



## Launch Mission Execution Forecast

**Mission:** Falcon 9 Dragon CRS-18

**Issued:** 24 July 2019/1900 EDT (2300 UTC)

**Valid:** 25 July 2019/1758-1803 EDT (2158-2203 UTC)

**Synoptic Discussion:** A cold front will remain nearly stationary across northern Florida tonight into tomorrow. Showers and thunderstorms are expected to once again develop across the eastern Gulf of Mexico and western Florida peninsula late tomorrow morning and spread east towards the Space Coast during the afternoon. Thus the primary weather concerns for launch are those thunderstorms and their associated cumulus clouds and anvil clouds.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Cumulus	Scattered	3,000	12,000
Altostratus	Broken	12,000	18,000
Cirrostratus	Broken	24,000	30,000

<b>Weather:</b>	Showers and isolated thunderstorms		
<b>Surface Visibility:</b>	7 Miles	<b>Solar Activity:</b>	Low
<b>Liftoff Winds (MPH):</b>	250° @ 10-15 (200')	<b>Pressure:</b>	30.03 inHg
<b>Temperature:</b>	82°F	<b>RH:</b>	75%

**Launch day probability of violating launch weather constraints:** **70%**

**Primary concern(s):** Anvil Cloud Rule, Cumulus Cloud Rule, Lightning Rule

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

**Sunrise:** 25/0641 EDT

**Sunset:** 25/2018 EDT

**Moonrise:** 25/0109 EDT

**Moonset:** 25/1412 EDT

**Illumination:** 44%

**Next forecast will be issued:** As Required