

## WMO INFORMATION SYSTEM

## EUMETSAT a Data Collection or Product Centre in WIS

IN 2010 EUMETSAT ENROLLED AS A DATA COLLECTION OR PRODUCT CENTRE (DCPC) AND WAS SUCCESSFULLY ENDORSED AS DCPC by CBS-ext 2010, Namibia .

Centres that fulfil within specific WMO Programmes an international responsibility for the generation and provision for international distribution of data and/or products are in the WMO Information Systems (WIS) context referred to as **Data Collection or Product Centres (DCPCs)**. In 2010 EUMETSAT enrolled as a DCPC and successfully completed the designation procedure by enhancing its existing interfaces and services. Those enhancements addressed primarily functionalities and services provided by EUMETSAT's EOPortal.

As an endorsed DCPC, EUMETSAT implemented operationally the following set of essential functions:

### Data Collection and Data Production intended for Dissemination

#### ▲ Within its area of responsibilities

EUMETSAT collects operational satellite data and non-satellite data, produces meteorological products and delivers data and products that satisfy the meteorological requirements of its Member States.

#### ▲ Within the framework of WMO Programs

As a key member of the WMO Global Observing Systems (GOS), EUMETSAT is actively contributing through the provision of data, products and services from its satellites.

EUMETSAT is also disseminating data and metadata world-wide through GEONETCast a near real time, global network of satellite-based data dissemination systems . GEONETCast is a contribution to WMO-IGDDS.

### Information Provision

#### ▲ Intended for Global and non-Global Exchange

EUMETSAT is responsible for provision of real-time functions of data and product dissemination

- ▲ Via Direct Dissemination and EUMETCast, its satellite dissemination systems
- ▲ Via GTS/RMDCN
- ▲ Via bi-lateral data exchange links to strategic partners



EUMETSAT Geostationary Data Provision System



EUMETSAT EO Product Navigator



## Provide Access to Information

The **Earth Observation Product Navigator** is the EUMETSAT centralised discovery service facilitating access to all EUMETSAT data and products. It is a web based interface available via Internet providing access to the EUMETSAT DAR catalogue.

Users can find their data using a simple full-text search, a geographic and time search or using a browse by theme mode.

The Product Navigator provides a secure access to all real-time or offline archived EUMETSAT datasets.

The product navigator is available from:

<http://www.eumetsat.int/Home/Main/DataProducts/ProductNavigator/index.htm>

## Use of International Metadata Standards to be interoperable

The Product Navigator is a fully interoperable information discovery system:

- ▲ It is built upon **ISO 19115/19139 XML** Metadata standards. All Metadata records are also conforming to the **EU INSPIRE** directive.
- ▲ It provides search and discovery APIs compliant to the **Open Geospatial Consortium Services** for Web 2.0.2 (OGC CSW) standard as well as ISO 23950 SRU protocol.

## Real time Interconnection to GISCs to be part of the WIS

As a DCPC, EUMETSAT is providing data intended for global and regional exchange to the designated GISCs in its WMO region.

EUMETSAT also has in place operational procedures for synchronizing its metadata catalogue with the GISC Offenbach.

EUMETSAT Metadata contained within the Product Navigator is operationally synchronised to GISC Offenbach in WMO core profile 1.2 .

GISC Offenbach is synchronizing its product catalogue with other GISCs such as GISC Beijing and via the network of GISCs, EUMETSAT datasets can therefore be discovered and retrieved from anywhere within the WIS.

As soon as the OpenWis software platform has been declared operational by the consortium, EUMETSAT will interface itself with the emerging GISCs Toulouse and Exeter.

## WIS Key Benefits for users of EUMETSAT data and products

With the WIS, exposure and availability of EUMETSAT products and datasets are greatly increased as they can now reach potential users that are not necessarily part of the meteorological community.

The EUMETSAT DCPC infrastructure is operationally ready to function as DCPC in WIS and welcome all WIS users that want to take advantage of the EUMETSAT datasets

“EUMETSAT has embraced the WIS vision from the beginning and due to its contributions has helped raising the WIS infrastructure to its current operational status.”

**Mr Shi Peiliang**, WMO Director WIS

“Since early 2000 EUMETSAT has been a core member in the development of the WMO Information System and significantly contributed both technically and financially”

**Dr Lars Prahm**  
EUMETSAT Director General