

Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 4-3

Issued: 1 Dec 2021 / 1000L (1500Z) Valid: 2 Dec 2021 / 1657 – 1857L (2157 – 2357Z)



Forecast Discussion: Surface high pressure will remain in control of the weather from the eastern Gulf of Mexico, the southeast US and the adjacent Atlantic waters. Low level moisture will continue to be rather limited so any cumulus clouds that are able to develop will be very isolated. The primary concern for launch day will be the Cumulus Cloud Rule.

In the event of a 24-hour delay, conditions are not expected to change. The surface ridge remains firmly entrenched over the northeastern Gulf of Mexico. Once again, expect meager moisture available for cloud development. The primary concern for the back up day will be the Cumulus Cloud Rule.

	Probability of Violating Weather Constraints										
Day	<10% Primary Concerns: Cumulus Cloud Rule										
lch	Weather Conditions							Additional Risk Criteria			
aunch	Weather/Visi	bility:	None / 7 m	ni.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
	Temp/Humid	ity:	69°F / 70%	, D	Cumulus	Few	3,000	6,000	Booster Recovery Weather:	Low	
	Liftoff Winds	(200') :	040° 10 - 1	I5 mph					Solar Activity:	Low	
	Probability of Violating Weather Constraints										
Delay	<10% Primary Concerns: Cumulus Cloud Rule										
	Weather Conditions								Additional Risk Criteria		
24-Hour	Weather/Visibility: None / 7 mi. Temp/Humidity: 68°F / 70%			ni.	Туре	Clouds Coverage	5	Tops (ft)	Upper-Level Wind Shear:	Low	
24				, D	Cumulus	Few	3,000	6,000	Booster Recovery Weather:	Low	
	Liftoff Winds (200'): 030° 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 Required											