



Launch Mission Execution Forecast

Mission: Falcon 9 Transporter-2

Issued: 27 June 2021 / 0830L (1230Z)

Valid: 29 June 2021 / 1456 – 1554L (1856 – 1954Z)



Forecast Discussion: Deep easterly flow continues across Central Florida as the subtropical ridge axis is situated well to the north. Coastal showers are possible each morning, but chances subside as the east coast sea breeze moves inland by early afternoon each day. Elsewhere, a tropical easterly wave is north of the Bahamas and will continue tracking northwestward today, bringing added cloud cover and showers from the Central Florida to South Carolina on Monday. By Tuesday, the wave should well west of the Spaceport; allowing weather conditions to settle back to normal. The primary weather concerns for a Tuesday afternoon launch attempt are the Cumulus and Anvil Cloud Rules associated with inland thunderstorm activity.

On Wednesday, conditions should be much the same with possible morning coastal showers, while afternoon thunderstorm activity stays mostly west of the Spaceport. The primary weather concerns Wednesday remain the Cumulus and Anvil Cloud Rules.

		Probability of Violating Weather Constraints					
Launch Day	30%	Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules					
	Weather Conditions				Additional Risk Criteria		
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low		
	Temp/Humidity: 82°F / 72%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low	
Liftoff Winds (200'): 100° 15 - 20 mph	Cumulus	Scattered	3,000	10,000	Solar Activity: Low		
	Cirrus	Scattered	25,000	27,000			
		Probability of Violating Weather Constraints					
24-Hour Delay	30%	Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules					
	Weather Conditions				Additional Risk Criteria		
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low		
	Temp/Humidity: 82°F / 72%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low	
Liftoff Winds (200'): 120° 12 - 17 mph	Cumulus	Scattered	3,000	10,000	Solar Activity: Low		
	Cirrus	Scattered	25,000	27,000			
Next Forecast Will Be Issued		28 June 2021					

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, booster recovery weather, and solar activity.