



Launch Mission Execution Forecast



Mission: New Glenn Blue Ring Pathfinder

Issued: 12 January 2025 / 0700L (1200Z)

Valid: 13 January 2025 / 0100-0400L (0600-0900Z)

Forecast Discussion: High pressure will build across the area today, then a disturbance approaching the region Monday may increase mid-level clouds across the Spaceport as early as Monday morning. This disturbance will generate showers, breezy winds and widespread clouds across the Spaceport late Monday into early Tuesday. The POV is low for the primary launch window, then increases for the backup window with the concerns being the Cumulus Cloud Rule, Thick Cloud Layers Rule and Liftoff Winds.

For recovery, significant sea heights will lower to around 5-6 feet for the primary window, and lower even more to around 4-5 ft for the backup window. Winds should remain light, making a low risk for offshore landing weather on both primary and backup periods.

Launch Day	Probability of Violating Weather Constraints ¹					
	10%	Primary Concerns: Thick Cloud Layers Rule				
	Weather Conditions				Additional Risk Criteria ²	
	Weather/Visibility: None / 7 mi	Clouds			Solar Activity: Low	
Temp/Humidity: 54°F / 75%	Type	Coverage	Base (ft)	Tops (ft)	Offshore Landing Weather: Low	
Liftoff Winds (60'): 360° 9 - 15 fps	Cumulus	Few	3,000	6,000		
	Altostratus	Scattered	15,000	20,000		
24-Hour Delay	Probability of Violating Weather Constraints ¹					
	60%	Primary Concerns: Cumulus Cloud Rule, Thick Cloud Layers Rule, Liftoff Winds				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: Sct Showers / 7 mi.	Clouds			Solar Activity: Low	
Temp/Humidity: 59°F / 90%	Type	Coverage	Base (ft)	Tops (ft)	Offshore Landing Weather: Low	
Liftoff Winds (60'): 350° 25 - 35 fps	Cumulus	Scattered	3,000	12,000		
	Altostratus	Broken	15,000	22,000		
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				