

Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-60

Issued: 26 May 2024 / 0530L (0930Z)

Valid: 27 May 2024 / 0730-1130L (1130-1530Z)



Forecast Discussion: A frontal boundary is approaching the Southeast U.S. helping nudge the existing Subtropical ridge axis south of Central Florida. This creates southwesterly flow over the Space Coast and pins the sea breeze close to Spaceport, keeping any locally developing showers and storms close and allowing any showers and storms that develop inland to move east towards the launch area. However, the launch window is favorable for limiting adverse weather conditions; thus the main risk of a Cumulus Cloud violation is low Monday morning and earlier in the window is best.

On Tuesday morning the atmosphere is forecast to be a bit more favorable to showers and storms to develop, so while Cumulus Clouds remain the primary risk, the likelihood is slightly higher, particularly towards the end of the window.

ch Day	Probability of Violating Weather Constraints ¹							
	5→10%	Primary Co	ncerns: Cumulus					
	Weather Conditions						Additional Risk Criteria ²	
aunch	Weather/Visibility:	None / 7 m	i.	Cloud Coverage	ds Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
Ľ	Temp/Humidity:	76°F / 90%		s Few	3,000	8,000	Booster Recovery Weather:	Low
	Liftoff Winds (200'):	240° 5 - 10	mph				Solar Activity:	Low
	Probability of Violating Weather Constraints							
			i i obability (violating v				
Delay	10→15%	Primary Co	ncerns: Cumulus					
	10→15%	-		Cloud Rule			Additional Risk Cr	iteria
	10→15% Weather/Visibility:	-	oncerns: Cumulus	Cloud Rule		Tops (ft)		iteria Low
24-Hour Delay		V	veather Condi	cloud Rule Cloud Coverage	ds		Additional Risk Cr	
	Weather/Visibility:	None / 7 m	veather Condi	c Cloud Rule tions Cloud Coverage	ds Base (ft)	Tops (ft)	Additional Risk Cr Upper-Level Wind Shear:	Low
24-Hour D	Weather/Visibility: Temp/Humidity: Liftoff Winds (200'): 1. The Probability of	None / 7 m 77°F / 90% 260° 8 - 12 Violation (PoV) is	Veather Condi Type Cumulu mph	Cloud Rule Coverage S Few	Base (ft) 3,000	Tops (ft) 10,000 tion occurring	Additional Risk Cr Upper-Level Wind Shear: Booster Recovery Weather:	Low Low window.
	Weather/Visibility: Temp/Humidity: Liftoff Winds (200'): 1. The Probability of 2. Additional Risk Crit	None / 7 m 77°F / 90% 260° 8 - 12 Violation (PoV) is iteria, which are re	Neather Condi Type Cumulu mph the chance of a local shot included in the PoV	Cloud Rule Cloud Coverage S Few rafety or customer or are mission-specific	Base (ft) 3,000 onstraint violate constraints t	Tops (ft) 10,000 tion occurring hat may not if	Additional Risk Cr Upper-Level Wind Shear: Booster Recovery Weather: Solar Activity:	Low Low window.