



Launch Mission Execution Forecast



Mission: Falcon 9 Starlink 4-6

Issued: 14 Jan 2022 / 0800L (1300Z)

Valid: 17 Jan 2022 / 1916 – 2136L (18/0016 – 0236Z)

Forecast Discussion: A strong low pressure area is sliding up the Atlantic Seaboard today as another low pressure area forms over Texas. This leaves Central Florida with cool, mostly clear weather between the two systems. Winds will become southerly along the Space Coast on Saturday, ahead of the approaching low pressure area moving along the Gulf Coast States. Sunday will bring considerable cloudiness, breezy conditions, and rain showers with isolated thunderstorms over the Spaceport as the low pressure area moves into the Carolinas while dragging a cold front through Florida. Rain and thunder chances will drop as the front passes late in the afternoon, but winds will remain gusty for some time. Clouds will diminish through the day Monday, leaving gusty winds as the primary launch weather threat.

On Tuesday, high pressure will settle overhead making for a cold morning, but excellent launch weather conditions.

		Probability of Violating Weather Constraints					
Launch Day	30%	Primary Concerns: Liftoff Winds					
	Weather Conditions				Additional Risk Criteria		
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Moderate		
	Temp/Humidity: 52°F / 72%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low-Mod	
Liftoff Winds (200'): 280° 20 - 25 mph	Cirrostratus	Scattered	28,000	30,000	Solar Activity: Low		
		Probability of Violating Weather Constraints					
24-Hour Delay	<10%	Primary Concerns: Liftoff Winds					
	Weather Conditions				Additional Risk Criteria		
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low		
	Temp/Humidity: 52°F / 72%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low	
Liftoff Winds (200'): 360° 5 - 10 mph	Stratocumulus	Few	2,500	4,000	Solar Activity: Low		
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		15 Jan 2022					