



Launch Mission Execution Forecast



Mission: Falcon 9 GSAT-20

Issued: 17 Nov 2024 / 0830L (1330Z)

Valid: 18 Nov 2024 / 1331 – 1520L (1831– 2020Z)

Forecast Discussion: High pressure will be just off the coast in the Atlantic by the launch window, bringing mostly clear skies and light onshore winds. Abundant dry air will exist above the very lowest levels, so there is very little concern for any violations due to clouds. The high will only move slightly farther to the east by Tuesday, so little change in forecast conditions is expected for the backup window ahead of the next approaching front midweek.

Launch Day	Probability of Violating Weather Constraints ¹				
	<5%	Primary Concerns: Cumulus Cloud Rule			
	Weather Conditions			Additional Risk Criteria ²	
	Weather/Visibility: None / 7 mi. Temp/Humidity: 76°F / 60% Liftoff Winds (200'): 120° 7 - 12 mph	Clouds Type Coverage Base (ft) Tops (ft) Stratocumulus Few 2,500 5,000		Upper-Level Wind Shear: Low Booster Recovery Weather: Low Solar Activity: Low	
24-Hour Delay	Probability of Violating Weather Constraints				
	<5%	Primary Concerns: Cumulus Cloud Rule			
	Weather Conditions			Additional Risk Criteria	
	Weather/Visibility: None / 7 mi. Temp/Humidity: 67°F / 75% Liftoff Winds (200'): 160° 10 - 15 mph	Clouds Type Coverage Base (ft) Tops (ft) Cumulus Few 2,500 6,000		Upper-Level Wind Shear: Low Booster Recovery Weather: Low Solar Activity: Low	
Notes	1. The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring 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 https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf for more information				
	Next Forecast Will Be Issued	As Needed			