

Launch Mission Execution Forecast

Falcon 9 Starlink 5-1 Mission:

Issued:

27 Dec 2022 / 0800L (1300Z) Valid: 28 Dec 2022 / 0430 - 0632L (0930 - 1132Z)



Forecast Discussion: An upper level trough currently situated over the eastern Gulf of Mexico will cross the state today and lift out across the Atlantic tonight. At the surface, another high pressure system spreads across the Southeast US, bringing clearing skies to the region this afternoon and overnight. Favorable local weather is expected for Wednesday and Thursday, with only a very slim threat of low-topped cumulus clouds interfering with the launch opportunities either morning.

Launch Day	Probability of Violating Weather Constraints ¹										
	<10%	10% Primary Concerns: Cumulus Cloud Rule									
	Weather Conditions								Additional Risk Criteria ²		
	Weather/Visibility:		None /7 n	ni.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
	Temp/Humid	ity:	53°F / 85%		Cumulus	Few	3,000	6,000	Booster Recovery Weather:	Moderate	
	Liftoff Winds (200'): 020° 10 - 15			5 mph					Solar Activity:	Low	
-Hour Delay	Probability of Violating Weather Constraints										
	10%	10% Primary Concerns: Cumulus Cloud Rule									
	Weather Conditions							Additional Risk Criteria			
	Weather/Visibility: None / 7 m		ii.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low		
24	Temp/Humidity: 60°F / 85%		D	Cumulus	Scattered	3,000	9,000	Booster Recovery Weather:	Low		
	Liftoff Winds (200'): 090° 10 - 15 mph			5 mph					Solar Activity:	Low	
tes	 The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring anytime 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 factorial structure. 										
No	See https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf for more information										
Next	Next Forecast Will Be Issued As Requested										