



Launch Mission Execution Forecast

Vehicle: Falcon 9 PSN VI

Issued: 20 Feb 2019/1100 EST(1600 UTC)

Valid: 21 Feb 2019/2045-2117 EST (22/0145-0217 UTC)

Synoptic Discussion: Continued warm and partly cloudy conditions expected across Central Florida today. Southeast winds may bring a few shallow, isolated showers over the Space Coast, but thunderstorm risk remains very low with ridging in place, keeping mid-levels dry. Southeast winds will continue into the weekend, but will be lighter tomorrow and Friday. The primary weather concerns during launch attempts Thursday and Friday are cumulus clouds from showers and a slight risk of thick cloud layers reaching the 0°C level. Maximum upper level winds will be from the west at 60 knots near 40,000 feet each day.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Cumulus	Scattered	3,000	10,000
Altostratus	Scattered	8,000	10,000

Weather: Isolated Showers	Solar Activity: Low
Surface Visibility: 7 Miles	Pressure: 30.15 inHg
Liftoff Winds (MPH): 150° @ 15-20 (200')	RH: 82%
Temperature: 72°F	

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

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

Sunrise: 21/0655 EST
22/0654 EST

Sunset: 21/1817 EST
22/1818 EST

Moonrise: 21/2047 EST
22/2151 EST

Moonset: 22/0913 EST
23/0952 EST

Illumination: 94%
87%

Next forecast will be issued: As Required