



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-1

Issued: 21 Feb 2023 / 0900L (1400Z)

Valid: 23 Feb 2023/ 1337 – 1850L (1837-2350Z)



Forecast Discussion: Not much change in the forecast for this mission. A strong high-pressure system will remain in control of the weather across the Florida peninsula through the remainder of the week. This will result in mainly fair skies and relatively light low-level winds. Moisture will remain limited in the wake of the previous system that moved over the area last weekend. Therefore, expect only scattered cumulus clouds across the area and they are not expected to play a significant role in the weather for the launch. The primary weather concern is for the Cumulus Cloud Rule. In the event of a 24-hour delay, weather conditions remain relatively unchanged. Light winds and scattered clouds are likely once again. The primary concern is for the Cumulus Cloud Rule.

		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.	<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>6,000</td> </tr> </tbody> </table>			Clouds				Type	Coverage	Base (ft)	Tops (ft)	Cumulus	Scattered	3,000	6,000	Upper-Level Wind Shear: Low
	Clouds																
Type	Coverage	Base (ft)	Tops (ft)														
Cumulus	Scattered	3,000	6,000														
Temp/Humidity: 82°F / 61%				Booster Recovery Weather: Low													
Liftoff Winds (200'): 160° 12 - 17 mph				Solar Activity: Low													
		Probability of Violating Weather Constraints															
24-Hour Delay	5%	Primary Concerns: Cumulus Cloud Rule															
	Weather Conditions			Additional Risk Criteria													
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	Clouds																
Type	Coverage	Base (ft)	Tops (ft)														
Cumulus	Scattered	3,000	6,000														
Temp/Humidity: 79°F / 65%				Booster Recovery Weather: Low													
Liftoff Winds (200'): 080° 7 - 12 mph				Solar Activity: Low													
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		22 Feb 2023															