

Launch Mission Execution Forecast

Mission: Falcon 9 StarlinkV1.0-L17 **Issued**: 3 Mar 2021 / 1000L (1500Z)

Valid: 4 Mar 2021 / 0320 - 0550L (0820 - 1050Z)



Forecast Discussion: A surface low is tracking offshore the northeastern Florida coast this morning, with its associated front on the doorstep of the Spaceport. Most of the frontal rainfall has pushed south of the area, but the front itself will arrive in a few hours as it pushes through the remainder of the Florida peninsula through the afternoon. As the low pulls further out into the Atlantic, it will bring a secondary boundary through late this evening. Breezy northerly wind shift with this feature will usher in low-topped stratocumulus and a few sprinkles after midnight. The primary weather concerns for an early Thursday morning launch attempt will be a small threat for cumulus cloud violations.

High pressure over the Gulf of Mexico behind the front will be quickly reinforced by a stronger high moving south across the Midwest and eastern seaboard on Thursday. Onshore flow will moderate temperatures, but expect a seasonably cool and sunny day across the Spaceport that will translate into a mostly clear night. The primary weather concerns for an early Friday morning launch attempt will be a small threat for cumulus cloud violations with any Atlantic clouds.

	Probability of Violating Weather Constraints								
Day	10%	Primary Concerns: Cumulus Cloud Rule							
ch	Weather Conditions							Additional Risk Criteria	
aunch	Weather/Visi	bility:	None /7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
Ľ	Temp/Humid	lity:	60°F / 84%	Stratocumulus	Scattered	2,500	5,000	Booster Recovery Weather:	Moderate
	Liftoff Winds (200') : 350° 12 - 17 mph							Solar Activity:	Low
	Probability of Violating Weather Constraints								
Delay	10% Primary Concerns: Cumulus Cloud Rule								
	Weather Conditions						Additional Risk Criteria		
24-Hour	Weather/Visi	bility:	None / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Moderate
24.	Temp/Humidity:		60°F / 68%	Stratocumulus	Few	3,500	5,000	Booster Recovery Weather:	Moderate
	Liftoff Winds	(200'):	010° 10 - 15 mph					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

As Needed