

Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-9

Issued: 9 August 2023 / 0800L (1200Z)

Valid: 10 August 2023 / 2141 – 11/0123L (11/0141-0523Z)



Forecast Discussion: Expect continued hot and humid conditions with daily afternoon and evening thunderstorms across Central Florida through Thursday. The thunderstorms will favor the Atlantic side of Florida as the subtropical ridge axis remains south of the Space Coast. Luckily, the launch window extends past the typical life span of the convection, creating good chances weather will clear by the end of the window. The primary launch weather concerns for are the Anvil and Cumulus Cloud Rules associated with the day's storms, which will diminish through the window.

On Friday, the subtropical ridge axis will begin to shift northward, slightly decreasing the storm coverage near the Spaceport. However, the primary launch weather concerns remain the Anvil and Cumulus Cloud Rules.

	Probability of Violating Weather Constraints ¹								
Day	40->10% Primary Concerns: Anvil Cloud Rule, Cumulus Cloud Rule								
ch	Weather Conditions							Additional Risk Criteria ²	
Launch	Weather/Visibility:	Isold Show	ers / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
_	Temp/Humidity:	82°F / 85%))	Cumulus	Scattered	3,000	15,000	Booster Recovery Weather:	Low
	Liftoff Winds (200'): 180° 12 - 1	7 mph	Cirrostratus	Scattered	28,000	30,000	Solar Activity:	Low
	Probability of Violating Weather Constraints								
Delay	30→10%	Primary C	oncerns:	Anvil Cloud R	Rule, Cumuli	us Cloud	Rule		
ur Delay	30→10%	-		Anvil Cloud R		us Cloud	Rule	Additional Risk Cr	iteria
	30→10% Weather/Visibility:		Weather				Rule Tops (ft)	Additional Risk Cr Upper-Level Wind Shear:	i teria
24-Hour Delay			Weather vers / 7 mi.	Condition	S Clouds				
	Weather/Visibility:	Isold Show 82°F / 85%	Weather ers / 7 mi.	Condition	S Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
24-Hour	Weather/Visibility: Temp/Humidity: Liftoff Winds (200'	Isold Show 82°F / 85%): 170° 10 - 1 f Violation (PoV	Weather ers / 7 mi. 5 mph is the chance	Type Cumulus Cirrostratus ee of a local safety	Clouds Coverage Scattered Scattered	Base (ft) 3,000 28,000 constraint vice	Tops (ft) 12,000 30,000 Dilation occurr	Upper-Level Wind Shear: Booster Recovery Weather:	Low Low Low ch window.
	Weather/Visibility: Temp/Humidity: Liftoff Winds (200' 1. The Probability o 2. Additional Risk C	Isold Show 82°F / 85% 1: 170° 10 - 1 If Violation (PoVeriteria, which are	Weather vers / 7 mi. 5 mph is the chance not included	Type Cumulus Cirrostratus ee of a local safety d in the PoV, are	Clouds Coverage Scattered Scattered Cor customer comission-specific	Base (ft) 3,000 28,000 constraint vice constraints	Tops (ft) 12,000 30,000 blation occurr s that may no	Upper-Level Wind Shear: Booster Recovery Weather: Solar Activity: ing any random time during the laun	Low Low Low ch window.