



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink-L23

Issued: 6 Apr 2021 / 0845L (1245Z)

Valid: 7 Apr 2021 / 1134 – 1237L (1534 – 1637Z)



Forecast Discussion: The stretch of beautiful Spring weather will continue as a strong area of high pressure becomes centered over the Florida peninsula today. This high will be in control of our weather through the next several days, bringing plentiful sunshine, diminishing winds, and gradually rising temperatures. Tomorrow will feature much of the same, with the only concern being a very small threat for a Cumulus Cloud Rule violation during the launch window.

On Thursday, the high's center will gradually slide to the southeast, bringing a more southerly low level flow. There will be a slight increase in moisture with scattered upper level clouds, but the overall air mass will remain dry as the high pressure continues to be in control. Conditions again look favorable for Thursday, with the concerns being just a small risk for the Cumulus Cloud Rule and Thick Cloud Layer Rule.

		Probability of Violating Weather Constraints					
Launch Day	<10%	Primary Concerns: Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria		
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear:	Moderate
	Temp/Humidity: 76°F / 50%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
Liftoff Winds (200'): 160° 5 - 10 mph	Cumulus	Few	4,500	7,000	Solar Activity:	Low	
24-Hour Delay	Probability of Violating Weather Constraints						
	10%	Primary Concerns: Cumulus Cloud Rule, Thick Cloud Layer Rule					
	Weather Conditions				Additional Risk Criteria		
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear:	Low
Temp/Humidity: 79°F / 50%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low	
Liftoff Winds (200'): 200° 7 - 12 mph	Cumulus	Few	4,500	7,500	Solar Activity:	Low	
		Cirrus	Scattered	20,000	23,000		
Next Forecast Will Be Issued		As required					

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.