



# Launch Mission Execution Forecast



**Mission:** New Glenn Blue Ring Pathfinder

**Issued:** 15 January 2025 / 0800L (1300Z)

**Valid:** 16 January 2025 / 0100-0400L (0600-0900Z)

**Forecast Discussion:** A developing area of low pressure situated across the western Gulf of Mexico will bring increasing clouds to Central Florida today and tonight, with upstream observations and model guidance suggesting a higher risk of Thick Cloud Layers concerns compared to yesterday's forecast for tonight's launch attempt. This slug of mid-level moisture is expected to get stripped off from the parent low and thin out by Thursday night as surface high pressure builds south into Florida, yielding improved weather prospects for the backup launch opportunity.

For booster recovery conditions, seas will build into the 6-7 feet range for the primary window, with similar to slightly lower seas for Friday morning. Winds will be acceptable for landing on both primary and backup landing opportunities although an increase in winds is expected for the backup day.

Launch Day	Probability of Violating Weather Constraints <sup>1</sup>					
	<b>60%</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> 55°F / 75%	Type	Coverage	Base (ft)	Tops (ft)	<b>Offshore Landing Weather:</b> Moderate	
<b>Liftoff Winds (60'):</b> 010° 14 - 24 fps	Cumulus	Few	3,000	6,000		
	Altostratus	Broken	12,000	17,000		
24-Hour Delay	Probability of Violating Weather Constraints <sup>1</sup>					
	<b>10%</b>	Primary Concerns: Thick Cloud Layers Rule, Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	<b>Weather/Visibility:</b> None / 7 mi.	<b>Clouds</b>			<b>Solar Activity:</b> Low	
<b>Temp/Humidity:</b> 50°F / 80%	Type	Coverage	Base (ft)	Tops (ft)	<b>Offshore Landing Weather:</b> Moderate	
<b>Liftoff Winds (60'):</b> 310° 15 - 25 fps	Cumulus	Scattered	3,000	9,000		
	Cirrostratus	Scattered	22,000	26,000		
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 <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>		As Required				