

Launch Mission Execution Forecast

Falcon 9 StarlinkV1.0- L13 Mission: Issued: 17 Oct 2020 / 0645L (1045Z)

Valid: 18 Oct 2020 / 0822 – 0833L (1222 – 1233Z)



Forecast Discussion: A front is moving through Central Florida this morning, bringing drier air into the region. Winds will veer from the north to the northeast this afternoon, with a tight pressure gradient causing breezy conditions along the coast through the weekend into next week. Tomorrow morning, some low level moisture will begin to move back north into the area, but mid and upper levels are expected to remain dry. This, combined with the brisk east/northeast flow, will bring some quick onshore-moving showers from the Atlantic tomorrow morning. While sustained wind speeds are expected to remain under the threshold, they could become briefly elevated in showers or gusts. Therefore, the primary concerns for launch day are the Cumulus Cloud Rule and Liftoff Winds.

On Monday, the pattern will be very similar, with continued breezy northeasterly winds and a similar moisture profile. The primary concerns for the backup day are again the Cumulus Cloud Rule and Liftoff Winds.

	Probability of Violating Weather Constraints								
Day	30% Primary Concerns: Cumulus Cloud Rule, Liftoff Winds								
ch	Weather Conditions							Additional Risk Criteria	
aunch	Weather/Visi	bility:	Iso Showers / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
Ľ	Temp/Humid	ity:	78°F / 80%	Cumulus	Scattered	2,500	10,000	Booster Recovery Weather:	Moderate
	Liftoff Winds	(200'):	070° 17 - 22 mph					Solar Activity:	Low
	Probability of Violating Weather Constraints								
Delay	30% Primary Concerns: Cumulus Cloud Rule, Liftoff Winds								
	Weather Conditions							Additional Risk Criteria	
-Hour	Weather/Visibility: Iso Showers / 7 mi.		Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
24	Temp/Humid	ity:	77°F / 85%	Cumulus	Scattered	2,500	12,000	Booster Recovery Weather:	Moderate
	Liftoff Winds	(200'):	060° 17 - 22 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 Required