

Data Standards Training Course

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The Data Standards Training Course was developed in the framework of the [EU FP7 Project MICORE](#) and involves **one day** in which the participants are taken through a wide range of exercises. Although the schedule can be adapted to better match with the participants' specific needs and background knowledge the schedule of this course generally is as follows:

Programme
• 8:30-8:50 Registraton • 8:50-9:00 Opening by director of Deltares Harry Baayen • 9:00-9:25 Open Earth initiative ◦ General introduction of the OpenEarth initiative • 9:25-9:30 Data management in general ◦ Opening and outline of the course 1. Extract Taking measurements and storing the measured data into files. 2. Transform Enriching gathered data with metadata and storing in a standard file format. 3. Load Storing the files in a database - <i>not dealt with in this course.</i> 4. Provide Giving access to the database. • 9:30-10:30 Extract ◦ Excercise: getting all the OpenEarthTools with subversion ◦ Excercise: modifying and uploading a subversion checkout • 10:30-12:00 Transform ◦ Excercise: exploring the OpenEarthTools ◦ Excercise: loading raw data into OpenEarthRawData ◦ Excercise: converting to netcdf while adding meta-data • 12:00-13:00 Lunch • 13:00-14:00 Load and Provide ◦ Excercise: reading netcdf and opendap ◦ Excercise: selection of data • 14:00-15:30 Hands-on exercises ◦ exploring the OpenEarthTools ◦ exploring the OpenEarth OPeNDAP server ◦ transforming your own data into netCDF • 15:30-16:30 Brief introduction into working with wiki's • 16:30 drinks

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Data management in general

In the EU FP7 Project [MICORE](#) a [data standard and archiving protocol](#) was defined to provide end-users with a comprehensive standardised database. The protocol has become part of the **Open Earth Initiative** and is available freely. The same protocol will be adapted in the Building with nature programme. All aspects of this protocol will be dealt with in one day.

The [data standard and archiving protocol](#) provides a **four step database guideline** for OpenEarth users and developers to:

- **Extract** - Taking measurements and storing the measured data into files,
- **Transform** - Enriching gathered data with metadata and storing in a standard file format,
- **Load** - Storing the files in a database - ***actual syoring not dealt with in this course,*** and
- **Provide** - Giving access to the database.

Open Earth Initiative

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- - Explanation of the Open Earth Initiative (open source version of McTools/UCIT)
 - Overview of Open Earth building blocks

Extract

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- - [Working with subversion](#)
 - **Excercise:** getting all OpenEarhtTools to you laptop from using subversion
 - **Excercise:** Loading raw data into subversion from your laptop

Transform

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- - **Excercise:** Filling in required fields using [the inspire metadata editor](#)
 - **Excercise:** Exploring the OpenEarthTools
 - **Excercise:** reading raw data with matlab
 - **Excercise:** Converting raw data to to netCDF
 - **Excercise:** [Using CF convention](#)

Load and Provide

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- - Finding and selecting of data on OPeNDAP server.
 - Reading NetCDF and OPeNDap