



Launch Mission Execution Forecast

Vehicle: Falcon 9 TESS

Issued: 17 Apr 2018 / 1030 EDT (1430 UTC)

Valid: 18 Apr 2018 / 1851 EDT (2251 UTC)

Synoptic Discussion: Mostly clear skies and decreasing northerly winds are on tap for Central Florida today as high pressure builds in from the Gulf of Mexico. Temperatures will approach 70F along the Space Coast. On Wednesday, winds will become southeasterly and a few low-topped cumulus clouds may form after noon over the Spaceport. The primary weather concern is a slight chance of cumulus reaching 15,000 feet. Maximum upper-level winds will be from the northwest at 50 knots near 37,000 feet.

On Thursday, upper-level clouds may build in ahead of the next system but should stay mostly thin and a low threat of violation. Winds will remain low and become southwesterly by launch time at the Spaceport. The primary weather concern is a slight risk the upper-level clouds will build down below 25,000 feet. Maximum upper-level winds will be from the west at 55 knots near 40,000 feet.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Cumulus	Few	3,000	5,000

Weather: None	Solar Activity: Low
Surface Visibility: 7 Miles	Pressure: 30.13 inHg
Liftoff Winds (MPH): 150° @ 10-15 (200')	RH: 60%
Temperature: 73°F	

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

Delay day probability of violating launch weather constraints: 10%
Primary concern(s): Thick Cloud Layer Rule

Sunrise: 18/0654 EDT 19/0653 EDT	Sunset: 18/1950 EDT 19/1950 EDT	
Moonrise: 18/0900 EDT 19/0949 EDT	Moonset: 18/2243 EDT 19/2346 EDT	Illumination: 9% 16%

Next forecast will be issued: As Required