



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink g12-21

Issued: 12 March 2025 / 0000L (0400Z)

Valid: 12-13 March 2025 / 2220 – 0220L (13/0220 – 0620Z)



Forecast Discussion: Ridging over central Florida is expected to bring favorable conditions to the Space Coast Wednesday night. On Thursday, a weak disturbance may bring some clouds to the local area but the likelihood of those clouds impacting the launch appear slim.

Launch Day	Probability of Violating Weather Constraints ¹																
	<5%	Primary Concerns: None															
	Weather Conditions				Additional Risk Criteria ²												
	Weather/Visibility: None / 7 mi.	<table border="1"> <thead> <tr> <th colspan="4">Clouds</th> </tr> <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>2,000</td> <td>5,000</td> </tr> </tbody> </table>			Clouds				Type	Coverage	Base (ft)	Tops (ft)	Cumulus	Few	2,000	5,000	Upper-Level Wind Shear:
Clouds																	
Type	Coverage	Base (ft)	Tops (ft)														
Cumulus	Few	2,000	5,000														
Temp/Humidity: 64°F / 80%				Booster Recovery Weather:	Low												
Liftoff Winds (200'): 160° 7 - 12 mph				Solar Activity:	Low												

24-Hour Delay	Probability of Violating Weather Constraints																
	5%	Primary Concerns: None															
	Weather Conditions				Additional Risk Criteria												
	Weather/Visibility: None / 7 mi.	<table border="1"> <thead> <tr> <th colspan="4">Clouds</th> </tr> <tr> <th>Type</th> <th>Coverage</th> <th>Base (ft)</th> <th>Tops (ft)</th> </tr> </thead> <tbody> <tr> <td>Cumulus</td> <td>Scattered</td> <td>2,000</td> <td>5,000</td> </tr> </tbody> </table>			Clouds				Type	Coverage	Base (ft)	Tops (ft)	Cumulus	Scattered	2,000	5,000	Upper-Level Wind Shear:
Clouds																	
Type	Coverage	Base (ft)	Tops (ft)														
Cumulus	Scattered	2,000	5,000														
Temp/Humidity: 65°F / 80%				Booster Recovery Weather:	Low												
Liftoff Winds (200'): 230° 7 - 12 mph				Solar Activity:	Low												

Notes

- The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring 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 <https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf> for more information

Next Forecast Will Be Issued	As Required
-------------------------------------	-------------