



# Launch Mission Execution Forecast

**Mission:** Falcon 9 StarlinkV1.0-L3

**Issued:** 28 Jan 2020/1000L (1500Z)

**Valid:** 29 Jan 2020/0901-0912L (1401-1412Z)

Synoptic Discussion:

Weak high pressure will be in control of the weather across Florida today, as the next system in the active pattern moves across the northern Gulf of Mexico late tonight. This system is expected to remain well west of the Spaceport during the launch window, with increasing high clouds overspreading the region. The main concern will be light easterly winds bringing onshore moving low level cumulus clouds. Maximum upper-level winds will be from the west at 100 knots near 35,000 feet.

Showers are expected across the Spaceport Wednesday afternoon and evening as the weak area of low pressure crosses the Florida peninsula. This system is expected to be east of the state by Thursday morning, though some clouds and potentially light showers may linger, bringing a cumulus and thick cloud concern for the backup launch window. Maximum upper-level winds will be from the west at 110 knots near 35,000 feet.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Stratocumulus	Scattered	3,000	5,000
Cirrus	Scattered	30,000	35,000

<b>Weather:</b> None	<b>Solar Activity:</b> Low
<b>Surface Visibility:</b> 7 Miles	<b>Pressure:</b> 29.97 inHg
<b>Liftoff Winds (MPH):</b> 080° @ 5-10 (200')	<b>RH:</b> 65%
<b>Temperature:</b> 66°F	

**Launch day probability of violating launch weather constraints: 20%**  
**Primary concern(s):** Cumulus Cloud Rule

**Delay day probability of violating launch weather constraints: 30%**  
**Primary concern(s):** Thick Cloud Layer, Cumulus Cloud Rule

\*\*The probability of violation does not include mission & launch vehicle specific upper-level wind criteria.\*\*

<b>Sunrise:</b> 29/0711L 30/0711L	<b>Sunset:</b> 29/1759L 30/1759L
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<b>Moonrise:</b> 29/1012L 30/1042L	<b>Moonset:</b> 29/2018L 30/2310L	<b>Illumination:</b> 22% 30%
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**Next forecast will be issued:** As Required