

# EUREF Campaign Database

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# EUREF Campaign Database

The Database of the Campaigns has been unavailable for some time.

There has been little demand for the database in the past.

This raises some important questions

- What is today the role of the EUREF campaign database, and is it still important for EUREF?
- If so,
  - What kind of products/services should be made available to the users?
  - Who will be the users?
  - Who will maintain the database?

In order to start the discussion first the current status of the database will be presented.

# Current status of the database

The database consists of two components

1. The database itself (XML files)
2. The web-application (scripts)

In version 1 the database was implemented using

- a. Microsoft access
- b. Perl scripts for the web-applications, using csv files generated by Microsoft access

In version 2 the Microsoft access database was replaced by **XML files**, which are easier to maintain. The perl-scripts directly access the XML database.

Version 2 development never completely finished, and version 1 became unavailable after a server migration.

# Database implementation (1)

## XML Database

The XML database consists of the following items

1. Station data
2. Campaign data

The database is maintained using an ASCII editor. The database can be read using different tools. Currently we use Perl scripts to do consistency checking on the database.

Status: complete until 2004 (the most recent campaigns have not yet been added)

## Web-application

The web application is written in Perl and runs on a Apache web-server (linux).

Status:

- not yet fully integrated with the XML database (some components are still version 1).
- certain functions are still missing, such as the ability to generate/display maps (Google maps).

The web-pages do not need to be dynamic. Static pages, generated by scripts from the database will do fine because updates to the database are not frequent. For serious applications the users could consult the XML files directly.

# Database implementation (2)

## Meta data

Campaign name		EUREF-CH92/93
ITRF	93	
Epoch		1993.0

## For every observed station (including fixed stations):

Field	Example	Remarks
Site name	Monte Generoso	Full case sensitive site name
Country	Switzerland	
Domes number (if available)	14005M002	
EUREF number (if available)	58	
Other id's (if available)	7590	CDC number, 4 char id, etc.
X, Y, Z		Cartesian coordinates in ETRS89 in [m]
Rms N, Rms E, Rms U		Rms from e.g. daily repeatabilities in [m]
Fiducial type	IGS/E	If fixed, type of fixed stations [ IGS   IGS/E   ITRF ]
Receiver	Ashtech Z12	Receiver type
Ecc_X, Ecc_y, Ecc_Z		Eccentricity wrt to the marker
Ecc_marker		Marker name (if available)

# Future of the Campaign database

- The main application has always been the validation of campaigns for the introduction of ETRS89 by national mapping agencies:
  - ➔ proceedings
  - ➔ database
- There has not been much demand for the database on the Web.
- So we should seriously consider if it is useful to spent a lot of resources on the database.
  - ☐ What kind of products/services should be made available to the users?
    - list of campaigns
    - list of stations
    - coordinates
  - lists and/or maps
  - ☐ Who will be the users?
  - ☐ Who will maintain the database?