



Launch Mission Execution Forecast

Mission: Atlas V SES

Issued: 2 Oct 2022 / 0800L (1200Z)

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



Forecast Discussion: Dry and noticeably cooler air continues today. For MLP Roll Mon, a low developing off the coast of the mid-Atlantic states will drag a shallow cold front through central Florida in the evening, picking up wind speeds near 20kt. Behind it, scattered low topped showers moving onshore and low clouds are forecast through Tue afternoon with winds remaining breezy from the north. Therefore, the primary concern is the Cumulus Cloud Rule. For backup day Wed, high pressure settles into the southeast reducing wind speeds and shower chances with just a slight Cumulus Cloud concern.

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	12,000		
Ground Winds (230'):	020° 18 - 23 knots	Stratocumulus	Broken	3,000	5,000		
24-Hour Delay		Probability of Violating Weather Constraints					
24-Hour Delay	10%	Primary Concerns: Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria		
	Weather/Visibility:	None / 7 mi.	Clouds				Solar Activity: Low
			Type	Coverage	Base (ft)	Tops (ft)	
Temp/Humidity:	77°F / 75%	Cumulus	Few	2,500	5,000		
Ground Winds (230'):	050° 8 – 13 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		3 Oct 2022					