



COMMITTEE ON EARTH OBSERVATION SATELLITES

ICS eoPortal for Exchanging “tsunami” Data

About the ICS eoPortal

The ICS eoPortal is the follow-on of the INFEO system

About the INFEO system

- was developed under the auspices of CEOS as an **interoperable** catalogue system
- offers the customer one interface to
 - access to international EO catalogues
 - locate diverse EO data sets
 - use data from different disciplines
 - access data in themes
 - use browse, inventory, directory, order
- offers the developer one toolkit to
 - re-use software
 - access to all his catalogues
 - save costs
 - increase services
 - increase user community

The Catalogue Interoperability Protocol (CIP)

Links the INFEO components

- Themes used to design CIP
 - ❑ Selected Z39.50 as base protocol on which to build CIP
 - ❑ Collection concept enables distributed searching
 - ❑ Middleware routes messages: Retrieval Manager
 - ❑ Data Model defined based on existing standards
 - ❑ Secure ordering as a Z39.50 Extended Service
- Interoperability based on standards
 - ❑ Search Standardization
 - ❑ Retrieval Standardization
 - ❑ Dynamic Client Configuration Standardization
 - ❑ Attribute Standardization
 - ❑ Order Procedures Standardization
 - ❑ Security Policy Standardization

Collections and Data Products

■ Collection

- “A grouping of item descriptors that have commonality.”
- A collection refers to datasets that have something in common, e.g. the same theme.
- Collections are hierarchically organized.

■ Data product

- “A unique aggregation of data generated from information held in an archive”.
- It is what is delivered to the user.

Descriptors are attached to collections and to data products.

Collections may be navigated through using thematic keywords.

Data products may be searched in a collection with date and/or area criteria. Other “advanced” criteria are sometimes available (e.g. cloud cover).

The ICS eoPortal today

- maintained by ESA
- gives access to catalogues from ESA, DLR using the ESA “EOLI” interface
- can host adverts to external resources
 - **Dataset** – Describe datasets and other products.
 - **Document** – Describe textbooks, journal papers, technical reports, user manuals, ...
 - **Service** – Describe value adding, consultancy and other services.
 - **Project** – Describe a research project, or a demonstration case.
 - **Event** – Describe workshops, seminars, conferences, training courses etc.
 - **Software/model** – Describe a software package or model.
 - **Discussion forum** – Describe electronic or other discussion forums.
 - **Promotion** – Describe a special offer or job opportunity.
 - **Library** – Describe libraries.

A form is available for the online description resources.

The ICS eoPortal and “tsunami” Data

Full Support of the ICS eoPortal

- There may be several “tsunami” data collections in different countries
 - Japan (JAXA?)
 - Thailand (GISTA?)
 - USA (NASA?)
 - ...
- Corresponding catalogues could be linked to the ICS eoPortal
 - straightforward if implemented as Z39.50/CIP compliant servers
 - may require a gateway if not CIP compliant (demos exist at ESA)
- “tsunami” data should be described according to the CIP data descriptor format
- Characterization of “tsunami data” is needed:
 - is a “tsunami” advanced search criteria enough?

Minimal Support of the ICS eoPortal

- Prepare adverts for “tsunami” related information

Preliminary conclusions

- The ICS eoPortal could be a reliable source of information for “tsunami” data
 - in addition to other sources like the IDN
 - at least through adverts
 - if possible by linking “tsunami” data catalogues to the ICS eoPortal
- It works
- It can be used immediately (see: <http://www.eoportal.org>)

Thoughts?



Thank you!