

Launch Mission Execution Forecast

Mission: Falcon 9 Dragon CRS-20 Issued: 5 Mar 2020/1100L (1600Z)

Valid: 6 Mar 2020/2346-2354L (0446-0454Z)

Synoptic Discussion: A low-pressure has formed along a frontal boundary and is currently nearing the Florida Panhandle. This is creating southwesterly winds and warm temperatures in Central Florida. As the day progresses, the Space Coast will see increasing cloudiness and isolated showers late. The cold front with its associated showers and isolated thunderstorms will push through the Spaceport early Friday as the low pushes up the Eastern Seaboard. Skies will clear through the day Friday, and winds will become gusty out of the north as the high-pressure area moves east. The primary weather concern for launch is Liftoff Winds with the tight pressure gradient behind the front.

On Saturday, the winds will weaken slightly and become northeasterly as the high-pressure area continues to move closer. The primary weather concern for Saturday evening remains Liftoff Winds.

<u>Clouds</u>	<u>Coverage</u>	Bases (feet)	Tops (feet)
Cirrus	Few	28.000	30.000

Visibility/Weather: 7 Miles

Liftoff Winds (MPH): 350° @ 25-30mph (200') **Pressure:** 30.18 inHg

Temperature: 56°F RH: 64%

Pro	bability of Violating Weather Constraints*	Other Risk C	riteria
		Upper-Level Shear	Low
40%	Liftoff Winds	Recovery Conds	Moderate
		Solar Activity	Low
24-Hour Delay 10%	Liftoff Winds	Upper-Level Shear	Low
		Recovery Conds	Low
		Solar Activity	Low
	40%		40% Liftoff Winds Upper-Level Shear Recovery Conds Solar Activity Upper-Level Shear Recovery Conds Recovery Conds

*The violation probabilities above do not include shear, recovery, or solar criteria.

Sunrise: 6/0641L 7/0640L **Sunset:** 6/1825L 7/1826L

 Moonrise:
 6/1512L 7/1619L
 Moonset:
 7/0516L 8/0703L (EDT)
 Illumination:
 90% 95%

Next forecast will be issued: As Required