



## Launch Mission Execution Forecast

**Vehicle:** Falcon 9 TESS

**Issued:** 14 Apr 2018 / 1100 EDT (1500 UTC)

**Valid:** 16 Apr 2018 / 1832 EDT (2232 UTC)

Synoptic Discussion: Southeasterly low-level winds are bringing light rain showers over the Space Coast this morning. Elsewhere, a vigorous cold front is moving through the western Gulf Coast states. By Sunday afternoon this front will make its way into Central Florida. There is a chance for strong storms Sunday evening before the system pushes south by early Monday morning. Skies will clear rapidly behind the front and winds will become gusty out of the west. The primary launch day weather concern is lingering strong winds behind the front. Maximum upper-level winds will be from the west at 70 knots near 36,000 feet.

On Tuesday, mostly clear skies will persist and winds will continue to decrease as the frontal system pushes further to the southeast. The primary weather concern for a Tuesday attempt remains liftoff winds. Maximum upper-level winds will be from the northwest at 50 knots near 40,000 feet.

### Clouds

Stratocumulus

### Coverage

Few

### Bases (feet)

2,500

### Tops (feet)

3,000

**Weather:** None

**Surface Visibility:** 7 miles

**Liftoff Winds (MPH):** 290° @ 20-25 (200')

**Temperature:** 69°F

**Solar Activity:** Low

**Pressure:** 30.03 inHg

**RH:** 55%

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

**20%**

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

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

**<10%**

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

**Sunrise:** 16/0656 EDT  
17/0655 EDT

**Sunset:** 16/1949 EDT  
17/1949 EDT

**Moonrise:** 16/0733 EDT  
17/0815 EDT

**Moonset:** 16/2036 EDT  
17/2139 EDT

**Illumination:** 1%  
3%

**Next forecast will be issued:** 15 April 2018