



Launch Mission Execution Forecast

Mission: Falcon 9 K-MILSAT-1

Issued: 19 Jul 2020 / 0900L (1300Z)

Valid: 20 Jul 2020 / 1700 – 2055L (20/2100 – 21/0055Z)



Forecast Discussion: Deep easterly flow will continue across the region through the week. The air mass across central Florida remains slightly drier than normal for this time of year, which will limit precipitation coverage today into Monday. However, a disturbance currently over the eastern Bahamas will track northwest and approach Florida Monday night into Tuesday, bringing an uptick in moisture and greater coverage of showers and thunderstorms at that time. Thus, the forecast reflects less favorable weather conditions for Tuesday's launch window. The primary weather concerns for both launch day and the 24-hour delay day are the Cumulus Cloud Rule and the Surface Electric Field Rule.

		Probability of Violating Weather Constraints				
Launch Day	30%	Primary Concerns: Cumulus Cloud Rule, Surface Electric Field Rule				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: Isol Showers / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
	Temp/Humidity: 84°F / 72%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 100° 10 - 15 mph	Cumulus	Scattered	3,000	10,000	Solar Activity: Low	
		Probability of Violating Weather Constraints				
24-Hour Delay	50%	Primary Concerns: Cumulus Cloud Rule, Surface Electric Field Rule				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: Sct Showers / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
	Temp/Humidity: 83°F / 76%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 100° 12 - 17 mph	Cirrostratus	Broken	22,000	28,000	Solar Activity: Low	
<p><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></p>						
Next Forecast Will Be Issued		As required				