



Launch Mission Execution Forecast

Vehicle: Atlas V AV-069 GOES-R

Issued: 16 November 2016/1300Z (0800 EST)

Launch Weather Team: (321) 853-8484

Synoptic Discussion: High pressure continues to build into Central Florida with favorable weather expected into launch day. A tropical disturbance in the southwest Caribbean is expected to remain in southwest Caribbean through launch day. For MLP Roll on Friday, high pressure centered over the Carolinas will provide on shore east-northeast and northeast winds with a small coastal shower threat. No thunderstorms are expected. Winds during the roll period expected in the low to mid-teens (230 ft) through the morning hours and in the mid to upper teens during the afternoon. On launch day, high pressure persists over Central Florida as the next relatively dry cold front pushes into the Florida panhandle Saturday morning. Weather remains favorable during the count and window with a small isolated shower threat. Winds will be from the north and north-northwest with gusts in the mid to upper teens (230 ft) during the count and mid-teens during the window. The aforementioned tropical disturbance is expected to remain in the Western Caribbean. Concerning solar weather, there is a low threat of proton flux exceeding constraints. The primary concern for launch is Cumulus Clouds. In the event of a 24-hour delay, the aforementioned cold front pushes into Central Florida late Saturday evening and overnight Sunday morning with limited moisture, a strengthening pressure gradient, and a low isolated shower threat during the count and window. Gusty winds in the mid-20s overnight subside through the afternoon on Sunday. The primary concerns for a 24-hour delay are Cumulus Clouds.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Cumulus	Scattered	3,500	6,000
Cirrostratus	Scattered	28,000	30,000
Weather:	Isolated Shower		
Visibility:	7 miles		
Wind:	330° @ 10-15 KT (230')		Solar Activity: Low
Temperature:	72° - 73° F		Pressure: 30.07INS
		RH: 65%	

Launch day overall probability of violating weather constraints: 10%

Primary concern(s): Cumulus Clouds

24-hour delay overall probability of violating weather constraints 20%

Primary concern(s): Cumulus Clouds

Sunrise:	19/0648 EST 20/0649 EST 21/0650 EST	Sunset:	19/1727 EST 20/1727 EST 21/1727 EST
Moonrise:	18/2155 EST 19/2255 EST 20/2353 EST	Moonset:	19/1138 EST 20/1222 EST 21/1303 EST
		Illumination:	19 Nov 72% 20 Nov 62% 21 Nov 52%

Next forecast will be issued: 17 November 2016, 0800 EST