



Launch Mission Execution Forecast

Mission: Atlas V SES

Issued: 1 Oct 2022 / 0800L (1200Z)

Valid: 4 Oct 2022 / 1736 – 1821L (2136 – 2221Z)



Forecast Discussion: Dry and noticeably cooler air behind Ian brings an end to our summer convective season, with plenty of sunshine and light winds expected Saturday through Monday. For launch day Tue, a low developing off the coast of the mid-Atlantic states will drag a shallow cold front through central Florida. This brings low clouds and a few showers with wind speeds from the north gusting near 22kt. Therefore, the primary concern is the Cumulus Cloud Rule. For backup day Wed, the front looks to push south of us, but continued onshore flow from the northeast will keep low topped shower chances.

Launch Day		Probability of Violating Weather Constraints ¹						
Launch Day		30%		Primary Concerns: Cumulus Cloud Rule				
		Weather Conditions				Additional Risk Criteria ²		
		Weather/Visibility:	Scattered Showers / 7 mi.	Clouds				Solar Activity: Low
				Type	Coverage	Base (ft)	Tops (ft)	
Temp/Humidity:	76°F / 78%	Cumulus	Scattered	2,500	14,000			
Ground Winds (230'):	020° 17 - 22 knots	Stratocumulus	Broken	3,000	5,000			
24-Hour Delay		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)	Tops (ft)	
Temp/Humidity:	77°F / 75%	Cumulus	Few	2,500	16,000			
Ground Winds (230'):	050° 13 – 18 knots	Stratocumulus	Scattered	3,000	5,000			
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. <p>See https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf for more information.</p>						
Next Forecast Will Be Issued		2 Oct 2022						