

## **Launch Mission Execution Forecast**

Mission: Falcon 9 Starlink-L25

**Issued**: 3 May 2021 / 0930L (1330Z)

**Valid**: 4 May 2021 / 1430 – 1602L (1830 – 2002Z)



**Forecast Discussion**: A high pressure ridge remains in place across Central Florida, keeping the weather associated with the low pressure area well north. Gusty southeasterly winds and isolated late afternoon showers and thunderstorms are possible in this pattern. On Tuesday, the unsettled weather associated with the low pressure area moves into the Southeast U.S., but remains mostly north of the Florida Peninsula, thanks to the strong high pressure ridge remaining across the area. The primary weather concerns Tuesday afternoon are the Cumulus Cloud Rule and Liftoff Winds. Wednesday's conditions begin to degrade as the ridge weakens and the low pressure area begins to drag a late-season cold front into North Florida. Surface winds will drop, but the Cumulus Cloud Rule remains a launch weather concern.

	Probability of Violating Weather Constraints								
Day	20% Primary Concerns: Cumulus Cloud Rule, Liftoff Winds								
ch	Weather Conditions							Additional Risk Criteria	
aunch	Weather/Visibility: None / 7 mi.		Clouds Type Coverage Base (f		Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
Ľ	Temp/Humid	ity: 80°F / 60%	6	Cumulus	Few	3,000	8,000	<b>Booster Recovery Weather:</b>	Moderate
	Liftoff Winds	( <b>200</b> °): 160° 15-20	) mph					Solar Activity:	Low
	Probability of Violating Weather Constraints								
Delay	20% Primary Concerns: Cumulus Cloud Rule								
	Weather Conditions						Additional Risk Criteria		
24-Hour	Weather/Visibility: None / 7 mi.		Clouds Type Coverage			Tops (ft)	Upper-Level Wind Shear:	Low	
24-	Temp/Humidity: 83°F / 60%		Cumulus	Scattered	3,000	10,000	<b>Booster Recovery Weather:</b>	Moderate	
	<b>Liftoff Winds (200')</b> : 190° 12-17 mph					Solar Activity:	Low		
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.									
Next Forecast Will Be Issued									