

Launch Mission Execution Forecast

Mission: Falcon 9 Bandwagon-4

Issued: 1 Nov 2025 / 1100L (1500Z)

Valid: 2 Nov 2025 / 0100 – 0120L (0500 – 0520Z)



Forecast Discussion: A broad area of high pressure centered across the southeastern US will slide off to the north and east over the next day, allowing the next cold front to move into Florida by late Sunday. Ahead of this system, a very dry airmass remains in place with models showing no significant moisture advection until well after the primary launch window late tonight. There may be enough low-level moisture for a low-topped cumulus/stratocumulus deck, or even a few showers out over the open Atlantic, but this activity continues to look too warm to pose a meaningful launch weather concern for the primary launch window.

Models remain pessimistic about how much precipitation holds together with the boundary as it arrives into the Spaceport late on Sunday. Timing however does put the peak of rain chances around the time of the backup window early on Monday. The main threat will likely come from a mid to upper layer cloud deck encouraged by the strong midlevel trough and upper-level jet accompanying the surface front. The primary concern for the backup window will be the Thick Cloud Layers Rule, with a lower threat for Cumulus Clouds accompanying any nearby showers.

		Proba	ability of Vi	olating We	eather (Constrai	nts¹		
5%	5% Primary Concerns: Cumulus Cloud Rule								
Weather Conditions Weather/Visibility: None / 7 mi. Clouds Type Coverage Base (ft) Tops (ft)							Additional Risk Criteria ²		
Weather/Visi	bility : N	lone / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
Temp/Humid	ity : 6	9°F / 75%	Cumulus	Scattered	3,500	5,500	Booster Recovery Weather:	Low	
Liftoff Winds	(200') : V	'RB 5 mph					Solar Activity:	Low	
		Prob	ability of Vi	iolating W	eather	Constra	ints		
20%	20% Primary Concerns: Thick Cloud Layers Rule, Cumulus Cloud Rule								
20% Primary Concerns: Thick Cloud Layers Rule, Cumulus Cloud Rule Weather Conditions Weather/Visibility: Sct. Showers / 7 mi. Type Clouds Coverage Base (ft) Tops (ft)							Additional Risk Criteria		
Weather/Visibility: Sct. Showers / 7 m		sct. Showers / 7 mi.	Type	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low-Mod	
Temp/Humid	ity : 7	1°F / 80%	Cumulus	Scattered	3,500	9,000	Booster Recovery Weather:	Low	
Liftoff Winds	(200') : 3	00° 7 - 12 mph	Altostratus	Broken	14,000	18,000	Solar Activity:	Low	
		leties (De) () is the above	re of a local safety	v or customer co	onstraint vio	olation occurr	ing any random time during the laun	oh window	
	Weather/Visil Temp/Humid Liftoff Winds 20% Weather/Visil Temp/Humid	Weather/Visibility: No Temp/Humidity: 6 Liftoff Winds (200'): Volume 20% Primary Weather/Visibility: S Temp/Humidity: 7	Weather Weather/Visibility: None / 7 mi. Temp/Humidity: 69°F / 75% Liftoff Winds (200°): VRB 5 mph Proba 20% Primary Concerns: Thick Weather Weather/Visibility: Sct. Showers / 7 mi.	Weather Condition Weather/Visibility: None / 7 mi. Temp/Humidity: 69°F / 75% Cumulus Liftoff Winds (200°): VRB 5 mph Probability of Vi 20% Primary Concerns: Thick Cloud Layer Weather Condition Weather/Visibility: Sct. Showers / 7 mi. Temp/Humidity: 71°F / 80% Type Cumulus	Weather/Visibility: None / 7 mi. Temp/Humidity: 69°F / 75% Liftoff Winds (200'): VRB 5 mph Probability of Violating Weather Conditions Weather Conditions Weather Conditions Weather/Visibility: Sct. Showers / 7 mi. Type Coverage Cumulus Scattered Clouds Coverage Cumulus Scattered Clouds Coverage Cumulus Scattered Clouds Coverage Cumulus Scattered Clouds Coverage Cumulus Scattered	Weather/Visibility: None / 7 mi. Temp/Humidity: 69°F / 75% Liftoff Winds (200'): VRB 5 mph Probability of Violating Weather Probability of Violating Weather Weather Conditions Weather/Visibility: Sct. Showers / 7 mi. Temp/Humidity: 71°F / 80% Volume Scattered 3,500 Clouds Coverage Base (ft) Cloud Layers Rule, Cumulus Cloud Coverage Base (ft)	Weather/Visibility: None / 7 mi. Temp/Humidity: 69°F / 75% Liftoff Winds (200'): VRB 5 mph Probability of Violating Weather Constra Probability of Violating Weather Constra Weather/Visibility: Sct. Showers / 7 mi. Temp/Humidity: 71°F / 80% Weather Conditions Veather Conditions Clouds Coverage Base (ft) Tops (ft)	Weather/Visibility: None / 7 mi. Temp/Humidity: 69°F / 75% Probability of Violating Weather Constraints Probability of Violating Weather Constraints Primary Concerns: Thick Cloud Layers Rule, Cumulus Cloud Rule Weather/Visibility: Sct. Showers / 7 mi. Type Coverage Base (ft) Tops (ft) Booster Recovery Weather: Solar Activity: Additional Risk Crivative: Booster Recovery Weather: Solar Activity: Additional Risk Crivative: Coverage Base (ft) Tops (ft) Solar Activity: Clouds Coverage Base (ft) Tops (ft) Dipper-Level Wind Shear: Solar Activity: Clouds Coverage Solar Activity: Clouds Coverage Solar Activity: Clouds Coverage Solar Activity: Additional Risk Crivative: Clouds Coverage Solar Activity: Clouds Coverage Solar Activity: Clouds Coverage Solar Activity: Booster Recovery Weather: Coverage Base (ft) Tops (ft) Solar Activity: Clouds Coverage Solar Activity: Clouds Coverage Solar Activity: Clouds Coverage Solar Activity: Booster Recovery Weather:	