



Launch Mission Execution Forecast

Mission: Falcon 9 StarlinkV1.0-L9

Issued: 6 August 2020 / 0800L (1200Z)

Valid: 7 August 2020 / 0107 – 0118L (0507 – 0518Z)



Forecast Discussion: Weak high pressure continues to build across the area, creating light winds which will allow the east coast sea breeze to develop and move inland after noon. Lingering tropical moisture will result in higher shower and storm coverage, with the best chances in the afternoon to evening hours as the sea breeze moves inland, though some overnight activity cannot be ruled out. The primary weather concern for launch day will be mid and upper level clouds streaming across the region from the south along with cumulus clouds over the nearshore waters.

The ridge axis will shift north of the region as the weekend begins, with stronger easterly flow pushing showers and storms inland quicker and bringing drier mid-level air. The primary weather concern for the backup launch day Saturday morning will be cumulus clouds from a few Atlantic showers.

Launch Day	Probability of Violating Weather Constraints					
	30%	Primary Concerns: Thick Cloud Layer Rule, Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear: Low
	Type	Coverage	Base (ft)	Tops (ft)		
Temp/Humidity: 80°F / 85%	Cumulus	Scattered	2,500	4,000	Booster Recovery Weather: Low	
Liftoff Winds (200'): 170° 7 - 12 mph	Cirrostratus	Broken	18,000	25,000	Solar Activity: Low	

24-Hour Delay	Probability of Violating Weather Constraints					
	20%	Primary Concerns: Cumulus Cloud Rule				
	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 / 80%	Cumulus	Scattered	2,000	4,000	Booster Recovery Weather: Low	
Liftoff Winds (200'): 160° 10 - 15 mph	Cirrus	Scattered	25,000	30,000	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	As Required
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