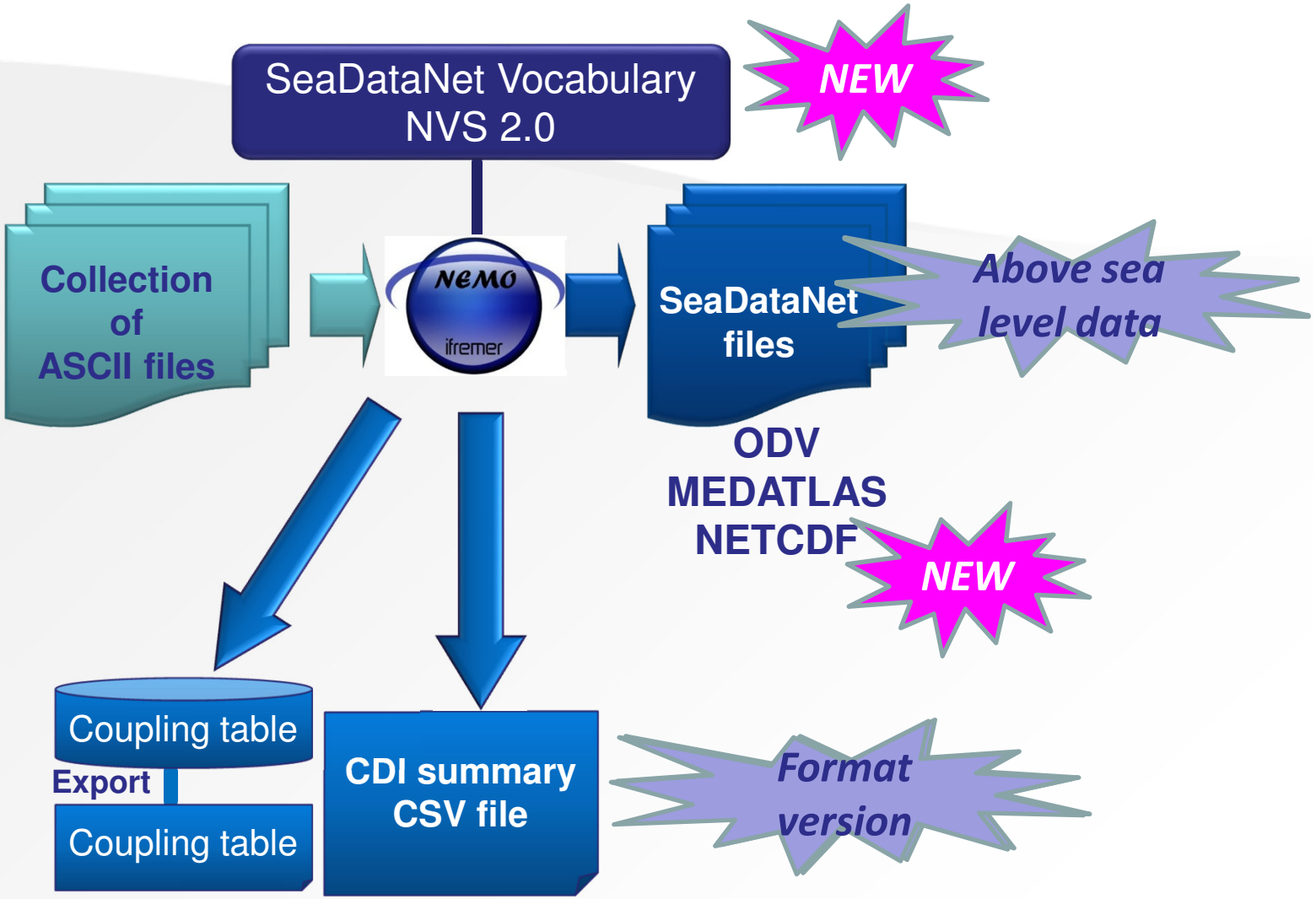
2nd annual meeting – Lucca – 26-27 September, 2013

SeaDataNet

PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

NEMO 1.5


SeaDataNet Vocabulary NVS 2.0
NEW
Collection of ASCII files
NeMO
ifremer
SeaDataNet files
Above sea level data
ODV
MEDATLAS
NETCDF
NEW
Coupling table
Export
Coupling table
CDI summary CSV file
Format version

NEMO - makes use of NVS V2.0 vocab

NEW

Updating Vocab Lists.....

C16 - SeaDataNet sea areas	OK - 1 retrieved
C17 - ICES Platform Codes	OK - 461 retrieved
C18 - Intergovernmental Oceanogra...	no need to update
C19 - SeaVoX salt and fresh water...	no need to update
C77 - SeaDataNet Cruise Summary R...	no need to update
L02 - SeaDataNet Geospatial Featu...	no need to update
L03 - SeaDataNet Measurement Peri...	no need to update
L05 - SeaDataNet device categorie...	OK - 24 retrieved
L05 - SeaDataNet device categorie...	no need to update
L06 - SeaVoX Platform Categories	no need to update
L07 - SeaDataNet data access mech...	OK - 1 retrieved
L08 - SeaDataNet Data Access Rest...	OK - 0 retrieved
L20 - SeaDataNet measurand qualif...	no need to update
L30 - MEDATLAS Data Centres	OK - 1 retrieved
P01 - BODC Parameter Usage Vocabu...	OK - 856 retrieved
P02 - SeaDataNet Parameter Discov...	OK - 1 retrieved
P06 - BODC data storage units	OK - 9 retrieved
P09 - MEDATLAS Parameter Usage Vo...	no need to update
P07 - Climate and Forecast Standa...	OK - 73 retrieved

NEMO - NVS 2.0 in Output files

- Semantic header with P01 and P06 instead of P011 and P061

NEW

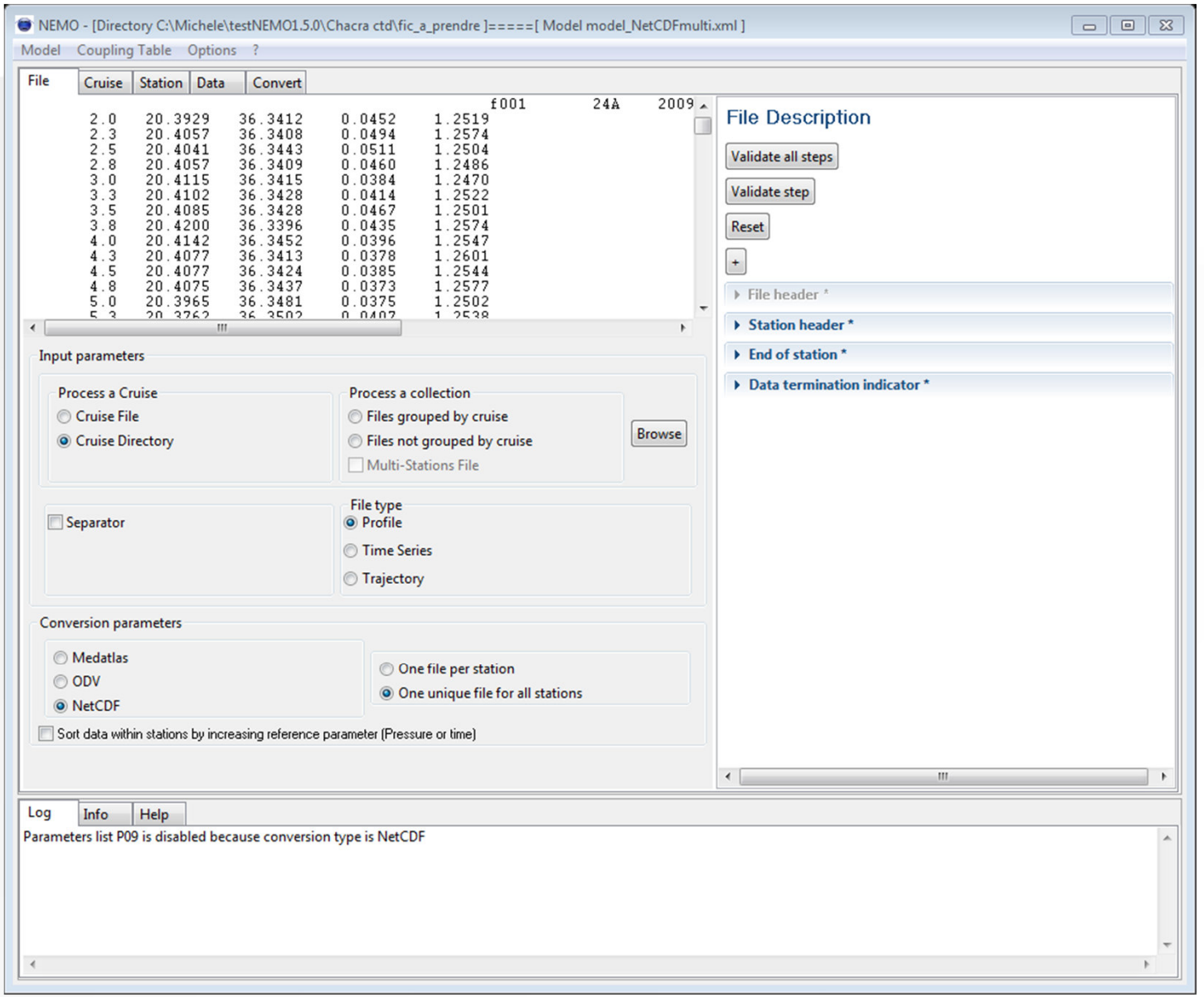
```
//
//SDN_parameter_mapping
//<subject>SDN:LOCAL:DEPH</subject><object>SDN:P01::ADEPZZ01</object><units>SDN:P06::ULAA</units>
//<subject>SDN:LOCAL:PSAL</subject><object>SDN:P01::PSSTZZ01</object><units>SDN:P06::UPAA</units>
//<subject>SDN:LOCAL:TEMP</subject><object>SDN:P01::PSLTZZ01</object><units>SDN:P06::UUUU</units>
//<subject>SDN:LOCAL:CPHL</subject><object>SDN:P01::CPHLPM01</object><units>SDN:P06::UMMC</units>
//
```

```
<units>SDN:P06::UUUU</units>
<units>SDN:P06::UPAA</units>
<units>SDN:P06::ULAA</units>
<units>SDN:P06::UMMC</units>
```

SeaDataNet

NEW

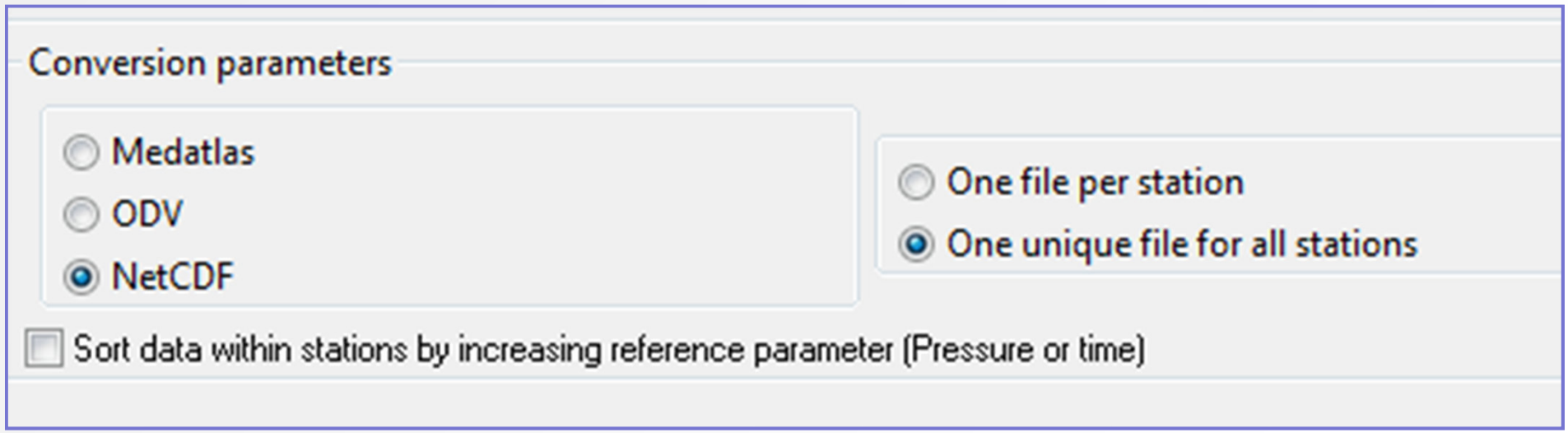
NEMO - SDN NetCDF format



NEMO - SDN NetCDF format

NEW

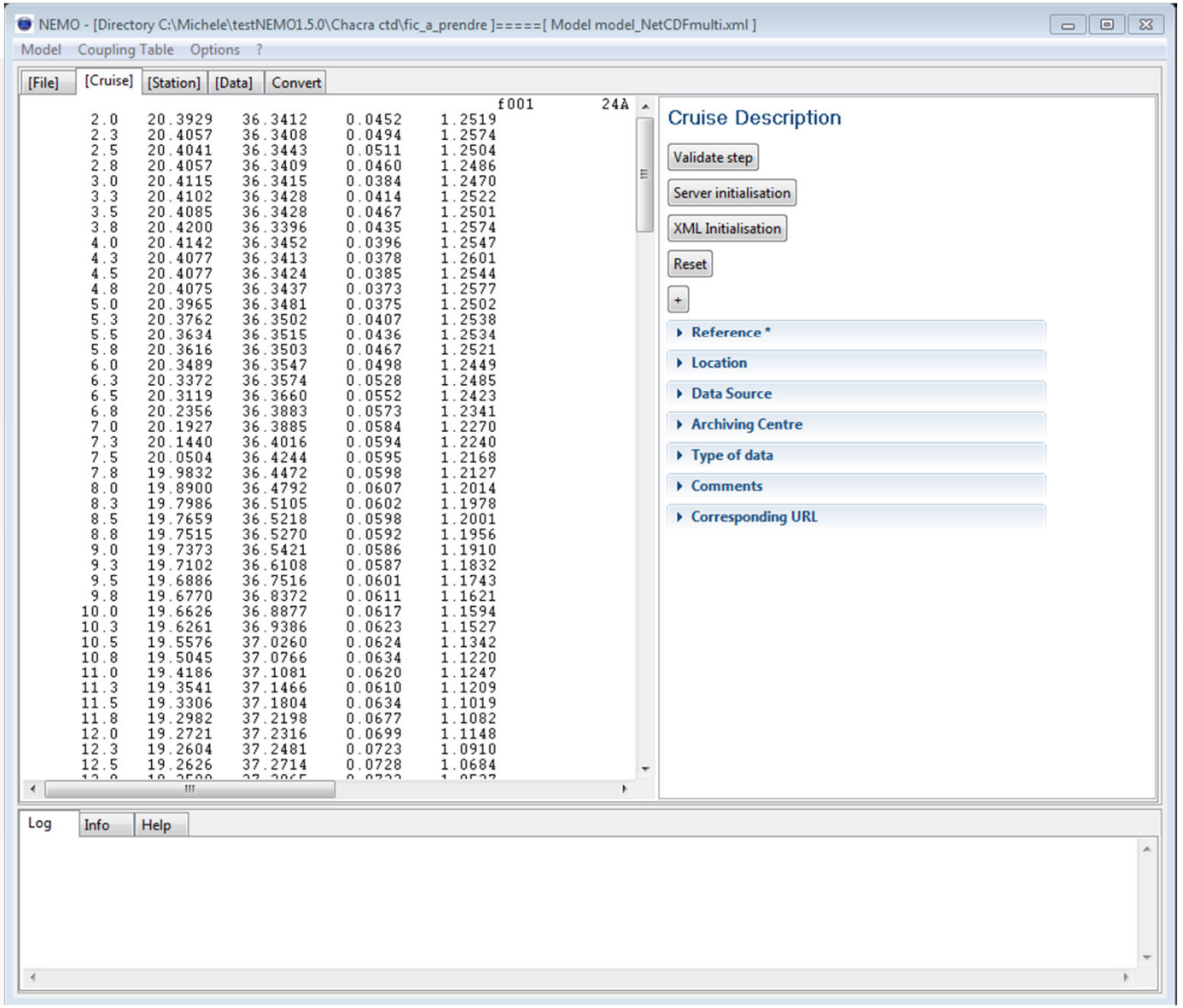
- NEMO able to generate NetCDF mono or multi-station for vertical profiles, time series and trajectories



NEW

SDN NetCDF format

Cruise information



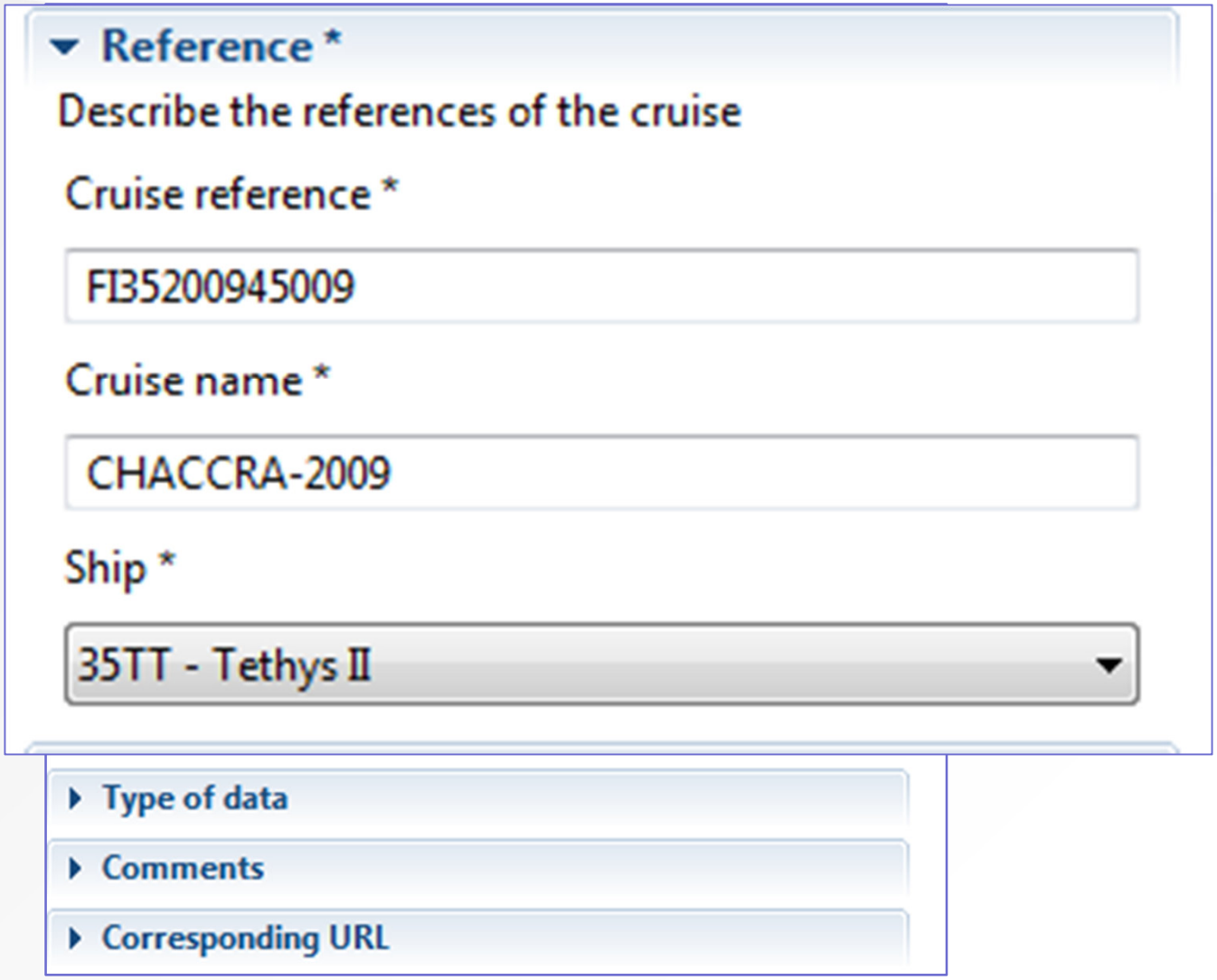
NEW

SDN NetCDF format

Cruise information

- Reference
- Name
- Ship

Mandatory

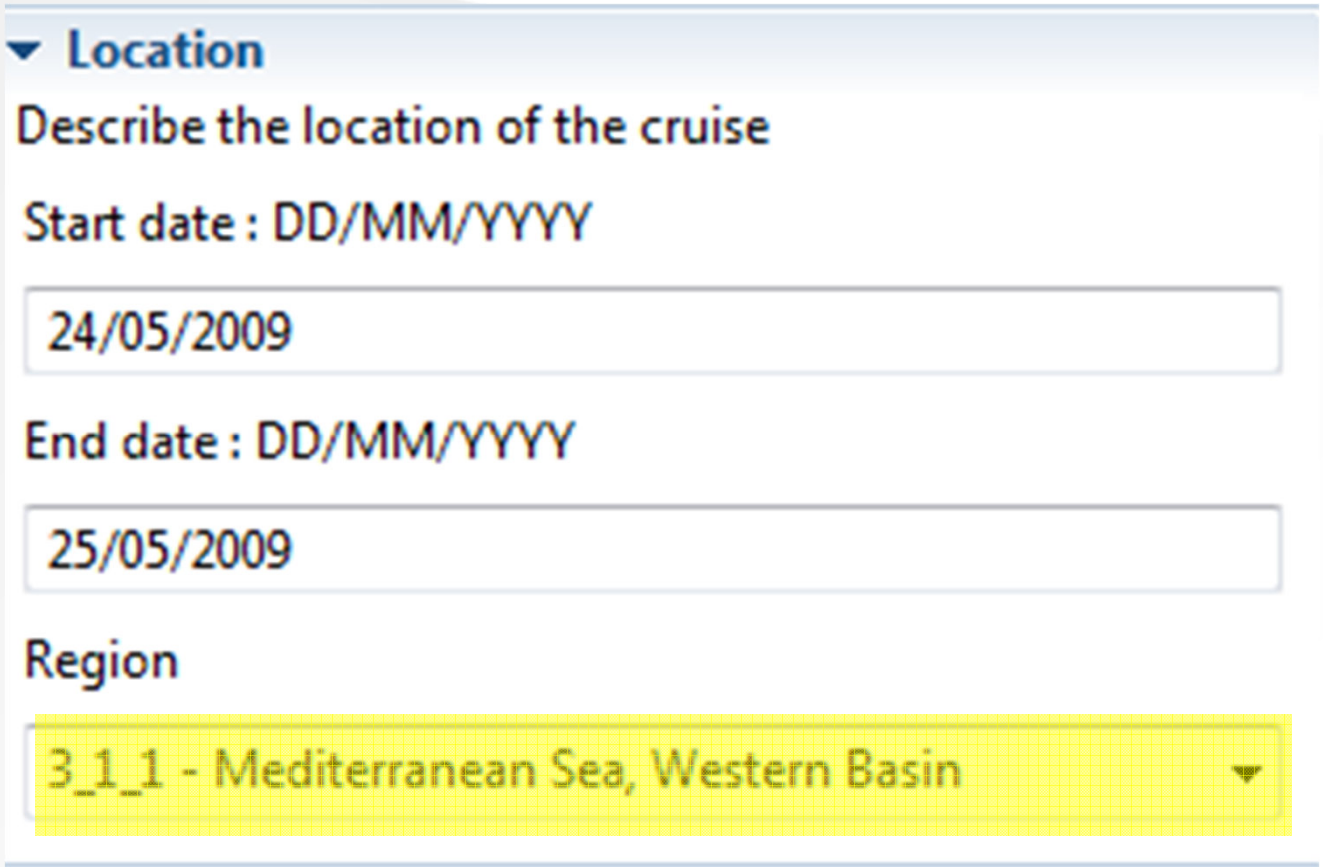


NEW

SDN NetCDF format

Cruise information

- Location is a C19 vocabulary

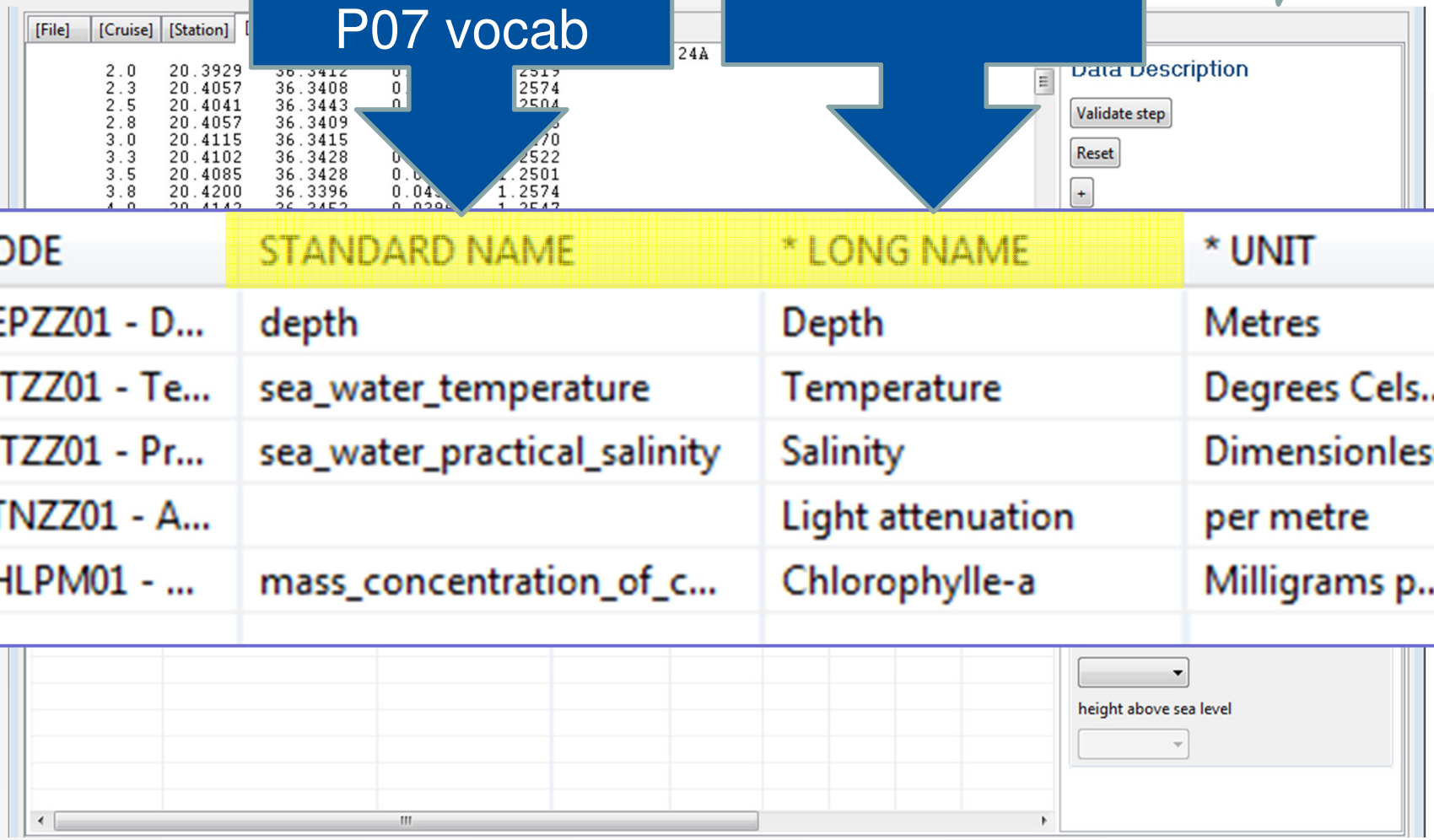


NetCDF ... rs

Not Mandatory but recommended P07 vocab

Mandatory Free text

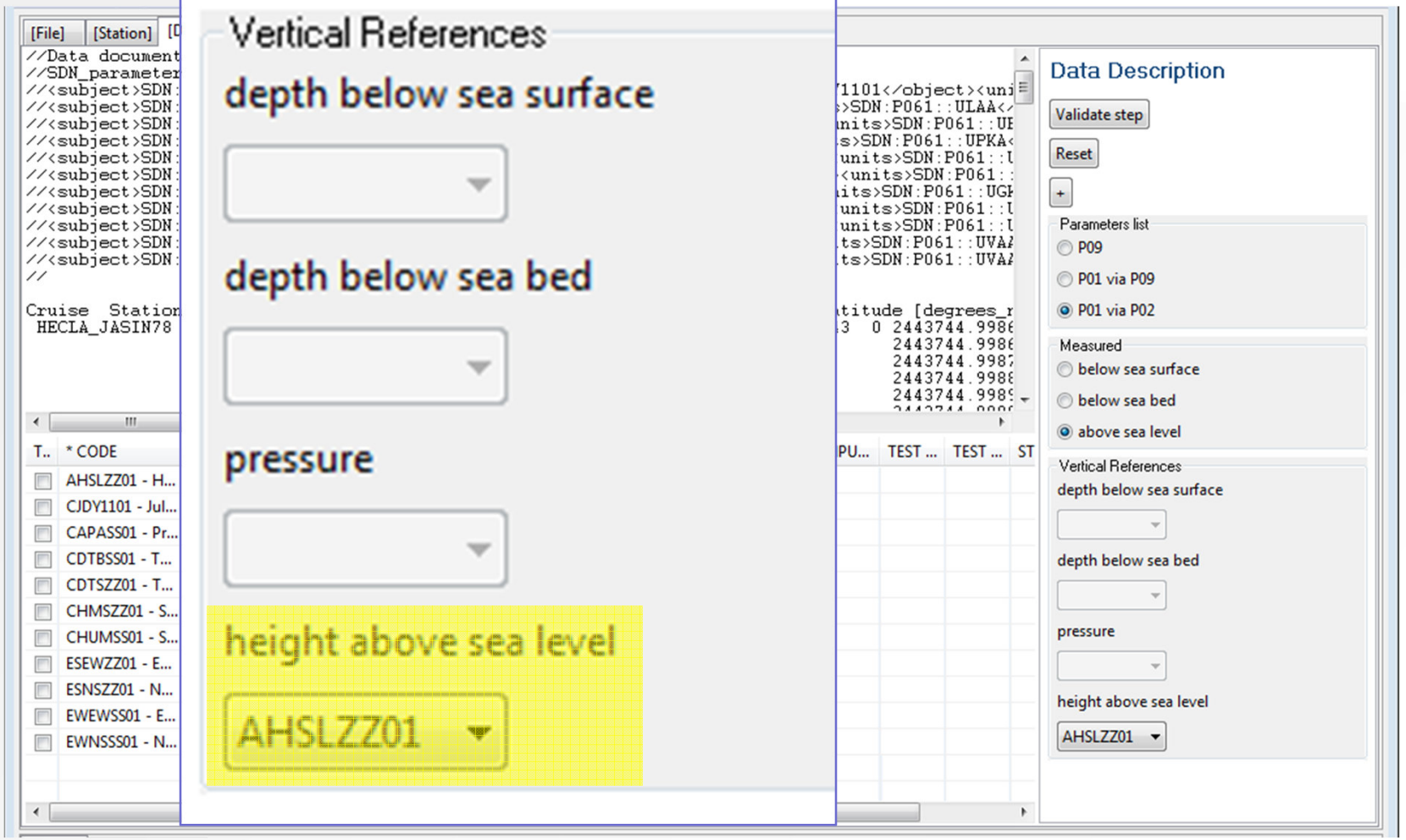
NEW



* CODE	STANDARD NAME	* LONG NAME	* UNIT
ADEPZZ01 - D...	depth	Depth	Metres
PSSTZZ01 - Te...	sea_water_temperature	Temperature	Degrees Cels...
PSLTZZ01 - Pr...	sea_water_practical_salinity	Salinity	Dimensionless
ATTNZZ01 - A...		Light attenuation	per metre
CPHLPM01 - ...	mass_concentration_of_c...	Chlorophylle-a	Milligrams p...

NEMO ... evel

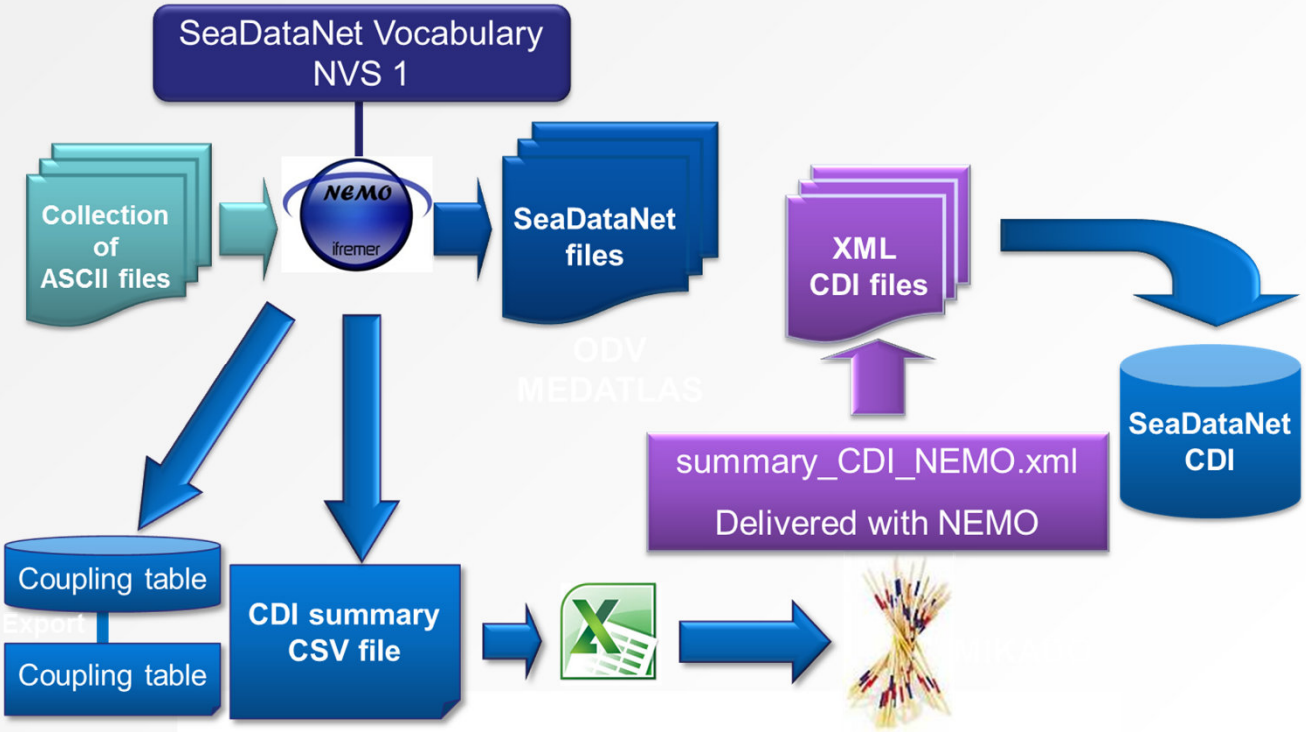
IMPROVEMENT



IMPROVEMENT

NEMO – CDI summary file

- Format version added in the CDI-SUMMARY because it is mandatory in CDI



WHAT TO DO FOR THE 1ST INNOVATION CYCLE?

To deliver your files at NetCDF format (1)

- For new data files
  - Use NEMO to generate the NetCDF files
    - **One file per station**
      - DM has to be updated to be able to split NetCDF multi-station files
  - Input the new format in the coupling table, with Modus = 1
    - Format NAME = **CFPOINT**
    - Format Version = **1.0**

To deliver your files at NetCDF format (2)

- For your files already at ODV or MEDATLAS format
  - Use **NEMO** in batch mode (works only for homogeneous files), mode “one file per station”
  - Add a line with CFPOINT format for all corresponding CDIs in your coupling table, Modus = 1

To deliver your files at NetCDF format (3)

- For your files already at ODV or MEDATLAS format, 2 new standalone software
  - **MedSDN_2_CFPOINT:**

    - will convert a set of SDN MEDATLAS files to SDN NetCDF (CFPOINT)
    - under development, to be delivered in October
  - **ODV_2_CFPOINT**:
    - will convert a set of SDN ODV files to SDN NetCDF
    - Development not started yet

To move all your files to NVS v2.0 vocab

- Stand alone piece of software **Change_Vocab_V1toV2**
  - reads all ODV or MEDATLAS files in a directory and changes P011 ➔P01 and P061 ➔ P06
  - Available on SDN vocabulary web page
- In the mean time the URN resolver has evolved and from a NVS V1 URN is able to find the NVS V2 URL