



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink-L26

Issued: 15 May 2021 / 0930L (1330Z)

Valid: 15 May 2021 / 1824 – 1925L (2224 – 2325Z)



Forecast Discussion: No significant changes to today's forecast. Cooler and drier air is in place over central Florida as a front is stalled out well to our south and high pressure builds to the north. With the high centered over the mid-Atlantic coast, a relatively strong pressure gradient will create a breezy, northeasterly flow throughout the day. There will likely be isolated showers moving off the Atlantic, but dry air in the mid-levels combined with sinking air behind the sea breeze should limit their growth to be nothing more than a flight-through constraint. Therefore, the main concerns for today's attempt are liftoff winds and the Cumulus Cloud Rule.

For tomorrow, there will be marginally improved conditions as the high pressure slowly slides southeast. While it will still be breezy, winds will decrease slightly and remain from the northeast. Similarly to Saturday, sinking, dry air in the mid-levels will continue to limit the growth of any onshore moving showers that develop over the Atlantic. Thus, the main concerns are liftoff winds and the Cumulus Cloud Rule.

		Probability of Violating Weather Constraints				
Launch Day	30%	Primary Concerns: Liftoff Winds, Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: Iso'd Showers / 7 mi.	Clouds				Upper-Level Wind Shear: Low
	Temp/Humidity: 73°F / 75%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Moderate
Liftoff Winds (200'): 040° 20 - 25 mph	Cumulus	Scattered	3,000	10,000	Solar Activity: Low	
		Probability of Violating Weather Constraints				
24-Hour Delay	20%	Primary Concerns: Liftoff Winds, Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear: Low
	Temp/Humidity: 74°F / 70%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 060° 15 - 20 mph	Cumulus	Scattered	3,500	7,500	Solar Activity: Low	
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.