



#### **Product Benefits**

- It combines cloud height with cloud phase and cloud optical depth information.
- It effectively detects thin cirrus clouds over other clouds and cloud free land/sea.
- Snow and ice on the ground are clearly delimited from high-level (thin) ice clouds.
- It detects supercooled water clouds.
- It provides good colour contrast between cloud types.
- Coastlines and surface features are visible.

















#### **Product Limitations**

- Limited to daytime applications.
- The categories "high and low clouds" are rather coarse classifications.
- Less suited for particle size discrimination.
- Unable to detect thin cirrus over opaque high clouds.
- Small colour contrast between mid-level water and ice clouds.
- Snow has similar colour to low- and mid-level (ice) clouds.
- Mid-level thin clouds might not be detected in a moist atmosphere.
- Colour shades depend on atmospheric moisture.

Ref: https://eumetrain.org/sites/default/files/2021-05/CloudTypeRGB.pdf

















## Quick Guide















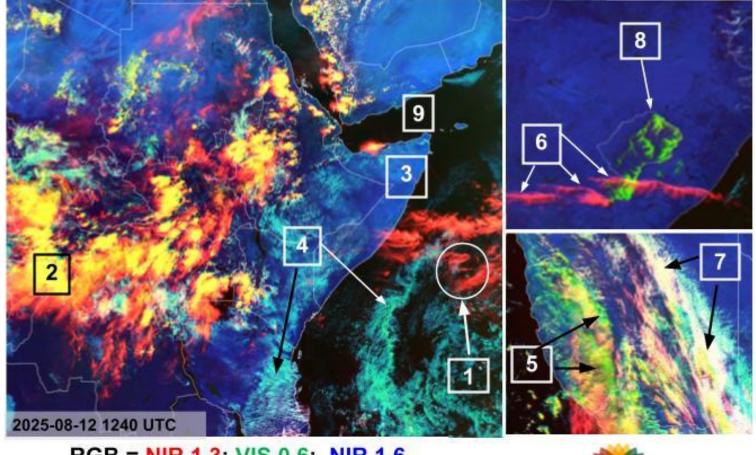


### Cloud Type RGB

#### Interpretation

- Thin cirrus clouds over land and sea (darker red over the sea)
- Thick ice clouds (multi-layered Cloud with ice on top)
- Land
- Low to mid-level water cloud
- Mixed phase cloud (at low and mid-level)
- High and thin water cloud (more orange if ice is present)
- Supercooled water cloud
- Snow on the ground
- Sea (ice free)

























## Animation







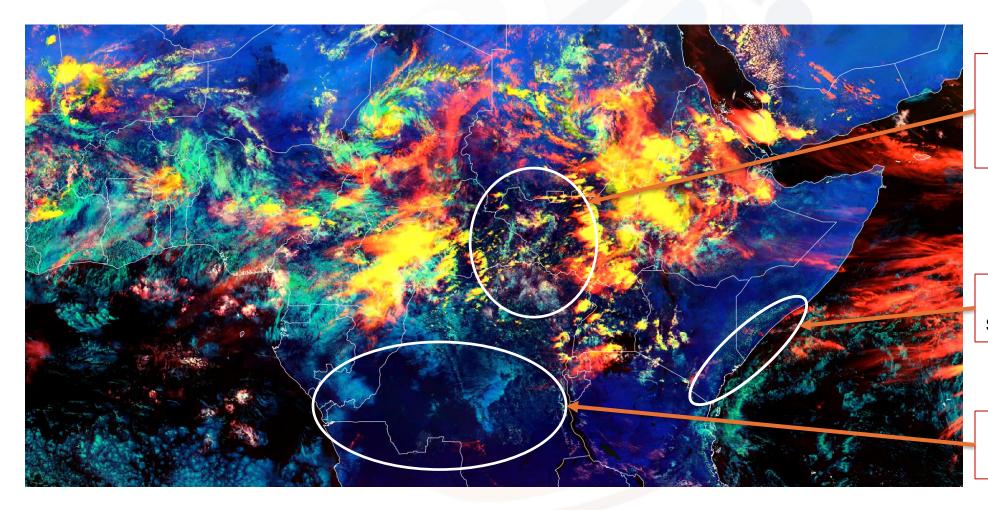












Thick ice clouds/convective clouds

Development of sea breeze front

Low water clouds



















Thick ice clouds

High thin cirrus clouds in bright red

Low water clouds

Small shallow cells of a sea breeze front

2025-08-15 06:30:00 UTC

















## Image Comparison







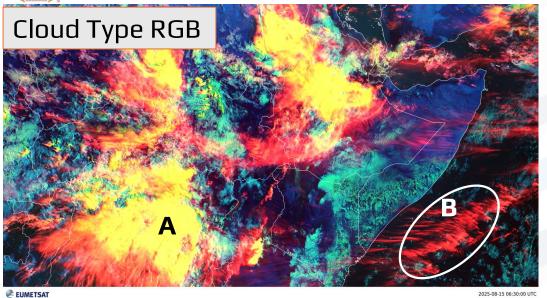


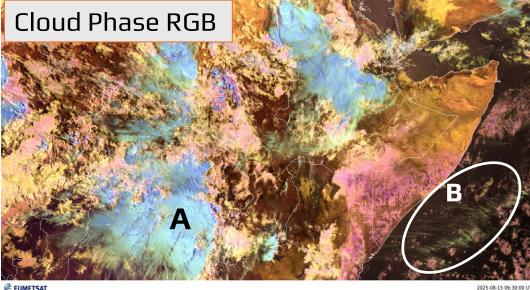


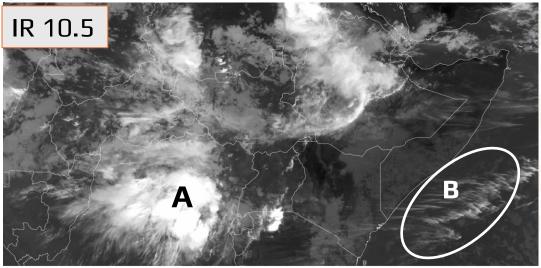












A = Thick ice clouds/convective clouds
B= Thin cirrus clouds

















# Practice applying your new knowledge by answering the questions on the Moodle page













