



## Launch Mission Execution Forecast

**Vehicle:** Falcon 9 GovSat-1

**Issued:** 31 Jan 2018/0930 EST(1430 UTC)

**Valid:** 31 Jan 2018/1625-1846 EST (2125-2346 UTC)

Synoptic Discussion: After a cool start to the day, temperatures will rebound quickly along the Space Coast with easterly winds bringing in some scattered low-level cloudiness. There is a very low risk these clouds will thicken to create tops near the 0°C level (~12,000 feet) which is needed for a thick cloud layer concern. Maximum upper-level winds will be from the west at 100 knots near 40,000 feet.

Similar weather conditions are expected Thursday, with an added increase in mid-level moisture, creating a greater threat of thick clouds. Max upper-level winds will be west at 80 knots near 45,000 feet.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Stratocumulus	Few	3,000	5,000

<b>Weather:</b> None	<b>Solar Activity:</b> Low
<b>Surface Visibility:</b> 7 Miles	<b>Pressure:</b> 30.28 inHg
<b>Liftoff Winds (MPH):</b> 080° @ 12-17 (200')	<b>RH:</b> 65%
<b>Temperature:</b> 62°F	

**Launch day probability of violating launch weather constraints:** <10%  
**Primary concern(s):** Thick Cloud Layer Rule

**Delay day probability of violating launch weather constraints:** 20%  
**Primary concern(s):** Thick Cloud Layer Rule

<b>Sunrise:</b> 31/0711 EST 01/0710 EST	<b>Sunset:</b> 31/1802 EST 01/1802 EST
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<b>Moonrise:</b> 31/1825 EST 01/1932 EST	<b>Moonset:</b> 01/0801 EST 02/0846 EST	<b>Illumination:</b> 100% 98%
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**Next forecast will be issued:** As Required