

Launch Mission Execution Forecast

Mission: Falcon 9 CRS-22

Issued: 2 June 2021 / 0800L (1200Z)

Valid: 3 June 2021 / 1324 – 1334L (1724 – 1734Z)



Forecast Discussion: Extensive atmospheric moisture currently residing across the Bahamas will continue to be siphoned northwest towards the area around the periphery of the subtropical ridge. Onshore flow will favor night and morning shower activity at the coast, while the East Coast seabreeze gets an early start to its inland journey each day, focusing afternoon storms to the west of the Spaceport. However, the threat for lingering clouds and showers extending into the early afternoon hours over the waters and along the coast appears somewhat higher compared to earlier forecasts. Thus, the main weather concerns for both Launch Day and Delay Day are the Cumulus Cloud Rule and Flight Through Precipitation.

	Probability of Violating Weather Constraints									
Day	40% Primary Concerns: Cumulus Cloud Rule, Flight Through Precipitation									
ch	Weather Conditions								Additional Risk Criteria	
aunch	Weather/Visi	bility:	Sct showers /7 mi.		Clouds Type Coverage B		Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
Ľ	Temp/Humidity:		84°F / 74%		Cumulus	Broken	3,000	12,000	Booster Recovery Weather:	Low
	Liftoff Winds (200') : 140° 15 - 20 mph			20 mph					Solar Activity:	Low
	Probability of Violating Weather Constraints									
Delay	40% Primary Concerns: Cumulus Cloud Rule, Flight Through Precipitation									
	Weather Conditions								Additional Risk Criteria	
24-Hour	Weather/Visibility: Sct showers / 7 mi.			rs / 7 mi.	Туре	Cloud: Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
24	Temp/Humidity: 85°F / 68%			ó	Cumulus	Broken	3,000	12,000	Booster Recovery Weather:	Low
	Liftoff Winds (200') : 150° 15 - 20 mph			20 mph					Solar Activity:	Low
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.										
Next Forecast Will Be Issued										