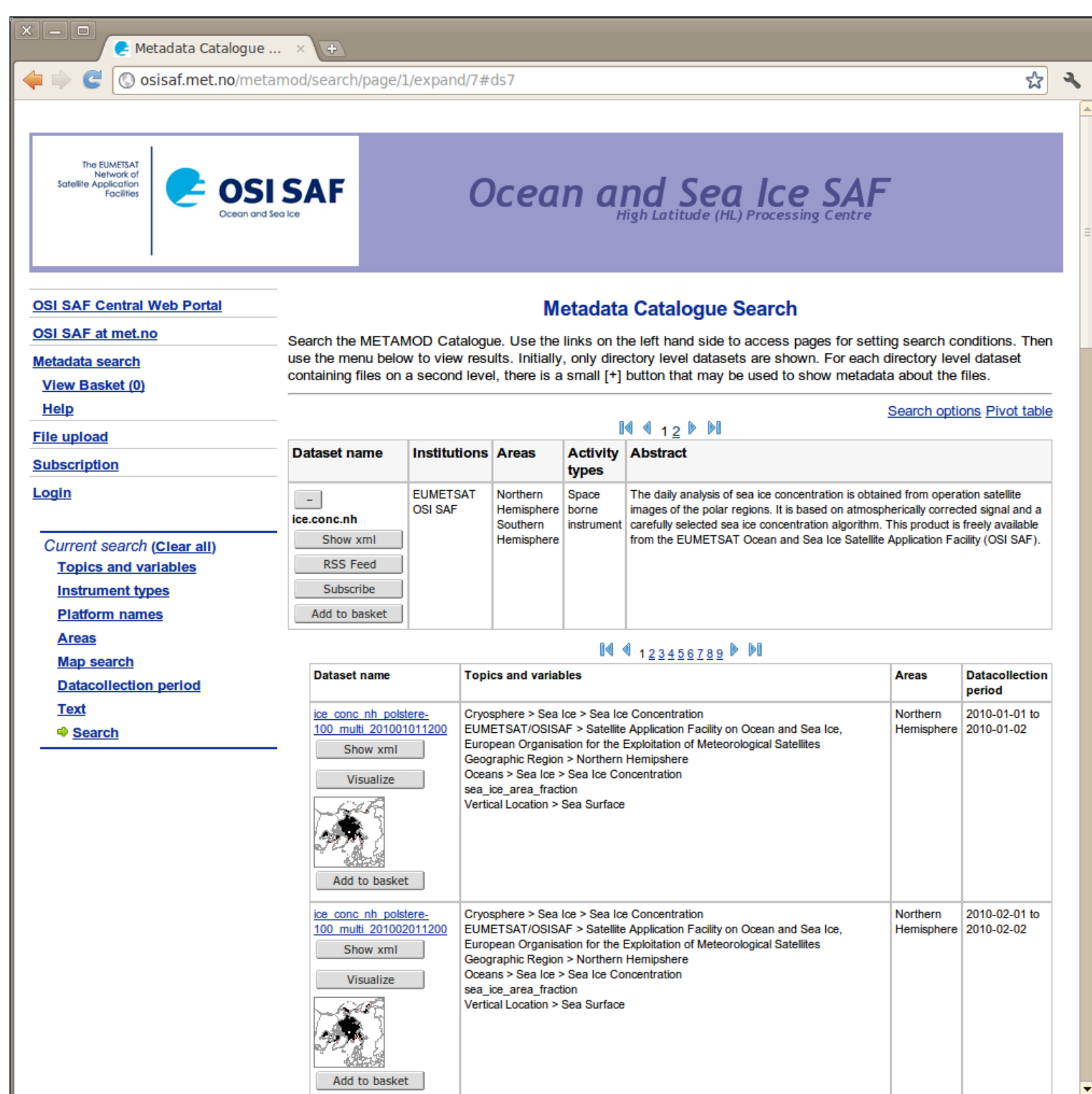# PROVIDING METADATA AND SERVICES FOR EUMETSAT OSI SAF PRODUCTS AND INTEGRATION INTO THE NETMAR EUROPEAN MARINE INFORMATION SYSTEM

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METAMOD in a nutshell

An interactive search interface simplifies discovery of scientific data.

Datasets can e.g. be identified using instrument type, geographic location, temporal location, or freetext in the search criteria. The results of the search performed may be bookmarked for later use or forwarded to a colleague
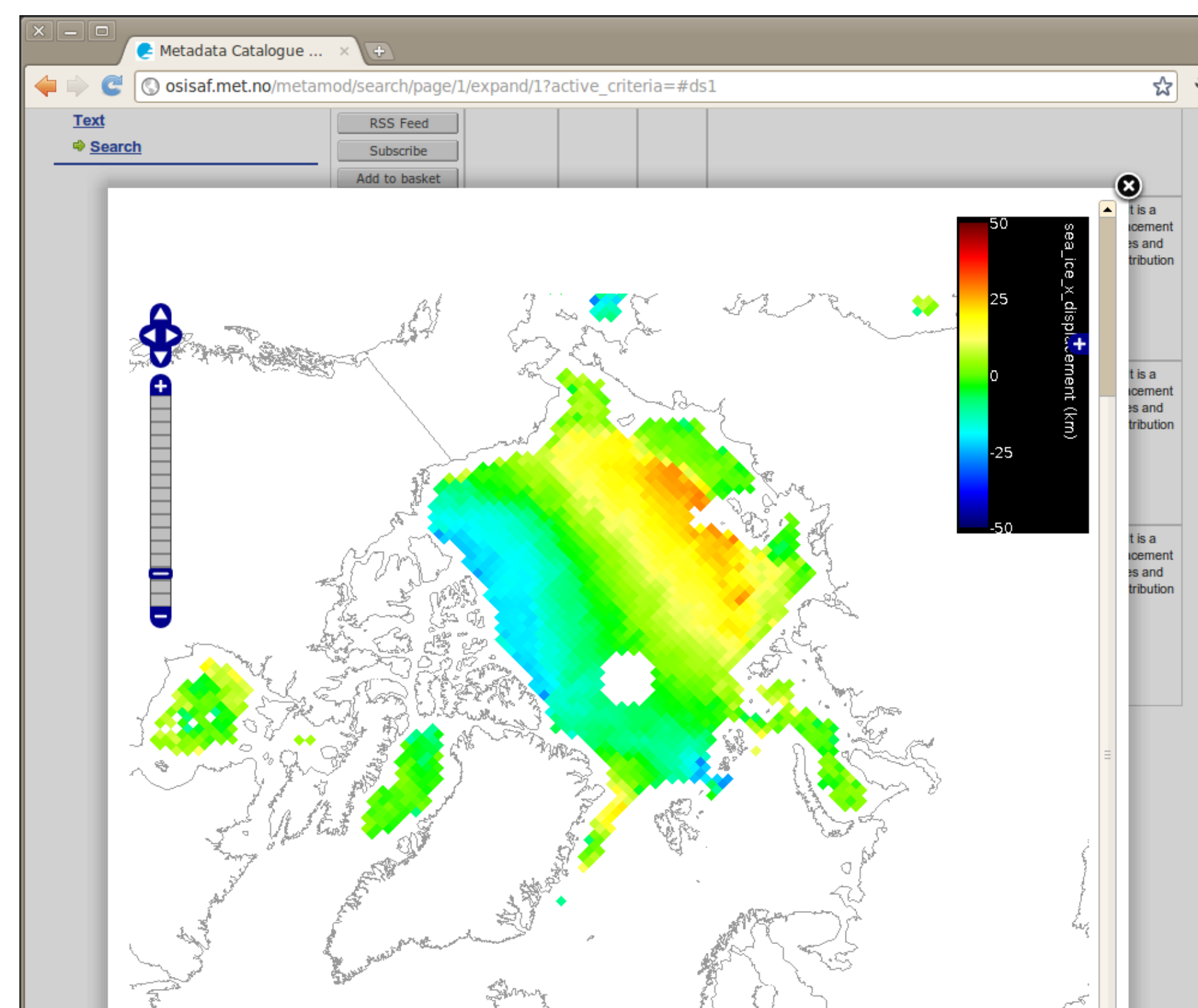
METAMOD contains an integrated WMS client providing quick visualisation of selected datasets

Dataset can also be download over HTTP or OPeNDAP via THREDDS
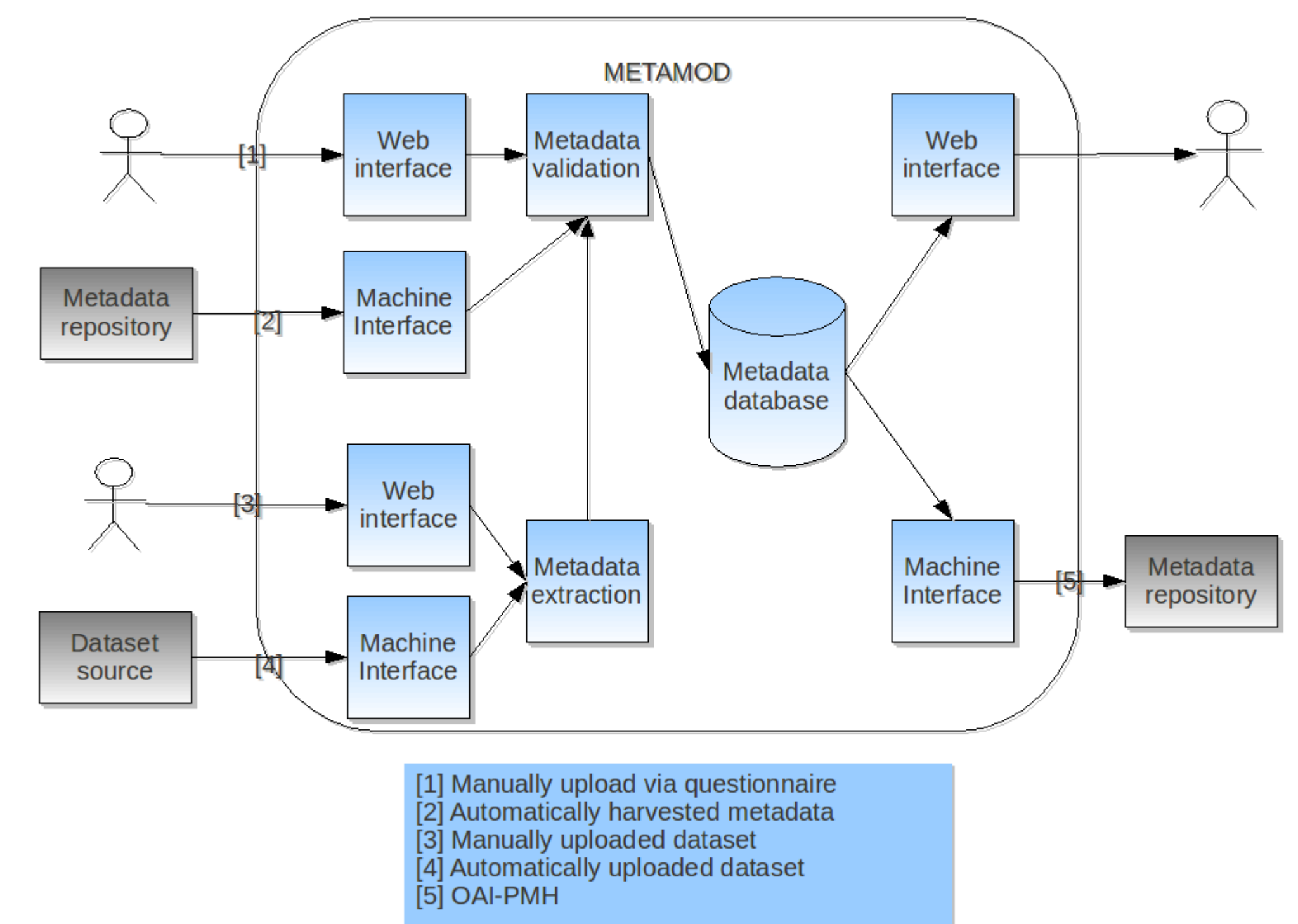
METAMOD simplifies data management and distribution of metadata through automation.

METAMOD is a metadata catalog server. Metadata can be harvested from many different sources and stored in a central location. Metadata can be access via a web portal or through machine interfaces.

METAMOD in OSI SAF

METAMOD will be a central part of OSI SAF Sea Ice data management
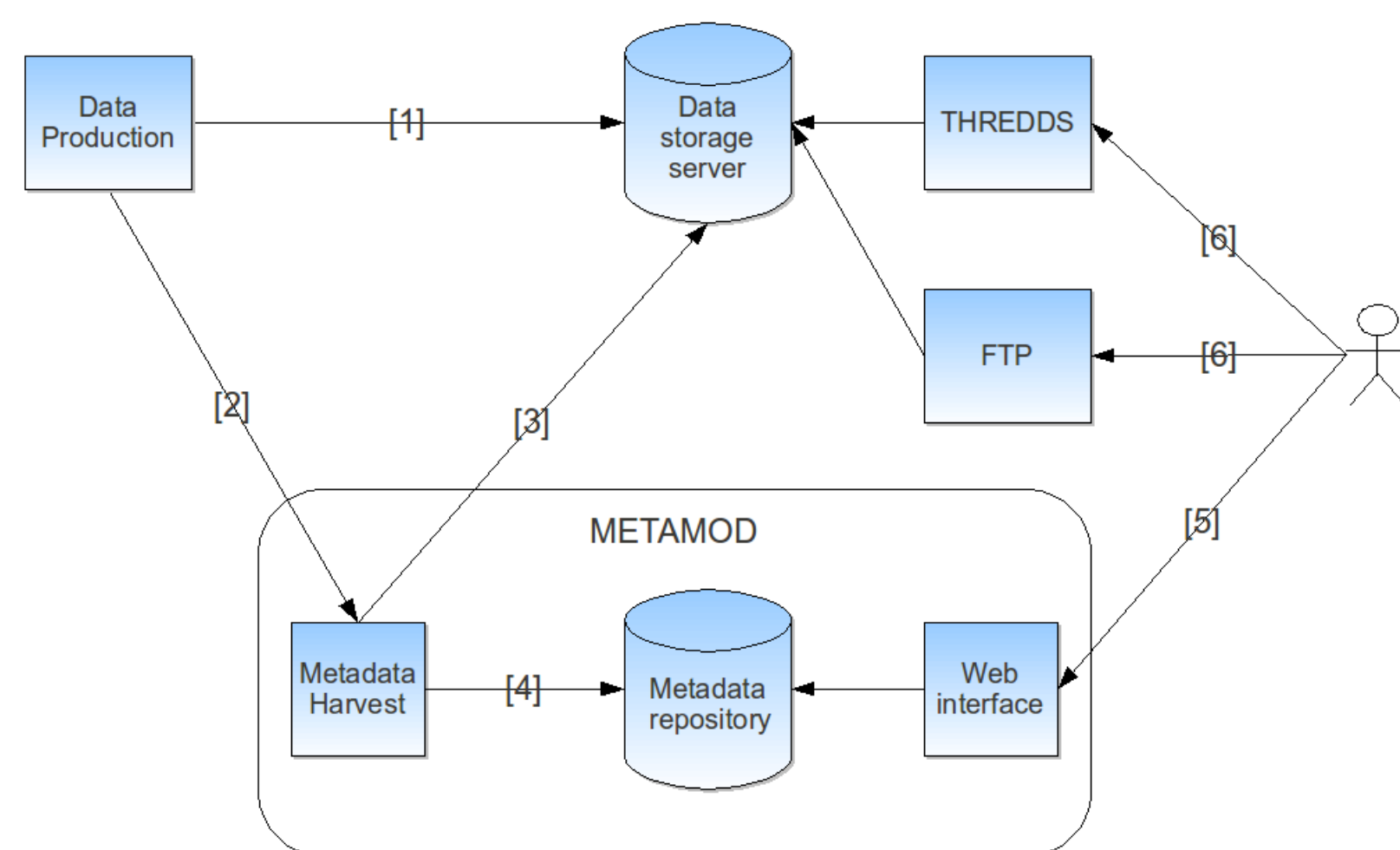
In OSI SAF METAMOD will be used as part of the sea ice data management system. The figure on the left gives and overview over how the different components fit together.
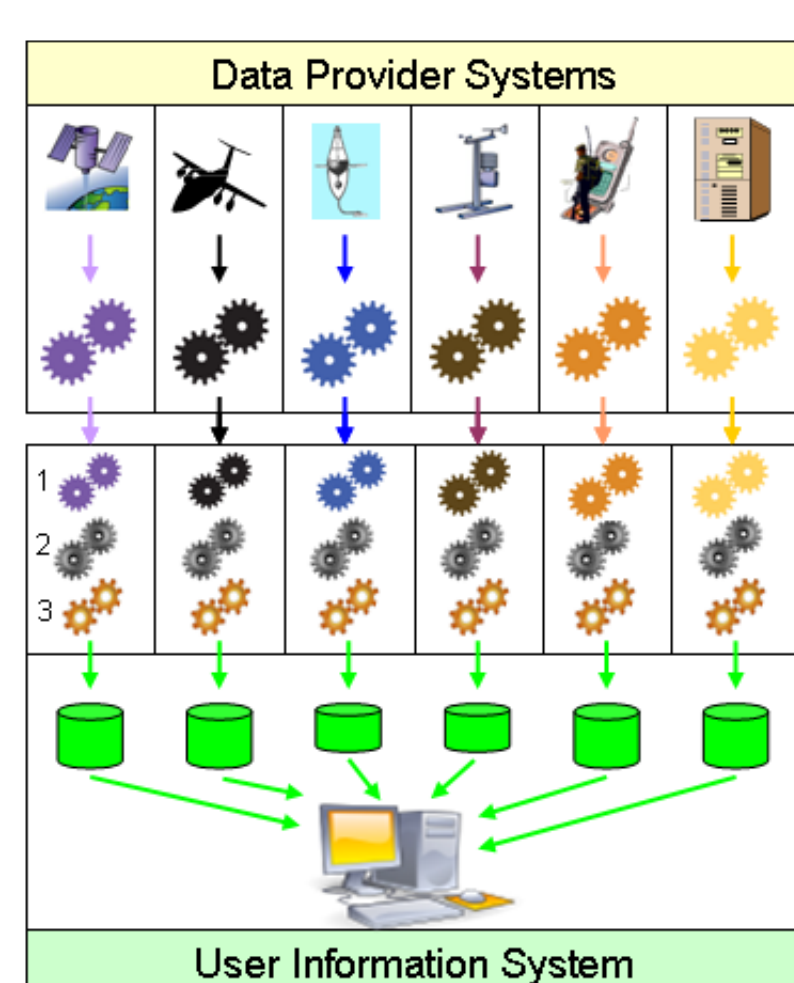[1] When data is produced it is placed on a data storage server as NetCDF files.
[2] METAMOD is notified that new data is available.
[3] Metadata is harvested from NetCDF files located on the data storage server.
[4] The harvested metadata is placed in the metadata repository.
[5] The user can now find the new data using the web interface.
[6] The data can be downloaded via HTTP or OPeNDAP using THREDDS. The data is also available over FTP.

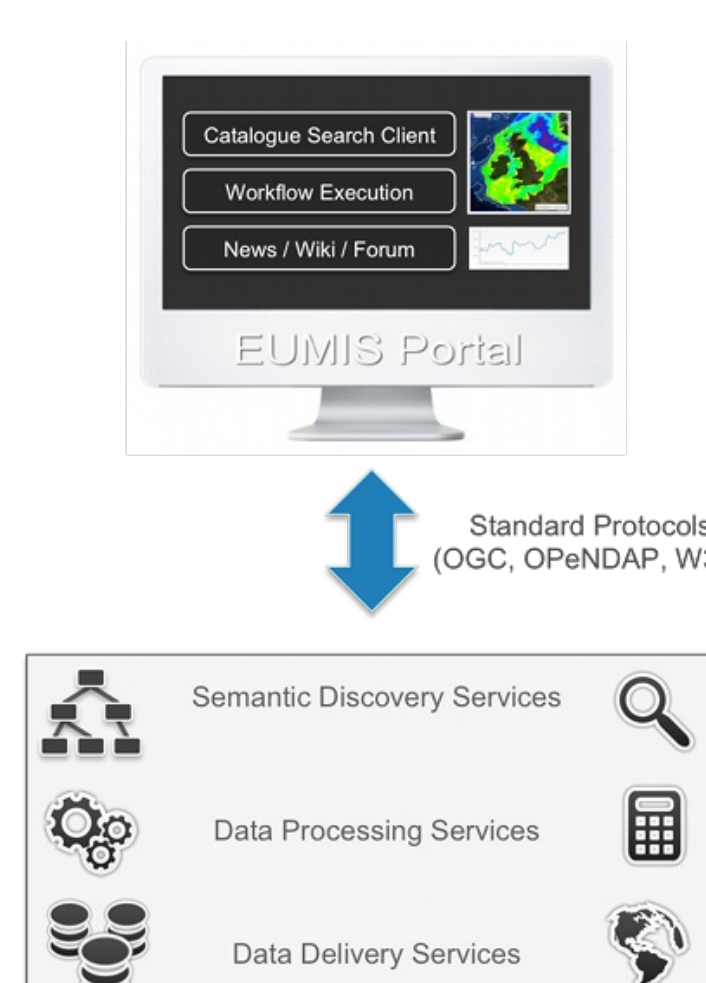The OSI-SAF METAMOD installation for Sea Ice is available at http://osisaf.met.no/metamod

METAMOD is available under a GPL 2.0 license. More information can be found http://wiki.met.no/metamod/start

What is EUMIS?

EUMIS integrates data from many sources.

**The EUMIS portal is built on top of standardised data, metadata and processing services**

The European Marine Information System (EUMIS) (http://eumis.nersc.no) will be a system for searching, downloading and integrating satellite, in situ and model data from ocean and coastal areas. A prototype EUMIS system is being designed and implemented as part of the NETMAR project (http://netmar.nersc.no).

EUMIS will be a user-configurable system offering flexible service discovery, access and chaining facilities using OGC, OPeNDAP and W3C standards.

From a user perspective EUMIS will provide a portal for searching, accessing and chaining data and processing services from many different providers. Since EUMIS is being built on top of well known standards, adding new providers will be as simple as providing URL to the correct services.

Improved sea ice service with EUMIS
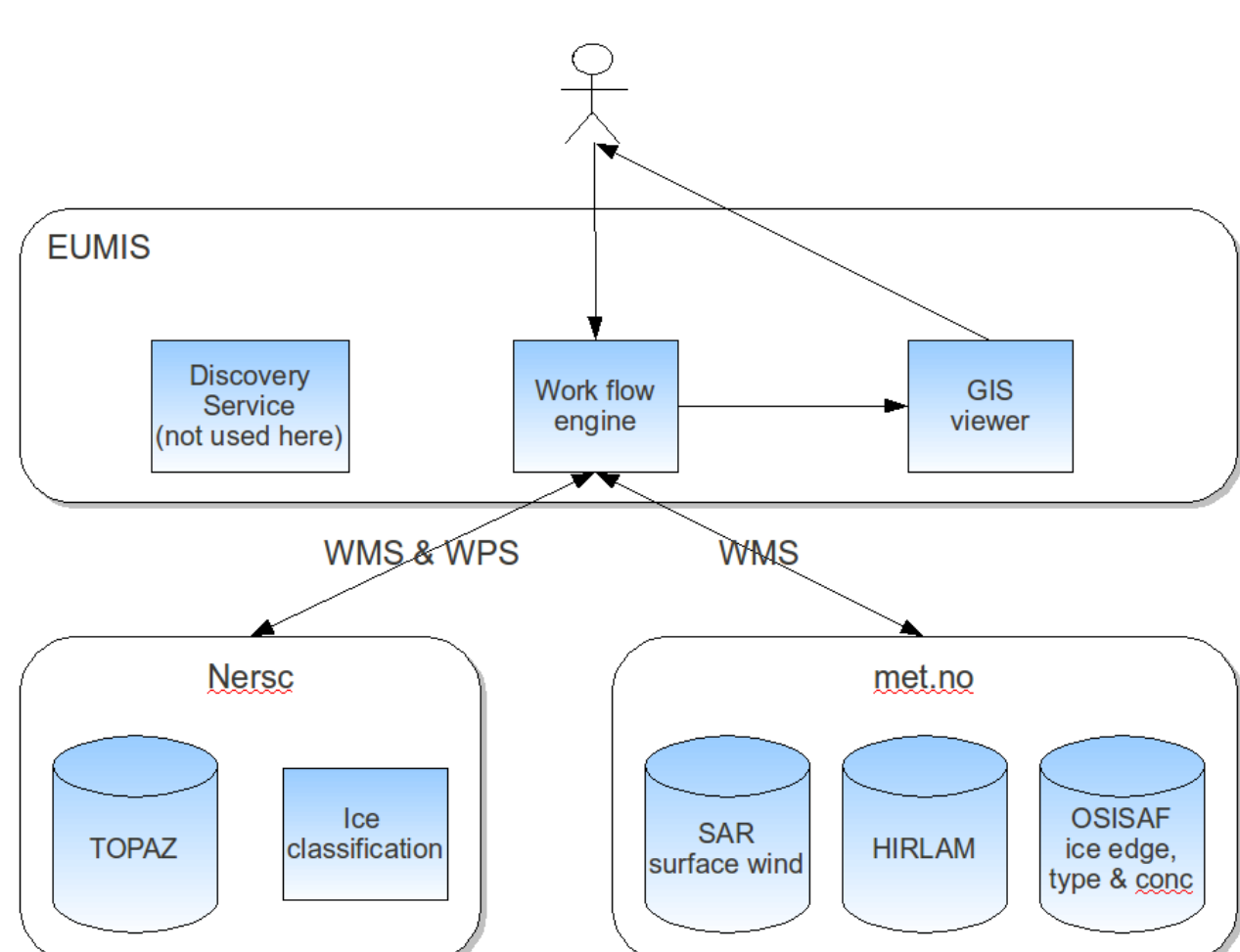
The EUMIS portal makes it easier to combine data from different sources into a improved sea ice service.

The objective with the EUMIS Arctic Sea Ice pilot is to create an improved sea ice service which combines multiple sources of information. The prototype will include data from Nansen Environmental and Remote Sensing Center (NERSC, www.nersc.no) and The Norwegian Meteorological Institute (met.no). The data provided by met.no will built using the OSI SAF Sea Ice data management system with METAMOD and THREDDS as the key components.

In the Arctic Sea Ice pilot the user will access the EUMIS portal and use it to execute a workflow that combines the information from all the sources. The user can then view the combined data in the EUMIS GIS Viewer. That the data comes from different sources is completely transparent to the user and adding new data sources will not require more than a change in the work flow configuration. Since the EUMIS portal and the data management system is built using well established standards, creating new services is a matter of configuration and not based on software development.