



## Launch Mission Execution Forecast

**Vehicle:** Falcon 9 Bangabandhu-1

**Issued:** 10 May 2018/1900 EDT (2300 UTC)

**Valid:** 11 May 2018/1614-1821 EDT (2014-2221 UTC)

**Synoptic Discussion:** Upper-level clouds and low-level easterly winds will remain over Central Florida for the next several days. Elsewhere, an easterly wave is making its way towards the peninsula with showers and isolated thunderstorms. The primary weather concern for Friday will be the thick cloud layers rule. Maximum upper-level winds will be from the west at 70 knots near 40,000 feet.

On Saturday, the upper-level cloudiness will thicken and combine with clouds associated with the easterly wave. Isolated rain showers, mainly in the inland areas, could begin to form in the afternoon hours. The primary weather concerns for a launch Saturday are the cumulus cloud and thick cloud layer rules. Maximum upper-level winds will be from the southwest at 60 knots near 40,000 feet.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Cumulus	Few	2,500	4,000
Cirrostratus	Broken	28,000	31,000

<b>Weather:</b>	None	<b>Solar Activity:</b>	Low
<b>Surface Visibility:</b>	7 miles	<b>Pressure:</b>	30.07 inHg
<b>Liftoff Winds (MPH):</b>	090° @ 12-17 (200')	<b>RH:</b>	60%
<b>Temperature:</b>	79°F		

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

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

<b>Sunrise:</b>	11/0635 EDT 12/0634 EDT	<b>Sunset:</b>	11/2003 EDT 12/2004 EDT
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<b>Moonrise:</b>	11/0413 EDT 12/0450 EDT	<b>Moonset:</b>	11/1621 EDT 12/1719 EDT	<b>Illumination:</b>	17% 10%
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**Next forecast will be issued:** As Required