



# Launch Mission Execution Forecast

**Mission:** Falcon 9 OneWeb 3

**Issued:** 6 Mar 2023 / 0930L (1430Z)

**Valid:** 9 Mar 2023 / 1405 – 1426L (1905 – 1926Z)



**Forecast Discussion:** A remnant weak boundary remains sprawled across the Florida peninsula today, with light wind flow in the presence of lingering low level moisture leading to seabreeze formation and potentially a few showers this afternoon. Another frontal system is forecast sweep down the peninsula late Tuesday into Tuesday night and may trigger a few light showers during that time frame, along with a resurgence of drier, northeast wind flow in its wake. High pressure will then build across the area for mid-week bringing fair conditions and onshore flow to the region. Another system is expected to track across the Tennessee Valley late in the week, dragging another front towards the eastern Gulf of Mexico and Florida by Friday. Moisture ahead of this boundary will increase Thursday into Friday, leading to more clouds Friday afternoon. Thus, the primary weather concerns for both launch day and the backup opportunity are the extent and depth of cumulus clouds.

Launch Day	Probability of Violating Weather Constraints <sup>1</sup>					
	<b>5%</b>	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria <sup>2</sup>	
	<b>Weather/Visibility:</b> None / 7 mi.	<b>Clouds</b>			<b>Upper-Level Wind Shear:</b> Low <b>Solar Activity:</b> Low	
<b>Temp/Humidity:</b> 73°F / 60%	Type	Coverage	Base (ft)	Tops (ft)		
<b>Liftoff Winds (200'):</b> 080° 15 - 20 mph	Cumulus	Scattered	3,000	7,000		
	Cirrus	Scattered	27,000	31,000		
24-Hour Delay	Probability of Violating Weather Constraints					
	<b>15%</b>	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	<b>Weather/Visibility:</b> None / 7 mi.	<b>Clouds</b>			<b>Upper-Level Wind Shear:</b> Low <b>Solar Activity:</b> Low	
<b>Temp/Humidity:</b> 76°F / 55%	Type	Coverage	Base (ft)	Tops (ft)		
<b>Liftoff Winds (200'):</b> 150° 15 - 20 mph	Cumulus	Scattered	3,000	9,000		
	Cirrus	Scattered	27,000	34,000		
Notes	<ol style="list-style-type: none"> <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> </ol>					
	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					

**Next Forecast Will Be Issued** 7 Mar 2023