

## **Launch Mission Execution Forecast**

Mission: Falcon 9 Starlink 6-12

**Issued**: 02 Sep 2023 / 1100L (1500Z)

Valid: 03 Sep 2023 / 1907-2306L (03/2307-04/0306Z)



**Forecast Discussion**: A broad center of high pressure has settled over the Carolinas, causing northeasterly flow over northern Florida. A southward pushing frontal boundary as progressed south of the Space Coast this morning, bringing in stable and dry conditions which will drastically decrease chances for rain during the Labor Day Weekend.

On Sunday evening, and the beginning of the launch window, we can expect favorable, dry conditions and northeasterly surface winds. The primary concern will be if a low-topped cumulus cloud associated with the onshore flow lingers close to the launch pad. Very similar conditions are expected for the back-up launch opportunity on Monday.

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	Probability of Violating Weather Constraints <sup>1</sup>										
Day	10%	0% Primary Concerns: Cumulus Cloud Rule									
ch	Weather Conditions								Additional Risk Criteria <sup>2</sup>		
aunch	Weather/Visi	bility:	None /7 m	ni.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
	Temp/Humid	ity:	81°F / 65%	) )	Cumulus	Few	4,000	8,000	Booster Recovery Weather:	Low	
	Liftoff Winds	(200'):	060° 10 - 1	5 mph					Solar Activity:	Low	
	Probability of Violating Weather Constraints										
Delay	10%	10% Primary Concerns: Cumulus Cloud Rule									
	Weather Conditions							Additional Risk Criteria			
24-Hour	Weather/Visibility: None / 7 mi.			i.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
24	Temp/Humidity: 81°F / 68%			Cumulus	Few	3,500	9,000	Booster Recovery Weather:	Low		
	<b>Liftoff Winds (200')</b> : 080° 10 - 15 mph							Solar Activity:	Low		
Notes	<ol> <li>The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window.</li> <li>Additional Risk Criteria, which are not included in the PoV, are mission-specific constraints that may not include all phenomena within each risk factor.</li> <li>See <a href="https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf">https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf</a> for more information</li> </ol>										
Next Forecast Will Be Issued											