

## **Launch Mission Execution Forecast**

Mission: Falcon 9 Intelsat-40e

**Issued**: 5 April 2023 / 0900L (1300Z)

**Valid**: 7 April 2023 / 0029-0230L (0429-0630Z)



**Forecast Discussion**: Another warm, sunny day is expected across Central Florida today. Elsewhere, a strong frontal system will be making its way across much of the Eastern U.S. This system's cold front will stall across the Deep South and not make it to the Space Coast. This will leave the Spaceport in an onshore flow pattern with moderated temperatures and isolated coastal showers. The primary launch weather concerns for early Friday and Saturday morning will be liftoff winds and the cumulus cloud rule associated with the gusty, onshore flow.

	Probability of Violating Weather Constraints <sup>1</sup>								
Day	10%	10% Primary Concerns: Liftoff Winds, Cumulus Cloud Rule							
ch	Weather Conditions							Additional Risk Criteria <sup>2</sup>	
aunch	Weather/Visi	bility:	None / 7 miles	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
Ľ	Temp/Humid	ity:	72°F / 90%	Cumulus	Few	3,000	8,000	Booster Recovery Weather:	Low
	Liftoff Winds	(200'):	110° 15-20 mph	Cirrostratus	Scattered	30,000	33,000	Solar Activity:	Low
	Probability of Violating Weather Constraints								
<b>&gt;</b>	15% Primary Concerns: Liftoff Winds, Cumulus Cloud Rule								
Jelay	15%	Prima	ary Concerns: Li	ftoff Winds, Cum	nulus Cloud	Rule			
	15%	Prima	•	ftoff Winds, Cum		Rule		Additional Risk Cr	iteria
	15% Weather/Visi		•	,			Tops (ft)	Additional Risk Cr Upper-Level Wind Shear:	iteria
24-Hour Dela		bility:	Weath	ner Condition	S Clouds	i	Tops (ft) 8,000		
	Weather/Visi	bility:	Weath None / 7 miles	ner Condition	S Clouds Coverage	Base (ft)		Upper-Level Wind Shear:	Low
24-Hour D	Weather/Visi Temp/Humid Liftoff Winds	bility: ity: (200'): bility of V	Weath None / 7 miles 72°F / 90% 100° 15-20 mph	Type Cumulus Cirrostratus	Clouds Coverage Few Scattered	Base (ft) 3,000 30,000	8,000 33,000 Dation occurr	Upper-Level Wind Shear: Booster Recovery Weather:	Low Low Low ach window.
	Weather/Visi Temp/Humid Liftoff Winds	bility: ity: (200'): bility of V Risk Crite	Weath None / 7 miles 72°F / 90% 100° 15-20 mph Violation (PoV) is the cheria, which are not included.	Type Cumulus Cirrostratus  nance of a local safety uded in the PoV, are	Clouds Coverage Few Scattered V or customer comission-specific	Base (ft) 3,000 30,000 onstraint vice constraints	8,000 33,000  Dilation occurres that may no	Upper-Level Wind Shear: Booster Recovery Weather: Solar Activity: ing any random time during the laur	Low Low Low ach window.