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1 USING THE PRODUCT NAVIGATOR

The product navigator database holds descriptions of more than 240 satellite products, imagery and software. The product navigator is not designed to provide direct access to the products, but rather to provide essential information about a product and guide a user to where it is possible to access it.

Each product is described in a table that contains information on resolution, coverage, formats, dissemination frequency, where it is available, links to where the products can be accessed, as well as resources for more information about the products.

1.1 Simple Search

The interface of the Navigator allows simple word searches. Enter the keyword that best describes the product you are looking for, and click on the Search button. If you don't get a match, check your spelling or try a related keyword. If you get too many products, try a more specific keyword. If you enter two or more keywords, the program will search for products that contain all of the keywords.

1.2 Filtered Search

Another way of searching is to use the dropdown menus on the page to make a filtered search. Filtering can be done after a keyword search or on its own. Note: the keyword search should not be used after filtering, since the keyword search will search through the whole database once again, overriding the filtering. The Reset button will reset all dropdown menus for a fresh search. The menus are sorted in several categories:

Type

The types are defined as: Atmosphere, Land, Marine (geophysical regions covered by the product), Satellite Data (Imagery and unprocessed data) and Software (software that has been developed to facilitate the utilisation of satellite data and/or products)

Societal Benefit

The products are categorised according to how they contribute within a societal benefit area. The societal benefits to which a product may contribute are defined within a GEO context as:

- Reducing loss of life and property from natural and human-induced disasters.

- Understanding environmental factors affecting human health and well-being.
- Improving management of energy resources.
- Understanding, assessing, predicting, mitigating, and adapting to climate variability and change.
- Improving water resource management through better understanding of the water cycle.
- Improving weather information, forecasting and warning.
- Improving the management and protection of terrestrial, coastal and marine ecosystems.
- Supporting sustainable agriculture and combating desertification.
- Understanding, monitoring and conserving biodiversity.

Product Provider

Apart from EUMETSAT, the product providers are:

- Support to Nowcasting and Very Short Range Forecasting (NWC) SAF
- Ocean and Sea Ice (OSI) SAF
- Climate Monitoring (CM) SAF
- Numerical Weather Prediction (NWP) SAF
- Land Surface Analysis SAF
- Ozone Monitoring (O3M) SAF
- GRAS Meteorology (GRAS) SAF
- Support to Operational Hydrology and Water Management (HWM) SAF
- National Oceanographic and Atmospheric Administration/National
- Environmental Satellite, Data, and Information Service (NOAA/NESDIS)
- Deutscher Wetterdienst (DWD)
- The Royal Netherlands Meteorological Institute (KNMI)
- Japan Meteorological Agency (JMA)
- China Meteorological Agency (CMA)
- U.K. Met.Office
- Flemish institute for technological research (VITO)
- US Environmental Protection Agency (UNEP)

Parameter

This is the category of the product in geophysical terms (if applicable). The parameters range from aerosol to water vapour.

Coverage

This is the geographical coverage of the product, whether it is the full disk or a smaller region.

Dissemination

The dissemination mechanisms used for the products in the navigator are EUMETCast, Direct Dissemination, the EUMETSAT Archive, the EUMETSAT website, the Global Telecommunications System (GTS), the Climate Monitoring SAF Archive, and the Numerical Weather Prediction (NWP) SAF.

Status

The status of the products can be: operational, pre-operational, demonstrational and under development. If the product is defined as software, the status can be freeware or licensed. For the EUMETSAT definition of product status, see section 2.

1.3 Full view and Detailed View

The Detailed View option (default) will show all information on each product in a tabular format. The tables can be expanded by clicking 'more' in the lower right corner of each table.

The List View option will list all products in single rows, each row containing a short selection of information on the product.

The Sort List option allows the user to sort the list in alphabetically descending or ascending order.

1.4 Product Information

The information currently shown for each product is: Name and acronym, Product Provider, Societal Benefit Area, Product Status, a Description, the Dissemination availability (i.e. through which mechanisms can a product be received, and which regions can receive the product), the EUMETCast channel (if applicable), a EUMETCast name example, Frequency (i.e. number of products per day), and the Projection and/or Resolution of the product.

The Dissemination mechanisms (i.e. via EUMETCast, GTS, Direct Dissemination etc.) are listed with links to where the user can find more information on how to receive the product. Dissemination formats are listed.

If the product is archived, there will be a link to the archive. In some cases there can be very many different archive formats. In that case, the user should refer to the archive for a comprehensive list.

Finally, there are links to resources. These will be links to further information, such as provider website, or technical documentation.

2 EUMETSAT DEFINITION OF STATUS OF PRODUCTS:

Development:

Definition: *Products or software packages that are in development and not yet available to users*

This is the default category for any product that is recognised as a target for development and is independent from the start and status of the actual development work. This category also applies if beta users are involved in the validation process.

Demonstrational

Definition: *products or software packages that are provided to users without any commitment on the quality or availability of the service and have been considered by the relevant Steering Group to be useful to be disseminated in order to enabling users to test the product and to provide feedback*

An early dissemination to users or selected users in some cases is useful e.g. for the preparation and testing of systems relying of the products as input. The demonstrational status includes also the case, when the data from which the product is derived is not yet validated or operational.

Pre-operational

Definition: *Products or software packages with documented limitations that are able to satisfy the majority of applicable requirements and/or have been considered by the relevant Steering Group suitable for distribution to users*

This category could apply for one or more reasons e.g. in case the product is incomplete in terms of validation and/or coverage as well as for products with known degraded quality in terms of coverage, timeliness, resolution and/or accuracy. It can be expected that development activities are ongoing to improve the pre-operational products in order to promote them to the category “operational”.

Operational

Definition: *products or software packages with documented non-relevant limitations that largely satisfy the requirements applicable and/or have been considered by the relevant Steering Group mature enough for distribution to users*

Any limitations of an “operational” product with respect to the planned and committed characteristics are not relevant for the targeted applications. Such non-relevant limitations

could be only slight differences in the definition of the product, in terms of coverage, timeliness, formats etc.

3 PROCESSING LEVELS OF EUMETSAT POLAR SYSTEM (EPS) GLOBAL DATA PRODUCTS

EPS global data products are categorised according to instrument and product level. The following is a definition of the different product levels, as understood in the EPS context:

Level 0: Raw data after restoration of the chronological data sequence for each instrument, i.e. after demultiplexing of the data by instrument, removal of any data overlap due to the data dump procedure and relevant quality checks. Raw instrument data information (telemetry packets) is maintained during this process.

Level 1a: Instrument data in full resolution with radiometric and geometric (i.e. Earth location) calibration computed and appended but not applied.

Level 1b: Calibrated, earth located and quality controlled product, in the original pixel location, and packaged with needed ancillary, engineering and auxiliary data.

Level 1c: In case of the IASI spectra, level 1b data after application of the apodization function.

Level 2: Earth located values converted to geophysical parameters, at the same spatial and temporal sampling as the level 1b and 1c data.

Level 3: Gridded point geophysical products on a multi-pass basis, or resampled products. Level 3 data (and in many cases level 2 data) are generated by the various SAFs.