



Launch Mission Execution Forecast

Mission: Atlas V SBIRS GEO-5
Issued: 15 May 2021 / 0800L (1200Z)
Valid: 17 May 2021 / DURING WINDOW



Forecast Discussion: Cooler stable air is in place through the weekend. For MLP Roll today, winds will gust around 22 kt from the north-northeast all day with a slight chance for an isolated shower moving onshore this afternoon. Winds remain breezy through Sunday as they veer to the east-northeast. By Launch Day Monday, the pressure gradient relaxes with winds from the east at 10-15 kts and a few cumulus clouds moving onshore. Therefore, the POV is 10% for the Cumulus Cloud Rule. For the backup day Tuesday, the pressure gradient tightens slightly increasing winds back to 15-20 kts with scattered cumulus clouds and an isolated shower possible. The POV for the backup day is 20% for the Cumulus Cloud Rule.

		Probability of Violating Weather Constraints					
Launch Day	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:	78°F / 65%	Cumulus	Few	3,000	6,000		
	Ground Winds (230'):	080° @ 10 - 15 knots					
		Probability of Violating Weather Constraints					
24-Hour Delay	20%	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:	79°F / 76%	Cumulus	Scattered	3,000	8,000		
	Ground Winds (230'):	080° @ 15 - 20 knots					
<i>Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear and solar activity.</i>							
Next Forecast Will Be Issued		16 May 2021 by 0800L					