the Disturbed Weather Rule.

By tomorrow, the deep tropical moisture will be entrenched over the area, resulting in scattered to numerous showers and thunderstorms through much of the day and into the evening hours. Again, the main concerns for the back-up window will be the Thick Cloud Layer Rule, the Cumulus Cloud Rule, and the Disturbed Weather Rule.

		Probability of Violating Weather Constraints				
Launch Day	40%	Primary Concerns: Thick Cloud Layer Rule, Cumulus Cloud Rule, Disturbed Weather Rule				
	Weather Conditions			Additional Risk Criteria		
	Weather/Visibility: Iso Showers / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
	Temp/Humidity: 76°F / 90%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 160° 10-15 mph	Cumulus	Scattered	3,000	10,000	Solar Activity: Low	
	Cirrostratus	Overcast	22,000	26,000		
		Probability of Violating Weather Constraints				
24-Hour Delay	60%	Primary Concerns: Thick Cloud Layer Rule, Cumulus Cloud Rule, Disturbed Weather Rule				
	Weather Conditions			Additional Risk Criteria		
	Weather/Visibility: Sct Showers / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
	Temp/Humidity: 76°F / 90%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 180° 12-17 mph	Cumulus	Scattered	3,000	10,000	Solar Activity: Low	
	Altostratus	Broken	12,000	18,000		
<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		As required				