

S16 – Exploring the FCI imagery

Task: From the following web page:

<https://imagine.eumetsat.int/smartViews/view?view=MTG-I1FirstData>

observe different RGB products from Meteosat Third Generation - Imager 1 first image data release, Flexible Combined Imager, 11:50 UTC, 18 March 2023, and follow the instructions below (hit: use the zoom bar below the image to look for more details):

1. **True Colour RGB** (oman_coast_FCI_true_color_202303181150.png)
 - a. Identify different clouds and classify them (height, optical thickness, vertical development, type)
 - b. Locate aerosol clouds eg dust, smoke, haze (if any in observed domain?)
 - c. Classify different land surfaces (locate vegetated areas, water bodies, snow cover?)
 - d. Try to interpret different ocean colours
2. **Cloud Phase RGB** (oman_coast_FCI_cloud_phase_202303181150.png)
 - a. Identify different clouds and classify them (height, phase, optical thickness, vertical development, particle size, type)
 - b. What is the difference between light- and deep-blue shaded clouds?
 - c. Why is there a bluish shade towards the eastern edge of the disc?
 - d. Can you discriminate between high clouds and snow?
 - e. Do you see different ocean colours?
3. **Cloud Type RGB** (oman_coast_FCI_cloud_type_202303181150.png)
 - a. Identify different clouds and classify them (height, phase, optical thickness, vertical development, particle size, type). Can you see more clouds than in previous two RGBs?
 - b. What is the difference between red and yellow clouds?
 - c. Why is there a green shade towards the eastern edge of the disc?
 - d. Can you discriminate between high clouds and snow?
 - e. Do you see different ocean colours?