



Launch Mission Execution Forecast



Mission: Atlas V GOES-T

Issued: 1 Mar 2022 / 0800L (1300Z)

Valid: 1 Mar 2022 / 1638 – 1838L (2138 – 2338Z)

Forecast Discussion: For Launch Day today, low ceilings over the area will gradually lift and become scattered by the afternoon, with a few low topped showers offshore coming close to the coast by mid to late afternoon during the window. Winds are slightly higher than previous forecasts due to the low off the southeast coast intensifying more than models indicated. This low will continue to keep breezy winds through the launch window, with the possibility for winds to increase even a few more knots by mid-afternoon with afternoon mixing. Therefore, the primary concerns are now the Cumulus Cloud Rule and Liftoff Winds. For backup day, winds decrease by late morning Wednesday as the surface low pulls away, but onshore moving convergent bands are still possible with isolated showers.

		Probability of Violating Weather Constraints ¹				
Launch Day	20%	Primary Concerns: Cumulus Cloud Rule, Liftoff Winds				
	Weather Conditions				Additional Risk Criteria ²	
	Weather/Visibility:	Isolated Showers / 7 mi.	Clouds			Solar Activity: Low
			Type	Coverage	Base (ft)	
Temp/Humidity:	68°F / 80%	Cumulus	Few	2,000	9,000	
Ground Winds (230'):	350° 23 - 28 knots	Stratocumulus	Scattered	2,000	5,000	
		Probability of Violating Weather Constraints				
24-Hour Delay	20%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility:	Isolated Showers / 7 mi.	Clouds			Solar Activity: Low
			Type	Coverage	Base (ft)	
Temp/Humidity:	73°F / 80%	Cumulus	Few	2,500	10,000	
Ground Winds (230'):	010° 10 - 15 knots					
Notes	1. The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring anytime during the launch window. 2. 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				