

# Diva metadata xml files generation for Sextan catalogues

## 1 Diva xml file

In order to provide Sextan catalogues with meta-data products produced by Diva metadata xml files are generated for each climatology netcdf file. The metadata xml file is normally generated (or updated) through web forms at <http://www.ifremer.fr/geonetwork/srv/en/main.home> by entering all the information about the product.

Diva software produces automatically metadata xml files for each climatological variable while processing it, gathering the necessary information.

Diva uses the information gathered from all inputs: ODV spreadsheets and input files (contour.depth, param.par files, driver, etc) to build the metadata xml file, and allows the users not to fill the web-forms for each time they make a product with the information already provided in Diva input files.

In addition to the information related to gridded data and the products, users have to provide an info file “input/general\_info” with identification information related to their organisation, and contacts (see the example in 2.2).

## 2 Generation of xml files

The xml file can be generated for any (climatology) 4D netcdf file using `divadoxml` script.

`divadoxml` script can be used immediately after producing a climatology (a `divadoall` run) or by placing an old climatology 4D-netcdf file in the `./output/3Danalysis/.` directory.

For both cases the generated xml file will be found in `./output/3Danalysis/.` directory, and has the same name as the related netcdf file.

`divadoxml` uses as input the usual `varlist`, `yearlist`, `monthlist` files, and for each variable a `var.SDNconv` file.

### 2.1 The Var.SDNconv file

For each variable, `divadoxml` reads in the file `var.SDNconv` the following information:

- **Short name of the dataset:** can be chosen by the author,
- **Parameters in dataset:** Official name in the SDN conventions, the list of parameter names is given in the file: `./input/SDN_P021.list`,
- **Thumbnail file name:** File name of a small image representing the data set,
- **Url compliment:** to the Url where data set can be accessed: “<http://gher-diva.phys.ulg.ac.be/data/emodnet-domains/>”

- **Geographical area name:** Official name in the SDN conventions. The list of Geographical area names is given in the file: `./input/Geographical_areas.list`,
- **Time units:** month, season, etc

It must be placed in the `Climatology` directory (where are placed `varlist`, `monthlist`, etc (see example (2.1)).

## 2.2 the `general.info` file

The `general.info` file must be placed in the `input` directory, it provides identification information on the generator institute and the author:

- **Organisation name:** `SDN:EDMO::xxx = SDN:Institution_full_name` where `xxx` is an id number following SDN conventions,
- **organisation e-mail address:** Official institution e-mail address,
- **Climatology and Metadata author organisation :** `SDN:EDMO::EDMO xxx = SDN:EDMO institution name` ,
- **Climatology and Metadata author e-mail address**

```
##Short name of dataset:
EMODNET_Temperature_4DNetCDF
##Parameters in dataset (see liste in ./input/SDN_P021.list):
SDN:P021:68:TEMP = Temperature of the water column
##Thumbnail file name
Tem_image
##Url compliment (to http://gher-diva.phys.ulg.ac.be/data/emodnet-domains/)
Mediterranean Sea
##Geographical area name (see ./input/Geographical_areas.list)
SDN:C16:8:28Bg = Mediterranean Sea
##Time units (month or season)
month
```

Example file 2.1: `Temperature.SDNconv` file

```
##Organizations name:
SDN:EDMO::xxx = SDN:University of Liege, GeoHydrodynamics and Environment Research
##organisation e-mail adress:
JM.Beckers@ulg.ac.be
##Climatology and Metadata author organisation (Collating Center)
SDN:EDMO::EDMO xxx = SDN:EDMO University of Liege, GeoHydrodynamics and Environment Research
##Climatology and Metadata author e-mail adress
M.Ouberdous@ulg.ac.be
```

Example file 2.2: `general.info` file template