



Launch Mission Execution Forecast



Mission: Falcon 9 EUCLID

Issued: 30 Jun 2023 / 0900L (1300Z)

Valid: 1 Jul 2023 / 1106 – 1117L (1506 – 1517Z)

Forecast Discussion: Hot and humid conditions will persist across the area into the weekend. High pressure at the surface and aloft will control the weather across the area. With a mid-level ridge in the area, warm temperatures and low moisture in those levels will limit destabilization for showers and thunderstorms on Saturday. We will still see cumulus cloud formation from late morning into the afternoon so the primary concern will be the Cumulus Cloud Rule. In the event of a 24-hour delay, the same weather pattern will occur on Sunday. Moisture will slowly move back into the area and create slightly higher chances for showers and isolated thunderstorms in the area. Once again cumulus clouds will develop in the morning hours and the primary concern will be the Cumulus Cloud Rule.

		Probability of Violating Weather Constraints ¹				
Launch Day	10%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria ²	
	Weather/Visibility: Isold Shwrs / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
	Temp/Humidity: 85°F / 68%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 140° 10 - 15 mph	Cumulus	Scattered	2,500	10,000	Solar Activity: Low	
		Probability of Violating Weather Constraints				
24-Hour Delay	20%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: Sct Shwrs / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
	Temp/Humidity: 86°F / 70%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 170° 10 - 15 mph	Cumulus	Scattered	2,500	12,000	Solar Activity: Low	
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 requested				