



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-62

Issued: 21 May 2024 / 0830L (1230Z)

Valid: 22 May 2024 / 2233 – 23/0233L (23/0233 – 0633Z)



Forecast Discussion: East-northeasterly winds are expected today around an area of low pressure to the east of Florida that will continue to drift farther east through the day. With the onshore flow, a few showers or a storm may move across the Spaceport at times, with the highest chances midday with the development of the east coast sea breeze. As this feature moves farther out to sea on Wednesday, it will pull in drier air that will limit shower and storm chances along the coast for mid-week. While a shower or storm can't be ruled out as the east coast sea breeze develops and moves inland Wednesday and Thursday, any activity is expected to be well inland by the late evening hours and not pose any launch weather concerns. Conditions will be dry enough that even the threat for nocturnal Atlantic showers will be limited, but anytime flow comes off the water these can't be ruled out, posing a very small Cumulus Cloud Rule concern for both the primary and backup launch windows.

Launch Day	Probability of Violating Weather Constraints ¹					
	5%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria ²	
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
Temp/Humidity: 78°F / 81%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low	
Liftoff Winds (200'): 110° 10 - 15 mph	Cumulus	Scattered	2,500	5,000	Solar Activity: Low	
	Cirrus	Scattered	30,000	35,000		
24-Hour Delay	Probability of Violating Weather Constraints					
	5%	Primary Concerns: Cumulus Cloud Rule				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds			Upper-Level Wind Shear: Low	
Temp/Humidity: 77°F / 79%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low	
Liftoff Winds (200'): 110° 10 - 15 mph	Cumulus	Scattered	2,500	5,000	Solar Activity: Low	
	Cirrus	Scattered	25,000	30,000		
Notes	1. The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window. 2. 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 Needed				