

Launch Mission Execution Forecast

Mission: Falcon 9 JCSAT-18

Issued: 15 Dec 2019/1300L (1800Z)

Valid: 16 Dec 2019/1910-2038L (17 Dec 0010-0138Z)

Synoptic Discussion:

High pressure across the region will slide east into the Atlantic on Monday, allowing increasing southeasterly flow along the Space Coast. Conditions look to remain dry for the launch window with only a few cumulus clouds. The primary weather concern for launch on Monday is cumulus clouds. Maximum upper-level winds will be from the west at 55 knots near 35,000 feet.

Another frontal boundary will move into the region Tuesday night. Increasing cloudiness associated with the boundary will reach the area by the launch window, with the potential for showers and a few storms ahead of the boundary before the launch window on Tuesday. However, it looks as though most of the precipitation associated with the boundary will reach the Space Coast after the backup launch window. The main weather concerns will be cumulus clouds and disturbed weather. Maximum upper-level winds will be from the north at 75 knots near 45,000 feet.

CloudsCoverageBases (feet)Tops (feet)CumulusScattered2,0004,000

Weather: None

Surface Visibility: 7 Miles

Liftoff Winds (MPH): 150° @ 15-20 (200')

Temperature: 73°F

Solar Activity: Low

Pressure: 30.07 inHg

RH: 85%

10%

50%

Launch day probability of violating launch weather constraints:

Primary concern(s): Cumulus Cloud Rule

Delay day probability of violating launch weather constraints:

Primary concern(s): Cumulus Cloud Rule, Disturbed Weather Rule

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

Next forecast will be issued: As Required