



Launch Mission Execution Forecast

Mission: Falcon 9 OneWeb 1

Issued: 04 Dec 2022 / 0900L (1400Z)

Valid: 06 Dec 2022 / 1732 – 1742L (2232 – 2242Z)



Forecast Discussion: A weak frontal boundary will settle into North Florida today and will sag into Central Florida on Monday. The boundary will become extremely diffuse due to a lack of support aloft. Partly cloudy skies and mostly dry conditions are expected, but brief periods of drizzle may be possible near the coastline. On Tuesday, high pressure will build across the Gulf of Mexico, pushing the boundary east into the Atlantic. The weather pattern looks excellent for a launch attempt late Tuesday afternoon with the Cumulus Cloud and Thick Cloud Layers Rule being only a minor concern.

Only subtle changes to the weather pattern occur on Wednesday, as high pressure continues to build across the eastern Gulf of Mexico. Winds will veer to the northeast and become breezier, with subtle moisture increases in the low levels. The only minor concern for the backup launch window at this time will be the Cumulus Cloud Rule.

Launch Day	Probability of Violating Weather Constraints ¹																			
	10%	Primary Concerns: Cumulus Cloud Rule, Thick Cloud Layers Rule																		
	Weather Conditions				Additional Risk Criteria ²															
	Weather/Visibility: None / 7 mi.	<table border="1"> <thead> <tr> <th colspan="4">Clouds</th> </tr> <tr> <th>Type</th> <th>Coverage</th> <th>Base (ft)</th> <th>Tops (ft)</th> </tr> </thead> <tbody> <tr> <td>Cumulus</td> <td>Scattered</td> <td>3,000</td> <td>7,000</td> </tr> <tr> <td>Cirrostratus</td> <td>Few</td> <td>23,000</td> <td>26,000</td> </tr> </tbody> </table>			Clouds				Type	Coverage	Base (ft)	Tops (ft)	Cumulus	Scattered	3,000	7,000	Cirrostratus	Few	23,000	26,000
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Cumulus	Scattered	3,000	7,000																	
Cirrostratus	Few	23,000	26,000																	
Temp/Humidity: 72°F / 80%				Solar Activity: Low																
Liftoff Winds (200'): 20° 8 - 12 mph																				

24-Hour Delay	Probability of Violating Weather Constraints															
	10%	Primary Concerns: Cumulus Cloud Rule														
	Weather Conditions				Additional Risk Criteria											
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Clouds																
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Cumulus	Scattered	2,000	9,000													
Temp/Humidity: 74°F / 80%				Solar Activity: Low												
Liftoff Winds (200'): 40° 10 - 15 mph																

Notes

- The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring anytime 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 5 Dec 2022