



# Launch Mission Execution Forecast



**Mission:** New Glenn ESCAPEDE

**Issued:** 11 November 2025 / 0815L (1315Z)

**Valid:** 12 November 2025 / 1450-1617L (1950-2117Z)

**Forecast Discussion:** Cold and windy conditions will continue across the Spaceport today. While peak wind gusts may reach near 50 fps this morning, surface high pressure building across the Southeast by the middle of the week will help create weaker winds and favorable weather conditions across the Spaceport during the primary and back up launch opportunities. Winds will diminish across the recovery site on Wednesday, and although waves will remain elevated, they are expected to continue to lower through Thursday. Increased X-Ray Flares and Proton Flux activity will create a moderate risk of solar activity during both primary and back up launch opportunities.

| Probability of Violating Weather Constraints <sup>1</sup>   |  |   |                        |               |  |  |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |
|---|--|---|------------------------|---------------|--|--|--|---|---------------|--|--|--|--|------|----------|-----------|-----------|---------|-----|--------|--------|--|--------|-----|--------|--------|
| <b>Launch Day</b>   | <table border="1"> <tr> <td style="text-align: center;"><b>&lt;5%</b></td> <td>Primary Concerns: None</td> </tr> </table>  | <b>&lt;5%</b>   | Primary Concerns: None |               |  |  |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |
|   | <b>&lt;5%</b>  | Primary Concerns: None                                    |                        |               |  |  |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |
|   | <table border="1"> <thead> <tr> <th colspan="4">Weather Conditions</th> <th colspan="2">Additional Risk Criteria<sup>2</sup></th> </tr> </thead> <tbody> <tr> <td rowspan="3"> <b>Weather/Visibility:</b> None / 7 mi.<br/> <b>Temp/Humidity:</b> 67°F / 49%<br/> <b>Liftoff Winds (60'):</b> 350° 11-19 fps                 </td> <td colspan="4" style="text-align: center;"><b>Clouds</b></td> <td rowspan="3"> <b>Solar Activity:</b> <span style="background-color: yellow;">Moderate</span><br/><br/> <b>Offshore Landing Weather:</b> <span style="background-color: yellow;">Moderate</span> </td> </tr> <tr> <td>Type</td> <td>Coverage</td> <td>Base (ft)</td> <td>Tops (ft)</td> </tr> <tr> <td>Cumulus</td> <td>Few</td> <td>2,000</td> <td>4,000</td> </tr> <tr> <td></td> <td>Cirrus</td> <td>Few</td> <td>32,000</td> <td>34,000</td> </tr> </tbody> </table> | Weather Conditions  |                        |               |  | Additional Risk Criteria <sup>2</sup>  |  | <b>Weather/Visibility:</b> None / 7 mi.<br><b>Temp/Humidity:</b> 67°F / 49%<br><b>Liftoff Winds (60'):</b> 350° 11-19 fps | <b>Clouds</b> |  |  |  | <b>Solar Activity:</b> <span style="background-color: yellow;">Moderate</span><br><br><b>Offshore Landing Weather:</b> <span style="background-color: yellow;">Moderate</span> | Type | Coverage | Base (ft) | Tops (ft) | Cumulus | Few | 2,000  | 4,000  |  | Cirrus | Few | 32,000 | 34,000 |
|   | Weather Conditions   |   |                        |               | Additional Risk Criteria <sup>2</sup>  |  |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |
| <b>Weather/Visibility:</b> None / 7 mi.<br><b>Temp/Humidity:</b> 67°F / 49%<br><b>Liftoff Winds (60'):</b> 350° 11-19 fps   | <b>Clouds</b>  |   |                        |               | <b>Solar Activity:</b> <span style="background-color: yellow;">Moderate</span><br><br><b>Offshore Landing Weather:</b> <span style="background-color: yellow;">Moderate</span> |  |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |
|   | Type   | Coverage  | Base (ft)              | Tops (ft)     |  |  |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |
|   | Cumulus  | Few   | 2,000                  | 4,000         |  |  |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |
|   | Cirrus   | Few   | 32,000                 | 34,000        |  |  |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |
| <table border="1"> <thead> <tr> <th colspan="2">Probability of Violating Weather Constraints<sup>1</sup></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><b>&lt;5%</b></td> <td>Primary Concerns: None</td> </tr> </tbody> </table>  |  | Probability of Violating Weather Constraints <sup>1</sup> |                        | <b>&lt;5%</b> | Primary Concerns: None   |  |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |
| Probability of Violating Weather Constraints <sup>1</sup>   |  |   |                        |               |  |  |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |
| <b>&lt;5%</b>   | Primary Concerns: None   |   |                        |               |  |  |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |
| <b>24-Hour Delay</b>  | <table border="1"> <thead> <tr> <th colspan="4">Weather Conditions</th> <th colspan="2">Additional Risk Criteria</th> </tr> </thead> <tbody> <tr> <td rowspan="3"> <b>Weather/Visibility:</b> None / 7 mi.<br/> <b>Temp/Humidity:</b> 71°F / 56%<br/> <b>Liftoff Winds (60'):</b> 000° 11-20 fps                 </td> <td colspan="4" style="text-align: center;"><b>Clouds</b></td> <td rowspan="3"> <b>Solar Activity:</b> <span style="background-color: yellow;">Moderate</span><br/><br/> <b>Offshore Landing Weather:</b> Low                 </td> </tr> <tr> <td>Type</td> <td>Coverage</td> <td>Base (ft)</td> <td>Tops (ft)</td> </tr> <tr> <td>Cirrus</td> <td>Few</td> <td>31,000</td> <td>33,000</td> </tr> </tbody> </table>  | Weather Conditions  |                        |               |  | Additional Risk Criteria   |  | <b>Weather/Visibility:</b> None / 7 mi.<br><b>Temp/Humidity:</b> 71°F / 56%<br><b>Liftoff Winds (60'):</b> 000° 11-20 fps | <b>Clouds</b> |  |  |  | <b>Solar Activity:</b> <span style="background-color: yellow;">Moderate</span><br><br><b>Offshore Landing Weather:</b> Low   | Type | Coverage | Base (ft) | Tops (ft) | Cirrus  | Few | 31,000 | 33,000 |  |        |     |        |        |
|   | Weather Conditions   |   |                        |               | Additional Risk Criteria   |  |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |
|   | <b>Weather/Visibility:</b> None / 7 mi.<br><b>Temp/Humidity:</b> 71°F / 56%<br><b>Liftoff Winds (60'):</b> 000° 11-20 fps  | <b>Clouds</b>   |                        |               |  | <b>Solar Activity:</b> <span style="background-color: yellow;">Moderate</span><br><br><b>Offshore Landing Weather:</b> Low |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |
|   |  | Type  | Coverage               | Base (ft)     | Tops (ft)  |  |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |
| Cirrus  |  | Few   | 31,000                 | 33,000        |  |  |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |
| <p>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.<br/>                 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.</p> <p style="text-align: center;">See <b>Launch FAQ</b> <a href="https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html">https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html</a> for more information</p> |  |   |                        |               |  |  |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |
| <b>Notes</b>  |  |   |                        |               |  |  |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |
| <b>Next Forecast Will Be Issued</b>   | As Required  |   |                        |               |  |  |  |   |               |  |  |  |  |      |          |           |           |         |     |        |        |  |        |     |        |        |