



## Launch Mission Execution Forecast

**Vehicle:** Falcon 9 Telstar-19V

**Issued:** 20 Jul 2018/1200 EDT(1600 UTC)

**Valid:** 22 Jul 2018/0150–0550 EDT (0550-0950 UTC)

**Synoptic Discussion:** A weak boundary has slowly moved into northern Florida while the subtropical ridge axis remains well south of the Space Coast. These combine to create southwest winds which impede the westward movement of the sea breeze and keep afternoon thunderstorms over the Spaceport. On Saturday the boundary is forecast to move into Central Florida, allowing the clouds and storms to linger later into the night than typical. The primary weather concerns for Sunday remain cumulus clouds and thick layer clouds. Maximum upper-level winds will be from the west at 30 knots at 40,000 feet.

On Sunday, the boundary will remain in the vicinity of Central Florida, keeping chances for clouds and unsettled weather to remain into the early morning hours. The weather concerns for Monday remain cumulus & thick cloud layers. Maximum upper-level winds will be southwesterly at 30 knots at 42,000 feet.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Stratocumulus	Few	2,500	4,000
Alto cumulus	Scattered	12,000	15,000
Cirrostratus	Broken	22,000	25,000

<b>Weather:</b>	Isolated Rain Showers	
<b>Surface Visibility:</b>	7 miles	
<b>Liftoff Winds (MPH):</b>	250° @ 15-20 (200')	<b>Solar Activity:</b> Low
<b>Temperature:</b>	80°F	<b>Pressure:</b> 29.95 inHg
		<b>RH:</b> 88%

**Launch day probability of violating launch weather constraints:** **40%**  
**Primary concern(s):** Thick Cloud Layer Rule, Cumulus Cloud Rule

**Delay day probability of violating launch weather constraints:** **40%**  
**Primary concern(s):** Thick Cloud Layer Rule, Cumulus Cloud Rule

**Sunrise:** 22/0639 EDT  
23/0639 EDT

**Sunset:** 22/2019 EDT  
23/2018 EDT

**Moonrise:** 21/1520 EDT  
22/1614 EDT

**Moonset:** 22/0237 EDT  
23/0317 EDT

**Illumination:** 77%  
85%

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