

## **Launch Mission Execution Forecast**

Mission: Falcon 9 Starlink g12-21

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

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.

<5%	-	erns: Non	e							
			5% Primary Concerns: None							
	Weather Conditions       Veather/Visibility: None / 7 mi.       Clouds       Type     Coverage     Base (ft)     Tops (ft)       Tomp/Humidity:     64°E / 80%     Cumulus     Eow     2 000     5 000							Additional Risk Criteria <sup>2</sup>		
Weather/Visibility: None / 7 mi.			Clouds Type Coverage Base (ft) Tops (ft)			Upper-Level Wind Shear:	Low-Mod			
mp/Humidity	<b>y</b> : 64°F / 80%		Cumulus	Few	2,000	5,000	Booster Recovery Weather:	Low		
Liftoff Winds (200'): 160° 7 - 12 mph							Solar Activity:	Low		
Probability of Violating Weather Constraints										
5% Primary Concerns: None										
5%         Primary Concerns: None           Weather Conditions           Weather/Visibility:         None / 7 mi.         Clouds           Type         Coverage         Base (ft)         Tops (ft)           Temp/Humidity:         65°F / 80%         Cumulus         Scattered         2,000         5,000						Additional Risk Criteria				
Weather/Visibility: None / 7 mi.		Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low-Mod			
mp/Humidit	<b>y</b> : 65°F / 80%		Cumulus	Scattered	2,000	5,000	Booster Recovery Weather:	Low		
Liftoff Winds (200'): 230° 7 - 12 mph							Solar Activity:	Low		
<ol> <li>The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window.</li> <li>Additional Risk Criteria, which are not included in the PoV, are mission-specific constraints that may not include all phenomena within each risk factor.</li> <li>See https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf for more information</li> </ol>										
	mp/Humidity toff Winds ( 5% ather/Visibi mp/Humidity toff Winds ( The Probabi Additional R	mp/Humidity: 64°F / 80% toff Winds (200'): 160° 7 - 12 5% Primary Conc ather/Visibility: None / 7 m mp/Humidity: 65°F / 80% toff Winds (200'): 230° 7 - 12 The Probability of Violation (PoV) Additional Risk Criteria, which are See <u>https://www</u>	mp/Humidity: 64°F / 80% toff Winds (200'): 160° 7 - 12 mph Proba 5% Primary Concerns: Non Weather Weather ather/Visibility: None / 7 mi. mp/Humidity: 65°F / 80% toff Winds (200'): 230° 7 - 12 mph The Probability of Violation (PoV) is the chanc Additional Risk Criteria, which are not included See <u>https://www.patrick.sp</u>	Type         mp/Humidity:       64°F / 80%         coff Winds (200'):       160° 7 - 12 mph         Probability of V <b>Probability of V</b> 5%       Primary Concerns: None         Weather Condition         Type         ather/Visibility:         None / 7 mi.       Type         Type         Cumulus         Type         Condition         ather/Visibility:         None / 7 mi.       Type         Type         Cumulus         Type         Type         Cumulus         Type         Type         Type         Cumulus         Type         Cumulus         Type         Cumulus         Type         Cumulus         Type         Cumulus         See https://www.patrick.spaceforce.mil.	ather/Visibility:       None / 7 mi.       Type       Coverage         mp/Humidity:       64°F / 80%       Cumulus       Few         Probability of Violating We         toff Winds (200'):       160° 7 - 12 mph         Probability of Violating We         Coverage         Description         State of Winds (200'):       160° 7 - 12 mph         Weather Conditions         Clouds         Clouds         Type       Coverage         Clouds         Type       Coverage         Clouds         Type       Coverage         Clouds         Type       Coverage         Cumulus       Scattered         The Probability of Violation (PoV) is the chance of a local safety or customer col         Additional Risk Criteria, which are not included in the PoV, are mission-specific         See <a 14="" href="https://www.patrick.spaceforce.mil/Portals/14/We&lt;/a&gt;&lt;/th&gt;&lt;th&gt;ather/Visibility:       None / 7 ml.       Type       Coverage       Base (ft)         mp/Humidity:       64°F / 80%       Cumulus       Few       2,000         tooff Winds (200'):       160° 7 - 12 mph         Probability of Violating Weather (         &lt;b&gt;Weather Conditions&lt;/b&gt;         Type       Coverage       Base (ft)         &lt;b&gt;Weather Conditions&lt;/b&gt;         &lt;b&gt;Weather Conditions&lt;/b&gt;         Type       Coverage       Base (ft)         &lt;b&gt;Weather Conditions&lt;/b&gt;         &lt;b&gt;Weather Conditions&lt;/b&gt;         Type       Coverage       Base (ft)         Meather Conditions         &lt;b&gt;Weather Conditions&lt;/b&gt;         Type       Coverage       Base (ft)         Coverage       Base (ft)&lt;/th&gt;&lt;th&gt;Type       Coverage       Base (ft)       Tops (ft)         mp/Humidity:       64°F / 80%       Cumulus       Few       2,000       5,000         toff Winds (200'):       160° 7 - 12 mph         Probability of Violating Weather Constrai         5%       Primary Concerns: None         Uweather Conditions         togs (ft)         togs (ft)         Use (ft)       Tops (ft)         Type       Coverage       Base (ft)       Tops (ft)         Use (ft)       Coverage       Base (ft)       Tops (ft)         Type       Coverage       Base (ft)       Tops (ft)         Tops (ft)       Coverage       Base (ft)       Tops (ft)         Tops (ft)       Coverage       Base (ft)       Tops (ft)         Tops (ft)&lt;/th&gt;&lt;th&gt;Weather /Visibility:       None / 7 mi.       Type       Coverage       Base (ft)       Tops (ft)       Booster Recovery Weather:         toff Winds (200'):       160° 7 - 12 mph       Coverage       Base (ft)       Tops (ft)       Booster Recovery Weather:       Solar Activity:         Probability of Violating Weather Constraints         Additional Risk Crieva         Clouds         Weather Conditions       Additional Risk Crieva         ather/Visibility:       None / 7 mi.         Type       Coverage       Base (ft)       Tops (ft)         Booster Recovery Weather:       Solar Activity:         Additional Risk Crieva         Additional Risk Crieva         Additional Risk Crieva         Type       Clouds         Type       Coverage       Base (ft)       Tops (ft)       Upper-Level Wind Shear:         Booster Recovery Weather:         Solar Activity:         The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the lauma Additional Risk Criteria, which are not included in the PoV, are mission-specific constraints that may not include all phenomena within each See &lt;a href=" https:="" launchfaq.pdf"="" portals="" weather="" www.patrick.spaceforce.mil="">https://www.patrick.spa</a>					