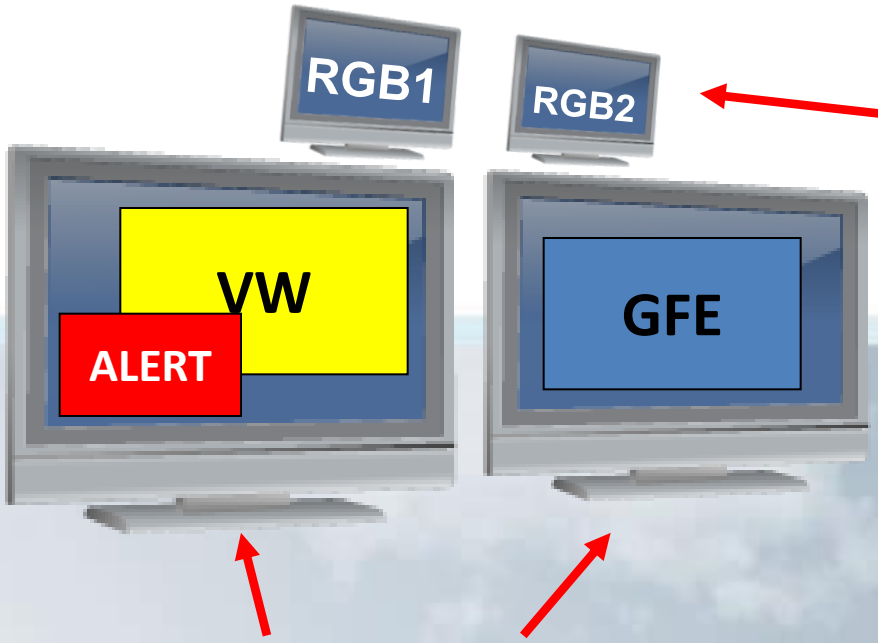
Science Week 2014, day 1 review exercise

Participant exercises: to assist in making this session more interactive, please complete these exercises before the 30th July.

Examine the proposed Forecaster use of Himawari 8/9 data, as previously discussed with Bureau and overseas Forecasters. Please think about this and be ready to discuss your ideas during the Science Week sessions on the 30th July.

Forecaster use of Himawari 8/9 data



Situational awareness screens – 24 hr RGB's

Main workspace screens

- **Visual Weather (VW)**
- **Graphical Forecast Editor (GFE)**
- **Alerts**
- **Other RGB's**

Forecaster use of Himawari 8/9 data

Situational awareness screens

- Colour Satellite data (eg. 24 hour Red/Green/Blue (RGB) channel product) as smaller sized png, jpeg images

Main workspace screens:

- Data visualisation program (Visual Weather, McIDAS, SatAID), displaying single channel full sized satellite images, eg. 10.8 micron infrared. Can be zoomed in. Only the last 1 hour of 10 minute data
- Forecast Editor program (Graphical Forecast Editor)
- Alerts driven by thresholds applied to key satellite image products
- The five application specific RGB products on demand

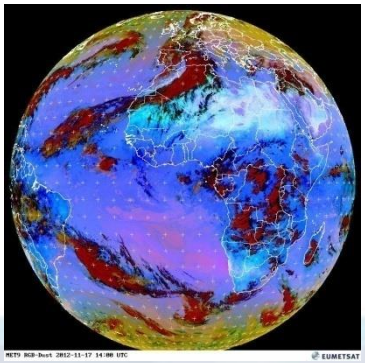
In general

- BATCH files to generate RGB and Derived products. Satellite and programming experts design additional products.

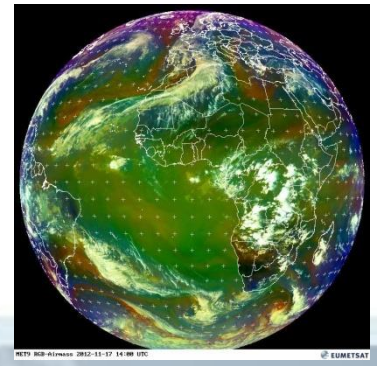
Reference slide - RGB products for Operational Forecasting – EumetSAT recommendation

Australian Government
Bureau of Meteorology

Two RGB composites which complement each other



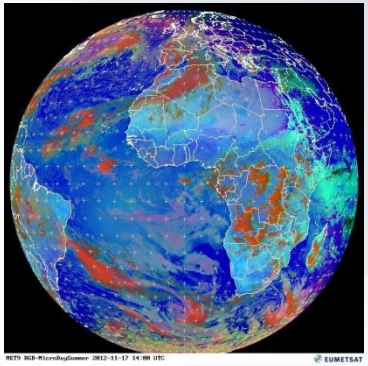
24 hour Microphysical RGB



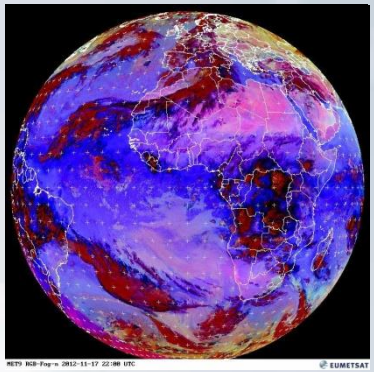
Airmass RGB

from RGB Products Overview (RGB Tutorial) J. Kerkmann EumetSAT

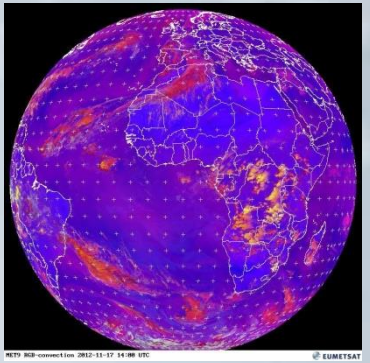
Five application specific RGBs



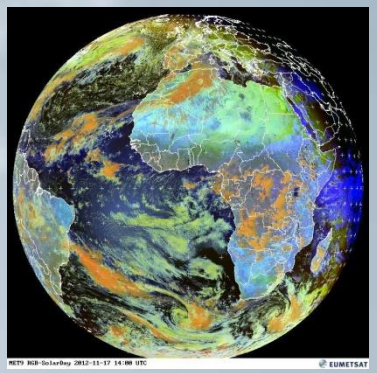
Day Microphysical RGB



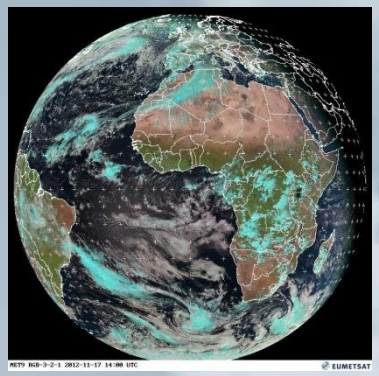
Night Microphysical RGB



Day Severe Convection RGB

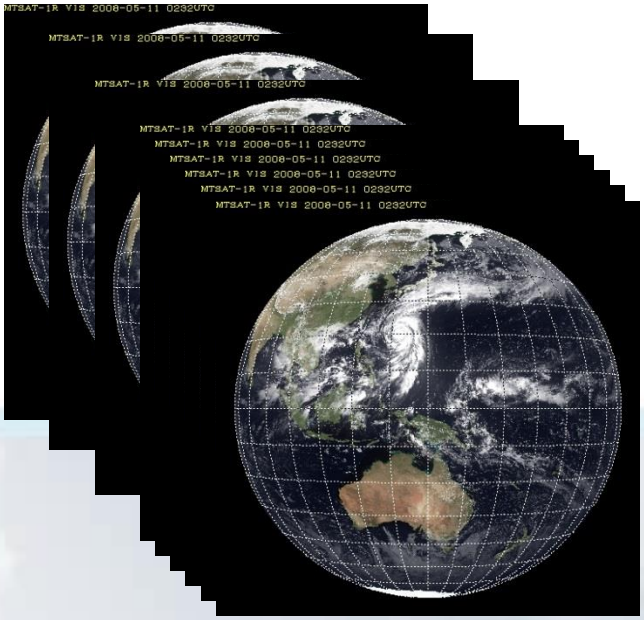


Snow / fog RGB

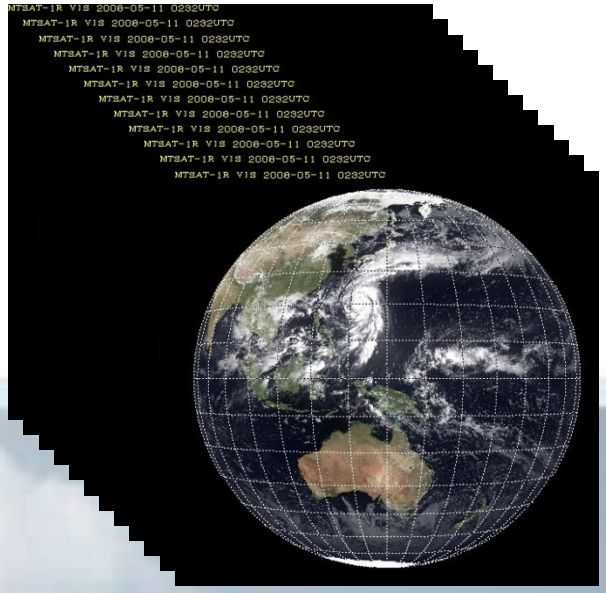


Natural Colours RGB

Forecaster use of Himawari 8/9 10 minute data



Option 1: hourly data with only the last hour as 10 minute data



Option 2: at least 24 hours of 10 minute data.

Other options:	