

Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 5-2

Issued: 25 Jan 2023 / 0800L (1300Z)

Valid: 26 Jan 2023 / 0402-0624L (0902-1124Z)



Forecast Discussion: A strong low pressure area is moving through the Ohio Valley while its trailing cold front is moving across the Florida Panhandle. Although this cold front will weaken as the low pressure area tracks north, the boundary will be very close to the Spaceport during the launch window Thursday morning. The launch weather concerns are the Cumulus Cloud Rule, the Surface Electric Field Rule, and the Thick Cloud Layers Rule, all associated with the front.

Skies will clear through the day Thursday, with temperatures hovering in the low 60s as high pressure pushes into the Gulf Coast States. The only launch weather concern early Friday morning will be Liftoff Winds.

	Probability of Violating Weather Constraints ¹									
Day	30% Primary Concerns: Cumulus Cloud Rule, Surface Electric Field Rule, Thick Cloud Layers Rule									
ıch	Weather Conditions							Additional Risk Criteria ²		
aunch	Weather/Visi	bility:	Isold Showers / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low-Mod	
_	Temp/Humid	ity:	60°F / 90%	Cumulus	Scattered	3,000	12,000	Booster Recovery Weather:	Low	
	Liftoff Winds	(200')	270° 15 - 20 mph	Altostratus	Broken	10,000	14,000	Solar Activity:	Low	
	Probability of Violating Weather Constraints									
Delay	10%	10% Primary Concerns: Liftoff Winds								
	Weather Conditions							Additional Risk Criteria		
24-Hour	Weather/Visibility: None / 7 mi.			Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
24	Temp/Humid	ity:	47°F / 70%	Stratocumulus	Few	2,500	4,000	Booster Recovery Weather:	Low	
	Liftoff Winds (200') : 330° 17 - 22 mph							Solar Activity:	Low	
Notes	 The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window Additional Risk Criteria, which are not included in the PoV, are mission-specific constraints that may not include all phenomena within each risk factor 									
Next Forecast Will Be Issued As Required										