



Launch Mission Execution Forecast



Mission: Falcon 9 Nilesat-301

Issued: 6 June 2022 / 0900L (1300Z)

Valid: 8 June 2022 / 1703 – 1932L (2103 – 2332Z)

Forecast Discussion: A light pressure gradient across the state will allow both the Gulf and Atlantic sea breezes to develop and move inland in the early afternoon over the next few days, serving as the primary driver for shower and thunderstorm development. Chances will be highest today as an upper level system passes overhead, with more seasonable widely scattered coverage across the Spaceport into late week. Each day the potential for showers and storms will generally be highest in the early afternoon across the Spaceport, shifting to the interior of the peninsula later in the afternoon. However, there will be a threat for a few storms to drift back towards the coast late evening as steering flow becomes more westerly. The primary concerns for both the primary and secondary launch windows Wednesday and Thursday afternoons will be cumulus clouds from any nearby activity as well as anvil clouds from inland storms.

		Probability of Violating Weather Constraints ¹			
Launch Day	30%	Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules			
	Weather Conditions			Additional Risk Criteria ²	
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low
	Temp/Humidity: 83°F / 72%	Type	Coverage	Base (ft)	Tops (ft)
Liftoff Winds (200'): 100° 10 - 15 mph	Cumulus	Scattered	3,500	8,000	Booster Recovery Weather: Low
	Cirrus				Solar Activity: Low
		Probability of Violating Weather Constraints			
24-Hour Delay	30%	Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules			
	Weather Conditions			Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low
	Temp/Humidity: 85°F / 79%	Type	Coverage	Base (ft)	Tops (ft)
Liftoff Winds (200'): 140° 10 - 15 mph	Cumulus	Scattered	3,500	10,000	Booster Recovery Weather: Low
	Cirrus				Solar Activity: Low
Notes	<ol style="list-style-type: none"> The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring anytime 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		7 June 2022			