



Launch Mission Execution Forecast



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

Issued: 5 Oct 2022 / 0900L (1300Z)

Valid: 6 Oct 2022 / 1906 – 2014L (2306 – 7/0014Z)

Forecast Discussion: High pressure over southeastern US will gradually be replaced by a stronger area of high pressure spilling out of the Central Plains over the next few days, re-enforcing the cool and relatively dry airmass across the Spaceport. This will allow the local pressure gradient to relax, with breezy northeasterly winds continuing to ease today into tomorrow. Dry and sunny weather will continue, limiting the threat for Atlantic showers 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 this and any other 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																			
Launch Day	<10%	Primary Concerns: Cumulus Cloud Rule																			
	Weather Conditions			Additional Risk Criteria ²																	
	Weather/Visibility: None / 7 mi.	<table border="1"> <thead> <tr> <th colspan="4">Clouds</th> </tr> <tr> <th>Type</th> <th>Coverage</th> <th>Base (ft)</th> <th>Tops (ft)</th> </tr> </thead> <tbody> <tr> <td>Cumulus</td> <td>Few</td> <td>3,000</td> <td>6,000</td> </tr> </tbody> </table>			Clouds				Type	Coverage	Base (ft)	Tops (ft)	Cumulus	Few	3,000	6,000	Upper-Level Wind Shear: Low				
	Clouds																				
Type	Coverage	Base (ft)	Tops (ft)																		
Cumulus	Few	3,000	6,000																		
Temp/Humidity: 76°F / 58%				Booster Recovery Weather: Low																	
Liftoff Winds (200'): 060° 5 - 10 mph				Solar Activity: Low																	
		Probability of Violating Weather Constraints																			
24-Hour Delay	10%	Primary Concerns: Cumulus Cloud Rule																			
	Weather Conditions			Additional Risk Criteria																	
	Weather/Visibility: None / 7 mi.	<table border="1"> <thead> <tr> <th colspan="4">Clouds</th> </tr> <tr> <th>Type</th> <th>Coverage</th> <th>Base (ft)</th> <th>Tops (ft)</th> </tr> </thead> <tbody> <tr> <td>Cumulus</td> <td>Few</td> <td>3,000</td> <td>6,000</td> </tr> <tr> <td>Cirrus</td> <td>Few</td> <td>35,000</td> <td>38,000</td> </tr> </tbody> </table>			Clouds				Type	Coverage	Base (ft)	Tops (ft)	Cumulus	Few	3,000	6,000	Cirrus	Few	35,000	38,000	Upper-Level Wind Shear: Low
	Clouds																				
Type	Coverage	Base (ft)	Tops (ft)																		
Cumulus	Few	3,000	6,000																		
Cirrus	Few	35,000	38,000																		
Temp/Humidity: 76°F / 60%				Booster Recovery Weather: Low																	
Liftoff Winds (200'): 070° 5 - 10 mph				Solar Activity: Low																	
Notes	<ol style="list-style-type: none"> 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		As Needed																			