

Access to ODB contents from MARS

ODB Tutorial, 7 June 2011

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ODB Governance

- **Unified naming convention**
 - Define unique satellite id, sensor, flags, code types
 - Define all names necessary to reference each element
- **All applications/users should use the same names**
 - Use WMO codes as much as possible

Report type

- **"Report Type" is a unique combination of the following observation attributes:**
 - **Sensor, Satellite identifier**
 - **BUFR observation type, BUFR subtype**
 - **IFS/ODB observation type (obstype)**
 - **IFS/ODB observation code type (codetype)**
- **This combination of observation parameters has been chosen to reflect working practices of many users**
- **It represents the smallest unit to be retrieved before any filtering can be applied**
- **Report types are grouped by type of data: it seems to define naturally the organisation of the archive**

Report type table

FullReportType - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://data-portal.ecmwf.int/odbgov/FullReportType/

[ReportType](#) | [ExpandedReportType](#) | FullReportType
[Group](#) | [GroupKind](#) | [SatemKind](#) | [SATOBKind](#) | [ConventionalKind](#)
 IFS: [ObsType](#) | [CodeType](#) | [Sensor](#) WMO codes: [SatelliteInstrument](#) | [SatelliteIdentifier](#) BUFR: [BufrType](#) | [SubType](#)

FullReportType

reporttype ↑		group		bufrtype		subtype	
1	TIROS-N HIRS Radiances	1	HIRS	3	Satellite Sounding	55	ATOVS
2	NOAA 6 HIRS Radiances	1	HIRS	3	Satellite Sounding	55	ATOVS
3	NOAA 7 HIRS Radiances	1	HIRS	3	Satellite Sounding	55	ATOVS
4	NOAA 8 HIRS Radiances	1	HIRS	3	Satellite Sounding	55	ATOVS
5	NOAA 9 HIRS Radiances	1	HIRS	3	Satellite Sounding	55	ATOVS
6	NOAA 10 HIRS Radiances	1	HIRS	3	Satellite Sounding	55	ATOVS
7	NOAA 11 HIRS Radiances	1	HIRS	3	Satellite Sounding	55	ATOVS
8	NOAA 12 HIRS Radiances	1	HIRS	3	Satellite Sounding	55	ATOVS
9	NOAA 14 HIRS Radiances	1	HIRS	3	Satellite Sounding	55	ATOVS
10	NOAA 15 HIRS Radiances	1	HIRS	3	Satellite Sounding	55	ATOVS
11	NOAA 16 HIRS Radiances	1	HIRS	3	Satellite Sounding	55	ATOVS
12	NOAA 17 HIRS Radiances	1	HIRS	3	Satellite Sounding	55	ATOVS
13	NOAA 18 HIRS Radiances	1	HIRS	3	Satellite Sounding	55	ATOVS

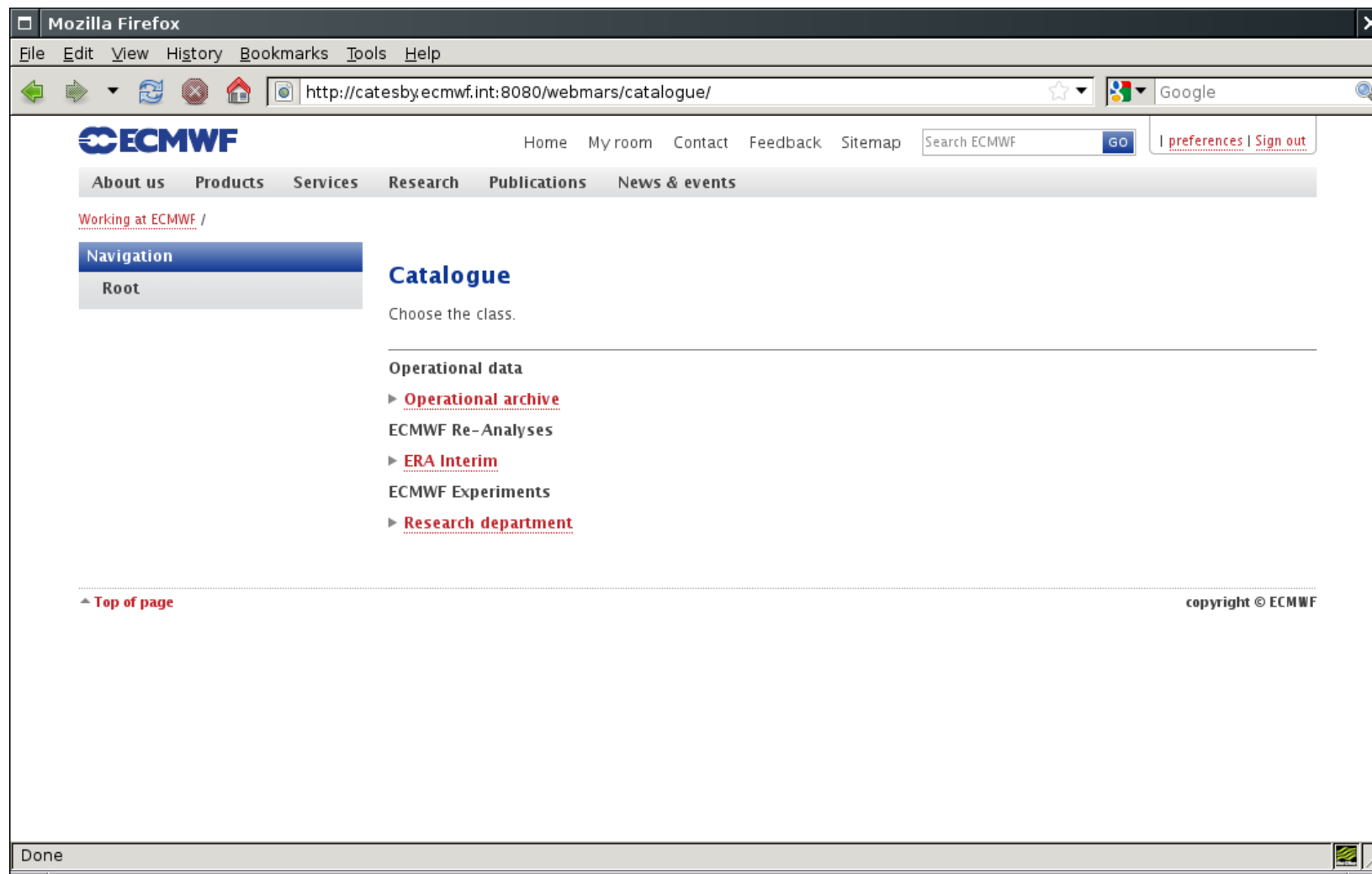
Done

Current Status: testing phase

- Defined the file format for ODB contents in MARS
- Working version of ODB API library
- Defined report types for all obs handled by IFS/ODB
- Tools for archiving/handling ODB content
 - MARS: *mars -o*
 - Magics++
 - MetView
 - Obstat
- MARS support in test mode
 - Test archiving of current operational/research ODBs

Database=marsodb

MARS Catalogue



Resources

- Report type table

- <http://data-portal.ecmwf.int/odbgov/FullReportType/>

- Catalogue

- <http://hdr14.ecmwf.int:19876/marstree>
 - [RD,EI] database=marsodb
- <http://hdr11.ecmwf.int:19876/marstree>
 - [OD] database=marsodb dev
- <http://catesby.ecmwf.int:8080/webmars/catalogue/>

- Examples

- ~trx/ODBTutorial/MARS

Questions?