



Launch Mission Execution Forecast



Mission: New Glenn Blue Ring Pathfinder

Issued: 11 January 2025 / 0700L (1200Z)

Valid: 12 January 2025 / 0100-0400L (0600-0900Z)

Forecast Discussion: A cold front will dig across the Spaceport this morning, with isolated showers and breezy winds. Conditions will improve tonight; however, mid-level clouds could linger across the area near the beginning of the primary launch window. 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. The POV overall is low for the primary and backup launch windows, with the concerns being the Thick Cloud Layers Rule.

For recovery, significant seas heights may increase to 10-feet during the primary launch window, then decrease shortly after. Seas could lower to around 5 feet by the backup window. Wind gusts near 35 fps are expected during the primary window, then lower for the backup window, with overall moderate risk for the primary recovery conditions and low for the backup recovery conditions.

Launch Day	Probability of Violating Weather Constraints ¹																
	15 → 5%	Primary Concerns: Thick Cloud Layers Rule															
	Weather Conditions				Additional Risk Criteria ²												
	Weather/Visibility: None / 7 mi	<table border="1"> <thead> <tr> <th>Type</th> <th>Coverage</th> <th>Base (ft)</th> <th>Tops (ft)</th> </tr> </thead> <tbody> <tr> <td>Cumulus</td> <td>Few</td> <td>3,000</td> <td>6,000</td> </tr> <tr> <td>Altostratus</td> <td>Scattered</td> <td>15,000</td> <td>20,000</td> </tr> </tbody> </table>			Type	Coverage	Base (ft)	Tops (ft)	Cumulus	Few	3,000	6,000	Altostratus	Scattered	15,000	20,000	Solar Activity:
Type	Coverage	Base (ft)	Tops (ft)														
Cumulus	Few	3,000	6,000														
Altostratus	Scattered	15,000	20,000														
Temp/Humidity: 49°F / 77%																	
Liftoff Winds (60'): 330° 16 - 23 fps																	
	Offshore Landing Weather: Mod																
24-Hour Delay	Probability of Violating Weather Constraints ¹																
	10%	Primary Concerns: Thick Cloud Layers Rule															
	Weather Conditions				Additional Risk Criteria												
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Type	Coverage	Base (ft)	Tops (ft)														
Cumulus	Few	3,000	6,000														
Altostratus	Scattered	13,000	18,000														
Temp/Humidity: 54°F / 70%																	
Liftoff Winds (60'): 340° 9 - 15 fps																	
	Offshore Landing Weather: Low																
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 Required															