



Launch Mission Execution Forecast

Mission: Falcon 9 Transporter-2

Issued: 29 June 2021 / 1530L (1930Z)

Valid: 30 June 2021 / 1456 – 1554L (1856 – 1954Z)



Forecast Discussion: A convergent band is moving over the Spaceport with abundant shower activity. After this moves through a more typical easterly flow scenario should persist with isolated morning coastal showers. By launch time Wednesday afternoon convection will mostly exist inland with the sea breeze. The primary concerns are the Cumulus and Anvil Cloud Rules associated with inland thunderstorm activity.

On Thursday, conditions will likely degrade somewhat as the ridge axis begins to move south, making Spaceport winds more southerly. 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	
		Type	Coverage	Base (ft)	Tops (ft)	
Temp/Humidity: 82°F / 72%	Cumulus	Scattered	3,000	10,000	Booster Recovery Weather: Low	
Liftoff Winds (200'): 120° 15 - 20 mph	Cirrus	Scattered	28,000	32,000	Solar Activity: Low	
		Probability of Violating Weather Constraints				
24-Hour Delay	40%	Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: Showers / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
		Type	Coverage	Base (ft)	Tops (ft)	
Temp/Humidity: 82°F / 72%	Cumulus	Scattered	3,000	10,000	Booster Recovery Weather: Low	
Liftoff Winds (200'): 150° 12 - 17 mph	Cirrus	Scattered	28,000	32,000	Solar Activity: Low	
<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, booster recovery weather, and solar activity.</i>						
Next Forecast Will Be Issued		As Required				