EUMETCast / GEONETCast

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EUMETCast system

Outline

- EUMETCast services
- Products currently available
- GEONETCast

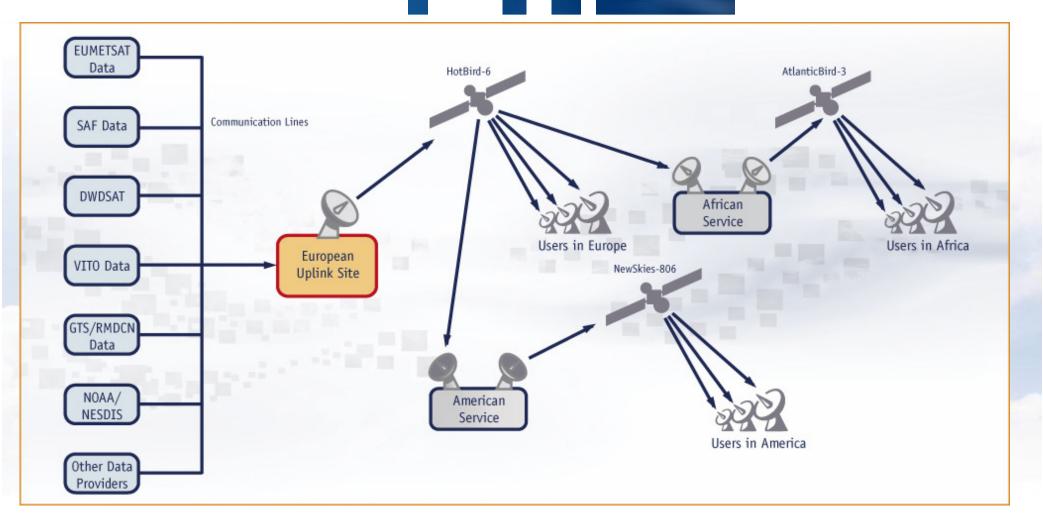


EUMETCast – what is it?

- Generic, multi-mission dissemination system based on IP over DVB;
- Highly scalable infrastructure by using open standards, commercially available systems;
- Allows the usage of off-the shelf, inexpensive equipment for reception;
- High service availability of 99.50% with guaranteed, mission related timeliness;
- Closed-loop product and performance monitoring;
- Secure multicast at the file and User level allows the full range of access control options to be supported (i.e. from no access control to full access control).





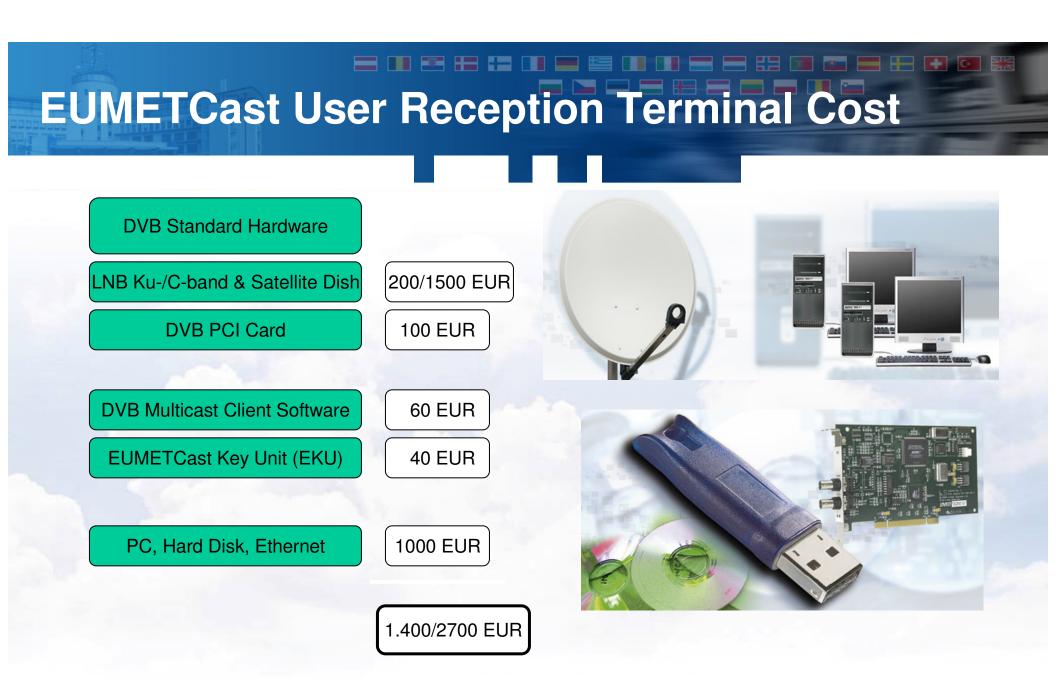




EUMETCast – coverage

EUMETCast bandwidth: 12 Mbps over Europe 3 Mbps over Africa 2 Mbps over Americas







EUMETCast – delivery platform

- Meteosat 1st and 2nd generation level 1
- MetOp and NOAA-18 level 0 and 1 satellite global data
- Other satellite data (e.g. GOES-E&W, MTSAT, Jason-1, FY-2)
- In Situ and Forecast Data (ECMWF, DWD, UK MetOffice, MDD, BMD, DCP)
- Regional products from Metop and NOAA-18
- Products from EUMETSAT and the Satellite Application Facilities (Land, Ocean and Sea-Ice, Ozone, GRAS)
- SPOT Vegetation products from VITO
- NOAA/NESDIS products as part of the GEONETCast trial service
- CMA satellite data and products as part of the GEONETCast trial

For other products: Provider and User Feedback form



EUMETCast - Product Navigator

Address 🗃 http://www.eumetsat.int/products/indexer.html?page=1&search=&category=Marine&benefit=-1¶meter=-1&coverage=-1&dissemination=-1&status=-1&recent=false

Product Navigat	or Home Navigator II	The Product Navigator Environmental Satellite Data, Products and Software ser Manual (pdf, 21 KB)
		Search
Search by words		Search
Type Marine [41]		valle
	WWW	eumetsat.int/products
		Surface Wind Vector (Wind)
Product Provider KNMI	Societal Benefit Area Water, Weather	Status Operational
	roduct contains measurements of t on ESA's ERS-2 satellite	f the wind direction and wind speed above the sea surface. The measurements are obtained through the processing of scatterometer data originating more >>
		Surface Wind Vector (SeaWinds 100km)
Product Provider DSI SAF	Societal Benefit Area Water, Weather	Status Pre-operational
	towards a 100 km product at KN	CAT/Seawinds) over the Atlantic Ocean at 10m height. The scatterometer wind products coming from the SeaWinds instrument on board the QuikSCAT MI for the EUMETSAT OSI SAF. Details are described in the SeaWinds Product Manual. The OSI SAF 100 km product is developed for assimilation in
		more >>
		Surface Wind Vector (SeaWinds 25km)
Product Provider OSI SAF	Societal Benefit Area Water, Climate	Status Name and acronym of product evelopment
		CAT/Seawinds) over the Atlantic Ocean at 10 m height. The scatterometer wind products coming from the SeaWinds instrument on board the QuikSCAT

Slide

EUMETCast - Atmosphere related data

- More than 111 Atmosphere-related data and products are available at EUEMTSAT
 - Satellite products (IASI...), aerosol, ozone, radiative flux...
- 50 of these products are disseminated via EUMETCast





GEONECast an initiative under GEOSS networking environmental data dissemination infrastructure







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GEONETCast – the systems

- *EUMETCast*, operated by EUMETSAT, providing coverage of Europe, Middle East, Africa and the Americas;
- FENGYUNCast, operated by CMA, providing coverage of Asia/pacific region;
- GEONETCast Americas, operated by NOAA, soon to provide coverage of the Americas (due to enter initial operations Nov/Dec '07);



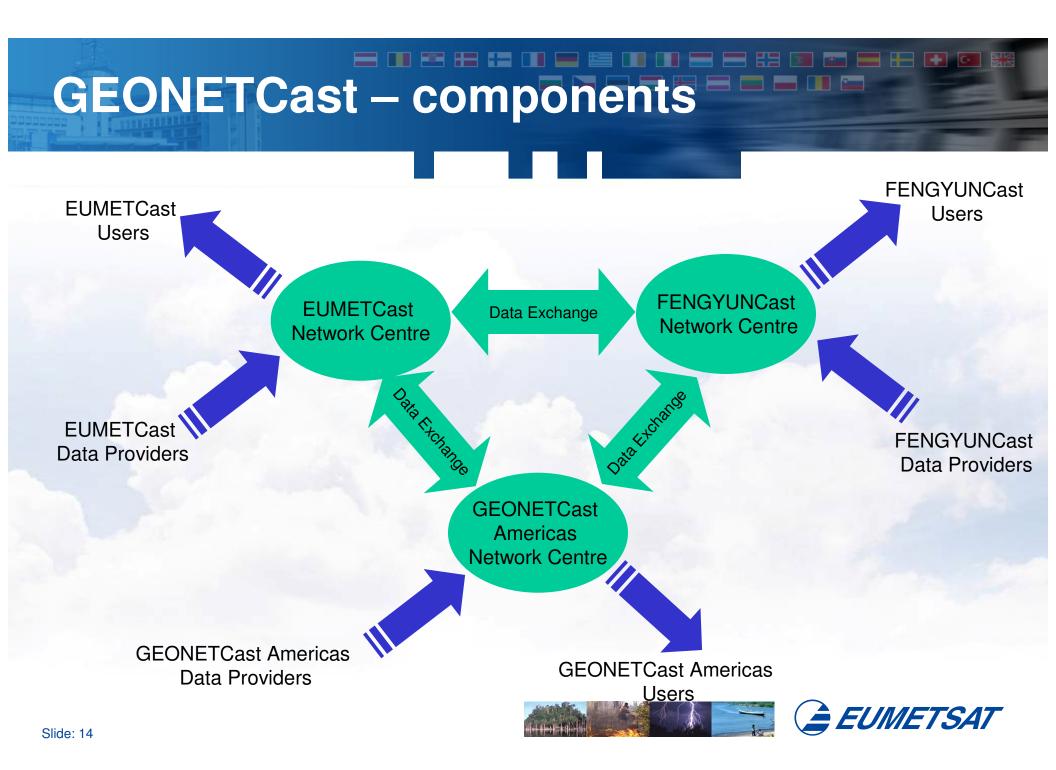
GEONETCast – the Implementation Group

- The group consists of CMA, EUM, NOAA and WMO;
- And convene (teleconference) every two weeks basis;
- Set of basic GEONETCast documents describes scope of activities:
 - Implementation Plan
 - Design Concept
 - Product Guide
- Currently working on an Interface Document for Data Exchange between Network Centres
- And possibly on a draft 'GEONETCast Partnership Agreement';
- GEONETCast is recognised as one of the early achievement of GEO



GEONETCast – Global Coverage EUMETCAST EUROPE HB-6, KU-BAND **DPERATIONAL** Russu **UROPE** FENYUNCAST. ABIA NOSTH ANORICA & GANADA CHINA ABIABAT-4 C-BAND PRE-OPERATIONAL MIDDLE EAST INDIA APRICA BOUTH AMERICA AUSTRALIA. EUMETGAST EUMETCAST AFRICA AMERICAS NEW ZEALAND AB-3, C-BAND NSS 806, C-BAND OPERATIONAL OPERATIONAL ANTARCTICA





Opportunities

GEONECast: disseminating environmental data to user worldwide

- Possibility for data providers or users to request access to GEONETCast (Feedback Form)
- Already including numerous atmosphere related data



Contacts and Further Info

- GEONETCast further information from GEO www.geonetcast.org

- GEONETCast collaboration wiki wiki.geonetcast.org
- **Product Navigator** www.eumetsat.int/products
- EUMETCast further information from EUMETSAT www.eumetsat.int/home/main/what_we_do/EUMETCast
- EUMETSAT User Helpdesk ops@eumetsat.int



Thank you for your attention!

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