



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-99

Issued: 16 Dec 2025 / 0900L (1400Z)

Valid: 17 Dec 2025 / 0719 – 1119L (17/1219 – 1619Z)



Forecast Discussion: High pressure over the southeastern states will persist before the next cold front is expected to pass through by Friday. No change to the primary launch window forecast, with low chances of Cumulus Cloud Rule violation associated with isolated onshore-moving low-topped coastal showers. For the backup day, there is a higher chance of constraint violation as a mid-level trough in the Gulf moves eastward bringing a surge of moisture over central FL ahead of the front, with the Cumulus Cloud and Thick Cloud Rules being the primary concerns.

Launch Day		Probability of Violating Weather Constraints ¹					
Launch Day	5%	Primary Concerns: Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria ²		
	Weather/Visibility:	Isol Showers / 7 mi.	Clouds			Upper-Level Wind Shear:	Low
			Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:
Temp/Humidity:	67°F / 75%	Cumulus	Scattered	3,000	8,000	Solar Activity:	Low
Liftoff Winds (200'):	100° 12 - 18 mph	Cirrostratus	Broken	25,000	28,000		
24-Hour Delay		Probability of Violating Weather Constraints					
24-Hour Delay	20%	Primary Concerns: Cumulus Cloud Rule, Thick Cloud Rule					
	Weather Conditions				Additional Risk Criteria		
	Weather/Visibility:	Isol showers / 7 mi.	Clouds			Upper-Level Wind Shear:	Low
			Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:
Temp/Humidity:	68°F / 80%	Cumulus	Scattered	3,000	9,000	Solar Activity:	Low
Liftoff Winds (200'):	130° 12 - 18 mph	Altostratus	Broken	12,000	18,000		
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 Launch FAQ https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html for more information 						
	Next Forecast Will Be Issued	As Needed					