

Launch Mission Execution Forecast

Mission: Falcon 9 IMAP

Issued: 21 Sept 2025 / 0645L (1045Z)

Valid: 23 Sept 2025 / 0720 – 0740L (1120 – 1140Z)



Forecast Discussion: Below normal rain chances will continue for the Spaceport today and most of Monday with the area in between the lingering boundary across the southern half of the state and high pressure nosing down the coast of the eastern US. There will be modest moisture return throughout the day on Monday, especially in the mid and upper levels, with the approach and passage of a weak mid-level disturbance. This feature looks to bring a modest increase in rain chances around the primary launch window Tuesday morning, though the light and likely offshore flow should focus activity offshore. The main launch weather concern continues to be with the mid and upper level clouds from either anvils from eastern Gulf storms or thick mid-level clouds moving up from the south-southwest.

The mid-level feature moves through the Spaceport by the backup window Wednesday morning pushing the midupper-level cloud deck to the south and east. Drier air will limit rain chances but not eliminate them completely and there remains low chances for any activity over the Atlantic to move cloud enough to be a concern.

	Probability of Violating Weather Constraints ¹								
Day	25% Primary Concerns: Thick Cloud Layers Rule, Anvil Cloud Rules, Cumulus Cloud Rule								
ch	Weather Conditions							Additional Risk Criteria ²	
aunch	Weather/Visi	bility:	Iso Showers / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
_	Temp/Humid	ity:	78°F / 95%	Cumulus	Scattered	3,000	10,000	Booster Recovery Weather:	Low
	Liftoff Winds	(200'):	VRB 5 mph	Cirrostratus	Broken	18,000	28,000	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.		Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
24	Temp/Humid	Temp/Humidity: 78°F / 90%		Cumulus	Scattered	3,500	8,000	Booster Recovery Weather:	Low
	Liftoff Winds (200'): VRB 5 mph		Altostratus	Scattered	14,000	17,000	Solar Activity:	Low	
		(200).	•						
Notes	The Proba Additional	bility of \	/iolation (PoV) is the chance	d in the PoV, are	mission-specific	constraints	s that may no	I ing any random time during the laun t include all phenomena within each upport.html for more information	