



# Launch Mission Execution Forecast

**Vehicle:** Falcon Heavy Flight-1 Demo  
**Issued:** 5 Feb 2018/0830 EST(1230 UTC)  
**Valid:** 6 Feb 2018/1330-1600 EST (1830-2100 UTC)

Synoptic Discussion: Cloudy skies should give way to some sunshine and northerly winds later today as a boundary moves south of the Space Coast. Tomorrow, winds will become easterly at 15 mph, bringing a few low-level clouds in off the water. The main weather concerns are liftoff winds and thick clouds. Maximum upper-level winds will be from the west at 90 knots near 40,000 feet.

On Wednesday, another frontal system moves into the Florida Panhandle, increasing upper-level cloudiness and shifting winds from the southwest. The main concerns remain thick clouds and liftoff winds. Maximum upper-level winds will be from the west at 80 knots near 45,000 feet.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Stratocumulus	Few	2,500	5,000
Altostratus	Scattered	15,000	18,000

<b>Weather:</b> None	<b>Solar Activity:</b> Low
<b>Surface Visibility:</b> 7 miles	<b>Pressure:</b> 30.29 inHg
<b>Liftoff Winds (MPH):</b> 090° @ 12-17 (200')	<b>RH:</b> 64%
<b>Temperature:</b> 70°F	

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

**Delay day probability of violating launch weather constraints:** **30%**  
**Primary concern(s):** Liftoff Winds, Thick Cloud Layer Rule

**Sunrise:** 6/0707 EST  
7/0706 EST

**Sunset:** 6/1806 EST  
7/1807 EST

**Moonrise:** 5/2333 EST  
7/0028 EST

**Moonset:** 6/1120 EST  
7/1157 EST

**Illumination:** 60%  
50%

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