

# MARS archiving of ODBs: status for CY37R3

- Most ODB cleaning has been completed... New schema file - See [http://intra.ecmwf.int/rd/odb/ECMA\\_CCMA\\_table\\_CY37R3.html](http://intra.ecmwf.int/rd/odb/ECMA_CCMA_table_CY37R3.html)
- ODBs (MFB and OFB) archived in MARS by default for all RD experiments + operation.
  - No revmatchup i.e. CCMA (old format) shall not be used for post-processing; it will not be saved in ECFS (even in operation).
  - MFB (MONitoring Feedback) is created by selecting a subset of ODB columns from active+passive observations (datum\_status.active=1). **MONDB database has disappeared.**
  - OFB (ODB Feedback) contains all the observations (ECMA) but for now only a subset of columns is archived (to be changed in the next cycle).
  - **Latitudes and longitudes are in degrees**

# ODB-tools (P. Kuchta)

See <http://intra.ecmwf.int/publications/cms/get/satds/15834>

- odb\_obsgroups: shows MARS group names or/and identifiers
  - > odb\_obsgroups “ssmi all-sky”
  - > odb\_obsgroups 26
- odb\_reporttypes: shows MARS reporttype names or/and identifiers
  - > odb\_reporttypes -r 1007
- odb\_header: shows header(s) and metadata(s) of file
- odb\_dump: dump the content of an ODB-2 file (select \*).
- odb\_count: give the number of rows of an ODB-2 file.
- odb\_split: splits an ODB file according to given template
  - > odb\_split mondb.reporttype.odb mydb{reporttype}.odb
- odb\_set: create a new file setting columns to given values
- odb\_sql/odbsql: handle both ODB-1/ODB-2

# Documentation

***All the documentation is available on the intranet only***

*(Work at ECMWF → Organisation → Research → Data Division → Satellite Data Section)*

- **Main ODB documentation (available both in html and pdf)**  
<http://intra.ecmwf.int/rd/odb/>
- **ODB/SQL Tutorial**  
<http://intra.ecmwf.int/publications/cms/get/satds/11162>
- **ODB FAQ** <http://intra.ecmwf.int/publications/cms/get/satds/11070>
- **ODB availability at ECMWF**  
<http://intra.ecmwf.int/publications/cms/get/satds/10575>
- **New ODB viewer (Graphics Team)**  
<http://intra.ecmwf.int/publications/cms/get/satds/15385>
- **MARS Observation Groups and Report types**  
<http://intra.ecmwf.int/publications/cms/get/satds/14533>
- **ODB-2 specific tools**  
<http://intra.ecmwf.int/publications/cms/get/satds/15834>

# ODB Tutorial – ODB tools

- The goal is to use ODB-tools on the ODB files retrieved from MARS
- The file `~trx/ODBTutorial/MARS/ODBTOOLS` contains some examples
- All the examples have to be run with the latest version of ODB  
`setenv ODB_VERSION CY37R3.001` (csh users)  
`use odb`  
(or `export ODB_VERSION=CY37R3.001` for ksh users)
- Feel free to explore the usage of these tools with your own examples...
- And do not hesitate to ask questions!
- Your feedback is welcome...