



Launch Mission Execution Forecast

Mission: Falcon 9 Starfall Demo

Issued: 22-Jun-26 / 1000L (1400Z)

Valid: 23-Jun-26 / 0643 – 0743L (1043 – 1143Z)
24-Jun-26 / 0643 – 0743L (1043 – 1143Z)



Forecast Discussion: A ridge of high pressure established over South Florida will continue to promote generally offshore flow across East Central Florida for the first half of the week. This pattern favors shower and thunderstorm chances peaking in the afternoon and evening hours, developing along the sea breeze pinned closer to the eastern coastline. In the overnight hours, convective activity will remain well offshore over the warm waters of the Gulf Stream with zonal westerly winds aloft. Given this pattern and moisture levels returning to near-average levels for this time of year, concerns for violating launch criteria are low for both the primary and backup attempts. The only concern each day is the Cumulus Cloud Rule, with a slightly higher chance of a morning shower on Wednesday morning due to an approaching boundary.

Launch Day	Probability of Violating Weather Constraints ¹							
	5%	Primary Concerns: Cumulus Cloud Rule						
	Weather Conditions					Additional Risk Criteria ²		
	Weather/Visibility:	None / 7+ mi	Type	Clouds Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
	Temp/Humidity:	79°F / 90%	Cumulus	Few	2,500	10,000	Solar Activity:	Low
	Liftoff Winds (200'): 260° 7 - 12 mph							
24-Hour Delay	Probability of Violating Weather Constraints ¹							
	10%	Primary Concerns: Cumulus Cloud Rule						
	Weather Conditions					Additional Risk Criteria		
	Weather/Visibility:	None / 7+ mi	Type	Clouds Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
	Temp/Humidity:	79°F / 95%	Cumulus	Few	2,500	10,000	Solar Activity:	Low
	Liftoff Winds (200'): 270° 7 - 12 mph		Cirrus	Scattered	30,000	35,000		
Notes	1. The Probability of Violation (PoV) is the chance of a range or customer constraint violation occurring at any random time during the launch window. 2. 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 Launch FAQ https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html for more information							
	Next Forecast Will Be Issued		As Required					