



Caribbean Institute for
Meteorology and Hydrology

Husbands, St. James, Barbados BB23006

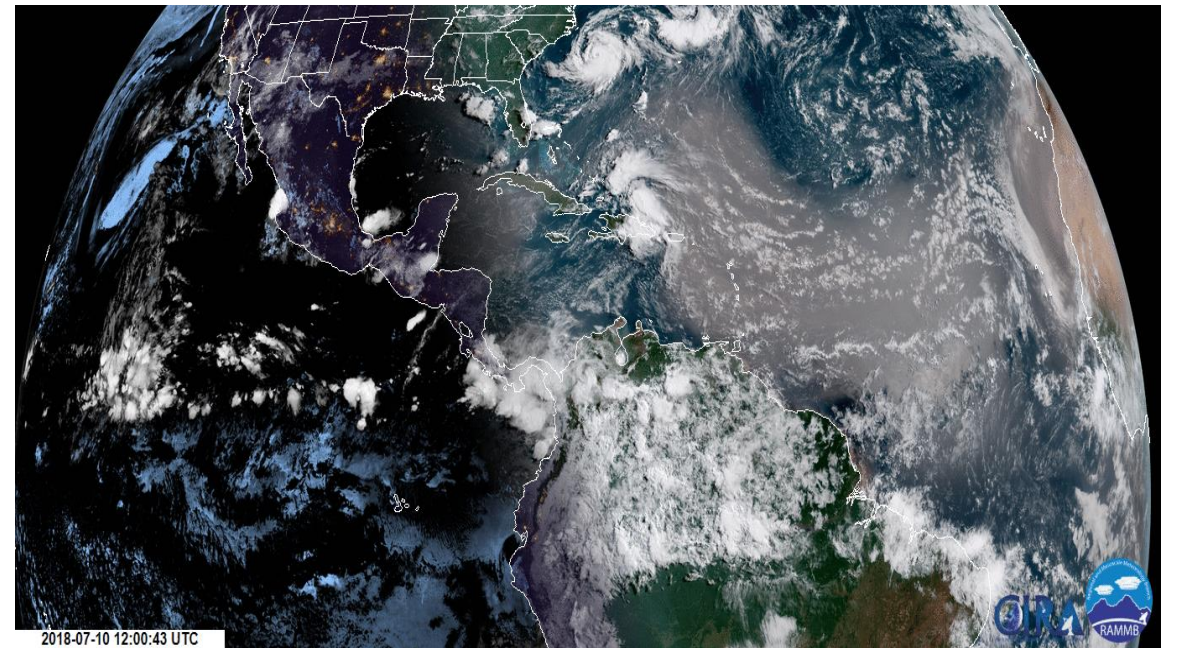
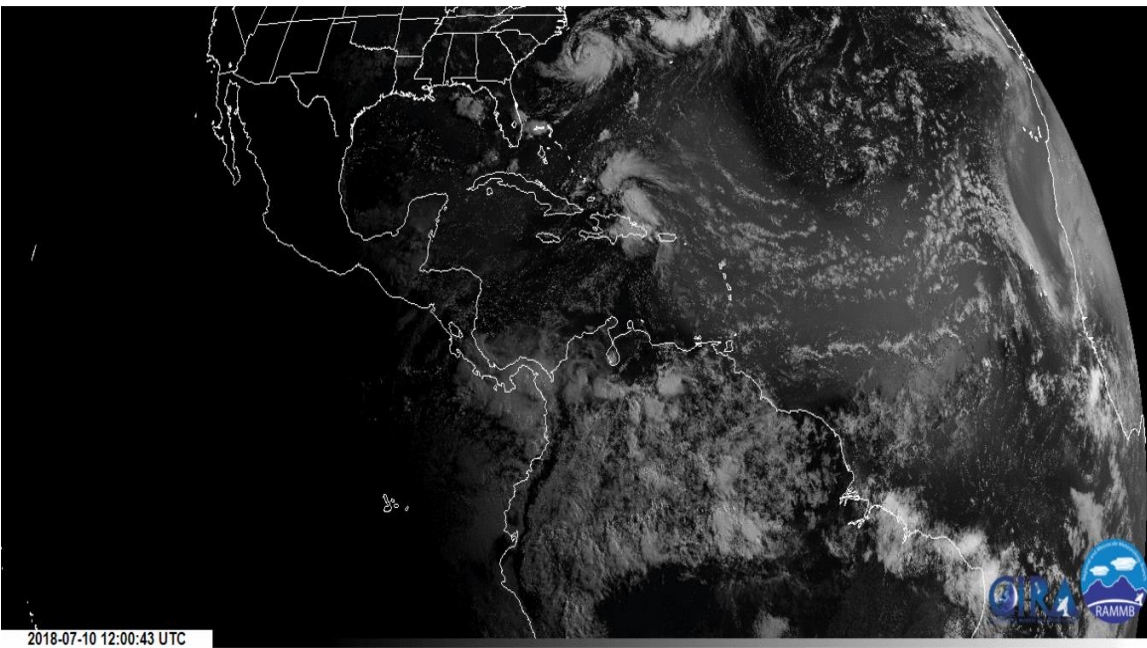
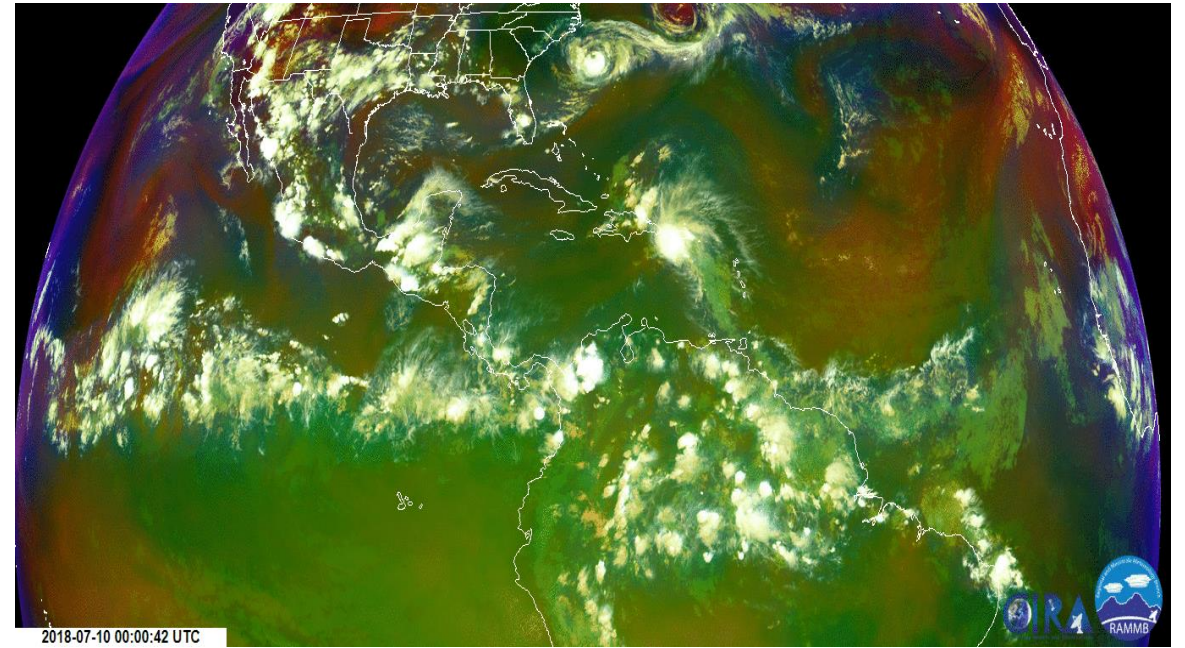
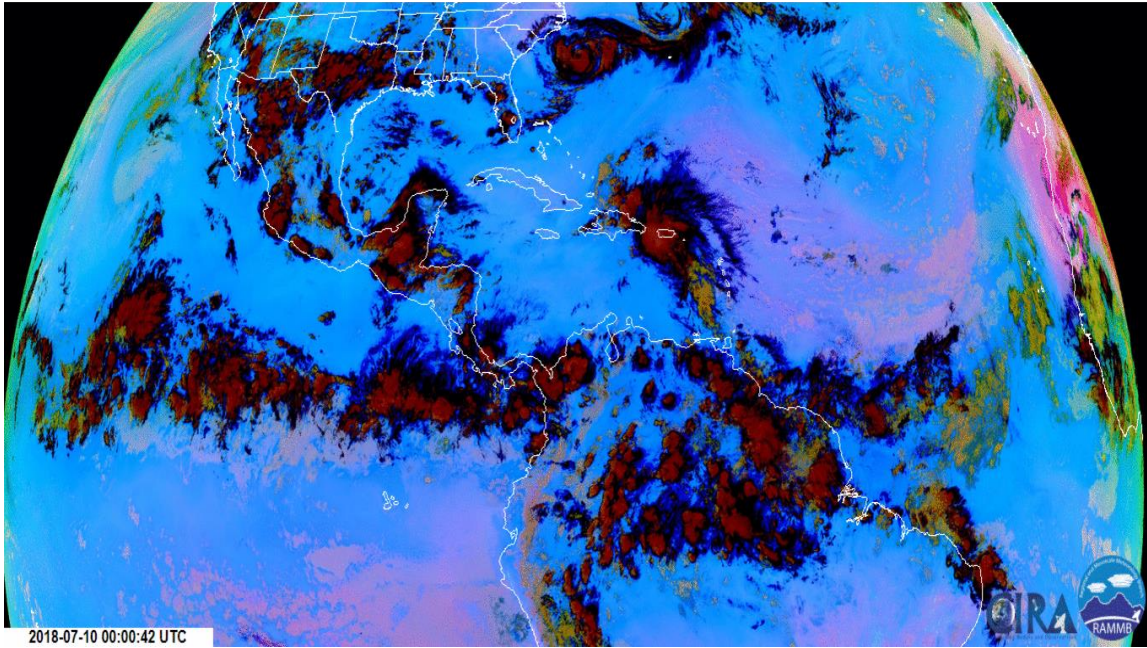


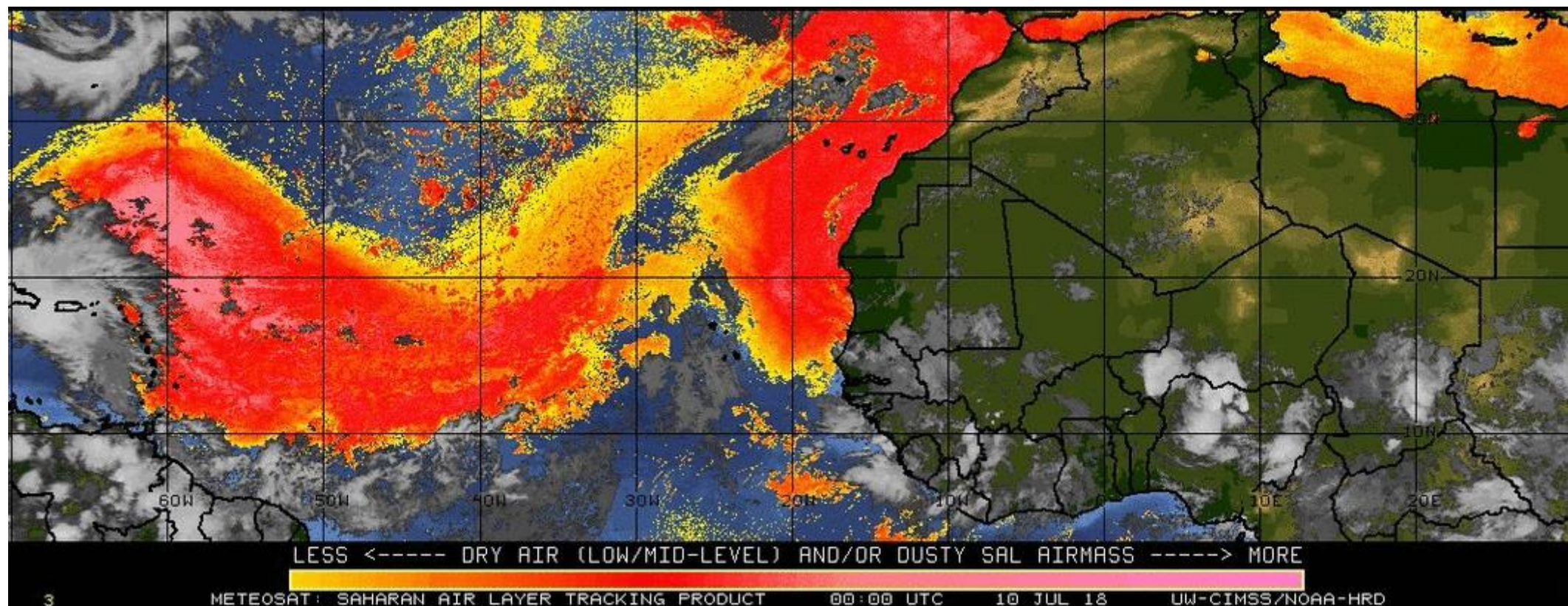
Monitoring the Saharan Air Layer with GOES-16 Satellite Imagery

WMO Regional Focus Group

May 20, 2020

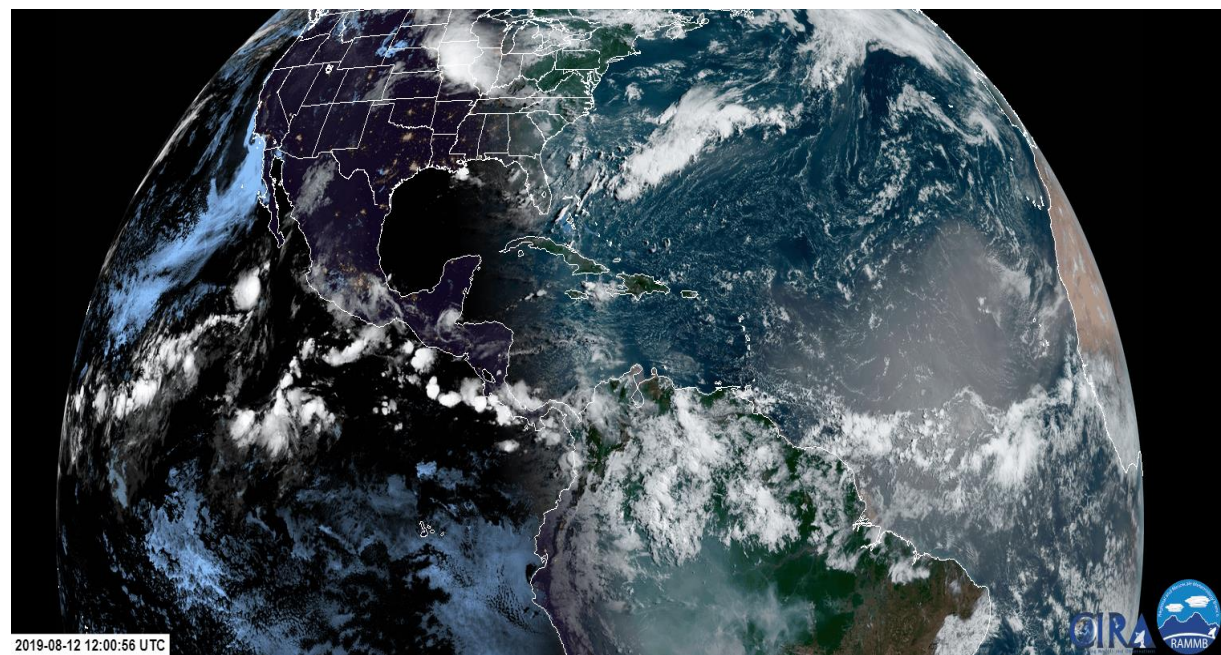
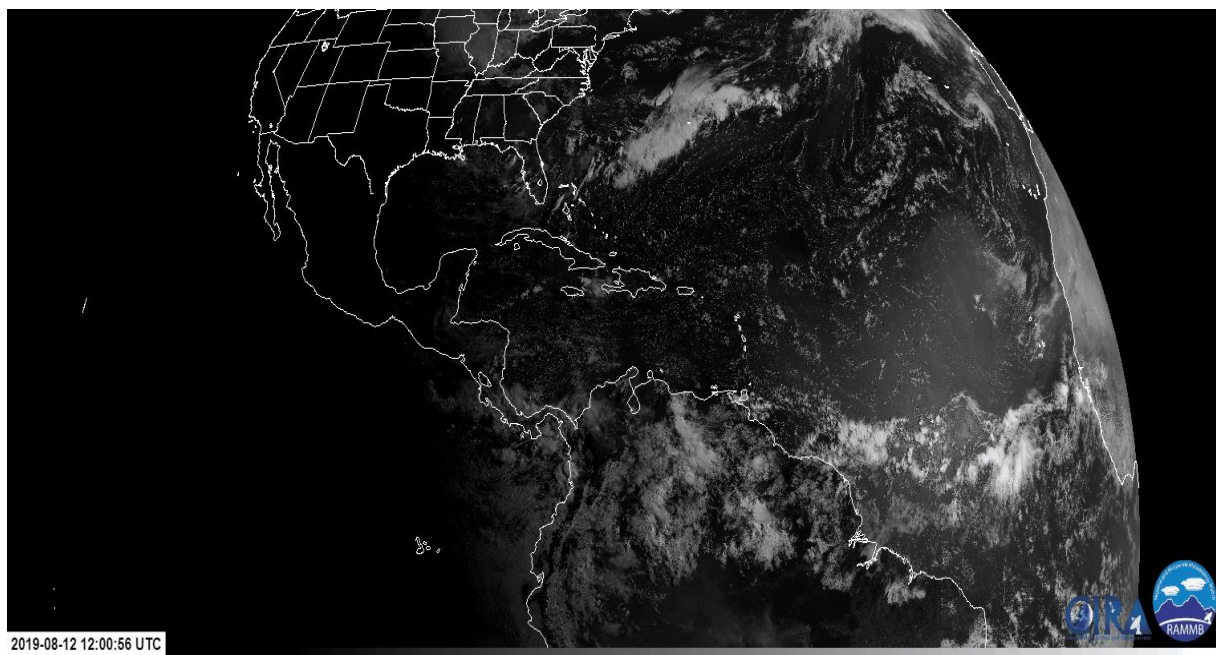
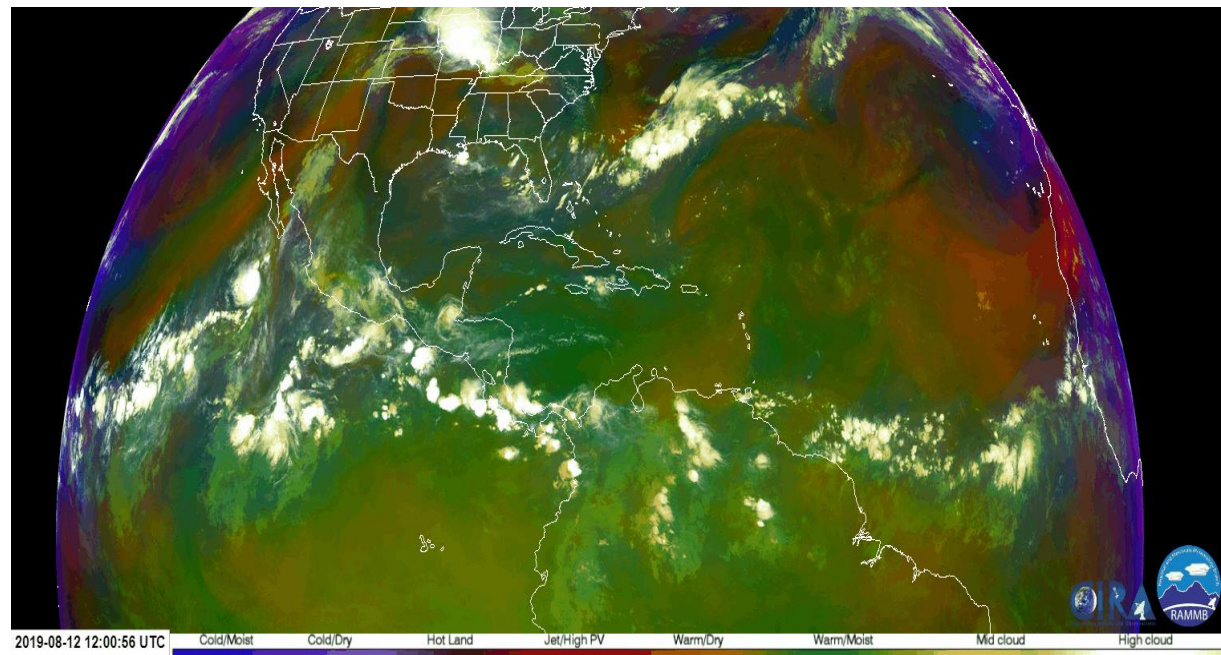
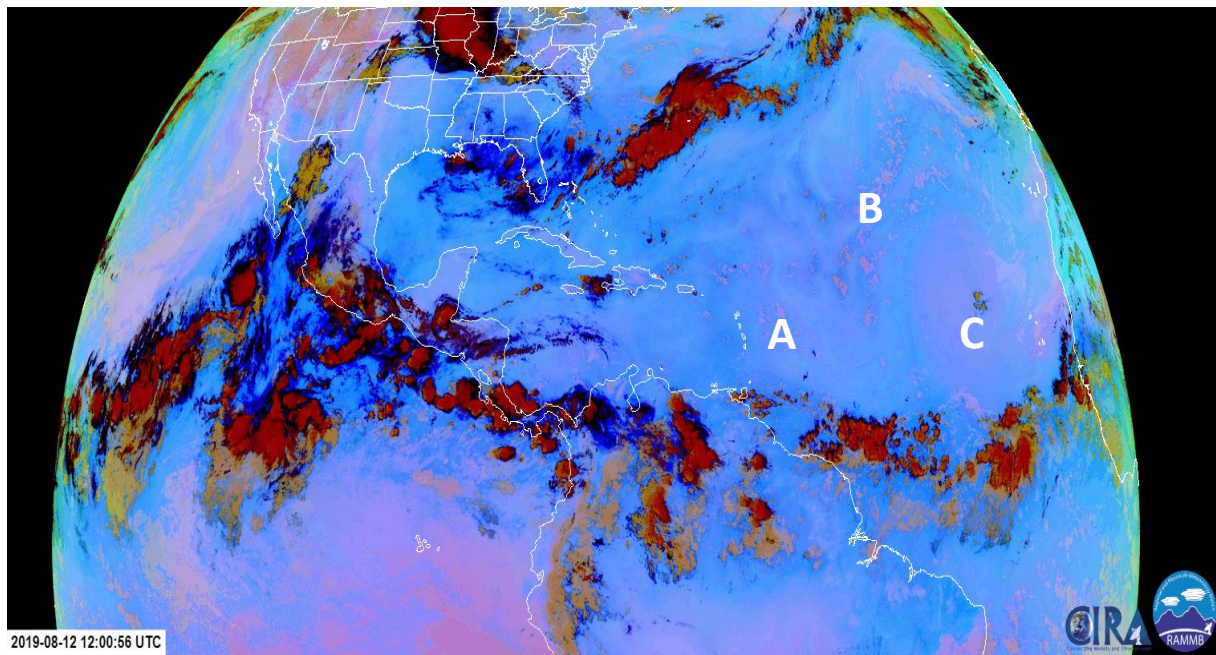




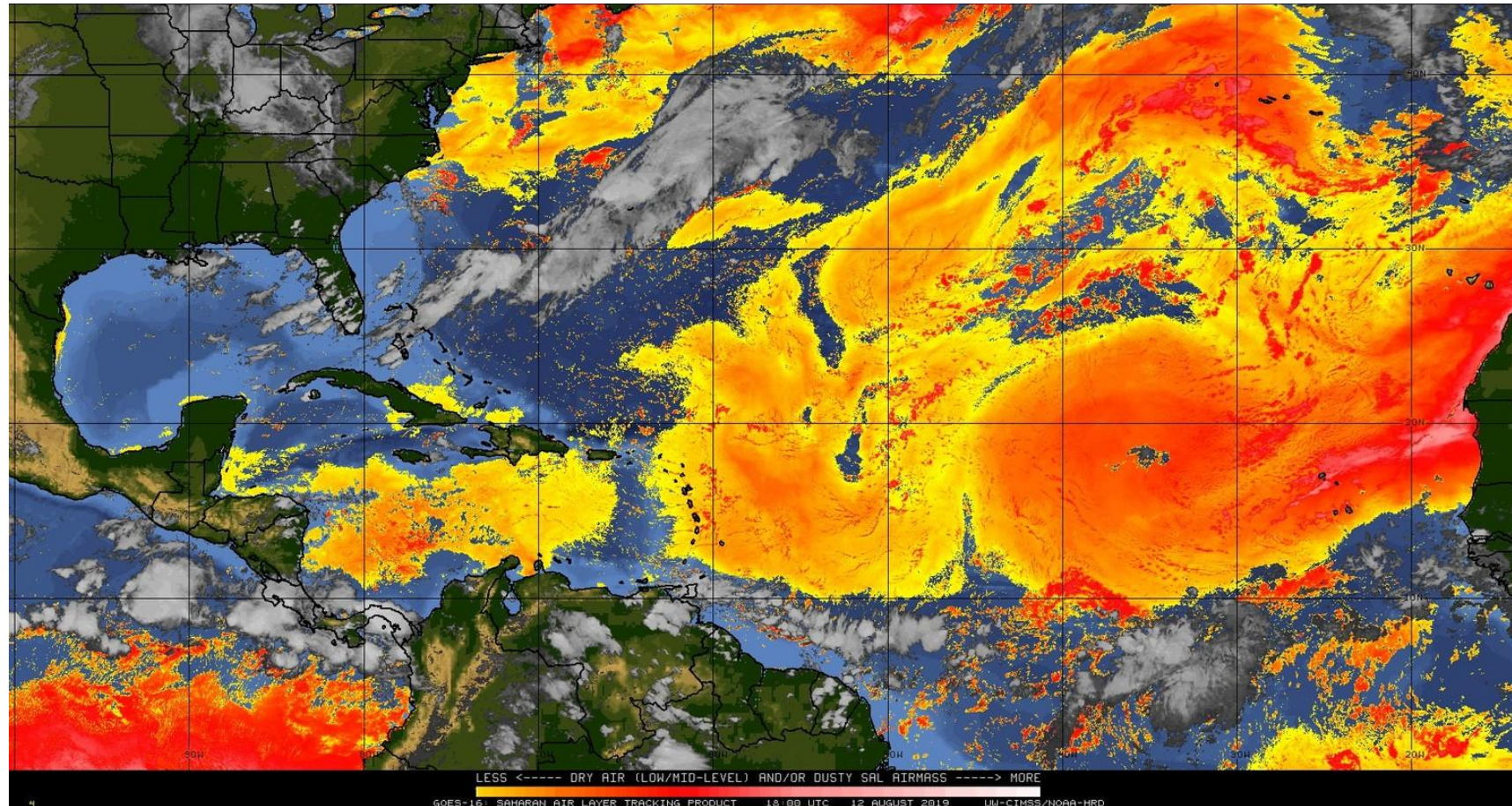


Dust Detection Exercise

- 1. Identify whether there is dust at A, B or C. Is there more than one dust plume?**
- 2. Identify the high clouds interfering with the signal of the dust.**
 - a) What is that name of that tropical system?**
- 3. Which product best represents the dust?**
- 4. Using the Visible imagery identify the trough associated with the dust.**



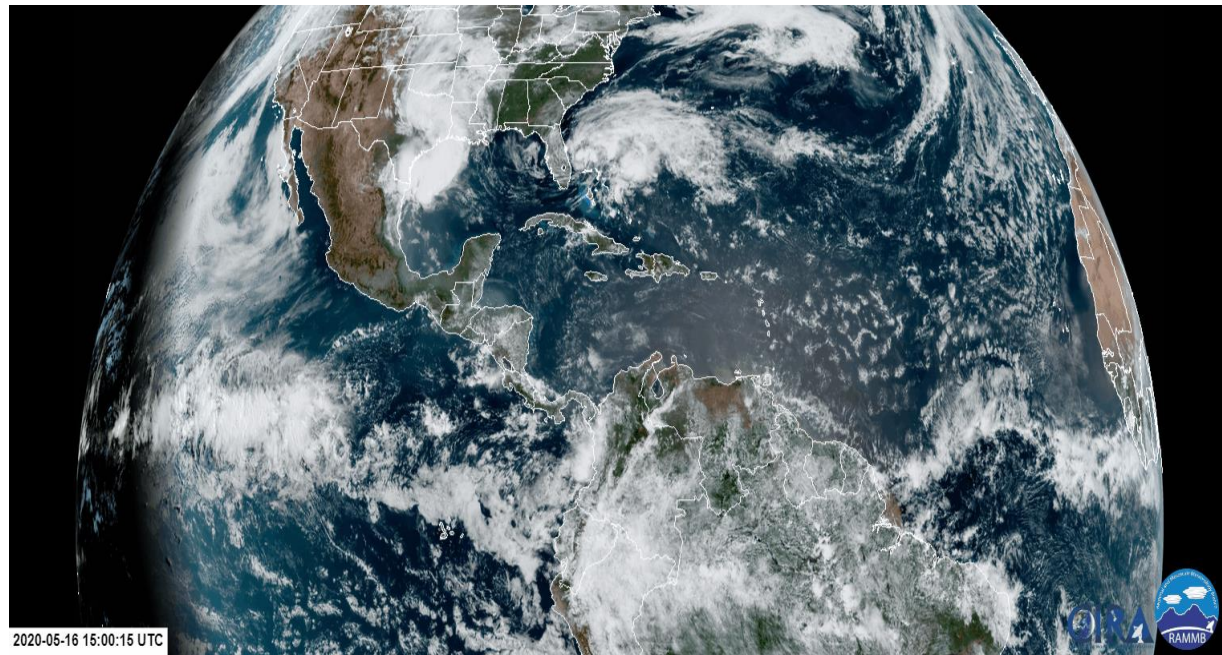
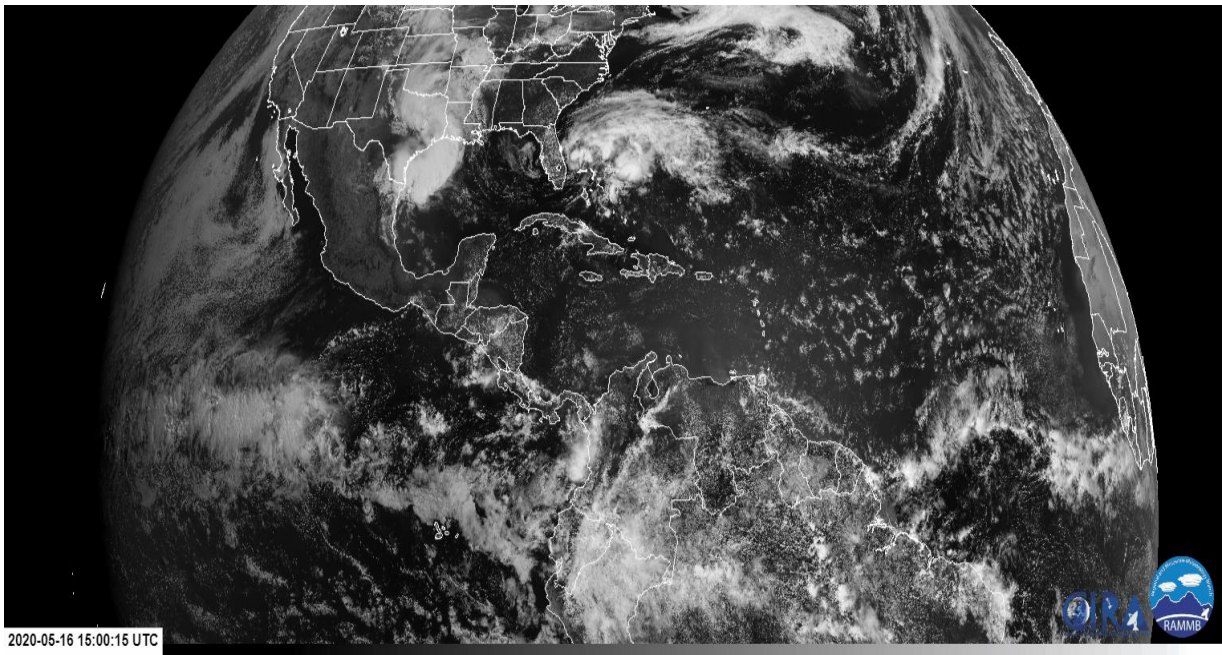
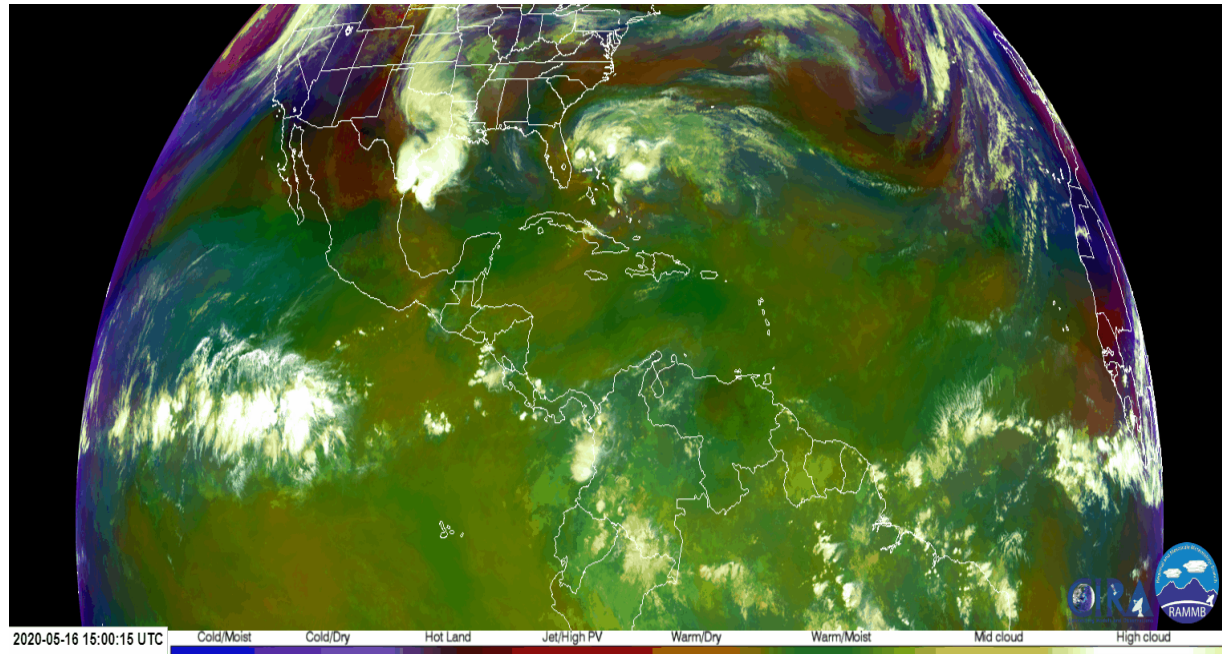
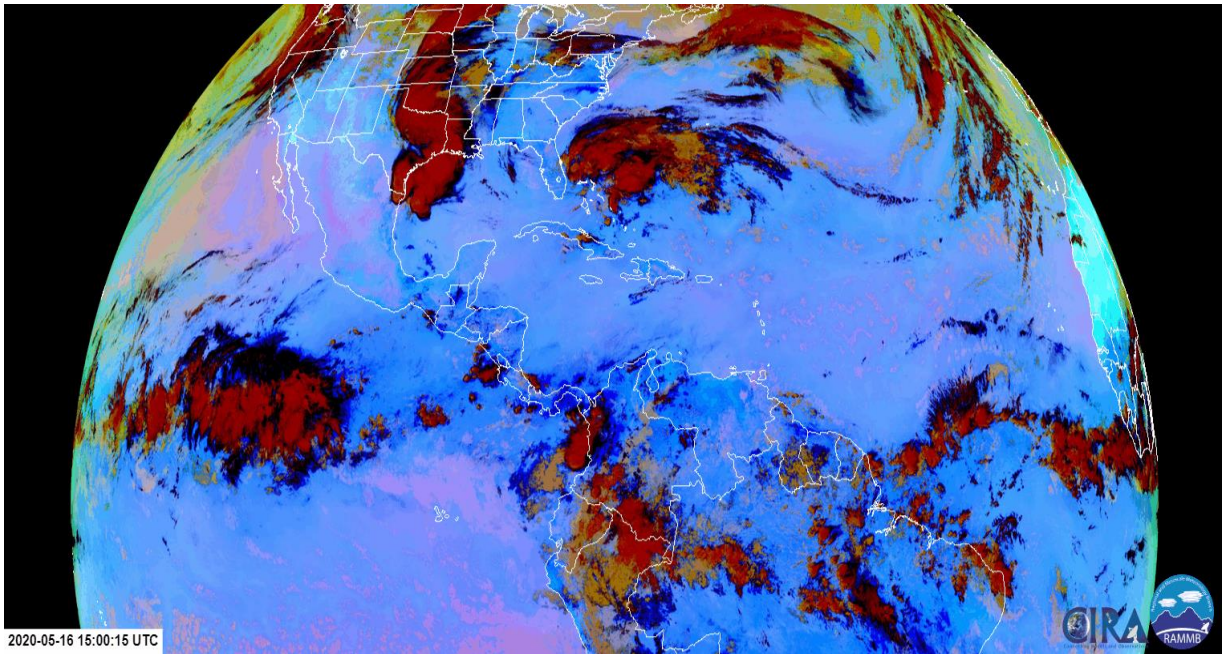
Answer!

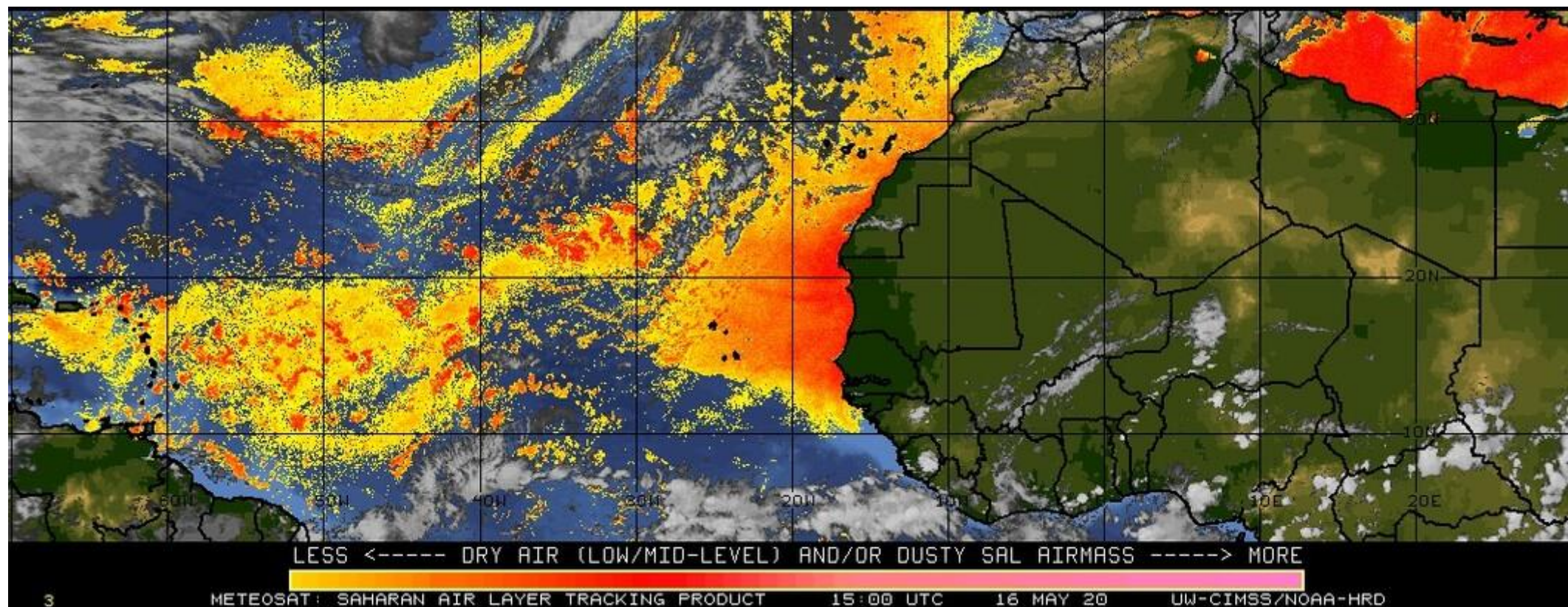




May 16th, 2020

- Varying concentrations of Saharan dust affected the Lesser Antilles in the past 2 weeks.
- Take a closer look at the horizon





Other Useful Products

- Pseudo-Natural Color
- DEBRA Dust Product
- CIRA Layered Precipitable Water MIMIC TPW
- Day/Night Band
- 0.47 μ m, 7.3 μ m
- NUCAPS Soundings
- Derived Motion Vectors (DMV)
- Aerosol Optical Depth
- Aerosol Detection

[http://eumetrain.org/rgb quick guides/quick guides/](http://eumetrain.org/rgb_quick_guides/quick_guides/)

[http://rammb.cira.colostate.edu/training/visit/quick guides/](http://rammb.cira.colostate.edu/training/visit/quick_guides/)



Caribbean Institute for Meteorology and Hydrology

Husbands, St. James, Barbados BB23006



Thank you!