



Launch Mission Execution Forecast

Vehicle: Atlas V

Issued: 16 March 09/1200Z (0800 EDT)

Launch Weather Team: (321) 853-8484

Synoptic Discussion: A cold front remains just North of the Florida peninsula. The front slowly tracks South into the peninsula today and is expected to slowly migrate through Central Florida on Tuesday. The front is expected to be South of Central Florida by the launch window; however, residual moisture and clouds are slow to clear. The pressure gradient tightens through the day with gusty winds in the mid 20s expected (230 feet). For MLP roll, Southerly winds gusting in the low to mid teens with a small threat of an isolated shower are expected. On launch day, the boundary slowly migrates over the area. Cloudy conditions accompanied by isolated rainshowers are expected with a slow gradual clearing trend beginning early evening. There is a small threat of isolated thunderstorms associated with the front. Gusty winds associated with the front are expected during the afternoon and evening hours gusting in the mid 20s. The primary concerns for launch day are thick clouds and gusty ground winds. In the event of a 24 hour delay, the front remains to the South with residual moisture over the Central peninsula. The primary concerns for a 24 hour delay are thick clouds and cumulus clouds associated with an isolated shower.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Stratocumulus	Scattered	3,000	6,000
Altostratus	Broken	10,000	14,000
Cirrus	Broken	25,000	28,000

Weather:	Isolated Showers	Solar Activity:	Low
Visibility:	7 miles	Pressure:	30.10 INS
Wind:	040° @ 20-25 KT (230')	RH:	80%
Temperature:	68° - 69° F		

Launch day overall probability of violating weather constraints: 40%

Primary concern(s): Thick Clouds, Gusty Ground Winds

24-hour delay overall probability of violating weather constraints 30%

Primary concern(s): Cumulus Clouds

48-hour delay overall probability of violating weather constraints N/A

Primary concern(s): N/A

Sunrise:	16/0731 EDT	Sunset:	16/1932 EDT
	17/0730 EDT		17/1932 EDT
	18/0728 EDT		18/1933 EDT

Moonrise:	16/0020 EDT	Moonset:	16/1044 EDT	Illumination:	16 Mar	73%
	17/0116 EDT		17/1131 EDT		17 Mar	65%
	18/0209 EDT		18/1222 EDT		18 Mar	55%

Next forecast will be issued: As Required