

Launch Mission Execution Forecast

Mission: Falcon 9 SES-22

Issued: 28 Jun 2022 / 0800L (1200Z)

Valid: 29 Jun 2022 / 1703 – 1913L (2103 – 2313Z)



Forecast Discussion: Surface high pressure situated across the central Atlantic with ridge axis extending into the Carolinas will maintain deep easterly flow locally the remainder of the week. While this pattern favors afternoon thunderstorms largely contained to interior portions of the state, a few showers cannot be ruled out along the coast especially during the morning into early afternoon hours today and tomorrow. An increase in atmospheric moisture is expected to arrive Thursday into Friday ahead of a wave moving in from the Atlantic, resulting in greater cloud cover and higher chances for precipitation across the region.

Therefore the primary weather concern for both launch day and in the event of a 24-hour delay is extensive and sufficiently tall cumulus clouds.

	Probability of Violating Weather Constraints ¹									
Day	20% Primary Concerns: Cumulus Cloud Rule									
ıch	Weather Conditions							Additional Risk Criteria ²		
aunch	Weather/Visi	bility:	Isol Showers /7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
Ĩ	Temp/Humid	ity:	84°F / 68%	Cumulus	Scattered	3,000	12,000	Booster Recovery Weather:	Low	
	Liftoff Winds	(200'):	110° 15 - 20 mph					Solar Activity:	Low	
,	Probability of Violating Weather Constraints									
Delay	40%	40% Primary Concerns: Cumulus Cloud Rule								
	Weather Conditions							Additional Risk Criteria		
24-Hour	Weather/Visibility: Sct Showers / 7 mi. Clouds Type Coverage Base				Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low		
24	Temp/Humid	ity:	84°F / 73%	Cumulus	Broken	3,000	16,000	Booster Recovery Weather:	Low	
	Liftoff Winds	(200'):	120° 15 - 20 mph	Cirrostratus	Broken	25,000	30,000	Solar Activity:	Low	
Notes	1. The Proba	bility of V Risk Crite	/iolation (PoV) is the chanceria, which are not included	e of a local safety If in the PoV, are i	or customer c mission-specific	onstraint vic c constraints	plation occurri s that may no	Solar Activity: ng anytime during the launch window t include all phenomena within each pdf for more information	W.	