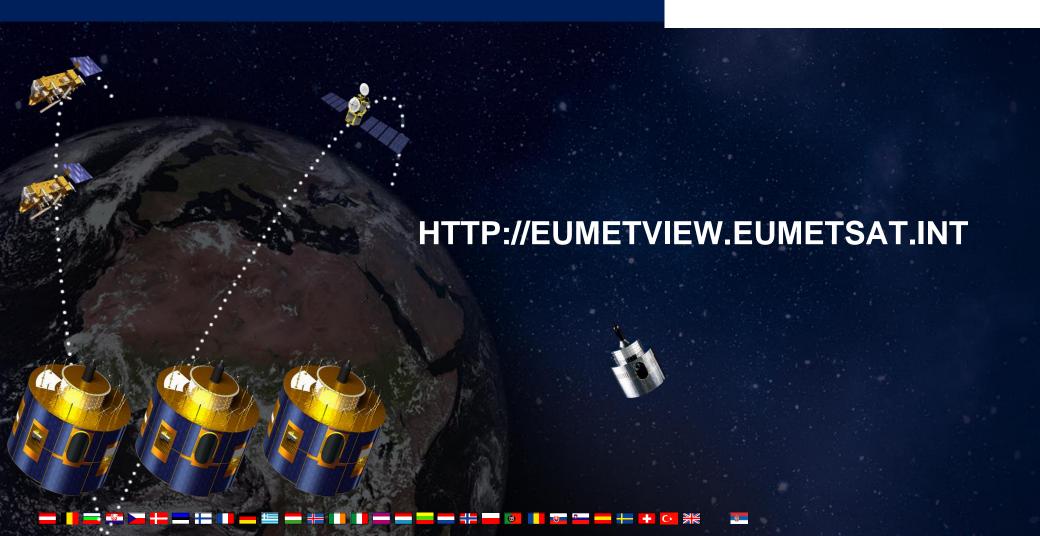
EUMETVIEW: THE WMS EUMETSAT IMAGE GALLERY





The Current Image Gallery Service

The Good:

- Freely available service open to any users
- Popular service with around 15000 images download per day

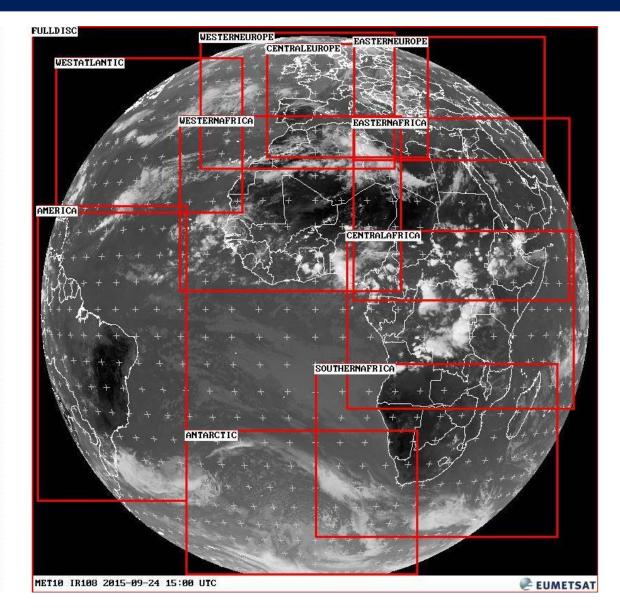
• The Bad:

- Limited interactivity
- Used essentially as a download service
- Only pre-calculated raster images offered
 - Fixed areas
- Data policy limiting service to be used by power-users
 - Image published with at least one hour delay, lower resolution



The Current Image Gallery Service







EUMETView – Project Goals (1)

- Create a web-based imagery service
- For standard users (news web site)
 - Retrieve an image for a particular area of interest
- For advanced users (researcher)
 - Information analysis, cross check with other products
 - Integrate with GIS tools
 - From the images to the products
 - Use data access services
- For power users (met services)
 - Get near-real time image generation
 - Get tailored products



EUMETView – Project Goals (2)

- Can integrate with the other EUMETSAT web-services
 - Discovery service: Product Navigator
 - Data Access Service: EO Portal and Archive

 Make image gallery products available via standardized Web Service interfaces (WMS/WCS)



EUMETView Architecture

- OGC WMS 1.3.0
 - GeoServer 2.6.5
 - Postgis 2.1.6





- Interactive Web App
 - OpenLayers
- OpenLayers 3.0

GWT



- Image Processing
 - Current: Generate Geotiffs with
 - In 2016: Generate Geotiffs with





and





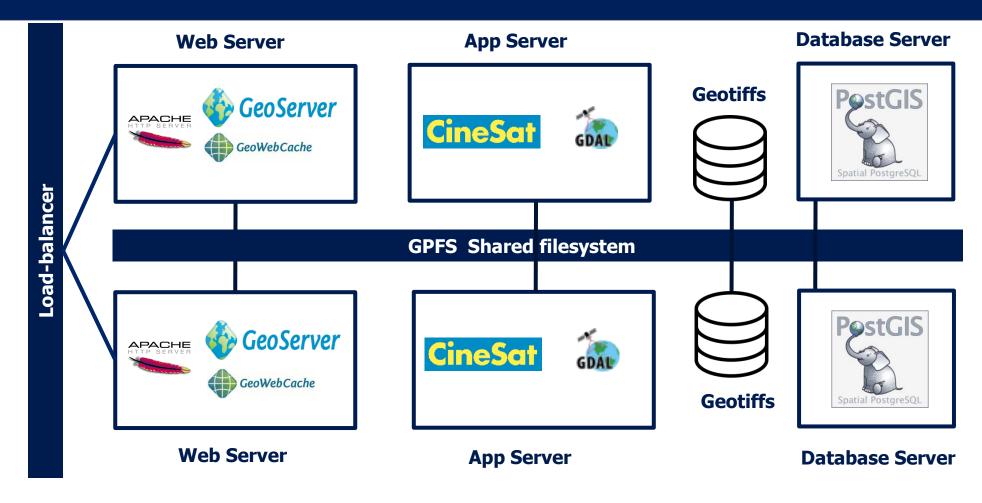
EUMETView Solution Advantages

 Selected areas of interest are on-the-fly available

- Can offer access to data with WCS
 - WCS EO development by <u>GeoSolutions</u> and sponsored by EUMETSAT and DLR
- Standardised I/F which enables many Desktop or Web GIS applications to access the data



EUMETView Current Deployment



200 concurrent users and 800 concurrent requests Keep up to 5 days of products



GeoServer 2.6

- Support for multi-dimensional image mosaics
- Improved native NetCDF support
- Rest API for automating product ingestion
 - Add new slice time for a given layer
 - Delete "expired" images
- Deployment can be entirely automated
 - Allow to scale horizontally
 - Improve maintenance
- Open Source
 - Benefit the entire community
 - Increase the adoption/usage of EO Products and promote EUMETSAT products



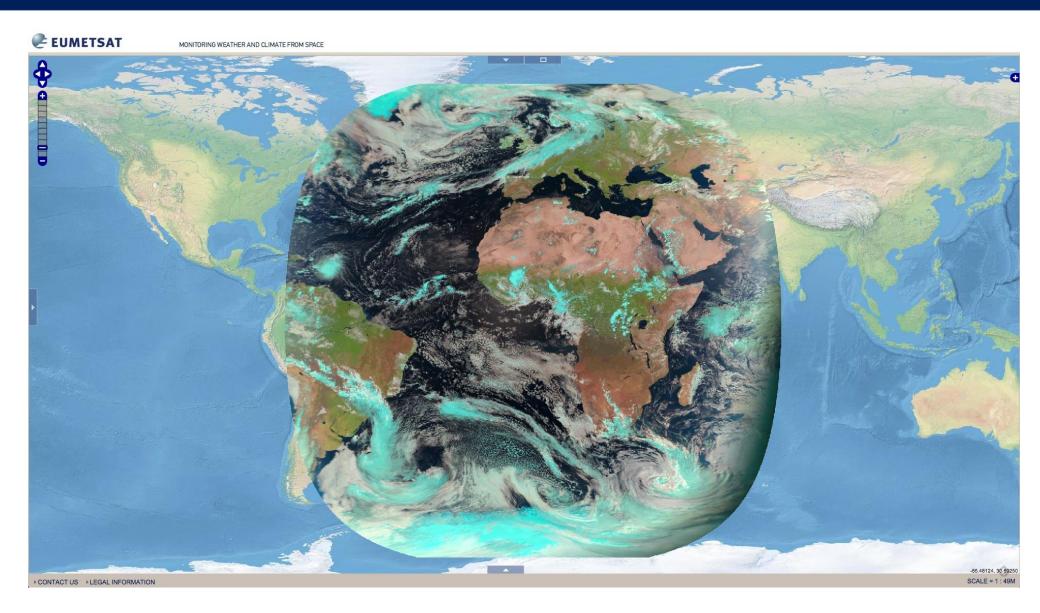
EUMETView WMS Web App

Simple user interface:

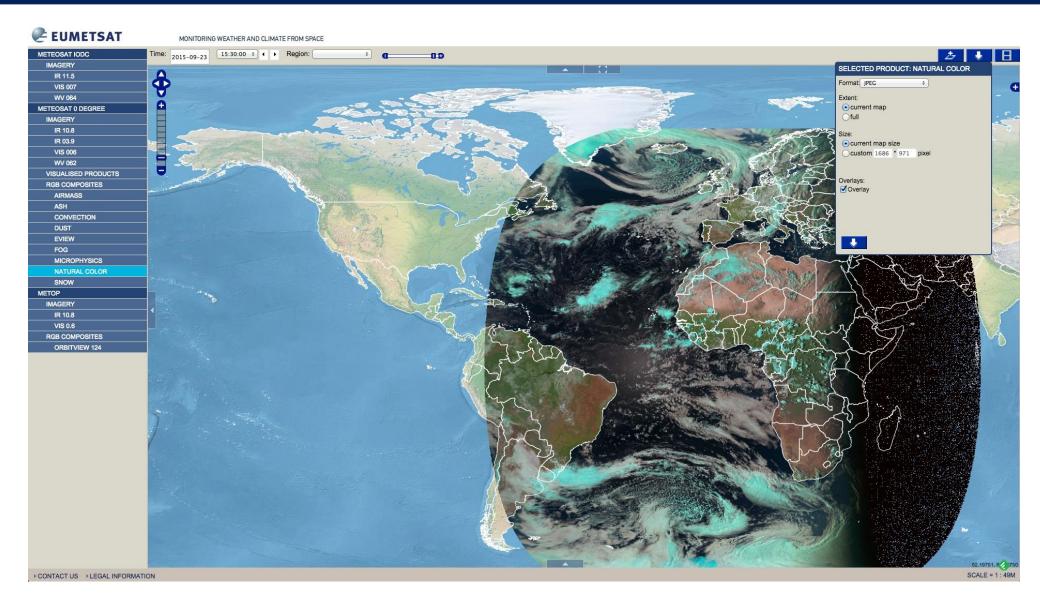
- Select product and time
- Create animation for user-defined time period
- Download product images in different formats
- Add data from external Web Map Services and overlay with EUMETSAT products
- Products are linked to EUMETSAT's Product Navigator



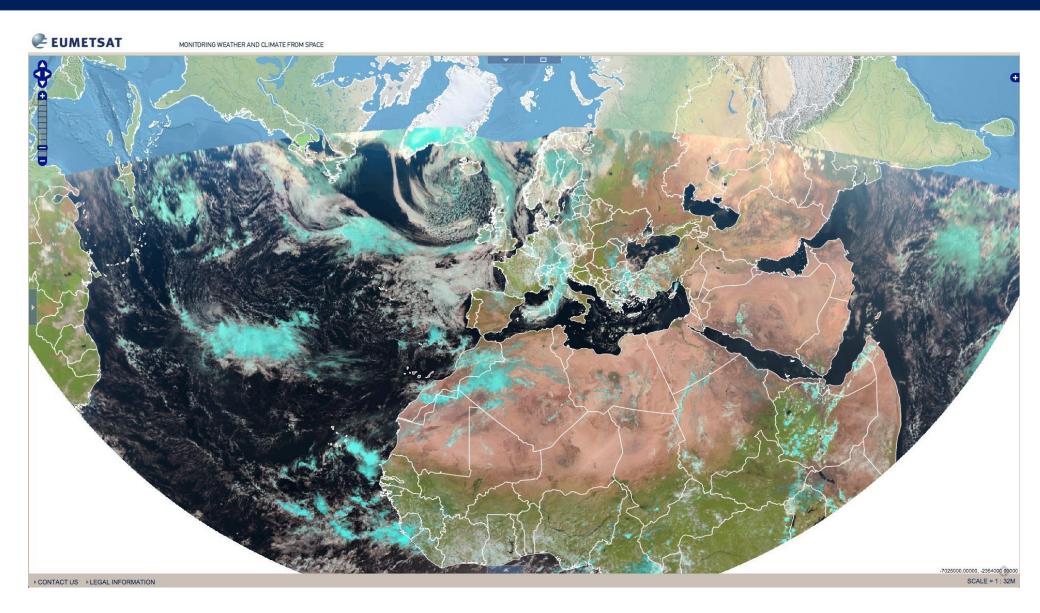
EUMETView Web App



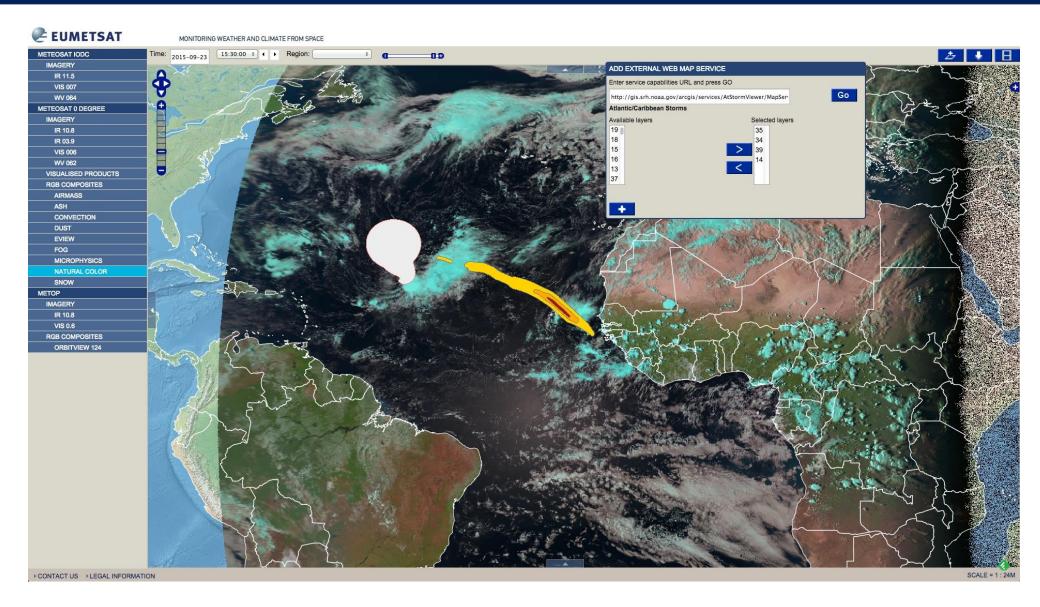
EUMETView Web App - 1



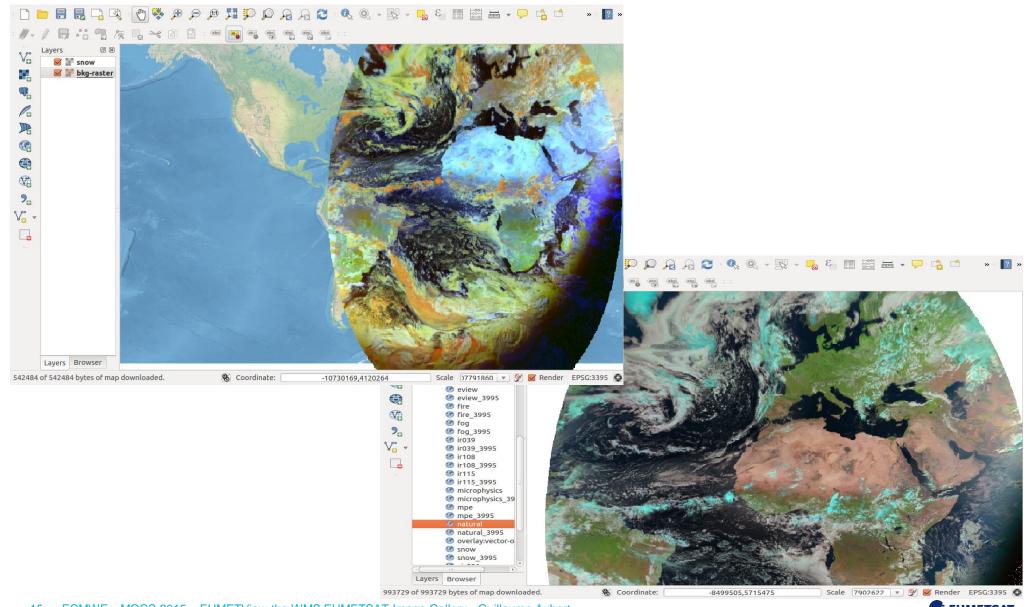
EUMETView Web App - 2



EUMETView Web App - 3



EUMETView WMS



EUMETView Pilot

 Service opened to users since mid July 2015

http://eumetview.eumetsat.int

 User survey running until end of October http://bit.ly/eumetview

Comments via email: ops@eumetsat.int



EUMETView Plans (1)

- Survey outcome study [short-term]
- Operation [short-term]
 - Include quick fixes from Survey
 - Q2 2016
- Keep up to 10 days of products [short-term]
- Evolve the user interface
 - Improve usability
 - Improve access to the products



EUMETView Plans (2)

- Provide access to the Data
 - WCS netcdf, WFS with shapefile for some products
- Integrate more products
 - Copernicus Sentinel 3 products
- Keep the imagery for ever
 - Create an image archive
- Integrate all EUMETSAT web services
 - Discovery, Long Term Archive Access, Online Data Access
 - Improve the path for access data
- Add a Closed service for EUMETSAT member-states
 - Higher timeliness: near real-time image generation
 - Near real-time data access with WCS
 - If a clear mandate is given by the member-states



Thank you

http://eumetview.eumetsat.int

User survey running until end of October http://bit.ly/eumetview

Comments and Suggestions: ops@eumetsat.int

