



Launch Mission Execution Forecast

Mission: Falcon 9 OneWeb 3

Issued: 8 Mar 2023 / 0830L (1330Z)

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



Forecast Discussion: A surface boundary continues to sweep south across the central Florida peninsula this morning. This front is expected to pass through the area mainly dry, with just a few clouds ahead and along the boundary. However, its passage will lead to a resurgence of northeast winds this afternoon. High pressure will then build across the area tonight into tomorrow 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 Friday, leading to more clouds by the afternoon. The threat for showers is expected to hold off until after the Friday backup launch window. Thus, the primary weather concerns for both launch day and the backup opportunity are the extent and depth of cumulus clouds.

		Probability of Violating Weather Constraints ¹					
Launch Day	5%	Primary Concerns: Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria ²		
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear: Low	Solar Activity: Low
	Temp/Humidity: 74°F / 65%	Type	Coverage	Base (ft)	Tops (ft)		
Liftoff Winds (200'): 080° 15 - 20 mph	Cumulus	Scattered	3,000	7,000			
	Cirrus	Scattered	27,000	31,000			
		Probability of Violating Weather Constraints					
24-Hour Delay	15%	Primary Concerns: Cumulus Cloud Rule					
	Weather Conditions				Additional Risk Criteria		
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear Low	Solar Activity: Low
	Temp/Humidity: 76°F / 55%	Type	Coverage	Base (ft)	Tops (ft)		
Liftoff Winds (200'): 200° 15 - 20 mph	Cumulus	Scattered	3,000	9,000			
	Cirrus	Scattered	27,000	34,000			
Notes	<ol style="list-style-type: none"> The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window. Additional Risk Criteria, which are not included in the PoV, are mission-specific constraints that may not include all phenomena within each risk factor. 						
	See https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf for more information						
Next Forecast Will Be Issued		As Required					