Launch Mission Execution Forecast

Mission: Atlas V USSF-12
Issued: 28 Jun 2022 / 0800L (1200Z)
Valid: 30 Jun 2022 / DURING WINDOW

Forecast Discussion: Surface high pressure over Bermuda with the ridge axis remaining to our north this week will bring us east to southeast flow locally through Friday. This favors overnight and morning showers, with drier evenings. For MLP Roll day Wednesday, expect light winds in the morning picking up to 10-15 kt in the afternoon from the east with widely scattered showers possible. For launch day Thursday, higher than average moisture content and a weak surface wave moving westward into Florida will increase morning shower chances and bring isolated storms extending until as late as mid-afternoon before shower coverage reduces by the evening for the launch window For backup day Friday, a similar setup is expected with increased moisture and still moderate onshore flow from the southeast. The primary weather concern for both days is the Cumulus Cloud Rule.

Launch Day

Probability of Violating Weather Constraints[1]

40%

Primary Concerns: Cumulus Cloud Rule

Weather Conditions		Additional Risk Criteria[2]
Weather/Visibility:	Scattered Showers / 7 mi.	
Temp/Humidity:	82°F / 75%	**Solar Activity**: Low
Ground Winds (230'):	130° 12 - 17 knots	

Clouds

Type	Coverage	Base (ft)	Tops (ft)
Cumulus	Scattered	3,000	16,000
Cirrostratus	Broken	25,000	28,000

24-Hour Delay

Probability of Violating Weather Constraints

40%

Primary Concerns: Cumulus Cloud Rule

Weather Conditions		Additional Risk Criteria
Weather/Visibility:	Scattered Showers / 7 mi.	
Temp/Humidity:	81°F / 75%	**Solar Activity**: Low
Ground Winds (230'):	130° 12 - 17 knots	

Clouds

Type	Coverage	Base (ft)	Tops (ft)
Cumulus	Scattered	3,000	18,000

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 29 Jun 2022