

Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 6-16

Issued: 13 Sep 23 / 1200L (1600Z)

Valid: 14 Sep 23 / 2030 – 15 / 0031L (15 / 0030 – 0401Z)



Forecast Discussion: A stalled trough will continue to linger across the eastern CONUS today, effectively steering Hurricane Lee to the north and away from the coastline. Isolated to scattered showers and storms will again concentrate across interior Florida in the afternoon. With an upper-level push, the trough will begin to sink toward the southeast Thursday as front itself noses into North Florida Thursday evening. In addition to sea breeze storms across interior Florida, a moisture surge ahead of the front may push coastal showers toward the Space Coast Thursday evening. As a result, Cumulus Cloud Rule and Anvil Cloud Rules will be the main concerns for the primary launch day.

On Friday, the front will progress southward to Central Florida, bringing deeper moisture into peninsula. Shower and storm coverage will be higher for the backup launch window Friday evening. The Cumulus Cloud and Anvil Cloud Rules will continue to be the main concerns for launch.

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	Probability of Violating Weather Constraints ¹										
Day	35%	35% Primary Concerns: Cumulus Cloud Rule, Anvil Rules									
ch	Weather Conditions								Additional Risk Criteria ²		
aunch	Weather/Visibility:		Sct Showers / 7 mi.		Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
_	Temp/Humidity:		79°F / 80%		Cumulus	Scattered	3,000	12,000	Booster Recovery Weather:	<mark>Mod</mark>	
	Liftoff Winds	(200'):	040° 10 - 1	5 mph	Altocumulus	Scattered	12,000	16,000	Solar Activity:	Low	
,	Probability of Violating Weather Constraints										
Delay	55%	55% Primary Concerns: Cumulus Cloud Rule, Anvil Rules									
	Weather Conditions								Additional Risk Criteria		
24-Hour	Weather/Visibility: Sct Showe			rs / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
24	Temp/Humidity: 78°F / 75%		•	Cumulus	Scattered	4,000	12,000	Booster Recovery Weather:	Low-Mod		
	Liftoff Winds (200') : 070° 17 - 22 mp			2 mph	Altocumulus	Broken	14,000	18,000	Solar Activity:	Low	
Notes											
Š	See https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf for more information										
Next Forecast Will Be Issued											