

Launch Mission Execution Forecast

Mission: Falcon 9 SAOCOM-1B

Issued: 29 August 2020 / 0900L (1300Z)

Valid: 30 August 2020 / 1914 – 1924L (2314 – 2324Z)



Forecast Discussion: Very little change to the forecast or reasoning as the subtropical ridge axis remains well south of Central Florida, creating southwesterly winds in the low-levels. Southwest flow impedes the inland progression of the east coast sea breeze and allows inland storms to migrate towards the Space Coast. This increases the threat of thunderstorms and associated cloudiness over the Spaceport. In addition, the remnants of Hurricane Laura are providing ample moisture to the southeast U.S. and Florida, providing increased cloud cover through the weekend. The primary weather concerns for launch attempts Sunday and Monday evening remain the Thick Cloud Layers Rule related to the remnant moisture and the Cumulus, and Anvil Cloud Rules from the afternoon and evening thunderstorms.

aunch Day	Probability of Violating Weather Constraints								
	60% Primary Concerns: Thick Cloud Layers Rule, Cumulus Cloud Rule, Anvil Cloud Rules								
	Weather Conditions							Additional Risk Criteria	
aun	Weather/Visi	bility:	Isold T-Storms / 7 mi	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
Ĺ	Temp/Humid	ity:	82°F / 82%	Cumulus	Scattered	3,000	12,000	Booster Recovery Weather:	Low
	Liftoff Winds	(200'):	240° 10 - 15 mph	Cirrostratus	Broken	22,000	30,000	Solar Activity:	Low
			Prob	ability of Vi	olating W	eather	Constra	ints	
Jelay	60%	Prim	Proba	•					
2	60%	Prim	ary Concerns: Thio	•	rs Rule, Cur				teria
2	60% Weather/Visi		ary Concerns: Thio	k Cloud Laye	rs Rule, Cur	mulus Cl		Anvil Cloud Rules	i teria
ב		bility:	ary Concerns: Thio	k Cloud Laye	rs Rule, Cur s Clouds	nulus Cl	oud Rule,	Anvil Cloud Rules Additional Risk Cri	
24-Hour Delay	Weather/Visi	bility:	weather Isold T-Storms / 6 mi	ck Cloud Laye	rs Rule, Cur S Clouds Coverage	mulus Clo	Tops (ft)	Anvil Cloud Rules Additional Risk Cri Upper-Level Wind Shear:	Low