



# Launch Mission Execution Forecast

**Mission:** Falcon 9 Starlink L-11

**Issued:** 2 Sep 2020 / 0800L (1200Z)

**Valid:** 3 Sep 2020 / 0837 – 0848L (1237 – 1248Z)



**Forecast Discussion:** No change to the forecast or reasoning today as guidance is in good agreement the subtropical ridge axis has begun to move north. This weakens the offshore flow and lowers the afternoon and evening storm chances along the coastal areas. Tomorrow, the ridge axis will be nearly over the Spaceport, allowing rapid inland progression of the east coast sea breeze. The primary weather concern for Thursday morning's launch attempt will be the Cumulus Cloud Rule associated with the onset of the sea breeze before it moves inland.

On Friday, the subtropical ridge axis will likely be north of the area, providing onshore flow and the threat of morning showers along the immediate coast. The primary weather concern for a Friday morning attempt will be the Cumulus Cloud Rule associated with these coastal showers.

		Probability of Violating Weather Constraints					
<b>Launch Day</b>	<b>20%</b>	Primary Concerns: 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> 80°F / 90%	Type	Coverage	Base (ft)	Tops (ft)	<b>Booster Recovery Weather:</b>	Low
<b>Liftoff Winds (200'):</b> 200° 5 - 10 mph	Cumulus	Few	3,000	9,000	<b>Solar Activity:</b>	Low	
	Altocumulus	Scattered	12,000	14,000			
<b>24-Hour Delay</b>	Probability of Violating Weather Constraints						
	<b>30%</b>	Primary Concerns: Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria		
	<b>Weather/Visibility:</b> Isold Showers / 7 mi.	<b>Clouds</b>				<b>Upper-Level Wind Shear:</b>	Low
<b>Temp/Humidity:</b> 80°F / 90%	Type	Coverage	Base (ft)	Tops (ft)	<b>Booster Recovery Weather:</b>	Low	
<b>Liftoff Winds (200'):</b> 170° 7 - 12 mph	Cumulus	Scattered	2,500	10,000	<b>Solar Activity:</b>	Low	
	Altocumulus	Scattered	12,000	14,000			
<b>Next Forecast Will Be Issued</b>		A 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.