



## Launch Mission Execution Forecast

**Vehicle:** Falcon 9 GovSat-1

**Issued:** 26 Jan 2018/0900 EST(1400 UTC)

**Valid:** 30 Jan 2018/1625-1846 EST (2125-2346 UTC)

**Synoptic Discussion:** Expect another day of gusty winds along the Space Coast as the high pressure to the north slowly moves away. Winds will subside this evening and turn southeasterly tomorrow as a low pressure area begins to develop in the Gulf of Mexico. This will allow temperatures to reach over 70F with a very slight chance of coastal showers. On Sunday, weather will deteriorate as the low pressure area strengthens and moves across northern Florida. Gusty winds and rain showers are likely along with a few strong thunderstorms. Conditions begin to improve Monday as the low pressure area moves off to the northeast. Winds become northerly and brisk as cold air filters in behind the system. Launch day should be partly cloudy with northerly winds gusting to 30mph. Winds will slowly diminish though the launch window. The primary concern is liftoff winds. Max upper-level winds will be westerly at 120 knots at 40,000 feet.

Winds continue dropping off overnight, allowing maximum cooling and a very cold Wednesday morning with lows below 40F. Temperatures rebound quickly as winds turn easterly, bringing in low-level cloudiness and a risk of coastal showers. Mid-level moisture will also increase, creating a threat of thick cloud layers. Maximum upper-level winds will be from the west at 100 knots near 40,000 feet.

### Clouds

Stratocumulus  
Cirrus

### Coverage

Few  
Scattered

### Bases (feet)

2,500  
28,000

### Tops (feet)

4,000  
30,000

**Weather:** None

**Surface Visibility:** 7 miles

**Liftoff Winds (MPH):** 360° @ 25 P30 (200')

**Temperature:** 62°F

**Solar Activity:** Low

**Pressure:** 30.30 inHg

**RH:** 62%

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

**20%**

**Primary concern(s):** Liftoff Winds

**Delay day probability of violating launch weather constraints:**

**20%**

**Primary concern(s):** Thick Cloud Layer Rule

**Sunrise:** 30/0711 EST  
31/0711 EST

**Sunset:** 30/1801 EST  
31/1802 EST

**Moonrise:** 30/1718 EST  
31/1825 EST

**Moonset:** 31/0710 EST  
01/0801 EST

**Illumination:** 99%  
100%

**Next forecast will be issued:** 27 January 2018