

## **Launch Mission Execution Forecast**

Mission: Falcon 9 Eutelsat-10B

**Issued**: 21 November 22 / 2100L (22/0200Z)

Valid: 22 November 22 / 2152-2202L (23/0252-0302Z)



**Forecast Discussion**: Cloudy conditions with rain showers are expected with onshore flow across the Spaceport. A wave is likely to form in the nearshore waters along the Gulf Stream Tuesday, adding a threat of thunderstorms and increasing the depth of the clouds. The primary weather concerns for a Tuesday evening launch attempt are the Thick Cloud Layers Rule, the Cumulus Cloud Rule, and the Disturbed Weather Rule.

On Wednesday, the wave may spin up into a low pressure area and pull some of the unsettled weather away as it move to the northeast. The primary launch weather concerns are lingering Thick Layer Clouds and Cumulus Clouds.

			Proba	ability of Vi	iolating We	eather (	Constrai	nts <sup>1</sup>	
Day	90% Primary Concerns: Thick Cloud Layers Rule, Cumulus Cloud Rule, Disturbed Weather Rule								
ch	Weather Conditions							Additional Risk Criteria <sup>2</sup>	
aunch	Weather/Visi	bility:	Showers / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low-Mod
Ľ	Temp/Humid	ity:	68°F / 90%	Cumulus	Scattered	3,000	15,000	Recovery Weather:	Moderate
	Liftoff Winds	(200'):	100° 10 - 15 mph	Altostratus	Overcast	12,000	20,000	Solar Activity:	Low
	Probability of Violating Weather Constraints								
	40% Primary Concerns: Thick Cloud Layers Rule, Cumulus Cloud Rule								
Jela	40%	Prima	ary Concerns: Thick	c Cloud Laye	rs Rule, Cun	nulus Clo	oud Rule		
ur Delay	40%	Prima		Cloud Laye		nulus Clo	oud Rule	Additional Risk C	riteria
	40% Weather/Visi						Tops (ft)	Additional Risk C Upper-Level Wind Shear:	riteria Low
24-Hour Dela		bility:	Weather	Condition	<b>1S</b> Clouds				
	Weather/Visi	bility:	Weather Isold Showers / 7 mi.	Condition	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
24-Hour	Weather/Visi Temp/Humid Liftoff Winds	bility: ity: (200'): bility of V	Weather Isold Showers / 7 mi. 71°F / 82% 040° 10 - 15 mph Violation (PoV) is the chance	Type Cumulus Altostratus ee of a local safet	Clouds Coverage Scattered Broken	Base (ft) 3,000 12,000 onstraint vio	Tops (ft) 10,000 15,000 Dation occurr	Upper-Level Wind Shear: Recovery Weather:	Low Low-Mod Low
	Weather/Visi Temp/Humid Liftoff Winds	bility: ity: (200'): bility of V	Weather Isold Showers / 7 mi. 71°F / 82% 040° 10 - 15 mph Violation (PoV) is the chanceria, which are not included	Type Cumulus Altostratus ee of a local safet	Clouds Coverage Scattered Broken  ty or customer commission-specific	Base (ft) 3,000 12,000 onstraint vice constraints	Tops (ft) 10,000 15,000 Dilation occurres that may no	Upper-Level Wind Shear: Recovery Weather: Solar Activity: ing anytime during the launch wind	Low Low-Mod Low