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

• 0.47µm, 7.3µm
• NUCAPS Soundings
• Derived Motion Vectors (DMV)
• Aerosol Optical Depth
• Aerosol Detection

http://eumetrain.org/rgb_quick_guides/quick_guides/
http://rammb.cira.colostate.edu/training/visit/quick_guides/
Thank you!