



Launch Mission Execution Forecast

Mission: New Glenn ESCAPADE

Issued: 8 November 2025 / 0800L (1300Z)

Valid: 9 November 2025 / 1445-1613L (1945-2113Z)



Forecast Discussion: A low-pressure system will develop over the Midwest today and track to the northeast, dragging a cold front into the Florida peninsula on Sunday. As the front approaches the region from the northwest, there will be enough moisture and instability in place for showers and thunderstorms to form ahead of and along the front. A few strong to severe thunderstorms may develop Sunday afternoon, with a small chance of a thunderstorm wind gust near 80 fps. The main concerns are the Cumulus Cloud Rule, Surface Electric Fields Rule and Anvil Cloud Rules associated with these showers/storms.

Sunday night into Monday morning, the front will pass through the area. Behind the front, winds will increase and shift to the northwest as the pressure gradient tightens, ushering in much cooler and drier air. The only concern for the backup day across the Spaceport is winds approaching liftoff constraints, however conditions at the recovery site begin to deteriorate on Monday.

Launch Day	Probability of Violating Weather Constraints ¹						
	35→45%		Primary Concerns: Cumulus Cloud Rule, Surface Electric Fields Rule, Anvil Cloud Rules				
	Weather Conditions					Additional Risk Criteria ²	
	Weather/Visibility: Isol T-Storms / 7 mi		Clouds				Solar Activity: Low-Mod
	Temp/Humidity: 80°F / 75%		Type	Coverage	Base (ft)	Tops (ft)	
Liftoff Winds (60'): 210° 12 - 20 fps		Cumulus	Scattered	2,000	15,000	Offshore Landing Weather: Low	
		Cirrus	Scattered	30,000	35,000		
24-Hour Delay	Probability of Violating Weather Constraints ¹						
	25%		Primary Concerns: Liftoff Winds				
	Weather Conditions					Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.		Clouds				Solar Activity: Low-Mod
	Temp/Humidity: 65°F / 49%		Type	Coverage	Base (ft)	Tops (ft)	
Liftoff Winds (60'): 310° 23 - 26 P 33 fps		Cirrus	Few	32,000	36,000	Offshore Landing Weather: Moderate	
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 Launch FAQ https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html for more information							
Next Forecast Will Be Issued			As Required				