



Launch Mission Execution Forecast



Mission: New Glenn AST Bluebird 7
Issued: 18-Apr-26 / 0645L (1045Z)
Valid: 19-Apr-26 / 0645-0845L (1045-1245Z)
 20-Apr-26 / 0645-0845L (1045-1245Z)

Forecast Discussion: Surface high pressure will continue mainly dry weather through early Sunday afternoon. The ridge axis will weaken and get suppressed south as a front moves across Central Florida late Sunday. Generally favorable launch weather conditions are anticipated ahead of the front, with a combination of shallow cumulus clouds and higher cirrus clouds locally early Sunday; however, the backup launch opportunity offers a significantly higher risk of unacceptable launch weather conditions with the front in the neighborhood and winds increasing behind the boundary. Isolated showers and thunderstorms are also possible during the back up launch opportunity.

Probability of Violating Weather Constraints ¹																													
Launch Day	10% Primary Concerns: Cumulus Cloud Rule , Thick Cloud Layers Rule																												
	<table border="1"> <thead> <tr> <th colspan="5">Weather Conditions</th> <th>Additional Risk Criteria²</th> </tr> <tr> <th colspan="2">Weather/Visibility:</th> <th colspan="3">Clouds</th> <th rowspan="3">Solar Activity:</th> </tr> <tr> <th>Temp/Humidity:</th> <th>Liftoff Winds (60'):</th> <th>Type</th> <th>Coverage</th> <th>Base (ft) Tops (ft)</th> </tr> </thead> <tbody> <tr> <td>None / 7+ mi</td> <td>230° 10 - 15 fps</td> <td>Cumulus</td> <td>Scattered</td> <td>3,000 7,000</td> </tr> <tr> <td>71°F / 93%</td> <td></td> <td>Cirrus</td> <td>Broken</td> <td>25,000 29,000</td> <td>Low</td> </tr> </tbody> </table>	Weather Conditions					Additional Risk Criteria ²	Weather/Visibility:		Clouds			Solar Activity:	Temp/Humidity:	Liftoff Winds (60'):	Type	Coverage	Base (ft) Tops (ft)	None / 7+ mi	230° 10 - 15 fps	Cumulus	Scattered	3,000 7,000	71°F / 93%		Cirrus	Broken	25,000 29,000	Low
	Weather Conditions					Additional Risk Criteria ²																							
	Weather/Visibility:		Clouds			Solar Activity:																							
Temp/Humidity:	Liftoff Winds (60'):	Type	Coverage	Base (ft) Tops (ft)																									
None / 7+ mi	230° 10 - 15 fps	Cumulus	Scattered	3,000 7,000																									
71°F / 93%		Cirrus	Broken	25,000 29,000	Low																								
<table border="1"> <thead> <tr> <th colspan="5">Weather Conditions</th> <th>Additional Risk Criteria</th> </tr> <tr> <th colspan="2">Weather/Visibility:</th> <th colspan="3">Clouds</th> <th rowspan="3">Solar Activity:</th> </tr> <tr> <th>Temp/Humidity:</th> <th>Liftoff Winds (60'):</th> <th>Type</th> <th>Coverage</th> <th>Base (ft) Tops (ft)</th> </tr> </thead> <tbody> <tr> <td>Isol Showers / 7+ mi</td> <td>030° 30 - 40 fps</td> <td>Cumulus</td> <td>Broken</td> <td>3,000 12,000</td> </tr> <tr> <td>70°F / 90%</td> <td></td> <td>Cirrostratus</td> <td>Broken</td> <td>20,000 25,000</td> <td>Low</td> </tr> </tbody> </table>		Weather Conditions					Additional Risk Criteria	Weather/Visibility:		Clouds			Solar Activity:	Temp/Humidity:	Liftoff Winds (60'):	Type	Coverage	Base (ft) Tops (ft)	Isol Showers / 7+ mi	030° 30 - 40 fps	Cumulus	Broken	3,000 12,000	70°F / 90%		Cirrostratus	Broken	20,000 25,000	Low
Weather Conditions					Additional Risk Criteria																								
Weather/Visibility:		Clouds			Solar Activity:																								
Temp/Humidity:	Liftoff Winds (60'):	Type	Coverage	Base (ft) Tops (ft)																									
Isol Showers / 7+ mi	030° 30 - 40 fps	Cumulus	Broken	3,000 12,000																									
70°F / 90%		Cirrostratus	Broken	20,000 25,000	Low																								
50% Primary Concerns: Liftoff Winds , Cumulus Cloud Rule , Thick Cloud Layers Rule																													
24-Hour Delay	<table border="1"> <thead> <tr> <th colspan="5">Weather Conditions</th> <th>Additional Risk Criteria</th> </tr> <tr> <th colspan="2">Weather/Visibility:</th> <th colspan="3">Clouds</th> <th rowspan="3">Solar Activity:</th> </tr> <tr> <th>Temp/Humidity:</th> <th>Liftoff Winds (60'):</th> <th>Type</th> <th>Coverage</th> <th>Base (ft) Tops (ft)</th> </tr> </thead> <tbody> <tr> <td>None / 7+ mi</td> <td>230° 10 - 15 fps</td> <td>Cumulus</td> <td>Scattered</td> <td>3,000 7,000</td> </tr> <tr> <td>71°F / 93%</td> <td></td> <td>Cirrus</td> <td>Broken</td> <td>25,000 29,000</td> <td>Low</td> </tr> </tbody> </table>	Weather Conditions					Additional Risk Criteria	Weather/Visibility:		Clouds			Solar Activity:	Temp/Humidity:	Liftoff Winds (60'):	Type	Coverage	Base (ft) Tops (ft)	None / 7+ mi	230° 10 - 15 fps	Cumulus	Scattered	3,000 7,000	71°F / 93%		Cirrus	Broken	25,000 29,000	Low
	Weather Conditions					Additional Risk Criteria																							
	Weather/Visibility:		Clouds			Solar Activity:																							
	Temp/Humidity:	Liftoff Winds (60'):	Type	Coverage	Base (ft) Tops (ft)																								
None / 7+ mi	230° 10 - 15 fps	Cumulus	Scattered	3,000 7,000																									
71°F / 93%		Cirrus	Broken	25,000 29,000	Low																								
<table border="1"> <thead> <tr> <th colspan="5">Weather Conditions</th> <th>Additional Risk Criteria</th> </tr> <tr> <th colspan="2">Weather/Visibility:</th> <th colspan="3">Clouds</th> <th rowspan="3">Solar Activity:</th> </tr> <tr> <th>Temp/Humidity:</th> <th>Liftoff Winds (60'):</th> <th>Type</th> <th>Coverage</th> <th>Base (ft) Tops (ft)</th> </tr> </thead> <tbody> <tr> <td>Isol Showers / 7+ mi</td> <td>030° 30 - 40 fps</td> <td>Cumulus</td> <td>Broken</td> <td>3,000 12,000</td> </tr> <tr> <td>70°F / 90%</td> <td></td> <td>Cirrostratus</td> <td>Broken</td> <td>20,000 25,000</td> <td>Low</td> </tr> </tbody> </table>		Weather Conditions					Additional Risk Criteria	Weather/Visibility:		Clouds			Solar Activity:	Temp/Humidity:	Liftoff Winds (60'):	Type	Coverage	Base (ft) Tops (ft)	Isol Showers / 7+ mi	030° 30 - 40 fps	Cumulus	Broken	3,000 12,000	70°F / 90%		Cirrostratus	Broken	20,000 25,000	Low
Weather Conditions					Additional Risk Criteria																								
Weather/Visibility:		Clouds			Solar Activity:																								
Temp/Humidity:	Liftoff Winds (60'):	Type	Coverage	Base (ft) Tops (ft)																									
Isol Showers / 7+ mi	030° 30 - 40 fps	Cumulus	Broken	3,000 12,000																									
70°F / 90%		Cirrostratus	Broken	20,000 25,000	Low																								
Notes <ol style="list-style-type: none"> The Probability of Violation (PoV) is the chance of a range or customer constraint violation occurring at any random time during the launch window. 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																												