



Launch Mission Execution Forecast



Mission: New Glenn Blue Ring Pathfinder

Issued: 13 January 2025 / 0300L (0800Z)

Valid: 14 January 2025 / 0100-0400L (0600-0900Z)

Forecast Discussion: Clouds will increase overnight associated with a developing disturbance in the Gulf of Mexico. This disturbance will drag a weak frontal boundary through the area tomorrow night. Expect rain showers and widespread cloudiness along the front before it passes during the window. Therefore, the primary concerns will be the Cumulus Cloud and Thick Cloud Layers Rules. Winds will pick up by the latter half of the window, so the secondary concern is Liftoff Winds.

For recovery, seas will remain 4-5 ft for the primary window and increase slowly to 5-6 ft for the backup window with gustier surface winds.

Launch Day		Probability of Violating Weather Constraints ¹					
Launch Day	70%	Primary Concerns: Cumulus Cloud Rule, Thick Cloud Layers Rule, Liftoff Winds					
	Weather Conditions			Additional Risk Criteria ²			
	Weather/Visibility:	Sct Showers / 7 mi	Clouds				Solar Activity: Low
	Temp/Humidity:	63°F / 90%	Type	Coverage	Base (ft)	Tops (ft)	
Liftoff Winds (60'):	340° 25 - 35 fps	Cumulus	Scattered	3,000	12,000	Offshore Landing Weather: Low	
		Altostratus	Broken	15,000	22,000		
48-Hour Delay		Probability of Violating Weather Constraints ¹					
48-Hour Delay	10%	Primary Concerns: Thick Cloud Rule, Liftoff Winds					
	Weather Conditions			Additional Risk Criteria			
	Weather/Visibility:	None / 7 mi.	Clouds				Solar Activity: Low
	Temp/Humidity:	55°F / 65%	Type	Coverage	Base (ft)	Tops (ft)	
Liftoff Winds (60'):	350° 16 - 26 fps	Altostratus	Scattered	8,000	11,000	Offshore Landing Weather: Low-Mod	
		Cirrostratus	Broken	25,000	28,000		
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					