



# Launch Mission Execution Forecast

**Mission:** Falcon 9 Starlink-L20

**Issued:** 7 March 2021 / 0800L (1300Z)

**Valid:** 9 March 2021 / 2058-2259L (10/0158-0359Z)



**Forecast Discussion:** The low pressure area that moved through yesterday is now over the Atlantic, taking the unsettled weather with it as high pressure builds into Florida. The pressure gradient between these two systems will keep gusty northerly winds over the Space Coast throughout the day. On Monday, winds will diminish and become more northeasterly as the high pressure area moves off the Mid-Atlantic coast. Expect much the same conditions on Tuesday as the winds become easterly, increasing cloud cover slightly with the onshore flow. The primary weather concerns for an attempt Tuesday evening are liftoff winds and the Cumulus Cloud Rule.

On Wednesday, similar conditions remain as the high pressure area continues to dominate the area with continued onshore flow. The primary weather concerns remain liftoff winds and the Cumulus Cloud Rule.

		Probability of Violating Weather Constraints					
<b>Launch Day</b>	<b>10%</b>	Primary Concerns: Liftoff Winds, Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria		
	<b>Weather/Visibility:</b> None / 7 mi.	<b>Clouds</b>			<b>Upper-Level Wind Shear:</b> Low		
	<b>Temp/Humidity:</b> 62°F / 80%	Type	Coverage	Base (ft)	Tops (ft)	<b>Booster Recovery Weather:</b> Low	
<b>Liftoff Winds (200'):</b> 070° 15 - 20 mph	Cumulus	Few	3,500	5,000	<b>Solar Activity:</b> Low		
	Cirrostratus	Few	28,000	30,000			
		Probability of Violating Weather Constraints					
<b>24-Hour Delay</b>	<b>20%</b>	Primary Concerns: Liftoff Winds, Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria		
	<b>Weather/Visibility:</b> None / 7 mi.	<b>Clouds</b>			<b>Upper-Level Wind Shear:</b> Low		
	<b>Temp/Humidity:</b> 64°F / 80%	Type	Coverage	Base (ft)	Tops (ft)	<b>Booster Recovery Weather:</b> Low	
<b>Liftoff Winds (200'):</b> 090° 17 -22 mph	Cumulus	Scattered	3,500	5,000	<b>Solar Activity:</b> Low		
	Cirrostratus	Scattered	25,000	28,000			
<b>Next Forecast Will Be Issued</b>		8 March 2021					

**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.