



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 4-26

Issued: 06 Aug 2022 / 0830L (1230Z)

Valid: 09 Aug 2022 / 1849 – 2249L (09/2249 – 10/0249Z)



Forecast Discussion: Through Monday, the western Atlantic ridge will remain to the north of the Spaceport, allowing the sea breeze and its associated showers and storms to push quickly inland by the early afternoons. By late Monday heading into early Tuesday, the ridge axis will drift southward, causing winds at the Spaceport to become from the southeast and reducing available moisture. This will favor early-morning showers along the coast and afternoon storms over the interior, with easterly upper-level flow pushing anvils away from the Spaceport. Thus, primary launch day conditions are favorable for launch, although occasional Atlantic showers cannot be ruled out in this pattern. The primary concern during Tuesday’s launch window is the Cumulus Cloud Rule.

Conditions look to remain largely similar for a backup attempt on Wednesday. However, available moisture will continue to decrease and chances for those occasional evening Atlantic showers will drop correspondingly. The primary concern during the backup window remains the Cumulus Cloud Rule.

Launch Day	Probability of Violating Weather Constraints ¹					
	30%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria ²	
	Weather/Visibility: Isold Showers / 7 mi.	Clouds		Upper-Level Wind Shear: Low		
	Type	Coverage	Base (ft)	Tops (ft)		
Temp/Humidity: 84°F / 80%	Cumulus	Few	3,500	12,000	Booster Recovery Weather: Low	
Liftoff Winds (200’): 130° 10 - 15 mph					Solar Activity: Low	

24-Hour Delay	Probability of Violating Weather Constraints					
	20%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds		Upper-Level Wind Shear: Low		
	Type	Coverage	Base (ft)	Tops (ft)		
Temp/Humidity: 84°F / 74%	Cumulus	Few	3,500	8,000	Booster Recovery Weather: Low	
Liftoff Winds (200’): 140° 7 - 12 mph					Solar Activity: Low	

Notes

1. The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring anytime 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 <https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf> for more information

Next Forecast Will Be Issued 07 AUG 2022