



Launch Mission Execution Forecast

Mission: Falcon 9 StarlinkV1.0-L2

Issued: 5 Jan 2020/1200L (1700Z)

Valid: 6 Jan 2020/2109-2129L (7 Jan 0209-0229Z)

Synoptic Discussion:

Strong high pressure building across the southeastern US will bring cool and dry conditions along the Space Coast for the next few days. Expect mostly clear skies with winds becoming light and variable by Monday evening's launch window. Maximum upper-level winds will be westerly at 80 knots at 45,000 feet.

Winds will become westerly on Tuesday ahead of a weak front that will move into the region. Although moisture is limited, some cloudiness is expected ahead of the boundary. This will bring a concern for isolated cumulus clouds during Tuesday's backup launch window. Maximum upper-level winds will be from the southwest at 100 knots near 40,000 feet.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Cirrus	Few	25,000	28,000

Weather: None	Solar Activity: Low
Surface Visibility: 7 Miles	Pressure: 30.21 inHg
Liftoff Winds (MPH): VRB @ 5 MPH (200')	RH: 65%
Temperature: 55°F	

Launch day probability of violating launch weather constraints: <10%
Primary concern(s): Cumulus Cloud Rule

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

The probability of violation does not include mission & launch vehicle specific upper-level wind criteria.

Sunrise: 6/0715L
7/0715L

Sunset: 6/1740L
7/1741L

Moonrise: 6/1423L
7/1504L

Moonset: 7/0405L
8/0505L

Illumination: 85%
92%

Next forecast will be issued: As Needed