

Launch Mission Execution Forecast

Mission: Atlas V GOES-T

Issued: 28 Feb 2022 / 0800L (1300Z)

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



Forecast Discussion: For Roll Day today, a cool front is stalled just south of central Florida that brought just some showers over the Atlantic waters. Behind it over north Florida, a mid-level shortwave trough moves across the state today at the same time a surface low will develop along the frontal boundary just off the coast. This will bring scattered showers moving in from the northwest by late afternoon Monday, with an isolated thunderstorm possible in the evening tonight, though most will remain over water. As the surface low intensifies off the coast, winds will increase to near 15-20kt from the north by this evening. For Launch Day through backup day, models have come into agreement on the surface low continuing to move east away from the Spaceport, indicating an improvement in the forecast from previous days. However, we will still have deep onshore flow from the north-northeast bringing the possibility for convergent bands and a few showers moving onshore with it. These conditions linger into the backup day Wednesday as well, with the primary concern being the Cumulus Cloud Rule should any of these showers move over the pad, with a secondary concern of elevated electric fields on Tuesday.

	1								
aunch Day	Probability of Violating Weather Constraints ¹								
	30%	Primary Concerns: Cumulus Cloud Rule, Surface Electric Fields Rule							
	Weather Conditions							Additional Risk Criteria ²	
	Weather/Visi	bility:	Few Showers / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)		
7	Temp/Humid	ity:	70°F / 85%	Cumulus	Few	2,000	12,000	Solar Activity:	Low
	Ground Wind	ds (230'):	010° 15 - 20 knots	Stratocumulus	Scattered	2,000	5,000		
	Probability of Violating Weather Constraints								
_				•					
Jelay	30%	Primai	ry Concerns: Cumu		<u></u>				
ur Delay	30%	Primai	ry Concerns: Cumu					1	Risk Criteria
	30% Weather/Visi		ry Concerns: Cumu	ilus Cloud Rule	Clouds Coverage	Base (ft)	Tops (ft)	1	Risk Criteria
24-Hour Delay		bility:	ry Concerns: Cumu Weathe	r Conditions	Clouds			1	Risk Criteria
	Weather/Visi	bility:	Weathe Few Showers / 7 mi. 73°F / 80%	r Conditions	Clouds Coverage	Base (ft)	Tops (ft)	Additional F	
	Weather/Visi Temp/Humid Ground Wind	bility: ity: ds (230'): ability of Vic Risk Criter	Weathe Few Showers / 7 mi. 73°F / 80%	Type Cumulus of a local safety or on the PoV, are miss	Clouds Coverage Few customer constri	Base (ft) 2,500 aint violation straints that	Tops (ft) 10,000 occurring armay not inclu	Additional F Solar Activity: nytime during the launude all phenomena with	Low ch window.