



Launch Mission Execution Forecast

Vehicle: Falcon 9 Dragon CRS-17

Issued: 3 May 2019/0330 EDT (0730 UTC)

Valid: 4 May 2019/0245 – 0250 EDT (0645 – 0650 UTC)

Synoptic Discussion: As the upper-level low begins a turn towards the northeast, cloudiness should diminish through the day. Isolated showers and thunderstorms remain a threat across Central Florida as the atmosphere remains unstable. After sunset, clouds from any afternoon convection will begin to dissipate and should be mostly gone by T-0. The primary weather concerns for a Saturday morning attempt are flight through precipitation, cumulus clouds, and thick cloud layers. Maximum upper-level winds will be from the southwest at 45 knots near 45,000 feet.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Cumulus	Few	3,000	6,000
Altostratus	Scattered	10,000	12,000
Cirrostratus	Broken	25,000	28,000

Weather: None	Solar Activity: Low
Surface Visibility: 7 Miles	Pressure: 29.97 inHg
Liftoff Winds (MPH): 230° @ 15-20 (200')	RH: 85%
Temperature: 74°F	

Launch day probability of violating launch weather constraints: **30%**
Primary concern(s): Cumulus and Thick Cloud Layer Rules, Flight Through Precipitation

Sunrise: 4/0640 EDT

Sunset: 4/1959 EDT

Moonrise: 4/0642 EDT

Moonset: 4/1953 EDT

Illumination: 0%

Next forecast will be issued: As Required