

Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 4-23

Issued: 27 Aug 2022 / 0900L (1300Z)

Valid: 27 Aug 2022 / 2152 – 28/0011L (28/0152 – 0411Z)



Forecast Discussion: The active weather pattern will continue across East Central Florida today as a weak trough to the north brings light south-southwest flow and plentiful moisture over the area. This will cause afternoon and evening thunderstorms associated with the sea breeze on eastern portion of the peninsula. Showers and storms will slowly dissipate after sunset, but lingering anvil clouds will remain a concern. Thus, the primary weather concerns for tonight's attempt are the Anvil Cloud Rules, Cumulus Cloud Rule, and Surface Electric Fields Rule.

On Sunday, a pattern shift back to south-southeasterly flow is expected, which should decrease the late day coverage of the showers and thunderstorms along the Space Coast. The primary weather concerns for a Sunday evening launch attempt remain the same as the primary day with a slightly lower probability of violation.

	Probability of Violating Weather Constraints ¹								
Day	70→40 %	Primary Concerns: Anvil Cloud Rules, Cumulus Cloud Rule, Surface Electric Fields Rule							
ch	Weather Conditions						Additional Risk Criteria ²		
aunch	Weather/Visibility:	Isold Showers / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
Ĭ	Temp/Humidity:	78°F / 90%	Cumulus	Scattered	3,000	20,000	Booster Recovery Weather:	Low	
	Liftoff Winds (200')	: 160° 8 – 13 mph	Cirrostratus	Broken	28,000	33,000	Solar Activity:	Low	
,	Probability of Violating Weather Constraints								
Delay	40-30% Primary Concerns: Anvil Cloud Rules, Cumulus Cloud Rule, Surface Electric Fields Rule								
	Weather Conditions						Additional Risk Criteria		
24-Hour	Weather/Visibility: None / 7 mi. Clouds Type Coverage Bas				Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
24	Temp/Humidity:	77°F / 90%	Cumulus	Scattered	3,000	15,000	Booster Recovery Weather:	1	
		77 1 7 0070					•	Low	
	Liftoff Winds (200')		Cirrostratus	Scattered	25,000	28,000	Solar Activity:	Low	
tes	The Probability of	: 150° 7 - 12 mph Violation (PoV) is the chance	e of a local safety	or customer co	nstraint vio	lation occurri	_	Low w.	
Notes	The Probability of Additional Risk Cr	: 150° 7 - 12 mph Violation (PoV) is the chanciteria, which are not included	e of a local safety d in the PoV, are i	or customer co mission-specific	nstraint vio	plation occurri s that may no	Solar Activity:	Low w.	