

Launch Mission Execution Forecast

Mission: Falcon 9 Starlink-L24

Issued: 27 Apr 2021 / 1500L (1900Z)

Valid: 28 Apr 2021 / 2334 – 29/0045L (29/0334 – 0445Z)



Forecast Discussion: High pressure will gradually slide eastward into the Atlantic through early Thursday, and quiet weather with breezy flow will continue across the Spaceport. Expect plentiful sunshine with winds shifting to the southeast. Brisk flow around the high pressure ridge of 15-20 mph will continue. As a result, the primary concern during the launch late Wednesday night will be Liftoff Winds.

A change comes Thursday through early Friday as a cold front approaches the deep south, and the high pressure ridge slides farther eastward into the Central Atlantic. Tropical moisture wrapping around the western periphery of the high pressure ridge will lift northward through the Florida Peninsula, bringing low clouds and isolated shower activity to the Spaceport as early as Thursday night. Despite a cloudy sky, cloud-tops are not expected to be tall enough to trigger any Lightning Launch Commit Criteria concerns. A tightening pressure gradient will cause winds to increase out of the south to 20-25 mph. As a result, the primary concern for the backup window Thursday night will be Liftoff Winds.

	Probability of Violating Weather Constraints									
Day	20%	Primary Concerns: Liftoff Winds								
ch	Weather Conditions								Additional Risk Criteria	
aunch	Weather/Visibility: None / 7			ni.	Clouds Type Coverage Base (ft) Tops (ft)			Upper-Level Wind Shear:	Low	
_	Temp/Humid	ity:	70°F / 80%	, D	Cumulus	Scattered	2,000	2,500	Booster Recovery Weather:	Low
	Liftoff Winds	(200'):	130° 15 - 2	20 mph					Solar Activity:	Low
	Probability of Violating Weather Constraints									
Delay	30% Primary Concerns: Liftoff Winds									
	Weather Conditions								Additional Risk Criteria	
24-Hour	Weather/Visibility: Iso Shower			rs / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
24	Temp/Humidity: 73°F / 80%		b	Cumulus	Broken	3,000	7,000	Booster Recovery Weather:	Moderate	
	Liftoff Winds (200') : 170° 20 - 25 mp			25 mph	nph				Solar Activity:	Low
Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.										
Next	lext Forecast Will Be Issued									