

Activity-3/ Part.1:

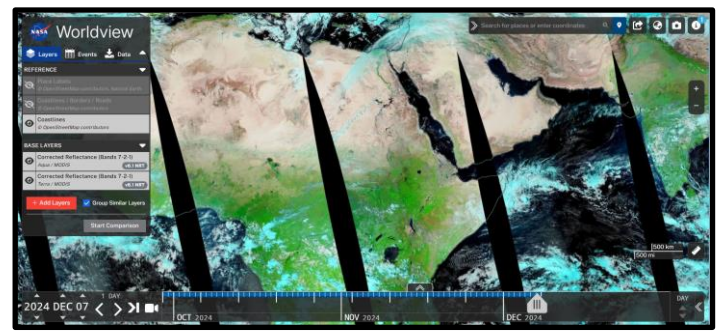
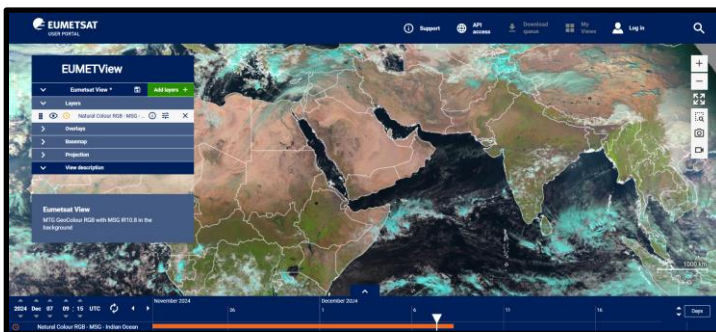
Comparing RGB products between Low orbiting Satellite and Geostationary Satellite

For this activity, we would like you to explore and compare **Natural Color RGB imagery** from two different satellite and instruments:

1. **MODIS** on the Terra and Aqua satellites – <https://go.nasa.gov/41pFejU>
2. **SEVIRI** on the Meteosat-9 satellite – <https://view.eumetsat.int/productviewer?v=default>

Please:

1. Open both links and examine the Natural Color RGB imagery provided by each satellite / instrument.
2. Compare the imagery based on features such as:
 - **Resolution**
 - **Color representation (are there differences in color (if so, Why?))**
 - **Coverage area**
 - **Frequency of observation.**
3. Identify and list the **advantages** and **disadvantages** of each product in your own words.



4. You may examine the imagery and focus on the following features:
 - **Smoke:** How clearly can you see smoke from wildfires or pollution?
 - **Land:** How well are land features represented, such as deserts, forests, or urban areas?
 - **Mountains:** Look for elevation-related features like high and low terrain.
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- **Clouds:** Differentiate between:
 1. **High and low clouds**
 2. **Cloud phase (water phase)**
 3. **Thick and thin clouds**
 4. **Vegetation and Green Cover:** How effectively is vegetation depicted?
 - **Snow on the Ground:** Can you distinguish snow cover from clouds or land?
 - **Overall Visual Clarity:** Which satellite gives a clearer or more detailed view of these features?
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Activity-3/ Part.2:

Comparing SEVIRI Natural Color RGB with FCI True Color RGB

1. compare the Natural Color RGB imagery from SEVIRI on Meteosat-9 with the True Color RGB imagery from the FCI instrument using EUMERVIEW:
<https://view.eumetsat.int/productviewer?v=default>

Please:

2. Examine the imagery from both instruments (SEVIRI & FCI).
3. Identify and comment on the main differences you observe, such as:
4. Color representation (why are there differences?)
 - Overall clarity of features like clouds, vegetation, and water bodies.
 - General resolution and level of details.