

Launch Mission Execution Forecast

Mission: Falcon 9 Intelsat G-33/G-34

lssued: Valid:

4 Oct 2022 / 0800L (1200Z) 6 Oct 2022 / 1906 – 2014L (2306 – 7/0014Z)



Forecast Discussion: Atlantic showers will accompany the passage of another cool front pushing through Central Florida today. These showers will mostly be light at the Spaceport, but occasional moderate activity is possible into this afternoon though no storms are expected. Northeast winds will pick up behind the boundary into this afternoon as high pressure moving into the southeastern US tightens the gradient. Breezy conditions will keep the threat for a few onshore moving showers into Wednesday morning before winds diminish, and conditions dry out.

High pressure over southeastern US will gradually be replaced by a stronger area of high pressure spilling out of the Central Plains, re-enforcing the cool and relatively dry airmass across the Spaceport to end the week. Northeasterly winds will slacken as the gradient relaxes, which along with dry air aloft will limit chances for any Atlantic shower activity heading into the primary launch window Thursday evening. While passing low topped cumulus or brief Atlantic sprinkle cannot completely be ruled out, the threat will be very low for any weather concerns. A very similar pattern is expected for a Friday evening attempt with a few more cirrus clouds overhead.

	Probability of Violating Weather Constraints ¹								
Day	<10% Primary Concerns: Cumulus Cloud Rule								
Launch	Weather Conditions							Additional Risk Criteria ²	
	Weather/Visi	bility:	None / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humid	ity:	76°F / 58%	Cumulus	Few	3,000	6,000	Booster Recovery Weather:	Low
	Liftoff Winds	(200') :	060° 5 - 10 mph					Solar Activity:	Low
	Probability of Violating Weather Constraints								
Delay	10% Primary Concerns: Cumulus Cloud Rule								
	Weather Conditions							Additional Risk Criteria	
24-Hour	Weather/Visi	bility:	None / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
24	Temp/Humid	ity:	76°F / 60%	Cumulus	Few	3,000	6,000	Booster Recovery Weather:	Low
	Liftoff Winds	(200') :	070° 5 - 10 mph	Cirrus	Few	35,000	38,000	Solar Activity:	Low
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. 								
Ζ	See <u>https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf</u> for more information								
Next Forecast Will Be Issued 5 Oct 2022									