



Launch Mission Execution Forecast



Mission: Falcon 9 Starlink 4-6

Issued: 17 Jan 2022 / 1300L (1800Z)

Valid: 18 Jan 2022 / 1854 – 2114L (2354 – 19/0214Z)

Forecast Discussion: A brisk day along the Space Coast will transition to a clear evening with winds slowly diminishing after sunset. On Tuesday, high pressure will settle overhead, making for another chilly morning with low temperatures near 45°F at the Spaceport. Skies will continue to be mostly cloud-free and with winds becoming light and variable, making excellent weather conditions for a Tuesday evening launch attempt.

On Wednesday, the high pressure area will slide east over the western Atlantic, shifting winds along the Space Coast southeasterly. This wind flow can bring low-topped, brief showers over the Spaceport. The primary weather concern for a Wednesday evening launch attempt is cumulus clouds associated with these showers.

		Probability of Violating Weather Constraints					
Launch Day	<5%	Primary Concerns: Liftoff Winds					
	Weather Conditions				Additional Risk Criteria		
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear:	Low
		Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
Temp/Humidity: 53°F / 75%	Stratocumulus	Few	2,500	4,000	Solar Activity:	Low	
Liftoff Winds (200'): 030° 5 - 10 mph	Cirrus	Few	30,000	32,000			
		Probability of Violating Weather Constraints					
24-Hour Delay	10%	Primary Concerns: Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria		
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear:	Low
		Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
Temp/Humidity: 64°F / 80%	Cumulus	Scattered	3,000	6,000	Solar Activity:	Low	
Liftoff Winds (200'): 140° 8 - 12 mph	Cirrus	Scattered	28,000	30,000			
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		As Required					