



# Launch Mission Execution Forecast

**Mission:** Falcon 9 Starlink-1

**Issued:** 10 Nov 19/1100L (1600Z)

**Valid:** 11 Nov 19/0950-1001L (1450-1501Z)

**Launch Weather Team:** (321) 853-8484

Synoptic Discussion: Spectacular weather will continue across Central Florida today as high pressure remains in control. Northeasterly winds could bring a few showers over the Space Coast, but they will be weak and short-lived. Similar conditions will remain in place through the launch window Monday, leaving a slight risk of showers and cumulus clouds with the onshore flow as the primary launch weather concern. Maximum upper-level winds will be from the northwest at 70 knots near 45,000 feet.

On Tuesday, winds will become southerly with a greater chance of coastal showers as a wave moves north along the warm Gulf Stream waters. The wave should begin to move east away from the Spaceport by launch time as the next cold front enters the Florida Panhandle. The main weather concern remains cumulus clouds. Maximum upper-level winds will be from the west at 85 knots near 45,000 feet.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Cumulus	Few	2,500	5,000
Cirrostratus	Scattered	28,000	30,000

<b>Weather:</b>	None	<b>Solar Activity:</b>	Low
<b>Surface Visibility:</b>	7 Miles	<b>Pressure:</b>	30.12 inHg
<b>Liftoff Winds (MPH):</b>	100° @ 12-17 (200')	<b>RH:</b>	65%
<b>Temperature:</b>	77°F		

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

**Delay day probability of violating launch weather constraints:** **30%**  
**Primary concern(s):** Cumulus Cloud Rule

\*\*The probability of violation does not include mission or launch vehicle specific upper-level wind criteria\*\*

<b>Sunrise:</b>	11/0642 L 12/0642 L	<b>Sunset:</b>	11/1731 L 12/1730 L
<b>Moonrise:</b>	11/1718 L 12/1754 L	<b>Moonset:</b>	11/0541 L 12/0637 L
		<b>Illumination:</b>	97% 100%

**Next forecast will be issued:** As Required