



Launch Mission Execution Forecast

Mission: Falcon 9 SXM-11

Issued: 26-Jun-26 / 1100L (1500Z)

Valid: 28-Jun-26 / 2225 – 29/0221L (29/0225 – 0621Z)
29-Jun-26 / 2225 – 30/0221L (30/0225 – 0621Z)



Forecast Discussion: Surface ridge axis just south of the Spaceport moves slightly north today into tomorrow, before getting shunted back south Sunday into early next week as an area of low pressure forms across the Carolinas. Flow aloft will be weak, with a slight onshore component developing over the weekend. While afternoon and early evening thunderstorms are possible in our area the next couple of days, the focus for activity is likely to shift to the central and western part of the peninsula during the later evening and overnight hours while associated clouds thin through the night. Thus, generally favorable weather is expected for the primary launch window. The risk of weather violations appears higher for the backup launch opportunity as the Carolina low pressure area dents our ridge and drags a front into north Florida, although there remains considerable model inconsistency on any one solution at this time.

Launch Day	Probability of Violating Weather Constraints ¹					
	10%	Primary Concerns: Cumulus Cloud Rule , Anvil Cloud Rules				
	Weather Conditions					Additional Risk Criteria ²
	Weather/Visibility: None / 7+ mi	Type	Clouds		Coverage	Booster Recovery Weather: Low
	Temp/Humidity: 80°F / 85%	Cumulus	Scattered	Base (ft)	Tops (ft)	Solar Activity: Low
24-Hour Delay	Liftoff Winds (200'): 160° 10 - 15 mph	Cirrostratus	Scattered	22,000	26,000	
	Probability of Violating Weather Constraints ¹					
	20%	Primary Concerns: Cumulus Cloud Rule , Anvil Cloud Rules				
	Weather Conditions					Additional Risk Criteria
	Weather/Visibility: Isol Showers / 7+ mi	Type	Clouds		Coverage	Booster Recovery Weather: Low
Notes	Temp/Humidity: 78°F / 90%	None	Scattered	3,000	16,000	Solar Activity: Low
	Liftoff Winds (200'): 170° 10 - 15 mph	Altostratus	Scattered	14,000	18,000	
	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		27 June 2026				