



Launch Mission Execution Forecast



Mission: Falcon 9 Thuraya-4

Issued: 2 Jan 2025 / 1000L (1500Z)

Valid: 3 Jan 2025 / 2027 – 4/0023L (4/0127 – 0523Z)

Forecast Discussion: A cool, dry air mass in place over Florida as an area of high pressure settles in over the southeastern US. Tomorrow, a reinforcing shot of cold and dry air will move into the area as a dry cold front. Behind this front, winds will shift northwesterly and increase as the night progresses. Because of this, the only concern is low-level winds approaching constraints, with the risk increasing towards the end of the launch window.

Launch conditions will be very favorable for the backup day as the pressure gradient relaxes and wind speeds decrease. There are no significant weather concerns at the launch site, but recovery weather will be a watch item.

Probability of Violating Weather Constraints ¹																					
Launch Day	5→20% Primary Concerns: Liftoff Winds																				
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24-Hour Delay	<5% Primary Concerns: None																				
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Notes	<ol style="list-style-type: none"> 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																				