



Launch Mission Execution Forecast

Mission: Falcon 9 Digital Globe 2

Issued: 14 Aug 2024 / 1100L (1500Z)

Valid: 15 Aug 2024 / 0900 – 1000L (1300 – 1400Z)



Forecast Discussion: A front will continue to dig into Central Florida throughout the day today and into tomorrow morning, which could generate some isolated showers and thunderstorms nearby the spaceport. The progression of the frontal boundary has slowed since yesterday, with a band of convergence expected to reach the spaceport by 1300L (1700Z) on Thursday afternoon. The main concern will be isolated showers activity and a potential Cumulus Cloud Rule violation ahead of the convergent boundary during the primary launch window.

For the backup day, surface high pressure will build off the Southeast U.S. coastline and help transport drier air across the area on Friday, lowering chances for precipitation. The Cumulus Cloud Rule will be the main concern for the backup window as well, with slightly lower chances for violation.

Launch Day		Probability of Violating Weather Constraints ¹					
		20%	Primary Concerns: Cumulus Cloud Rule				
		Weather Conditions				Additional Risk Criteria ²	
		Weather/Visibility: Iso Showers / 7 mi.	Clouds			Upper-Level Wind Shear: Low-Mod	
			Type	Coverage	Base (ft)	Tops (ft)	
		Temp/Humidity: 82°F / 84%	Cumulus	Scattered	2,500	12,000	Solar Activity: Low
		Liftoff Winds (200'): 040° 5 - 10 mph	Cirrus	Scattered	25,000	30,000	
24-Hour Delay		Probability of Violating Weather Constraints					
		10%	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: 81°F / 70%	Cumulus	Few	2,500	9,000	Solar Activity: Low
		Liftoff Winds (200'): 050° 8 - 13 mph					
Notes	<ol style="list-style-type: none"> The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window. 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					