



Launch Mission Execution Forecast



Mission: Astra V3.3 Tropics-1

Issued: 12 Jun 2022 / 0800L (1200Z)

Valid: 12 Jun 2022 / 1200 – 1400L (1600 – 1800Z)

Forecast Discussion: Slightly stronger observed southwest steering flow today will likely lead to an earlier start to showers and storms compared to yesterday. A few showers are expected to start popping up over the Cape between 1130-12L, with a 60% chance of a Cumulus Cloud Rule violation for the beginning of the window. Further into the window, scattered storms are likely to move in from the west, with Surface Electric Fields and Lightning Rule violations added. A few storms could bring strong winds, with a slight chance for damaging winds, after the launch window today. For backup day Monday, the mid-level trough flattens and high pressure starts to build back in, bringing a lower coverage of storms later in the day, with weaker steering flow.

Probability of Violating Weather Constraints																													
Launch Day	60→90% Primary Concerns: Cumulus Cloud Rule, Surface Electric Fields Rule, Lightning Rule																												
	Weather Conditions																												
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<i>Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.</i>																													
Next Forecast Will Be Issued	As required																												