



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-28

Issued: 16 Nov 2023 / 0900L (1400Z)

Valid: 17 Nov 2023 / 2300 – 18/0300L (18/0400 – 0800Z)



Forecast Discussion: A low that formed overnight near Miami is expected to move northeastward, bringing strong onshore winds and precipitation to the Cape through Friday morning. By Friday night, that low is expected to have moved far enough east for local weather conditions to improve. The primary concern for launch day will be liftoff winds, with a chance of cumulus cloud rule violations as well. By Saturday, the risk of a weather violation should lower as winds weaken and the mid and lower levels of the atmosphere get drier.

For both days, seas and weather conditions in the recovery area appear favorable, with slightly better conditions on Saturday.

		Probability of Violating Weather Constraints ¹					
Launch Day	40%	Primary Concerns: Liftoff Winds, Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria ²		
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear:	Low
	Temp/Humidity: 69°F / 95%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
Liftoff Winds (200'): 330° 15 - 25 mph	Cumulus	Scattered	3,000	8,500	Solar Activity:	Low	
		Probability of Violating Weather Constraints					
24-Hour Delay	10%	Primary Concerns: Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria		
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear:	Low
	Temp/Humidity: 68°F / 90%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
Liftoff Winds (200'): 350° 10 - 18 mph	Cumulus	Few	3,000	7,500	Solar Activity:	Low	
Notes	<ol style="list-style-type: none"> 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. 						
	See https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf for more information						
Next Forecast Will Be Issued		As Required					