



# Launch Mission Execution Forecast



**Mission:** New Glenn Blue Ring Pathfinder

**Issued:** 11 January 2025 / 1645L (2145Z)

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

**Forecast Discussion:** High pressure will build across the Southeast Sunday into Sunday night, 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 Thick Cloud Layers Rule, Cumulus Cloud Rule and Liftoff Winds.

For recovery, significant seas 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 <sup>1</sup>					
	<b>10%</b>	Primary Concerns: Thick Cloud Layers Rule				
	Weather Conditions				Additional Risk Criteria <sup>2</sup>	
	<b>Weather/Visibility:</b> None / 7 mi	<b>Clouds</b>				<b>Solar Activity:</b> Low
<b>Temp/Humidity:</b> 52°F / 77%	Type	Coverage	Base (ft)	Tops (ft)		
<b>Liftoff Winds (60'):</b> 340° 8 - 15 fps	Cumulus	Few	3,000	6,000	<b>Offshore Landing Weather:</b> Low	
	Altostratus	Scattered	15,000	20,000		
24-Hour Delay	Probability of Violating Weather Constraints <sup>1</sup>					
	<b>50%</b>	Primary Concerns: Cumulus Cloud Rule, Liftoff Winds, Thick Cloud Layers Rule				
	Weather Conditions				Additional Risk Criteria	
	<b>Weather/Visibility:</b> Sct Showers / 7 mi.	<b>Clouds</b>				<b>Solar Activity:</b> Low
<b>Temp/Humidity:</b> 59°F / 90%	Type	Coverage	Base (ft)	Tops (ft)		
<b>Liftoff Winds (60'):</b> 350° 25 - 35 fps	Cumulus	Scattered	3,000	12,000	<b>Offshore Landing Weather:</b> Low	
	Altostratus	Scattered	15,000	22,000		
Notes	<ol style="list-style-type: none"> <li>The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window.</li> <li>Additional Risk Criteria, which are not included in the PoV, are mission-specific constraints that may not include all phenomena within each risk factor.</li> </ol>					
	See <a href="https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf">https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf</a> for more information					
<b>Next Forecast Will Be Issued</b>		12 Jan 2025				