



Launch Mission Execution Forecast

Mission: Falcon 9 TelkomSat-113BT

Issued: 19 Feb 2024 / 0930L (1430Z)

Valid: 20 Feb 2024 / 1511 – 1711L (2011 – 2211Z)



Forecast Discussion: The overcast, rainy conditions will clear out late Monday morning as the low-pressure system, currently to the east, continues to track eastward. Both Tuesday and Wednesday should see favorable weather conditions over the Cape, as high pressure over the central Gulf of Mexico slowly drifts eastward. For the launch day, weather conditions are expected to be almost ideal with a slight possibility of a stray cumulus or cirrus cloud during the window. As such, the likelihood of a weather constraint violation is very low.

For the backup day, weather conditions will be much like Tuesday, with the only notable difference being stronger winds aloft. The recovery area may also see slightly stronger winds and rougher seas on the backup day.

Launch Day		Probability of Violating Weather Constraints ¹																
Launch Day	<5%	Primary Concerns: Cumulus Clouds 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>2,000</td> <td>3,000</td> </tr> </tbody> </table>				Clouds				Type	Coverage	Base (ft)	Tops (ft)	Cumulus	Few	2,000	3,000	Upper-Level Wind Shear: Low
	Clouds																	
Type	Coverage	Base (ft)	Tops (ft)															
Cumulus	Few	2,000	3,000															
Temp/Humidity: 63°F / 67%					Booster Recovery Weather: Low													
Liftoff Winds (200'): 350° 16 - 24 mph					Solar Activity: Low													
24-Hour Delay		Probability of Violating Weather Constraints																
24-Hour Delay	5%	Primary Concerns: Liftoff Winds																
	Weather Conditions				Additional Risk Criteria													
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	Clouds																	
Type	Coverage	Base (ft)	Tops (ft)															
Cumulus	Few	2,000	4,000															
Temp/Humidity: 63°F / 58%					Booster Recovery Weather: Low-Mod													
Liftoff Winds (200'): 350° 18 - 25 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 any random time 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. <p>See https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf for more information</p>																	
Next Forecast Will Be Issued		As Required																