



Launch Mission Execution Forecast

Vehicle: Falcon 9 BulgariaSat-1

Issued: 21 June 2017/1230 UTC (0830 EDT)

Valid: 23 June 2017/1810 – 2010 UTC (1410 – 1610 EDT)

Synoptic Discussion: Tropical Storm Cindy has formed in the central Gulf of Mexico and is poised to make landfall tomorrow morning near the border between Texas and Louisiana. As the storm moves north, weather in Central Florida will continue its favorable trend of decreasing thunderstorm coverage through the weekend. Winds in the low and mid-levels become more south-southeasterly helping steer sea breeze generated convection away from the Space Coast. An isolated shower over the Spaceport during the morning hours is the main weather concern for the next several days. Winds will be breezy from the southeast each afternoon with gusts to 25 mph. Starting Friday, an upper-level ridge and associated dry air will build over the Florida peninsula producing favorable conditions for the weekend. Expect a small threat for on-shore showers in the morning hours with cumulus clouds forming mainly west of the Spaceport during the latter part of the countdown. The main weather concern will be cumulus clouds. Maximum upper-level winds will be from the southeast at 20 knots near 40,000 feet.

On Saturday, similar favorable conditions are expected with a slight increased threat for cumulus cloud formation closer to the pad; however, the main cumulus field should be focused over the western portions of the Spaceport. Maximum upper-level winds will be southeasterly at 15 knots at 43,000 feet.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Cumulus	Scattered	3,000	15,000

Weather:	None	Solar Activity:	Low
Surface Visibility:	7 miles	Pressure:	30.00 inHg
Liftoff Winds (MPH):	120° @ 15 P20 (200')	RH:	72%
Temperature:	85°F		

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

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

Sunrise: 23/0626 EDT 24/0627 EDT	Sunset: 23/2024 EDT 24/2025 EDT
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Moonrise: 23/0601 EDT 24/0702 EDT	Moonset: 23/2002 EDT 24/2104 EDT	Illumination: 1% 0%
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Next forecast will be issued: 22 June 2017