

## **Launch Mission Execution Forecast**

Mission: Falcon 9 Eutelsat HOTBIRD-F2

Issued: Valid: 01 Nov 2022 / 0930L (1330Z) 02 Nov 2022 / 2324 – 03/0123L (03/0324 – 0523Z)



**Forecast Discussion**: A slow-moving weak frontal boundary is on track to pass through Central Florida tomorrow afternoon, with a chance for isolated showers and storms near the Spaceport in the late afternoon. While most models have shower activity located off the coast as well as to the south, isolated showers moving onshore during the launch window cannot be ruled out, making the Cumulus Cloud Rule the primary threat for a Wednesday night launch attempt.

A strengthened pressure gradient will increase wind speeds and the chance for onshore-moving Atlantic showers on Thursday. The primary weather concerns for the backup launch opportunity on Thursday night are the Cumulus Cloud Rule and Liftoff Winds.

ich Day	Probability of Violating Weather Constraints <sup>1</sup>								
	10%	10% Primary Concerns: Cumulus Cloud Rule							
	Weather Conditions							Additional Risk Criteria <sup>2</sup>	
aunch	Weather/Visi	bility:	None / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
Ľ	Temp/Humid	ity:	76°F / 77%	Cumulus	Scattered	3,000	8,500	Booster Recovery Weather:	Low
	Liftoff Winds	<b>(200')</b> :	030° 10 - 15 mph					Solar Activity:	Low
	Probability of Violating Weather Constraints								
	20% Primary Concerns: Cumulus Cloud Rule, Liftoff Winds								
Dela	20%	Prima	<b>ary Concerns</b> : Cum	nulus Cloud F	Rule, Liftoff W	inds			
ur Delay	20%	Prima	-	nulus Cloud F r Conditior		'inds		Additional Risk Cr	iteria
	20% Weather/Visi		-				Tops (ft)	Additional Risk Cr Upper-Level Wind Shear:	<b>iteria</b> Low
24-Hour Dela		bility:	Weathe	r Conditior	1S Clouds		Tops (ft) 8,000		
	Weather/Visi Temp/Humid	bility: ity:	Weathe	r Conditior	IS Clouds Coverage	Base (ft)	,	Upper-Level Wind Shear:	Low
24-Hour	Weather/Visi Temp/Humid Liftoff Winds	bility: ity: (200'): bility of V	Weathe None / 7 mi. 75°F / 76% 020° 20 - 25 mph /iolation (PoV) is the chan	r Condition Type Cumulus ce of a local safe	<b>IS</b> Coverage Scattered	Base (ft) 3,000 onstraint vice	8,000	Upper-Level Wind Shear: Booster Recovery Weather:	Low Low Low
	Weather/Visi Temp/Humid Liftoff Winds	bility: ity: (200'): bility of V Risk Crit	Weathe None / 7 mi. 75°F / 76% 020° 20 - 25 mph /iolation (PoV) is the chan eria, which are not include	r Condition	Scattered	Base (ft) 3,000 onstraint vic constraints	8,000 Delation occurr s that may no	Upper-Level Wind Shear: Booster Recovery Weather: Solar Activity:	Low Low Low