

Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 5-15

Issued: 14 Jul 2023 / 2200L (15/0200Z)

Valid: 15 Jul 2023 / 2340 – 16/0000L (16/0340 – 0400Z)



Forecast Discussion: East Central Florida will remain in an active pattern as we head into the weekend, but the overnight launch window will allow for generally favorable launch weather conditions. The Atlantic ridge axis will remain to our south tomorrow, and the low-level offshore flow combined with plentiful moisture will lead to another round of afternoon thunderstorms along the east coast. However, the showers and storms will dissipate after sunset and as we head into the overnight hours. The primary concerns include the Anvil Cloud Rules associated with lingering cloud cover from the storms, and the Cumulus Cloud Rule for any showers that develop along remnant outflow boundaries.

Sunday will likely be a very similar day to Saturday, with another round of afternoon thunderstorms that die out in the overnight hours. Thus, the probability of violation and primary concerns are the same as Saturday night's attempt.

	Probability of Violating Weather Constraints ¹									
Day	15% Primary Concerns: Anvil Cloud Rules, Cumulus Cloud Rule									
ch	Weather Conditions							Additional Risk Criteria ²		
aunch	Weather/Visi	bility : N	one /7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
Ĭ	Temp/Humid	ity: 79	9°F / 90%	Cumulus	Scattered	3,000	8,000	Booster Recovery Weather:	Low	
	Liftoff Winds	(200') : 2	10° 12 - 17 mph	Cirrostratus	Broken	32,000	36,000	Solar Activity:	Low	
	Probability of Violating Weather Constraints									
Delay	15%	15% Primary Concerns: Anvil Cloud Rules, Cumulus Cloud Rule								
	Weather Conditions							Additional Risk Criteria		
우	Weather/Visi	hility: N			Clouds					
—		Dility. IN	one / 7 mi.	Туре	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
24-Hour	Temp/Humid	•	1°F / 85%	Type Cumulus	Coverage Scattered	Base (ft) 3,000	Tops (ft) 8,000	Upper-Level Wind Shear: Booster Recovery Weather:	Low Low	
24-	-	ity: 8		1	· ·	` '	,			
	Liftoff Winds 1. The Proba	ity: 8 (200'): 29 bility of Viole	1°F / 85% 50° 10 - 15 mph ation (PoV) is the chanc	Cumulus Cirrostratus ce of a local safety	Scattered Scattered or customer co	3,000 30,000 <i>Instraint vio</i>	8,000 34,000	Booster Recovery Weather:	Low Low ch window.	
Notes 24-F	Liftoff Winds 1. The Proba	ity: 8 (200'): 29 bility of Viola Risk Criteria	1°F / 85% 50° 10 - 15 mph ation (PoV) is the chance, which are not included	Cirrostratus ce of a local safety d in the PoV, are m	Scattered Scattered or customer conission-specific	3,000 30,000 instraint vio	8,000 34,000 Idition occurring that may no	Booster Recovery Weather: Solar Activity: ng any random time during the laun	Low Low ch window.	