



Launch Mission Execution Forecast

Mission: Falcon Heavy USSF-44

Issued: 30 Oct 2022 / 0900L (1300Z)

Valid: 1 Nov 2022 / 0940 – 1011L (1340 – 1411Z)



Forecast Discussion: High pressure across the Mid-Atlantic will keep the Spaceport under easterly flow with occasional onshore moving Atlantic showers into Monday. The high will retreat early this week as a storm system moves into the Midwest, which will bring a weak frontal boundary through Central Florida on Tuesday with little fanfare.

Despite the front, the threat for showers over land will be low going into the primary launch window Tuesday morning, with fog and stratus potentially around in the morning. An isolated shower moving in from the Atlantic can't be ruled out, which will be the primary weather concern for the launch. Similar conditions are expected for the backup window Wednesday morning, with only a low threat for onshore moving cumulus as dry air moves in behind the front. Increasing pressure gradient will bump up onshore flow into Thursday, bringing an increase in cumulus clouds and Atlantic showers for the second backup window Thursday morning.

Launch Day	Probability of Violating Weather Constraints ¹				
	10%	Primary Concerns: Cumulus Cloud Rule			
	Weather Conditions			Additional Risk Criteria ²	
	Weather/Visibility: None / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)
Temp/Humidity: 78°F / 72%	Stratocumulus	Scattered	3,000	5,000	Solar Activity: Low
Liftoff Winds (200'): VRB 5 mph					

24-Hour Delay	Probability of Violating Weather Constraints				
	10%	Primary Concerns: Cumulus Cloud Rule			
	Weather Conditions			Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)
Temp/Humidity: 78°F / 65%	Cumulus	Scattered	3,000	6,000	Solar Activity: Low
Liftoff Winds (200'): 040° 5 - 10 mph	Cirrus	Scattered	30,000	33,000	

48-Hour Delay	Probability of Violating Weather Constraints				
	20%	Primary Concerns: Cumulus Cloud Rule			
	Weather Conditions			Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)
Temp/Humidity: 74°F / 70%	Cumulus	Scattered	3,000	10,000	Solar Activity: Low
Liftoff Winds (200'): 030° 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 31 Oct 22