



# Launch Mission Execution Forecast

**Mission:** Falcon 9 Starlink 4-7

**Issued:** 31 Jan 2022 / 0800L (1200Z)

**Valid:** 1 Feb 2022 / 1346 – 1726 (1846 – 2226Z)



**Forecast Discussion:** An area of high pressure centered across the Florida peninsula will be re-enforced from the north over the next day as the next system takes shape over the Central US. Winds will turn onshore, with the modest increase in onshore flow bringing a few low level clouds on Tuesday. A passing weak upper level impulse will also increase high cloudiness across the Spaceport. There will be a small threat for Cumulus Clouds during the window Tuesday afternoon.

The larger area of high pressure over the east coast slides offshore on Wednesday, deepening the onshore flow across the Spaceport. This will bring a slight increase in chances for Cumulus Clouds during the backup launch window Wednesday afternoon.

Launch Day	Probability of Violating Weather Constraints					
	10%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions					Additional Risk Criteria
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear: Low
	Temp/Humidity: 67°F / 56%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
24-Hour Delay	Liftoff Winds (200'): 080° 10 - 15 mph	Cumulus	Scattered	3,000	6,000	Solar Activity: Low
	Probability of Violating Weather Constraints					
	20%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions					Additional Risk Criteria
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear: Low
Temp/Humidity: 72°F / 68%		Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 120° 12 - 17 mph		Cumulus	Scattered	4,000	10,000	Solar Activity: Low
		Cirrus	Scattered	20,000	30,000	
<b>Note:</b> 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		As Needed				