



Launch Mission Execution Forecast

Vehicle: Falcon 9 Dragon CRS-16

Issued: 4 Dec 2018/1000 EST(1500 UTC)

Valid: 5 Dec 2018/1312-1317 EST (1812-1817 UTC)

Synoptic Discussion: A cold front moved through Central Florida late yesterday through early this morning. The threat of precipitation has ended for the Space Coast, though low-level clouds will linger into the afternoon. Winds will stay northerly at the Spaceport today and become gusty tomorrow as the post-frontal high pressure area pushes south. Virtually clear skies are expected by Wednesday morning, bringing the low at the pad below 60°F. The primary weather concern for Wednesday's attempt will be Liftoff Winds. Maximum upper-level winds will be from the west at 90 knots near 40,000 feet.

On Thursday morning, lows will dip below 50°F along the Space Coast as winds remain from the north. During the day Thursday, winds will become northeasterly, moderating the temperature and bringing in some cloudiness off the ocean. On Friday, upper-level clouds will encroach over Central Florida but otherwise be much the same as Thursday, with onshore winds of 10-15 miles per hour over the Spaceport. The primary weather concern for Friday is Flight Through Precipitation with the persistent onshore flow. Maximum upper-level winds will be from the northwest at 80 knots near 40,000 feet.

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

Weather:	None	Solar Activity:	Low
Surface Visibility:	7 Miles	Pressure:	30.18 inHg
Liftoff Winds (MPH):	340° @ 20-25 (200')	RH:	50%
Temperature:	65°F		

Launch day probability of violating launch weather constraints: **10%**
Primary concern(s): Liftoff Winds

Delay day probability of violating launch weather constraints: **10%**
Primary concern(s): Flight Through Precipitation

Sunrise:	5/0700 EST 6/0701 EST 7/0702 EST	Sunset:	5/1725 EST 6/1726 EST 7/1726 EST
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Moonrise:	5/0516 EST 6/0614 EST 7/0710 EST	Moonset:	5/1633 EST 6/1715 EST 7/1800 EST	Illumination:	6% 2% 0%
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Next forecast will be issued: As Required