

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 ²		
Weather/Visibility: None / 7 mi.			Clouds Type Coverage Base (ft) Tops (ft)			Upper-Level Wind Shear:	Low-Mod			
mp/Humidity	y : 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	y : 65°F / 80%		Cumulus	Scattered	2,000	5,000	Booster Recovery Weather:	Low		
Liftoff Winds (200'): 230° 7 - 12 mph							Solar Activity:	Low		
 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 										
	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 Probability of V 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</th><th>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 (Weather Conditions Type Coverage Base (ft) Weather Conditions Weather Conditions Type Coverage Base (ft) Weather Conditions Weather Conditions Type Coverage Base (ft) Meather Conditions Weather Conditions Type Coverage Base (ft) Coverage Base (ft)</th><th>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)</th><th>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 https://www.patrick.spa					