

Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 4-12

Issued: 18 Mar 2022 / 0830L (1230Z)

Valid: 18 Mar 2022 / 2313 – 0043L (19/0314 – 0443Z)



Forecast Discussion: Strong low pressure will continue to move into the Midwest while a cold front trails south from the low. The front is expected to remain west of the Space Coast area through the launch window. The models continue their trend of developing showers over the central Florida peninsula during the late afternoon and moving them eastward toward the coast. The latest guidance suggests that the showers will diminish as they reach the coast. The primary concern for tonight's launch attempt is the Cumulus Cloud Rule.

In the event of a 24-hour delay, the front moves into and then stalls across northern Florida. The models once again develop showers ahead of the boundary over eastern Florida late tomorrow afternoon. The showers should once again be scattered in nature. The primary concern for the back-up day is the Cumulus Cloud Rule.

	Probability of Violating Weather Constraints ¹									
Day	30% Primary Concerns: Cumulus Cloud Rule									
ch	Weather Conditions							Additional Risk Criteria ²		
aunch	Weather/Visi	bility:	Sct Shwrs / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
Ľ	Temp/Humid	lity:	70°F / 93%	Cumulus	Scattered	2,500	12,000	Booster Recovery Weather:	Low	
	Liftoff Winds	(200') :	180° 15 - 20 mph					Solar Activity:	Low	
	Probability of Violating Weather Constraints									
Delay	30% Primary Concerns: Cumulus Cloud Rule									
	Weather Conditions							Additional Risk Criteria		
24-Hour	Weather/Visi	Weather/Visibility: Sct Shwrs / 7 mi.		Clouds Type Coverage Bas		Base (ft)	Base (ft) Tops (ft)	Upper-Level Wind Shear:	Low	
24-	Temp/Humid	lity:	70°F / 100%	Cumulus	Scattered	2,500	12,000	Booster Recovery Weather:	Moderate to High	
	Liftoff Winds		040040 47 1					Solar Activity:	Low	
		(200') :	210° 12 - 17 mpn						LOW	
otes	1. The Proba	ability of V	iolation (PoV) is the chan		•			ing anytime during the launch windo t include all phenomena within each	w.	
Notes	1. The Proba	ability of V	iolation (PoV) is the chan eria, which are not include	ed in the PoV, are	e mission-specific	constraint	s that may no	 ing anytime during the launch windo	w.	

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