



# Launch Mission Execution Forecast



**Mission:** Falcon 9 Starlink 6-100

**Issued:** 17 Jan 2026 / 0900L (1400Z)

**Valid:** 18 Jan 2026 / 1704 – 2104L (18/2204 – 19/0204Z)

**Forecast Discussion:** No change to previous forecast. Moisture will increase today ahead of a quickly moving front that is expected to pass through the Space Coast tomorrow. Timing of the front looks to be near the opening of the window, with scattered showers and considerable cloudiness primarily from early morning hours through midday. Lingering showers and clouds will lead to higher chances of violation for the Cumulus Cloud and Thick Cloud Rules at the opening of the launch window. Behind the front skies will rapidly clear, so the only concern by the end of the window will be Liftoff Winds. For the backup day, high pressure builds back in once again, with no concerns for violations due to weather.

Probability of Violating Weather Constraints <sup>1</sup>																													
<b>Launch Day</b>	<b>40→10%</b> Primary Concerns: Cumulus Cloud Rule, Thick Cloud Rule, Liftoff Winds																												
	Weather Conditions																												
	<table border="1"> <thead> <tr> <th rowspan="2">Weather/Visibility:</th> <th rowspan="2">Scat. Showers / 7 mi.</th> <th colspan="4">Clouds</th> <th rowspan="2">Upper-Level Wind Shear:</th> <th rowspan="2">Low</th> </tr> <tr> <th>Type</th> <th>Coverage</th> <th>Base (ft)</th> <th>Tops (ft)</th> </tr> </thead> <tbody> <tr> <td>Temp/Humidity:</td> <td>57°F / 85%</td> <td>Cumulus</td> <td>Scattered</td> <td>1,500</td> <td>11,000</td> <td>Booster Recovery Weather:</td> <td>Low</td> </tr> <tr> <td>Liftoff Winds (200'):</td> <td>320° 20 - 28 mph</td> <td>Cirrostratus</td> <td>Broken</td> <td>20,000</td> <td>26,000</td> <td>Solar Activity:</td> <td>Low</td> </tr> </tbody> </table>	Weather/Visibility:	Scat. Showers / 7 mi.	Clouds				Upper-Level Wind Shear:	Low	Type	Coverage	Base (ft)	Tops (ft)	Temp/Humidity:	57°F / 85%	Cumulus	Scattered	1,500	11,000	Booster Recovery Weather:	Low	Liftoff Winds (200'):	320° 20 - 28 mph	Cirrostratus	Broken	20,000	26,000	Solar Activity:	Low
	Weather/Visibility:			Scat. Showers / 7 mi.	Clouds					Upper-Level Wind Shear:	Low																		
Type		Coverage	Base (ft)		Tops (ft)																								
Temp/Humidity:	57°F / 85%	Cumulus	Scattered	1,500	11,000	Booster Recovery Weather:	Low																						
Liftoff Winds (200'):	320° 20 - 28 mph	Cirrostratus	Broken	20,000	26,000	Solar Activity:	Low																						
Additional Risk Criteria <sup>2</sup>																													
Probability of Violating Weather Constraints																													
<b>24-Hour Delay</b>	<b>&lt;5%</b> Primary Concerns: None																												
	Weather Conditions																												
	<table border="1"> <thead> <tr> <th rowspan="2">Weather/Visibility:</th> <th rowspan="2">None / 7 mi.</th> <th colspan="4">Clouds</th> <th rowspan="2">Upper-Level Wind Shear:</th> <th rowspan="2">Low</th> </tr> <tr> <th>Type</th> <th>Coverage</th> <th>Base (ft)</th> <th>Tops (ft)</th> </tr> </thead> <tbody> <tr> <td>Temp/Humidity:</td> <td>53°F / 50%</td> <td>Stratocumulus</td> <td>Few</td> <td>4,000</td> <td>6,000</td> <td>Booster Recovery Weather:</td> <td>Low</td> </tr> <tr> <td>Liftoff Winds (200'):</td> <td>360° 12 - 18 mph</td> <td>Cirrus</td> <td>Scattered</td> <td>25,000</td> <td>30,000</td> <td>Solar Activity:</td> <td>Low</td> </tr> </tbody> </table>	Weather/Visibility:	None / 7 mi.	Clouds				Upper-Level Wind Shear:	Low	Type	Coverage	Base (ft)	Tops (ft)	Temp/Humidity:	53°F / 50%	Stratocumulus	Few	4,000	6,000	Booster Recovery Weather:	Low	Liftoff Winds (200'):	360° 12 - 18 mph	Cirrus	Scattered	25,000	30,000	Solar Activity:	Low
	Weather/Visibility:			None / 7 mi.	Clouds					Upper-Level Wind Shear:	Low																		
Type		Coverage	Base (ft)		Tops (ft)																								
Temp/Humidity:	53°F / 50%	Stratocumulus	Few	4,000	6,000	Booster Recovery Weather:	Low																						
Liftoff Winds (200'):	360° 12 - 18 mph	Cirrus	Scattered	25,000	30,000	Solar Activity:	Low																						
Additional Risk Criteria																													
<b>Notes</b>	<ol style="list-style-type: none"> <li>The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window.</li> <li>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 <b>Launch FAQ</b> <a href="https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html">https://45thweathersquadron.nebula.spaceforce.mil/pages/launchForecastSupport.html</a> for more information</li> </ol>																												
	<table border="1"> <tr> <td><b>Next Forecast Will Be Issued</b></td> <td>As Needed</td> </tr> </table>	<b>Next Forecast Will Be Issued</b>	As Needed																										
<b>Next Forecast Will Be Issued</b>	As Needed																												