# SeaDataNet

## NEMO – Reformating tool

Michèle Fichaut - Ifremer

EMODnet Chemistry 3 Kick-off meeting, Trieste, Italy, 18-19 May 2017
sdn-userdesk@seadatanet.org – www.seadatanet.org

# NEMO [current version 1.6.3]

- Can be downloaded from SeaDataNet Web site
  https://www.seadatanet.org/Software/NEMO
- Written in **Java** Language (Version >= 1.7)
- Bilingual (French, English)
- Available under multiple environments :
  - Microsoft : Windows
  - Unix - Solaris
  - Linux
- Interactive and batch modes available
- Use of **SeaDataNet common vocabularies** web services
  - to update lists of values of the SeaDataNet common vocabularies
    - *need network connections in order to have up to date lists of values.*
    - *But NEMO works offline once the lists are up-to-date*

# NEMO main features

- Reformat ASCII text file of vertical profiles, time-series or trajectories to a SeaDataNet ASCII format (ODV, NetCDF, MEDATLAS).
- The input ASCII files can be:
  - one file per station for vertical profiles or time series
  - one file for one cruise for vertical profiles, time series or trajectories
- Interact with Mikado, to be able to generate ISO-19139 XML descriptions of the data
- Generate a coupling table that can be used with the Download manager

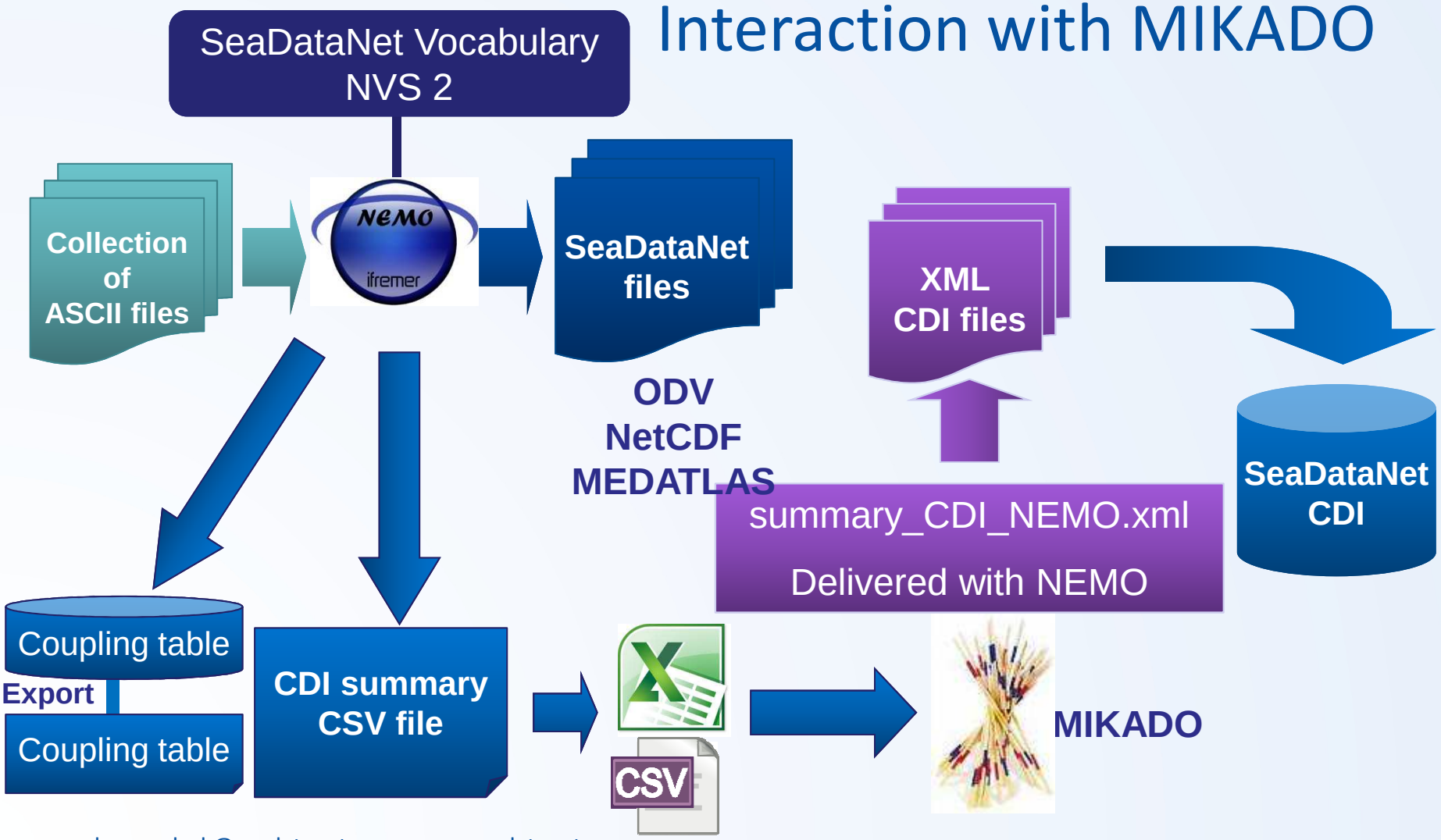
# NEMO principles

- NEMO able to read almost **any ASCII format** to translate it to SeaDataNet formats
- Users of NEMO describe the entry files format →NEMO able to find information necessary for SeaDataNet formats
- **Mandatory** pre-requirement : set of input files must be homogeneous
  - **be located at the same position** : same line in the file, same position on the line or same column if CSV format
  - **be in the same format**
  - *For example the measured temperature is:*
    - *In the second column of the measured parameters,*
    - *from character 10 to character 14*

# Files which cannot be converted by NEMO

- Binary format : like EXCEL, WORD …
  - File have to be first reformatted to text file
- Files which do not respect NEMO pre-requirements
  - **be located at the same position** : same line in the file, same position on the line or same column if CSV format
  - **be in the same format**
- Files which are not :
  - **Vertical profiles** (with depth or pressure as vertical reference)
  - **Time series** (with time as reference)
  - **Trajectories** (with latitude, longitude and time as reference)

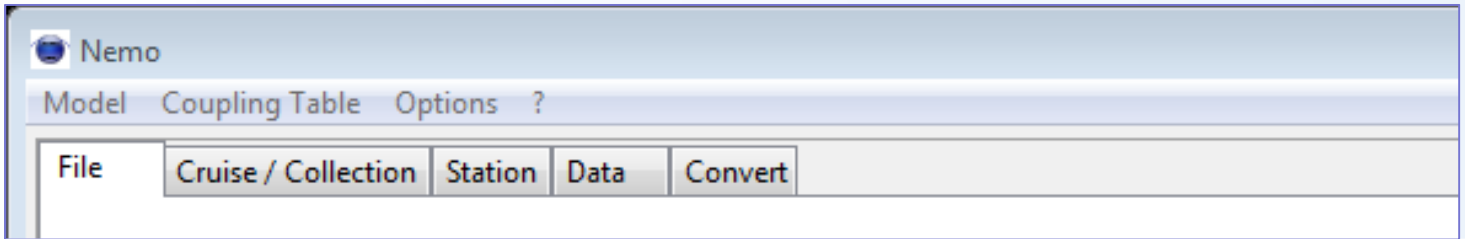
# Interaction with MIKADO



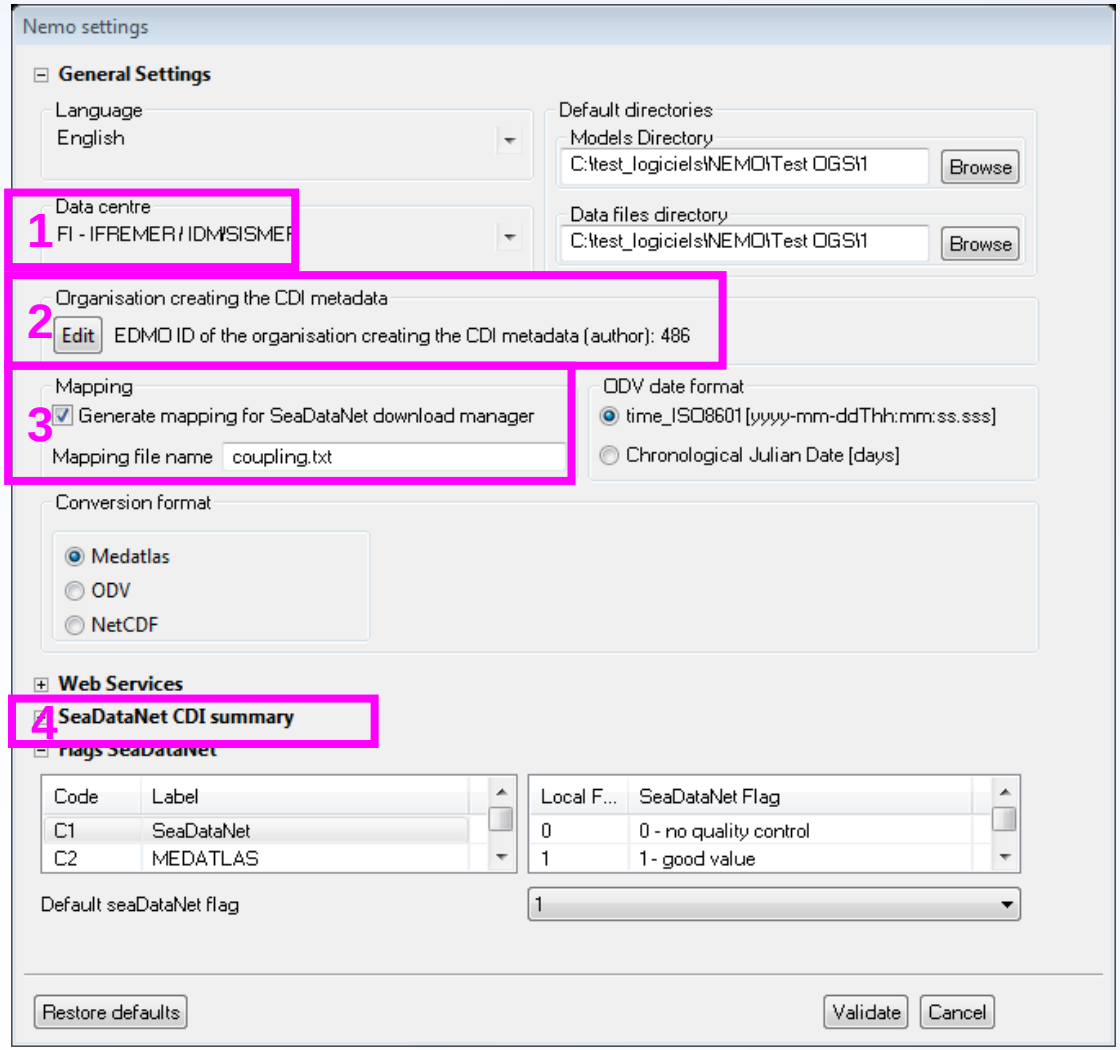
# Running NEMO

- 1 step to configure NEMO
- 5 steps to convert the entry files to a SeaDataNet format
  1. Describe the type of file(s)
  2. [Describe the cruise, if the files are related to 1 cruise]

     *NEMO is able to read XML CSR generated with MIKADO*
  1. Describe the station information
  2. Describe the measured parameters
  3. Convert the file
- One more step to
  - Save the description of the format (Model)



# NEMO settings



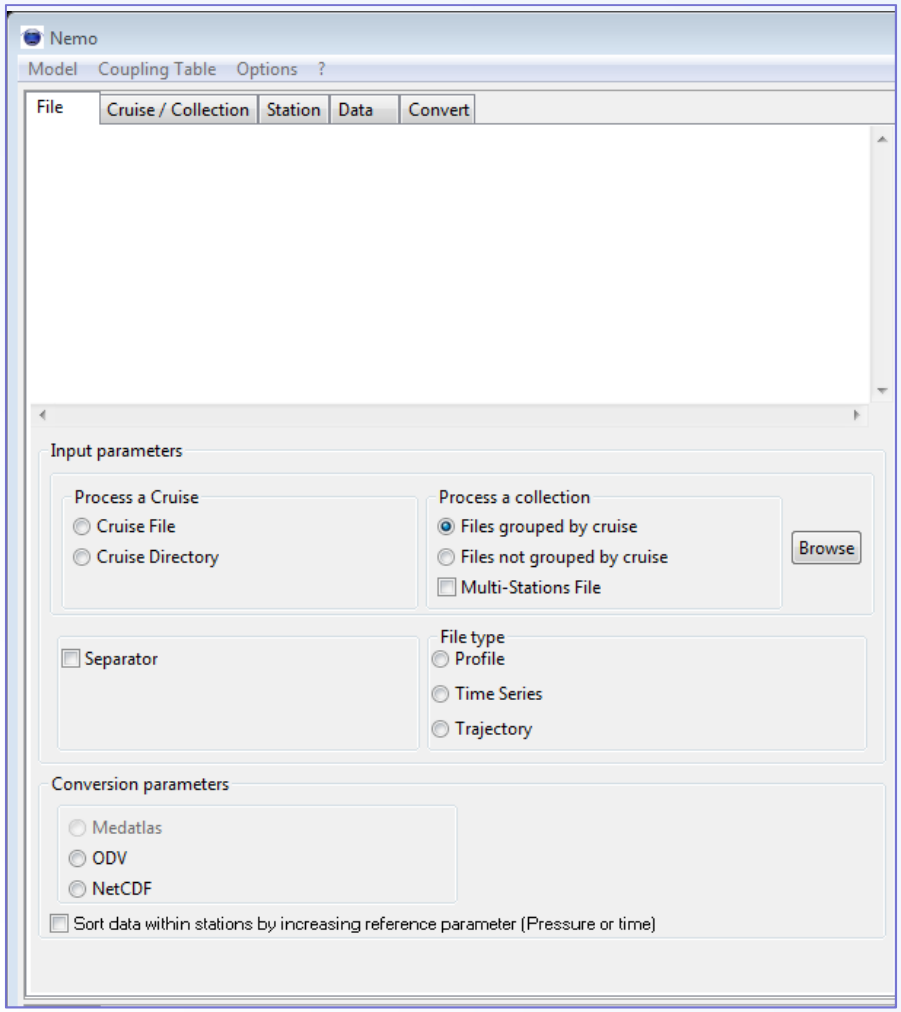

1 – Only for MedAtlas conversion

**2 – Mandatory :** EDMO_CODE of the CDI_Partner

3 – If user needs to generate a coupling file

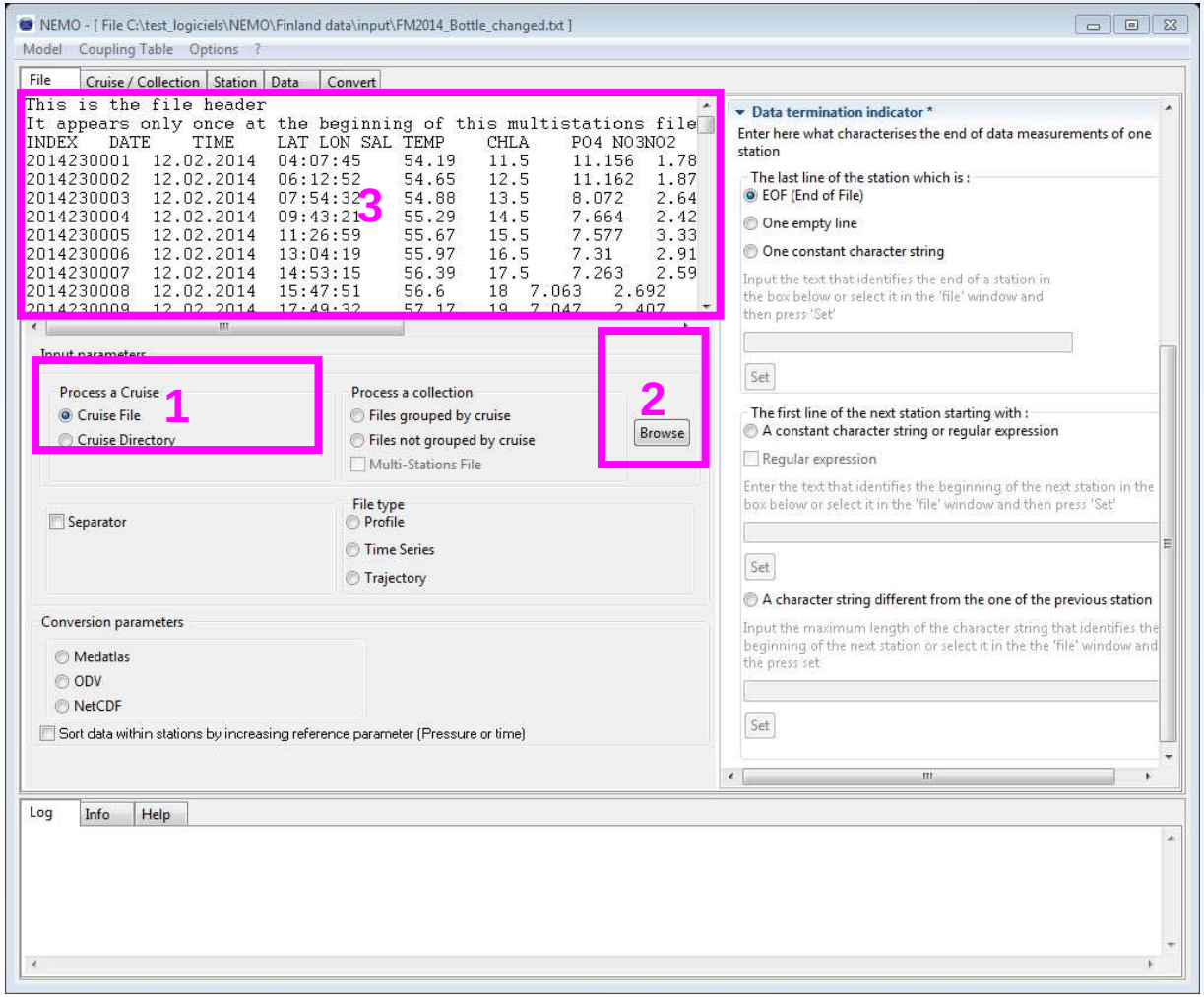
4 – If user wants to generate a csv file used by MIKADO

# NEMO - Description of input files




- Where are the files?
- Is it a cruise?
  - Is it one file per cruise or one file per station ?
- Is it a collection of station files ?
  - grouped by cruises or not?
- Are the files with separators?
  - Tabulations? Semicolon? Comma?
- Are they vertical profiles, time series or trajectories data?

# NEMO – Open the file



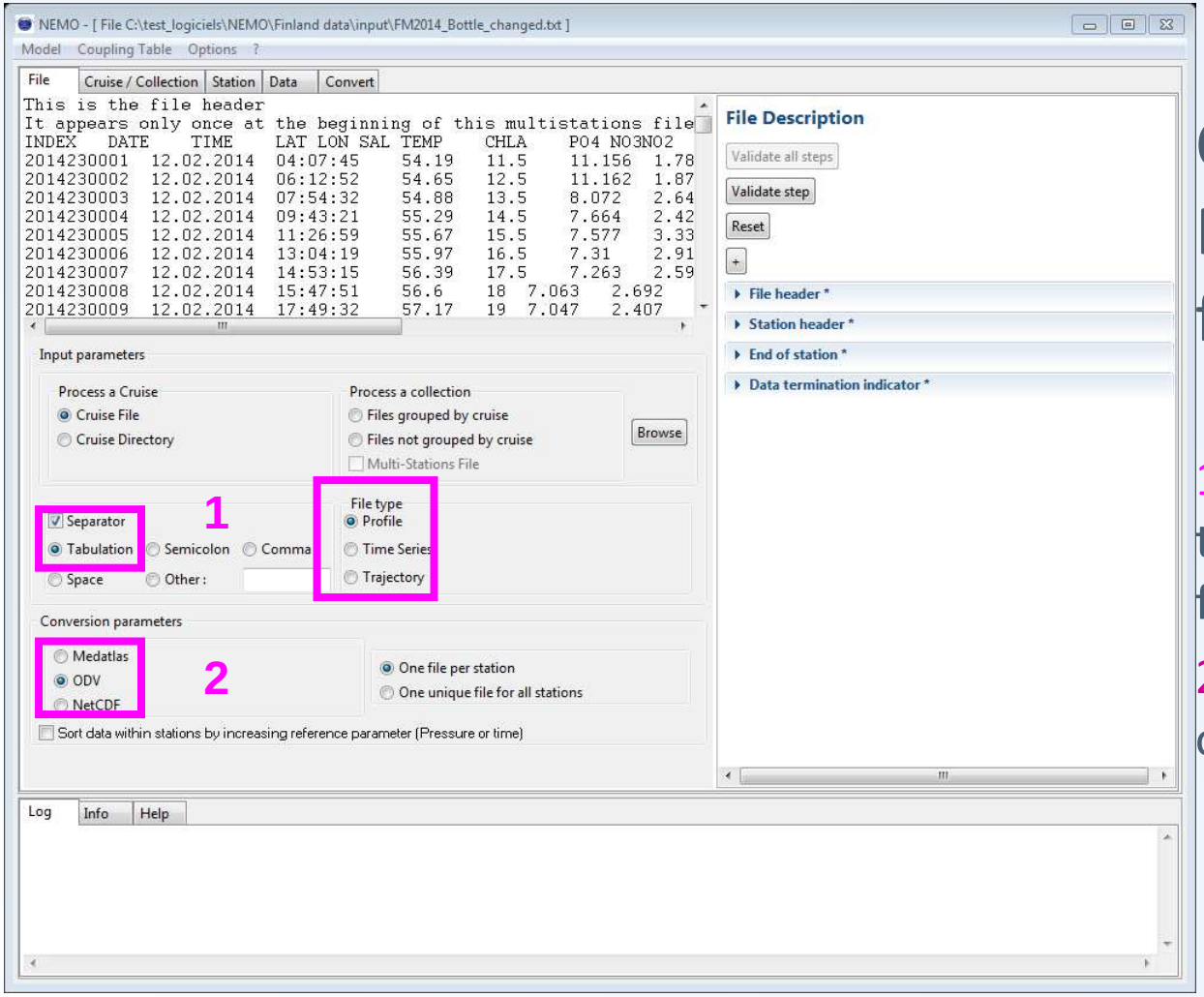

## Multistation file

1 – Select the type of file

2 – Browse the file

3 - File to convert is displayed in NEMO window

# NEMO - Describe the input file(s) - 1

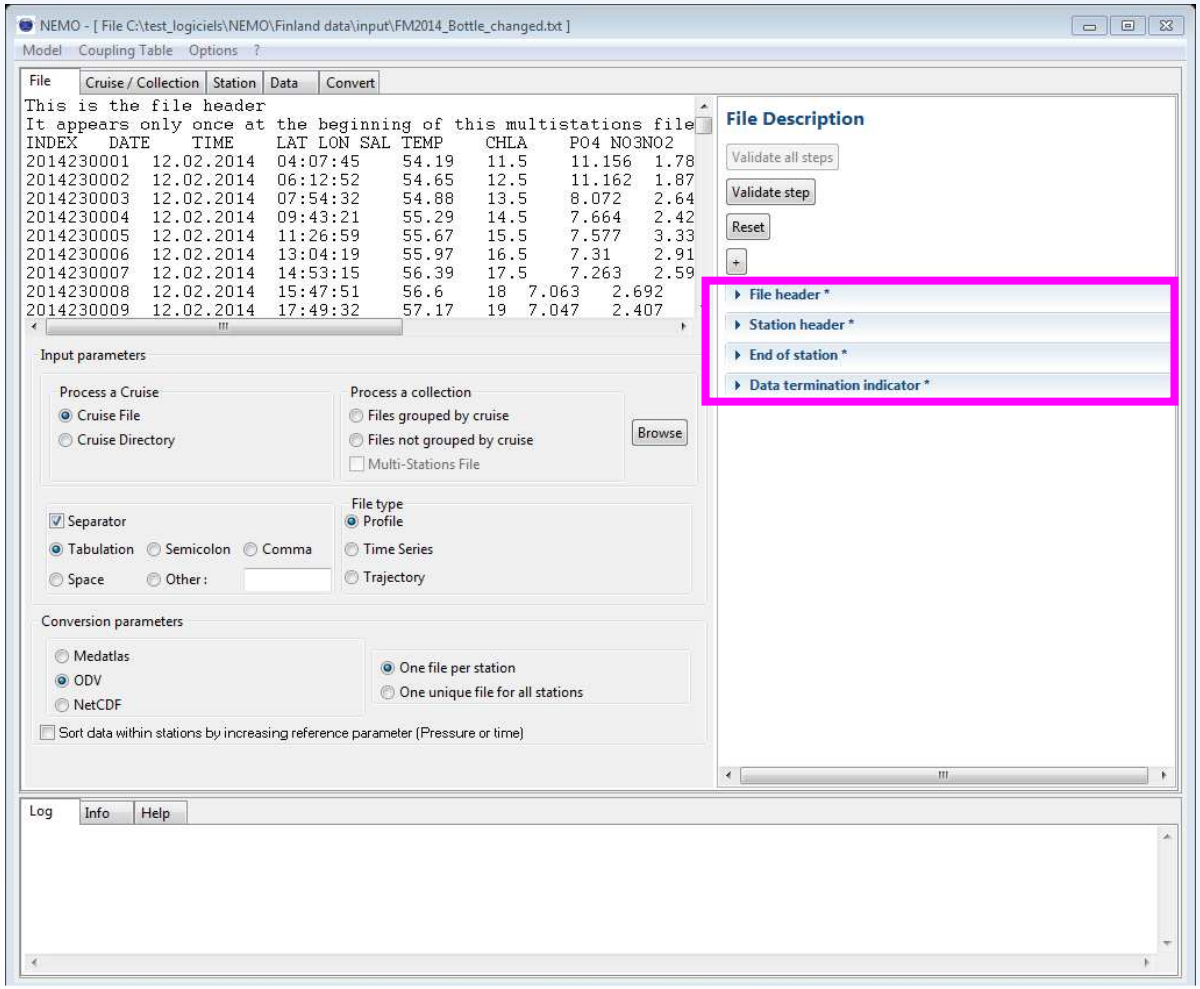



One Multistation file

1 - describe the type of the input file

2 - select the output format

# NEMO - Describe the input file(s) – 2
# Multi-station file

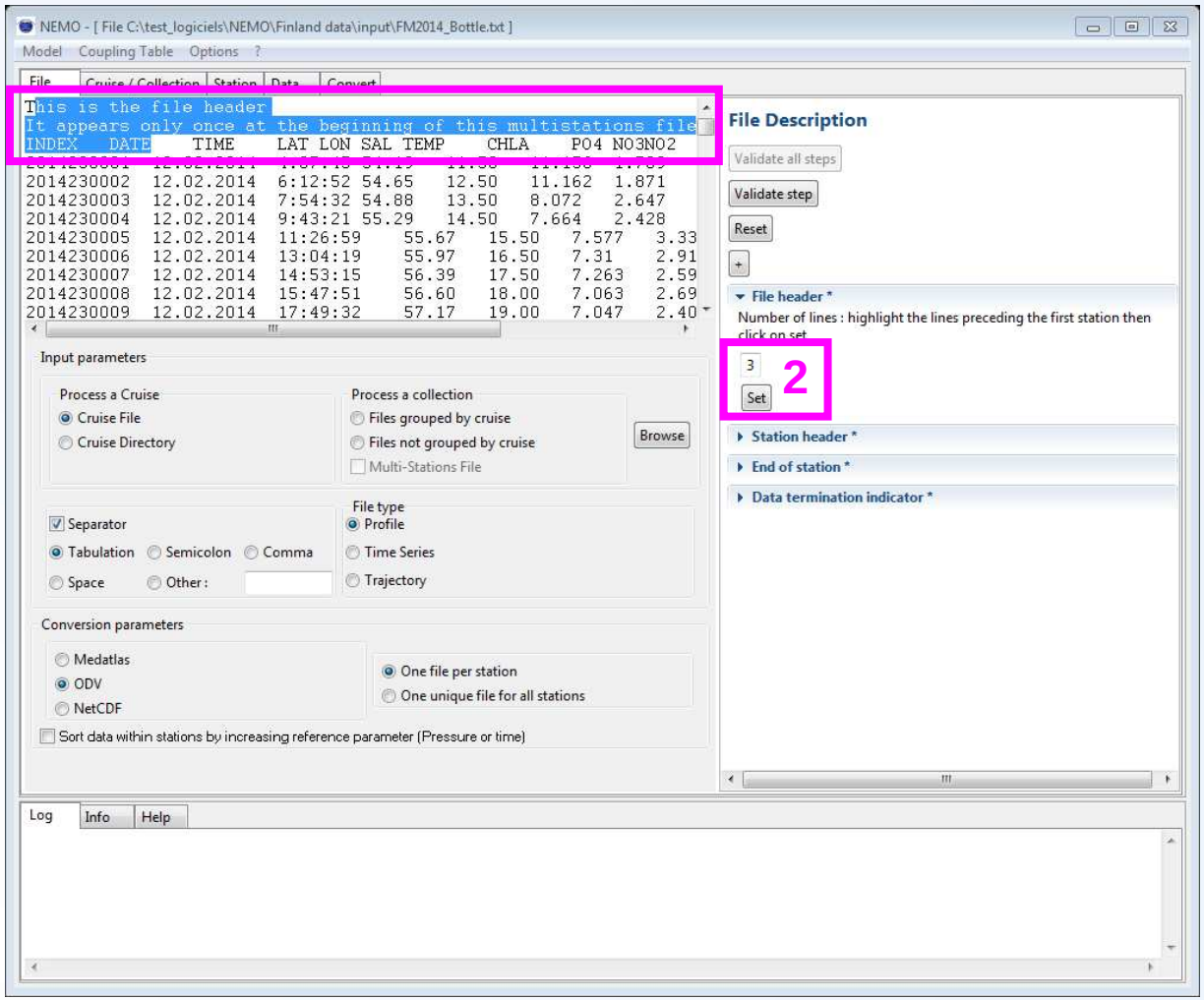



Describe how the file is organised:

File header

- Station header
- End of station
- Data termination

# NEMO - Describe the input file(s) -3




- File header

For multi-station files

Lines which appear once at the beginning of the file

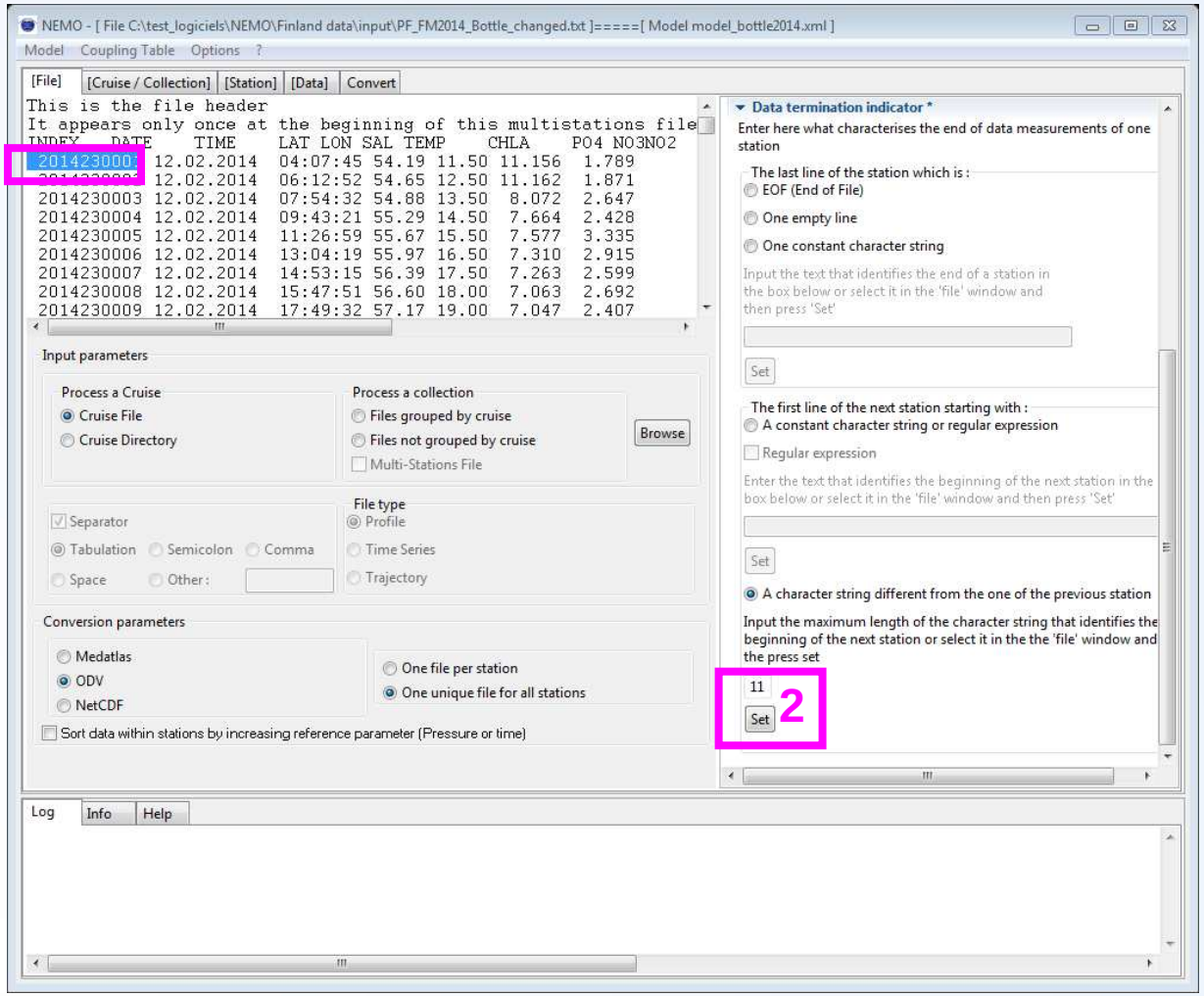
1. Select
2. Set

- Station header

If there are line(s) with no measurements

before each station data

# NEMO - Describe the input file(s) -4




- End of station:

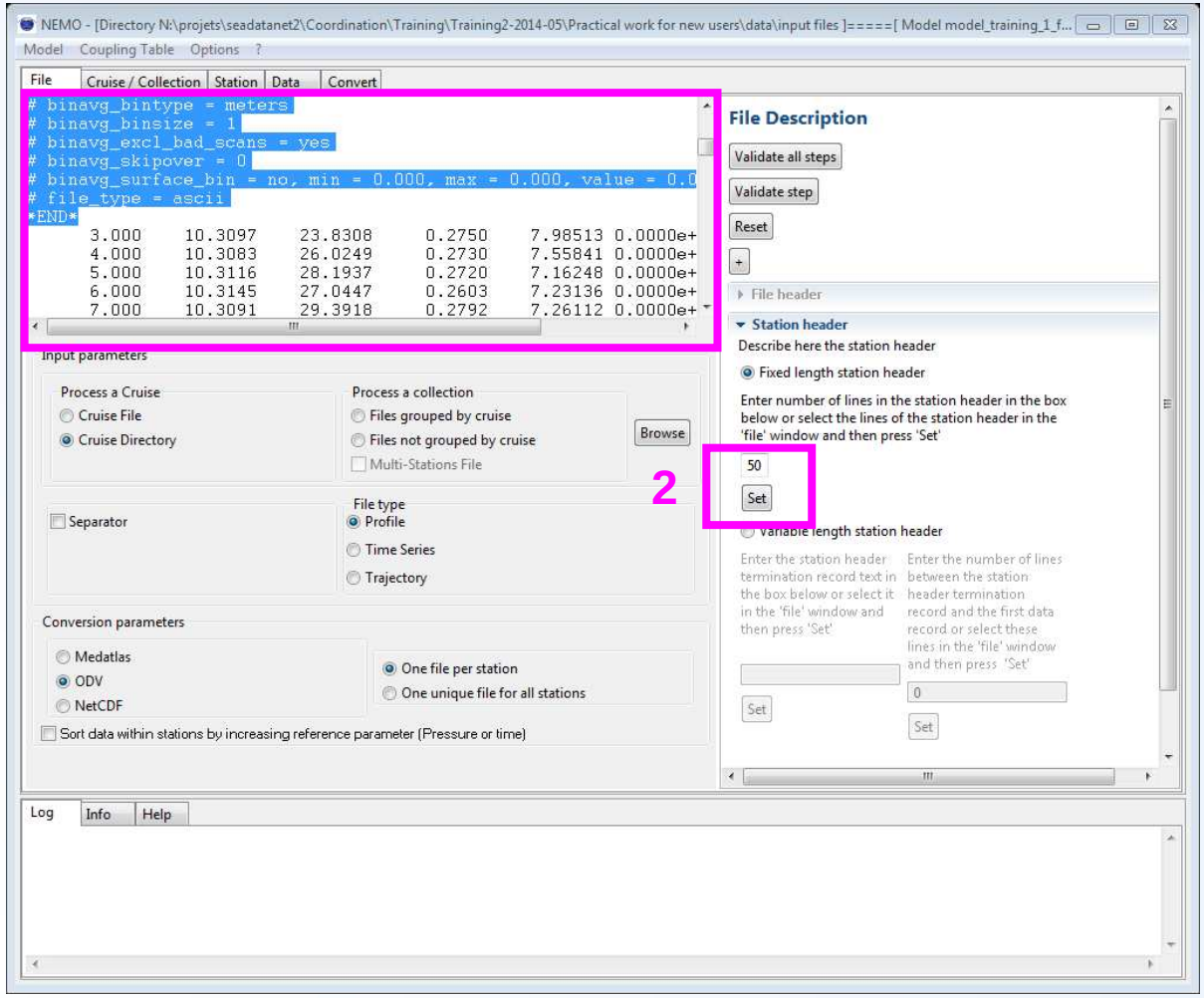
If there is a (or more) specific line after the data in each station

- Data termination:

If no specific line, then how does NEMO knows that we change station

1. Select the indicator
2. Set

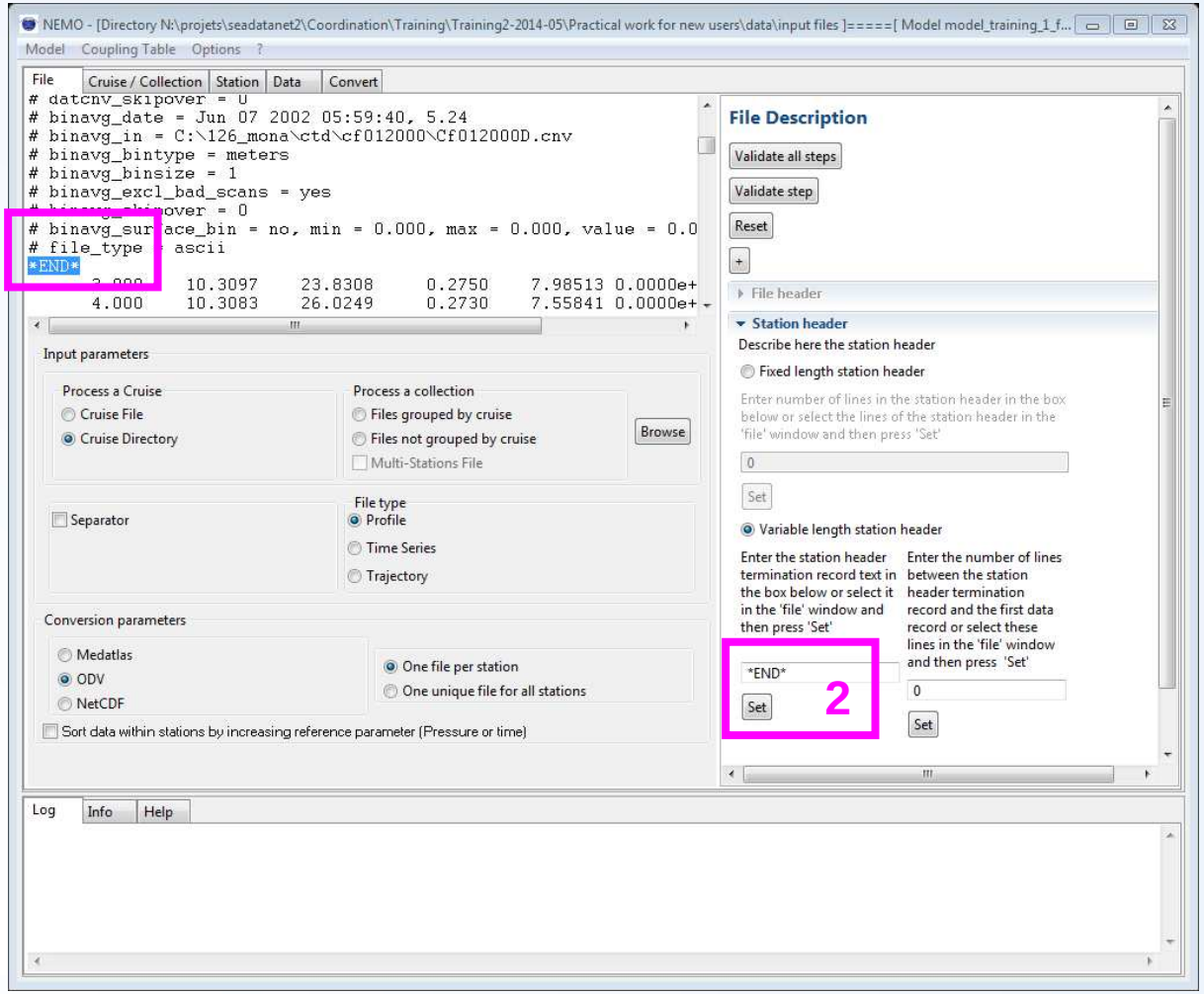
# NEMO - Describe the input file(s) - 5




N monostation files with a constant number of lines for the station header

1. Select the lines if the station header
2. Set

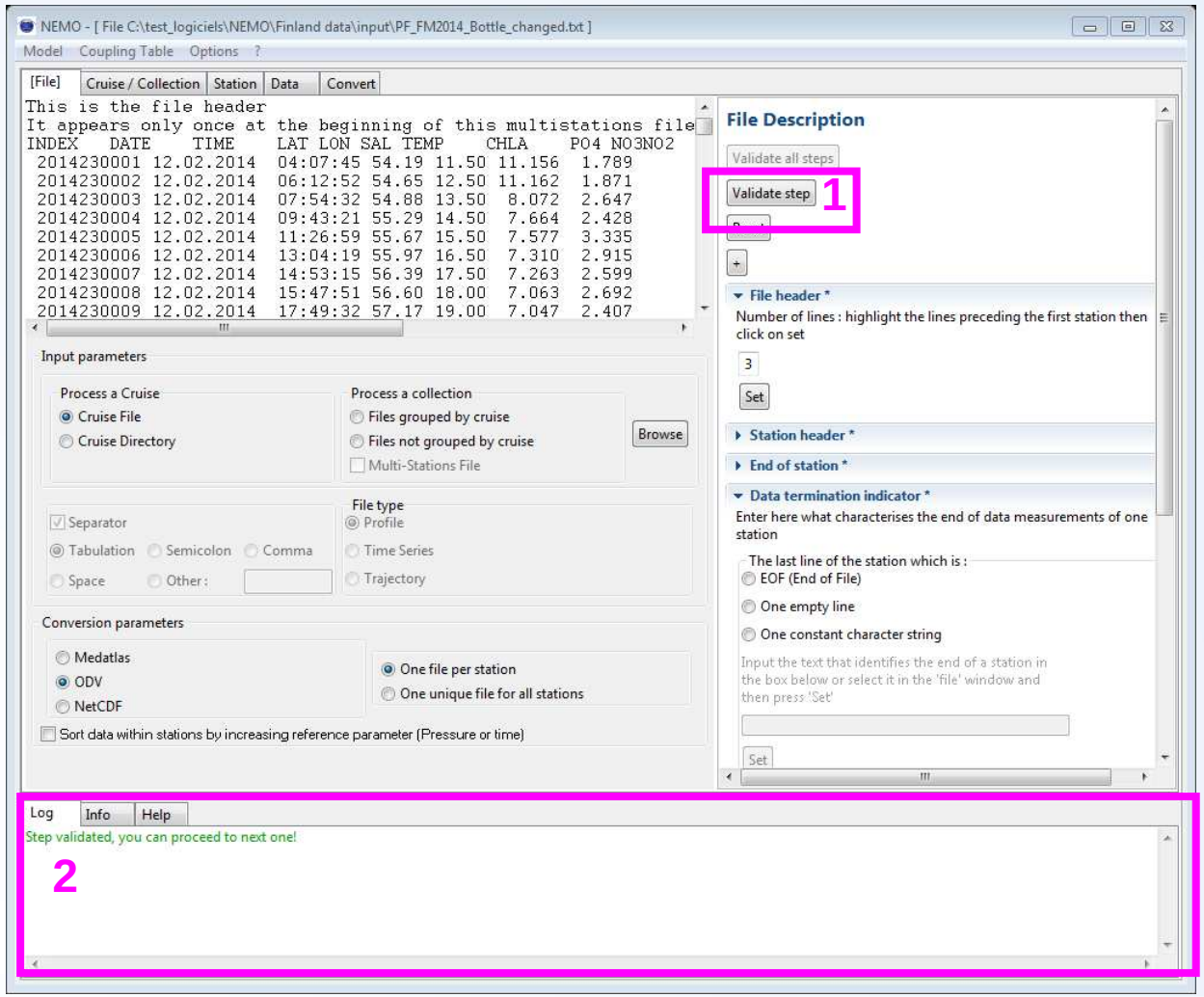
# NEMO - Describe the input file(s) - 6




N monostation files with a non constant number of lines for the station header

1. Select the text which identifies the end of the station header
2. Set

# NEMO - Describe the input file(s) - 7

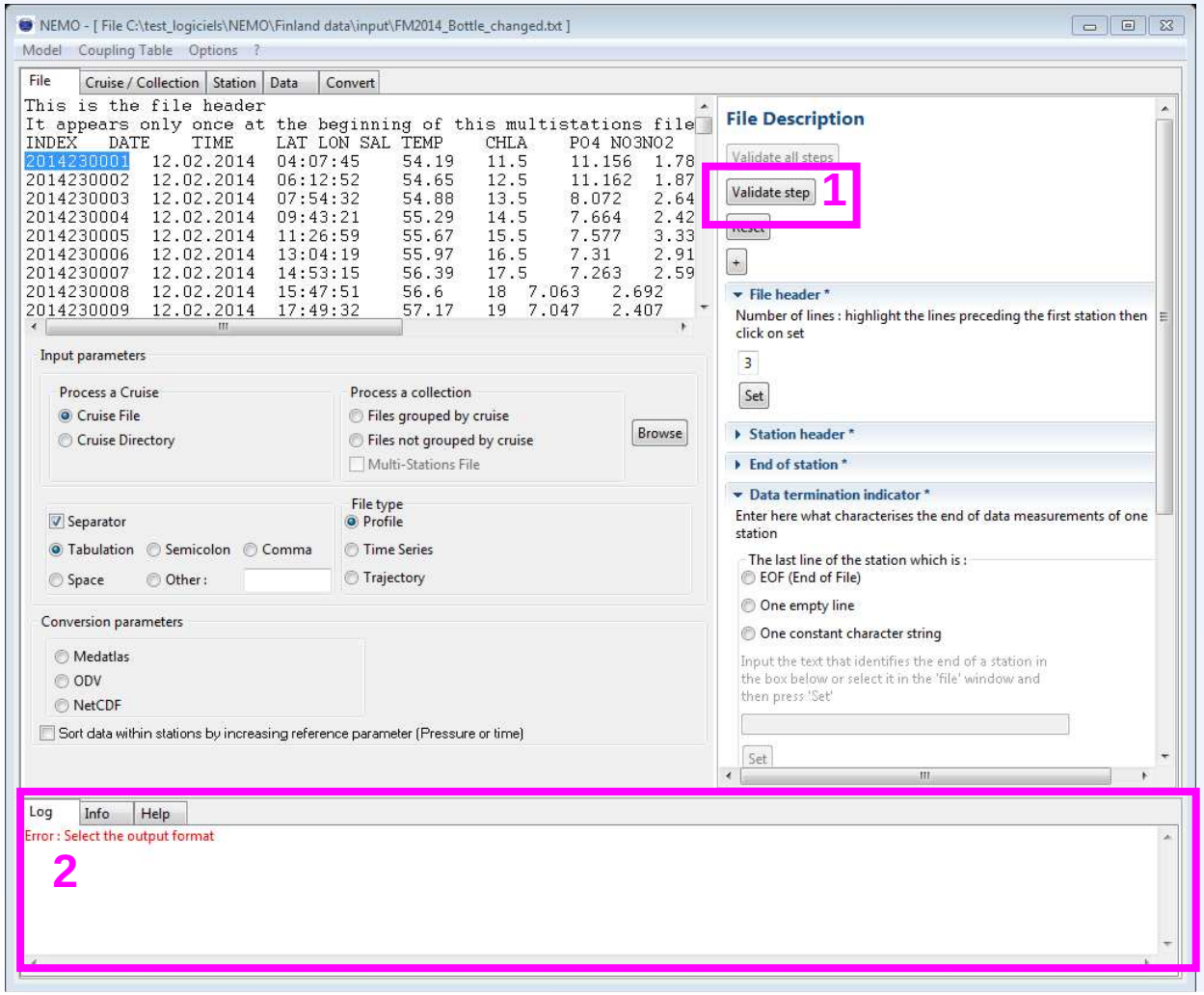



## When finished

1. Validate the step
2. Look at the log

Green:OK, move to the next step

# NEMO - Describe the input file(s) - 8




## When finished

1. Validate the step
2. Look at the log

Green:OK, move to the next step

Red: KO, correction needed

# Cruise/collection description

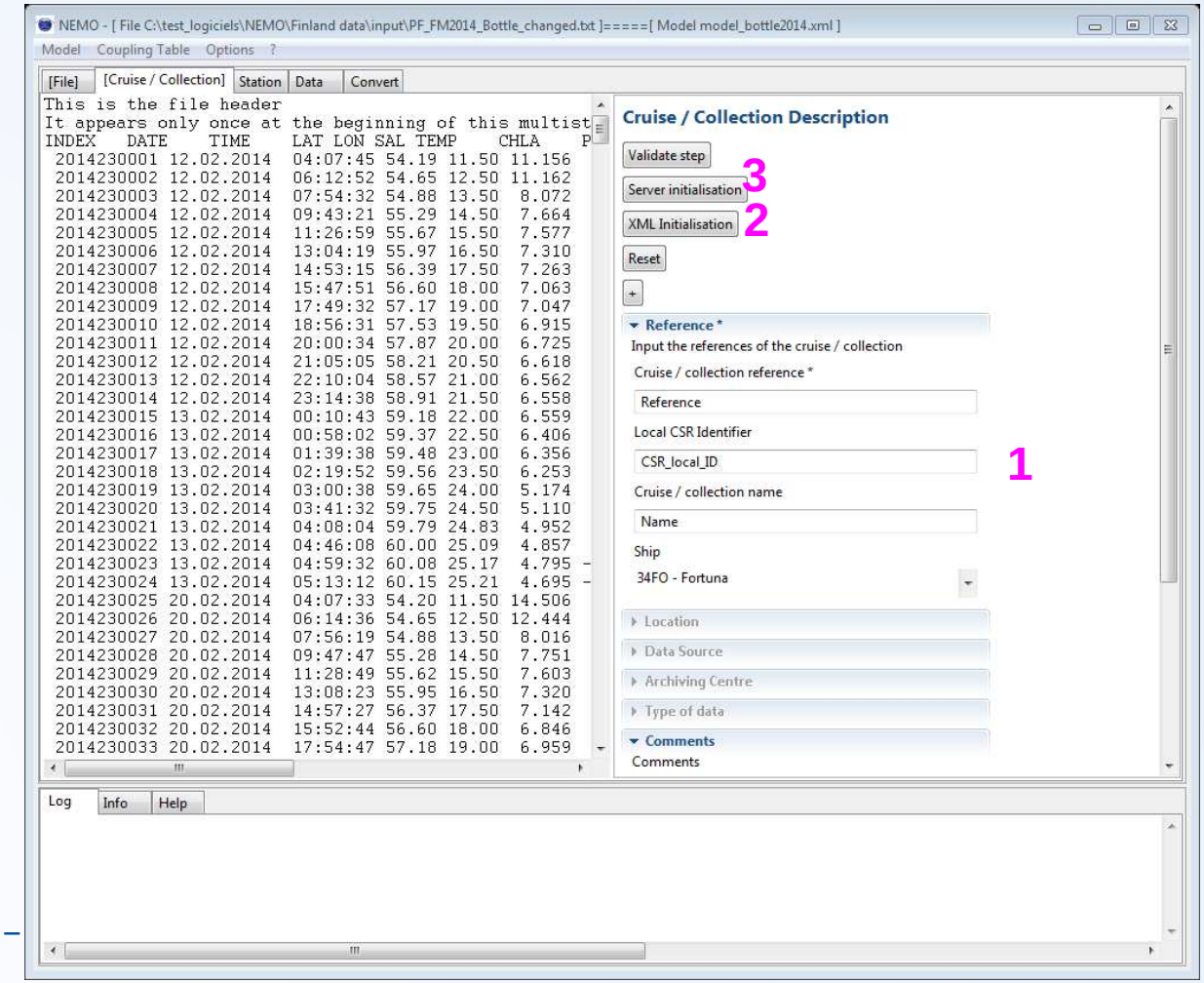
Can be:

**1** -Manually input

**2** - Imported from a SeaDataNet XML CSR

**3** - Imported from a database (IFREMER only)

Mandatory fields depend on the output format

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# Cruise/collection description

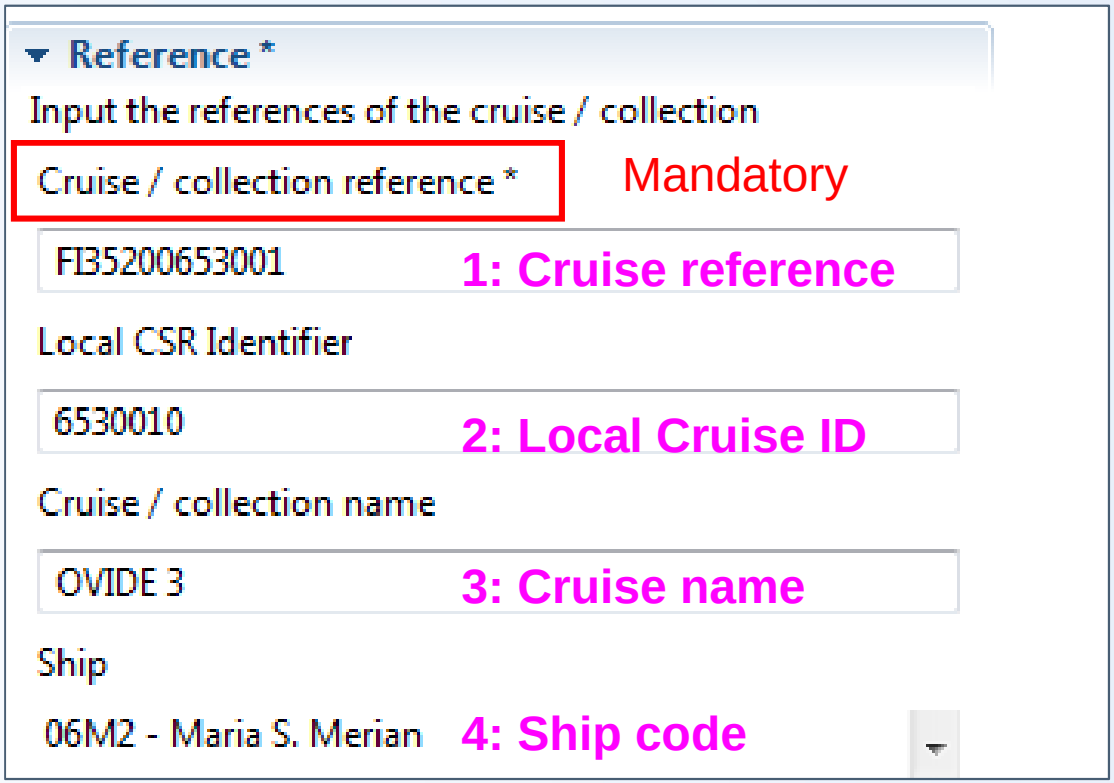
Can be:

**1** -Manually input

**2** - Imported from a SeaDataNet XML CSR

**3** - Imported from a database (IFREMER only)

Mandatory fields depend on the output format



# Cruise/collection description in output ODV

4 : Ship code

2: Local Cruise ID

//<sdn_reference xlink:href="http://seadata.bsh.de/cgi-csr/XML/xmlDownload_V2.pl?edmo=486&identifier=6530010" xlink:role="isObservedBy" xlink:type="SDN:L23::CSR"/>
//<sdn_reference xlink:href="http://vocab.nerc.ac.uk/collection/C17/current/06M2" xlink:role="isObservedBy" xlink:type="SDN:L23::NVS2CON"/>
//<sdn_reference xlink:href="http://seadatanet.maris2.nl/v_cdi_v3/print_xml.asp?edmo=486&identifier=FI35200653001_00001_H10" xlink:role="isDescribedBy" xlink:type="SDN:L23::
//<sdn_reference xlink:href="http://seadatanet.maris2.nl/v_cdi_v3/print_xml.asp?edmo=486&identifier=FI35200653001_00002_H10" xlink:role="isDescribedBy" xlink:type="SDN:L23::
//SDN_parameter_mapping
//<subject>SDN:LOCAL:DEPHPR01</subject><object>SDN:P01::DEPHPR01</object><units>SDN:P06::ULAA</units>
//<subject>SDN:LOCAL:Pressure</subject><object>SDN:P01::PRESPR01</object><units>SDN:P06::UPDB</units><instrument>SDN:L22::TOOL0409</instrument>
//<subject>SDN:LOCAL:Temperature</subject><object>SDN:P01::TEMPPR01</object><units>SDN:P06::UPAA</units><instrument>SDN:L22::TOOL0409</instrument>
//<subject>SDN:LOCAL:Salinity</subject><object>SDN:P01::PSLTZZ01</object><units>SDN:P06::UUUU</units><instrument>SDN:L22::TOOL0409</instrument>
//<subject>SDN:LOCAL:Oxygen</subject><object>SDN:P01::DOXMZZXX</object><units>SDN:P06::KGUM</units><instrument>SDN:L22::TOOL0036</instrument>
//

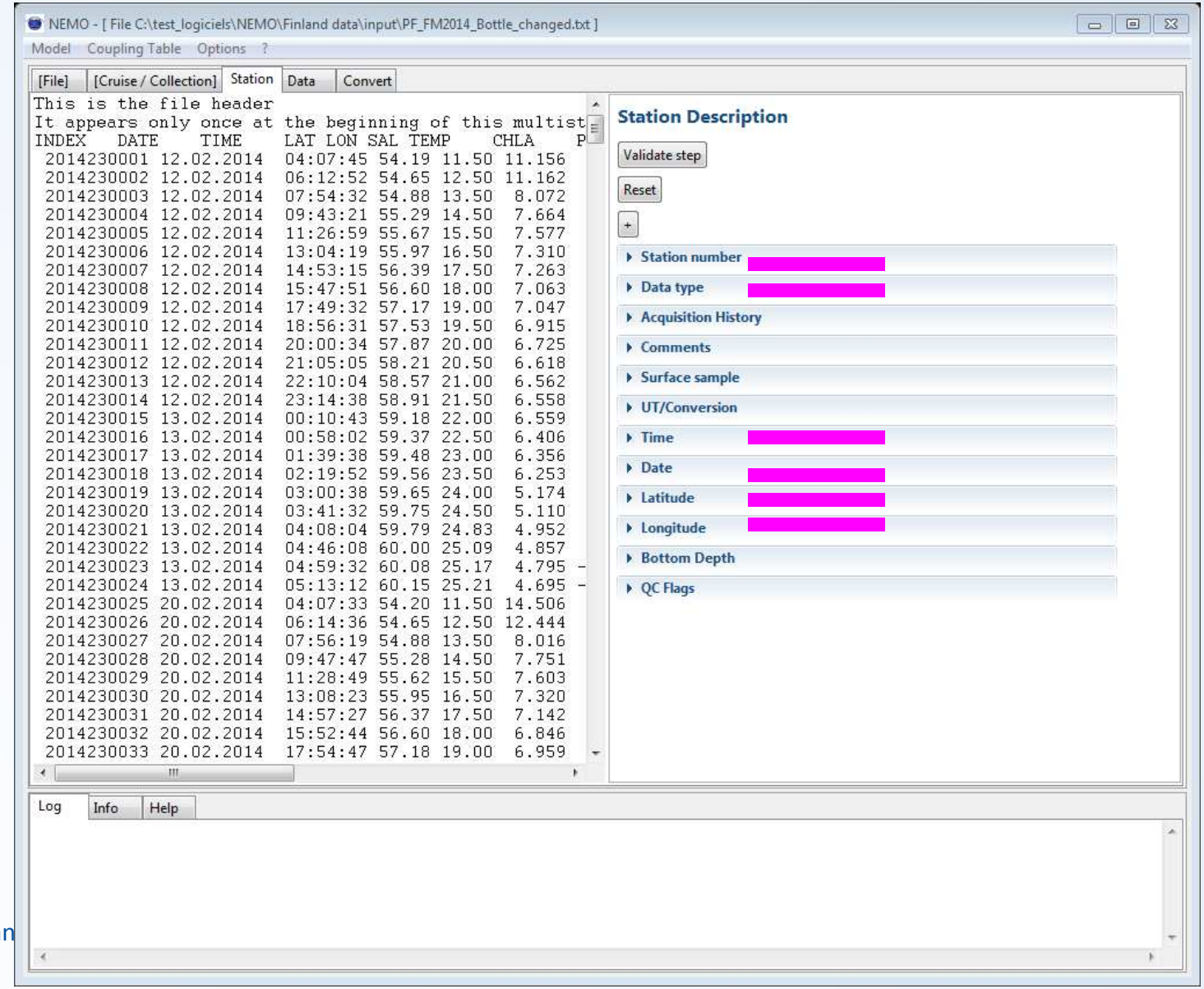
| Cruise | Station | Type | yyyy-mm-dd | Longitude [d | Latitude [de | LOCAL_CDI_ID | EDMO_code | Bot. Depth [ | DEPHPR01 [n | QV:S | Pressure [[ | QV:S | Temperature | QV:S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OVIDE 3 | 1 | C | 2006-05-24T1 | -10.7 | 38.433333 | FI35200653001_00001_H10 | 486 | 4915 | 1 | 1 | 1 | 1 | 16.512 | 1 |
| | | | | | | | | | 2 | 1 | 2 | 1 | 16.512 | 1 |
| | | | | | | | | | 3 | 1 | 3 | 1 | 16.512 | 1 |
| | | | | | | | | | 4 | 1 | 4 | 1 | 16.512 | 1 |
| | | | | | | | | | 5 | 1 | 5 | 1 | 16.512 | 1 |
| | | | | | | | | | 6 | 1 | 6 | 1 | 16.512 | 1 |

3: Cruise name

1: Cruise reference

# Station description

## Mandatory information

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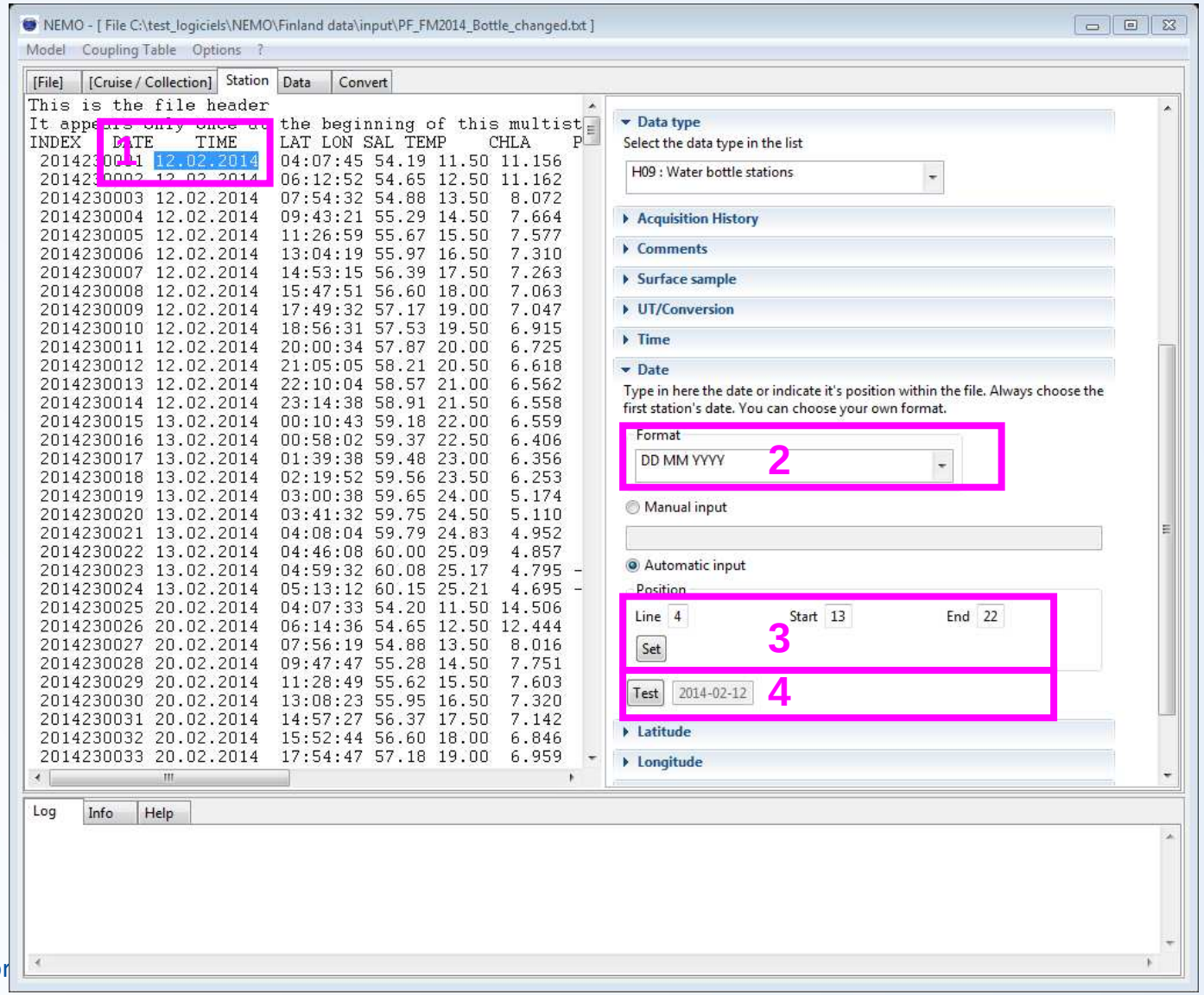
# Station description

1- Select the date in the file

2 - Input the date format

3 - Set

4 –Test and check

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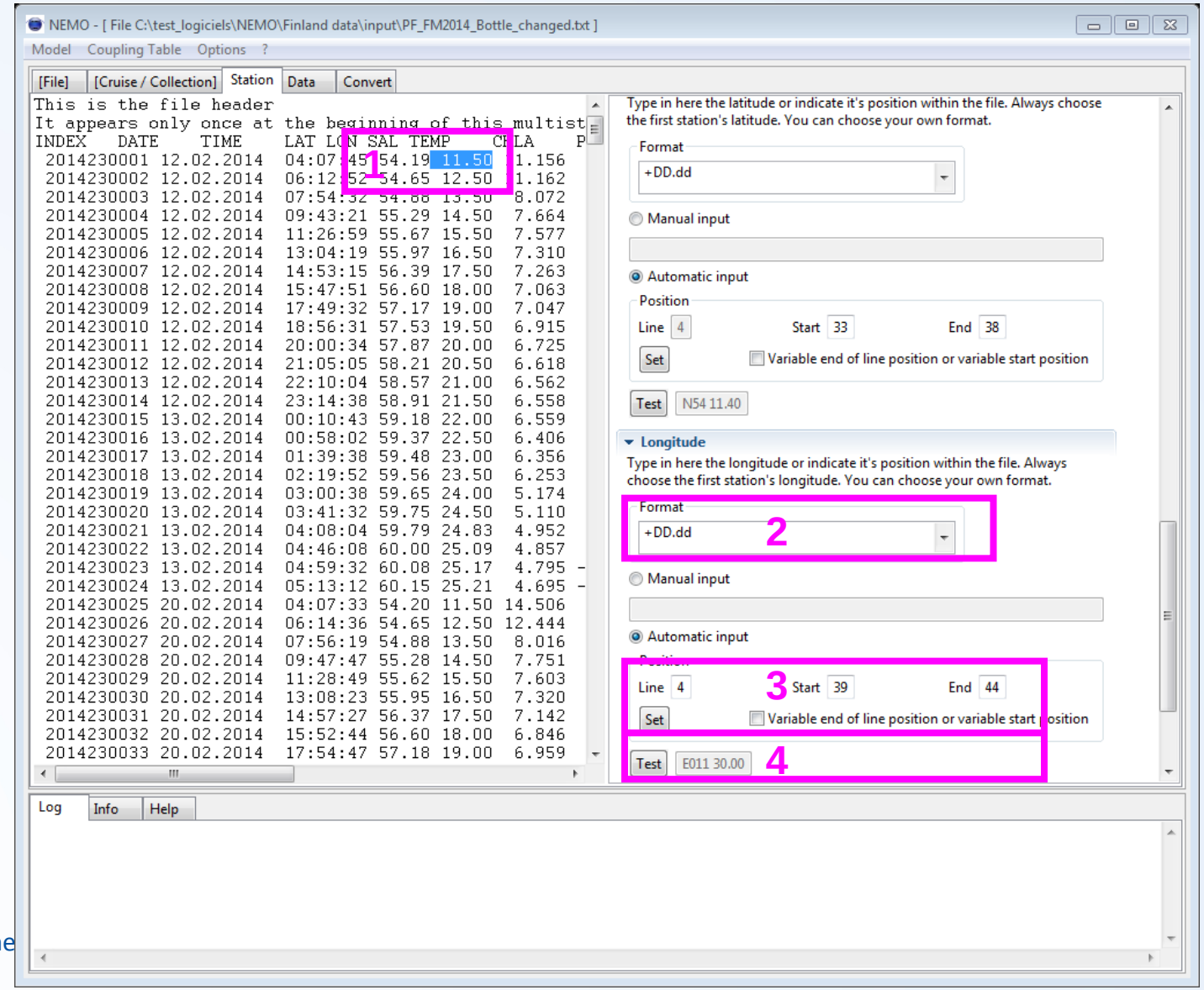
# Station description

1- Select the LON in the file

2 - Input the LON format

3 - Set

4 –Test and check

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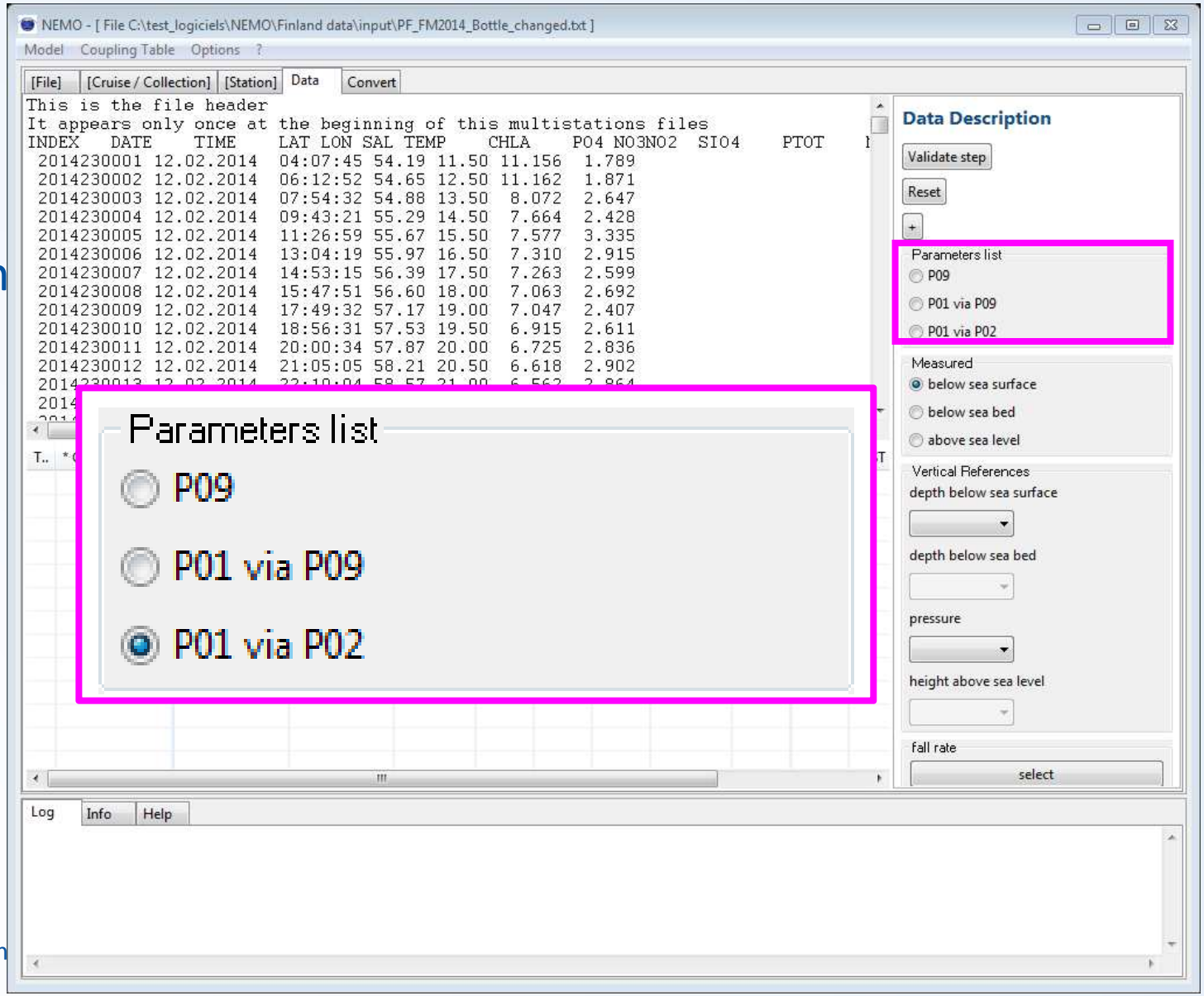
# Data description

Choose the parameter list

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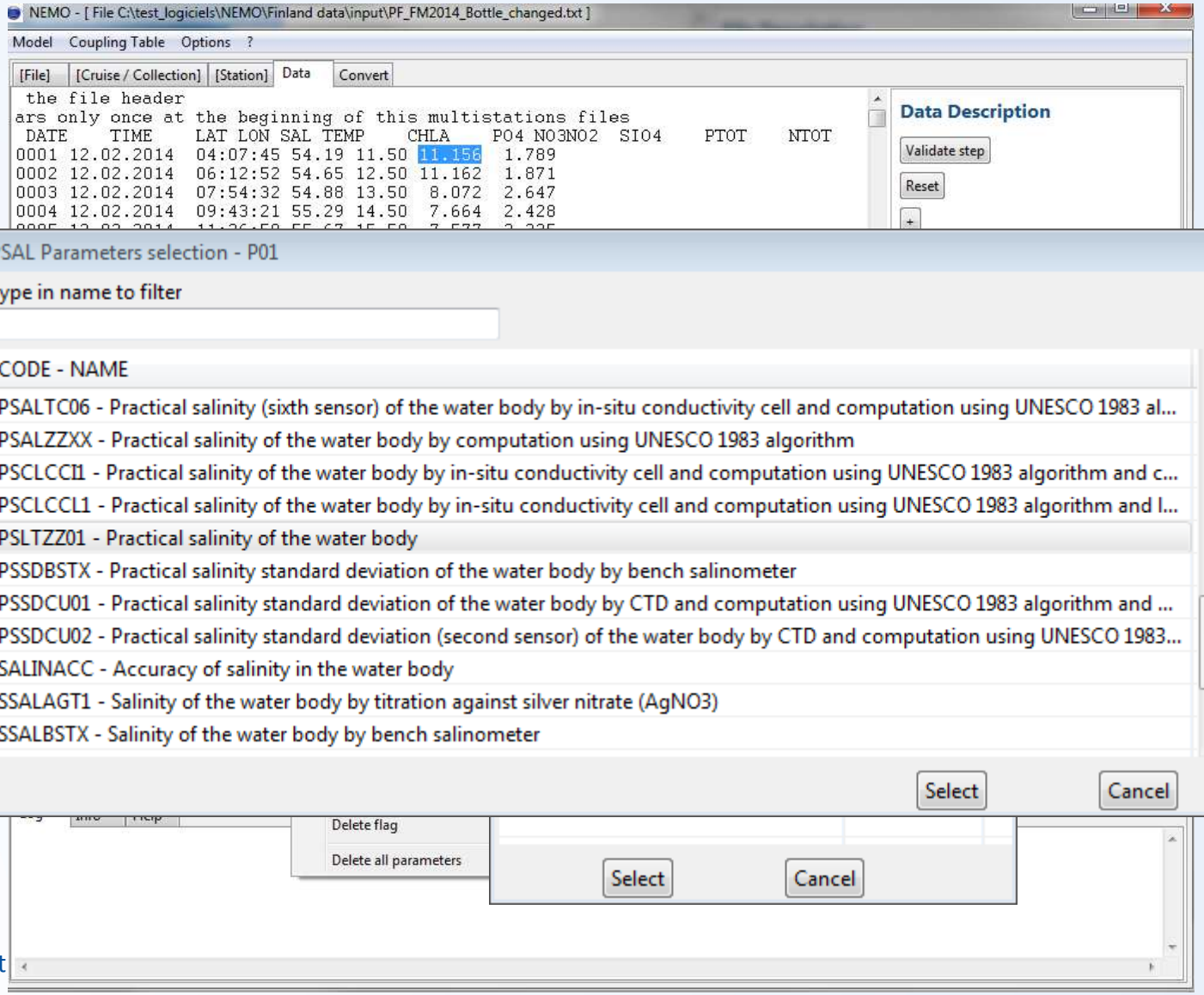
# Data description

**Choose the parameter list**

**Give the code**

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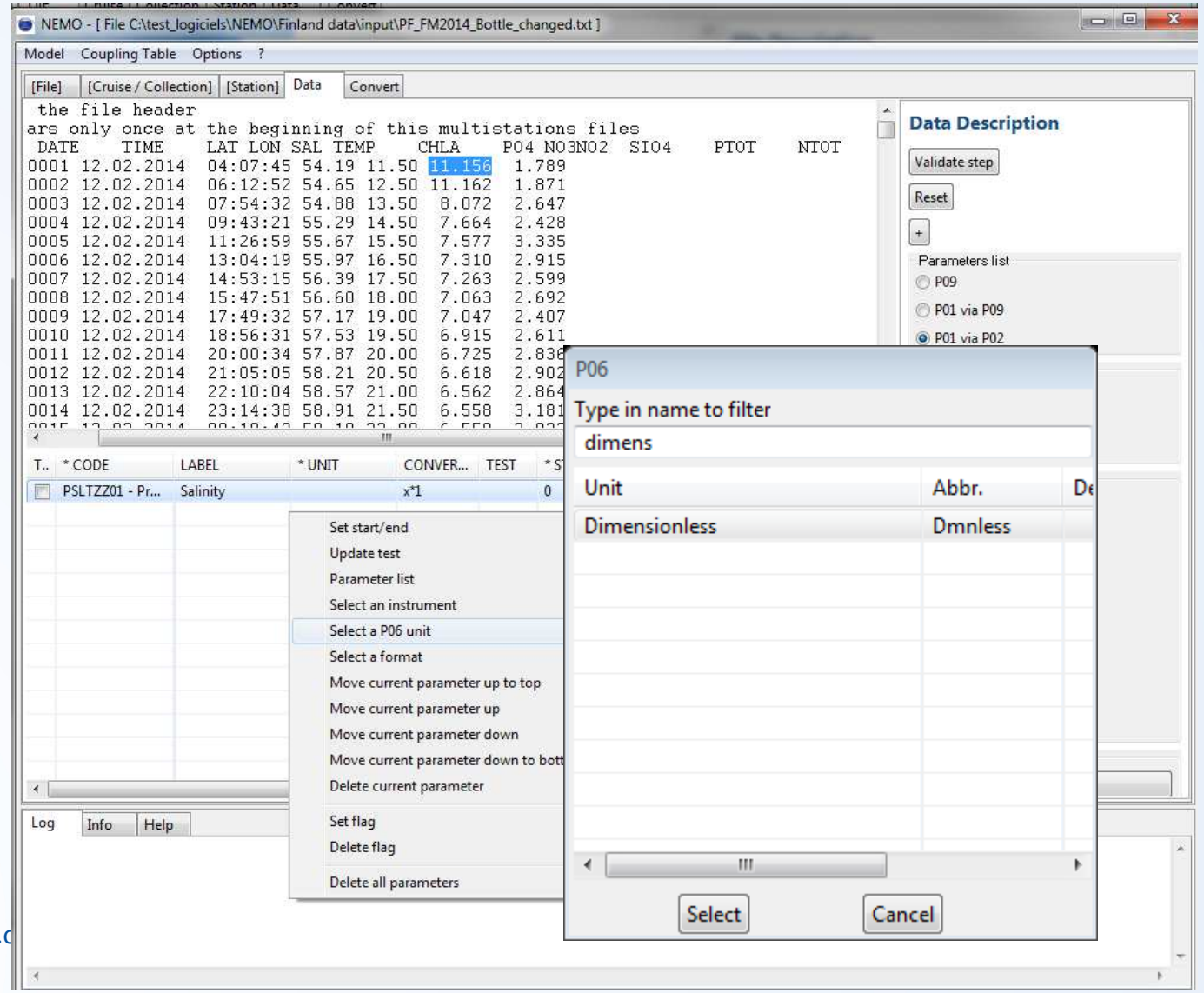
# Data description

**Choose the parameter list**

**Give the code,**
**the unit**

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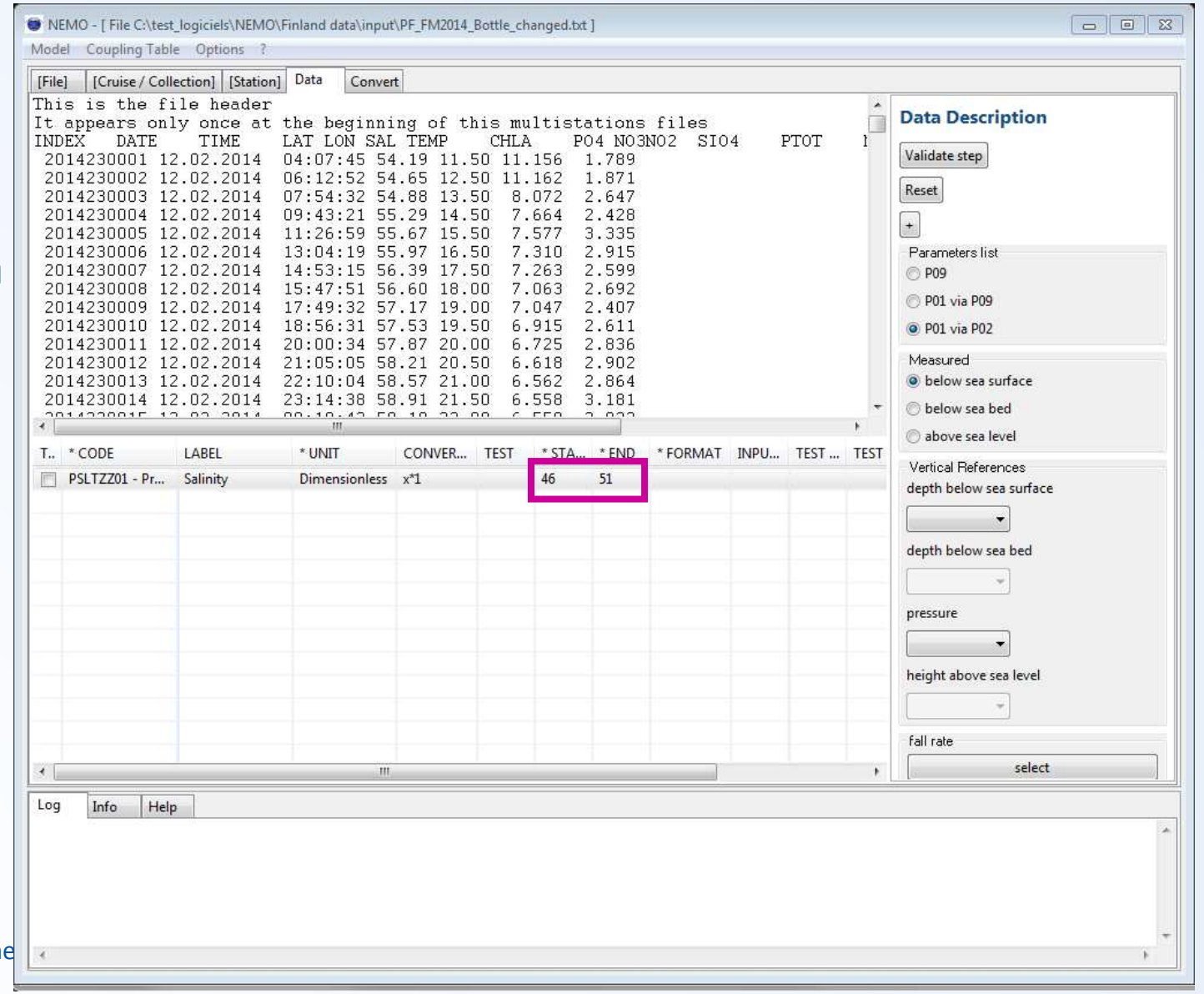
# Data description

**Choose the parameter list**

**Give the code, the unit, the position in the line**

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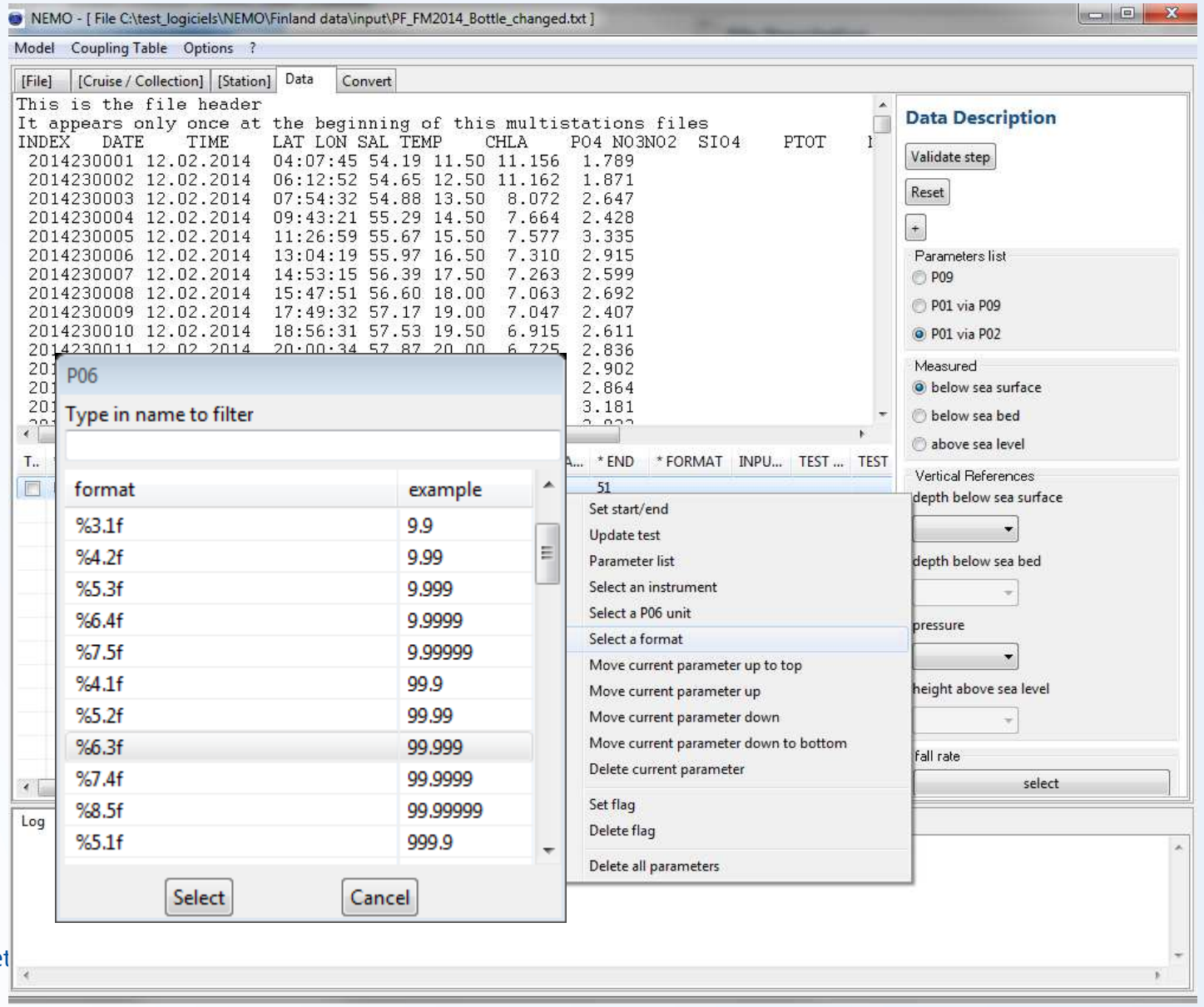
# Data description

**Choose the parameter list**

**Give the code, the unit, the position in the file, the format**

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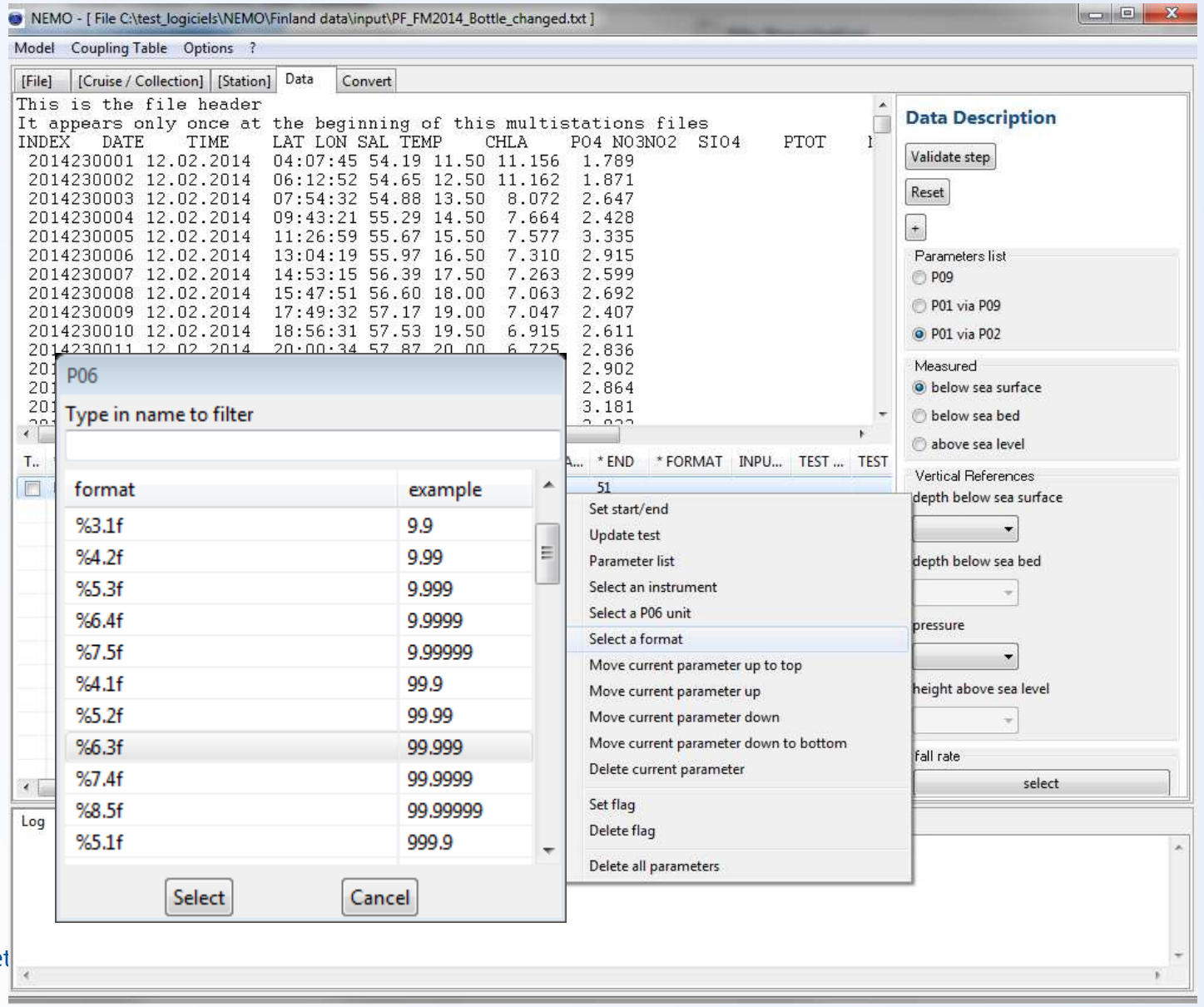
# Data description

**Choose the parameter list**

**Give the code, the unit, the position in the file, the format**

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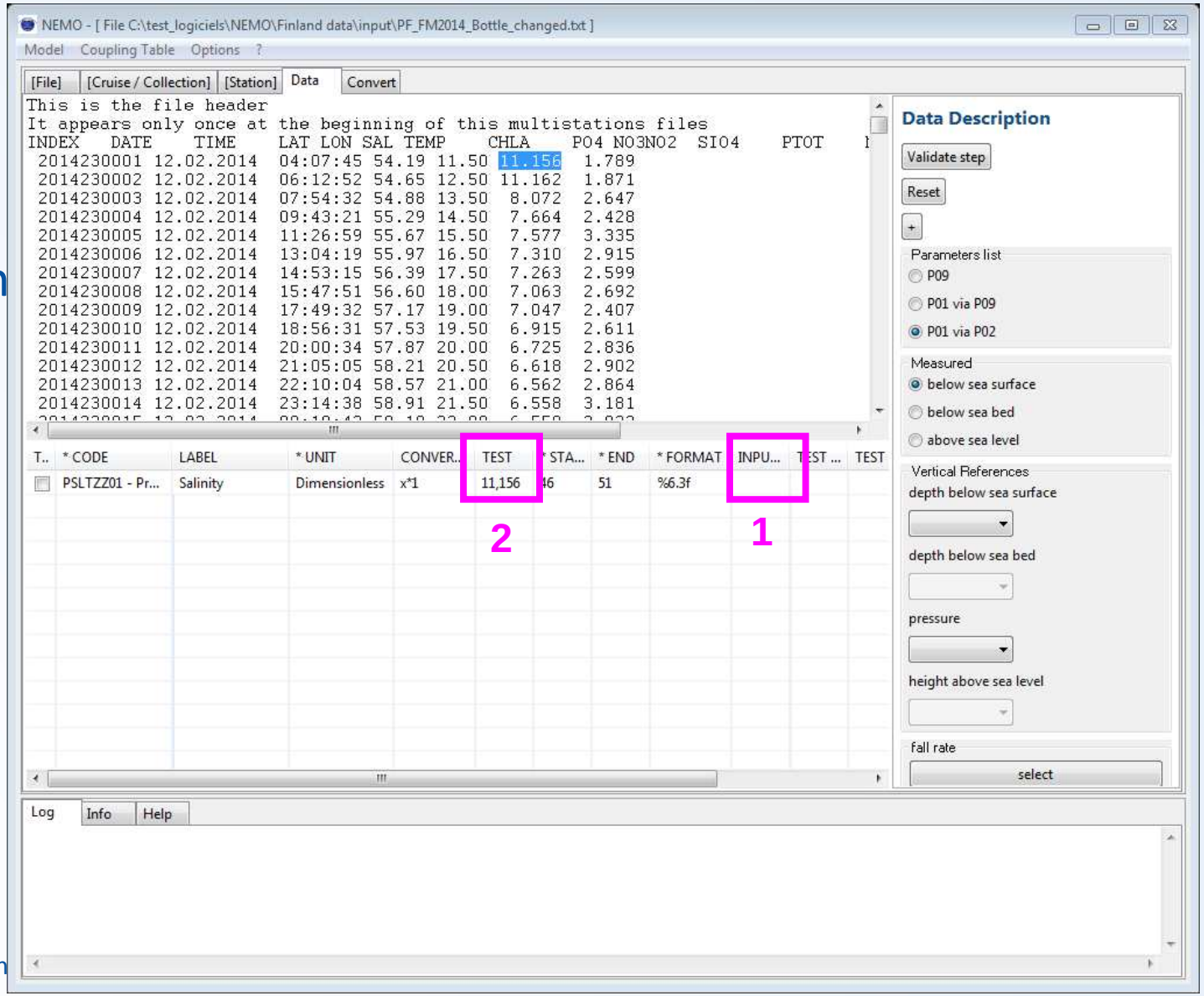
# Data description

**Choose the parameter list**

Give the code, the unit, the position in the file, the format, **the default value (1)**

**Then check (2)**

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SeaDataNet

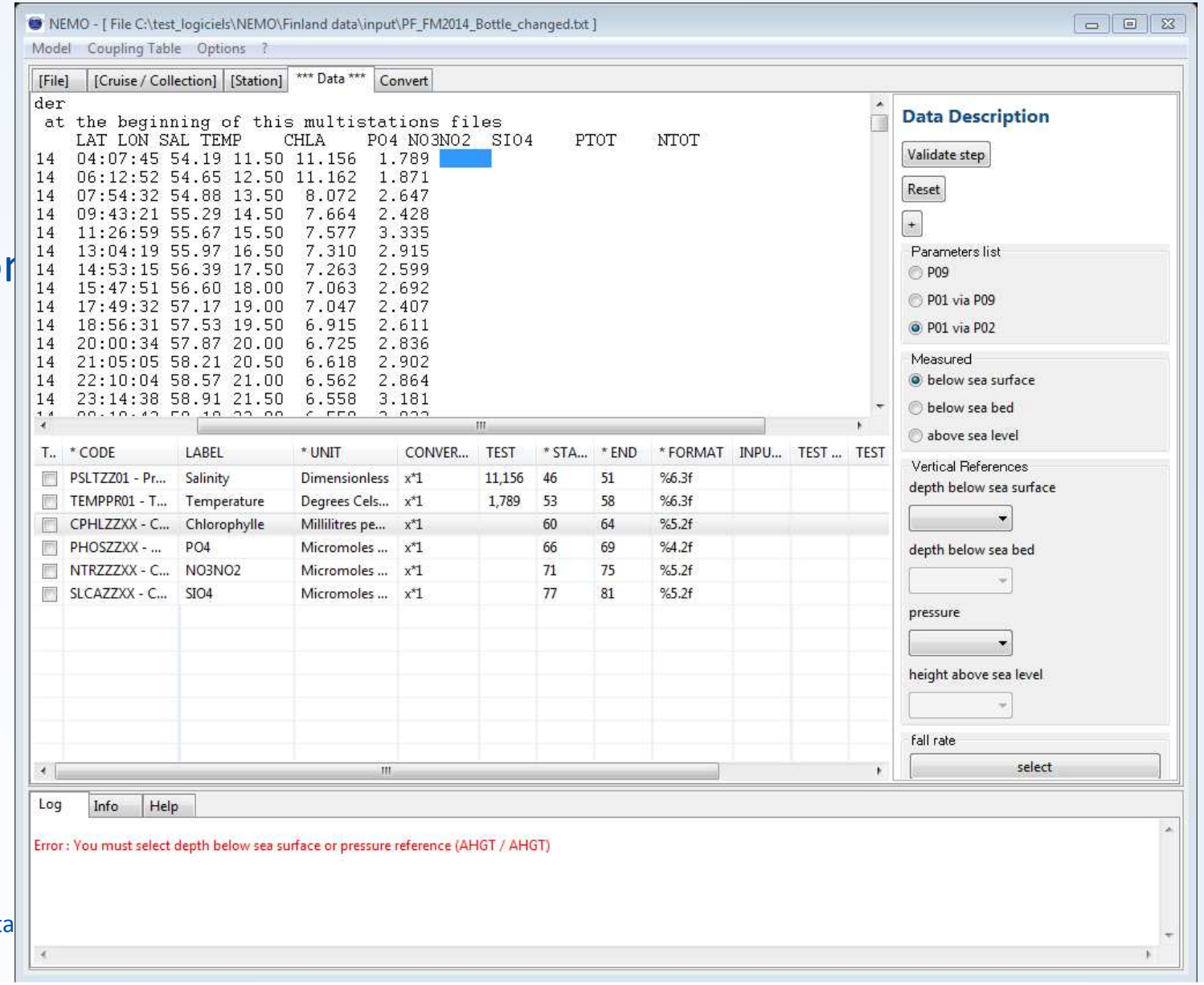
# Data description

## Add all the measured parameters

## Validate the step

**Error!!**

**Depth missing**

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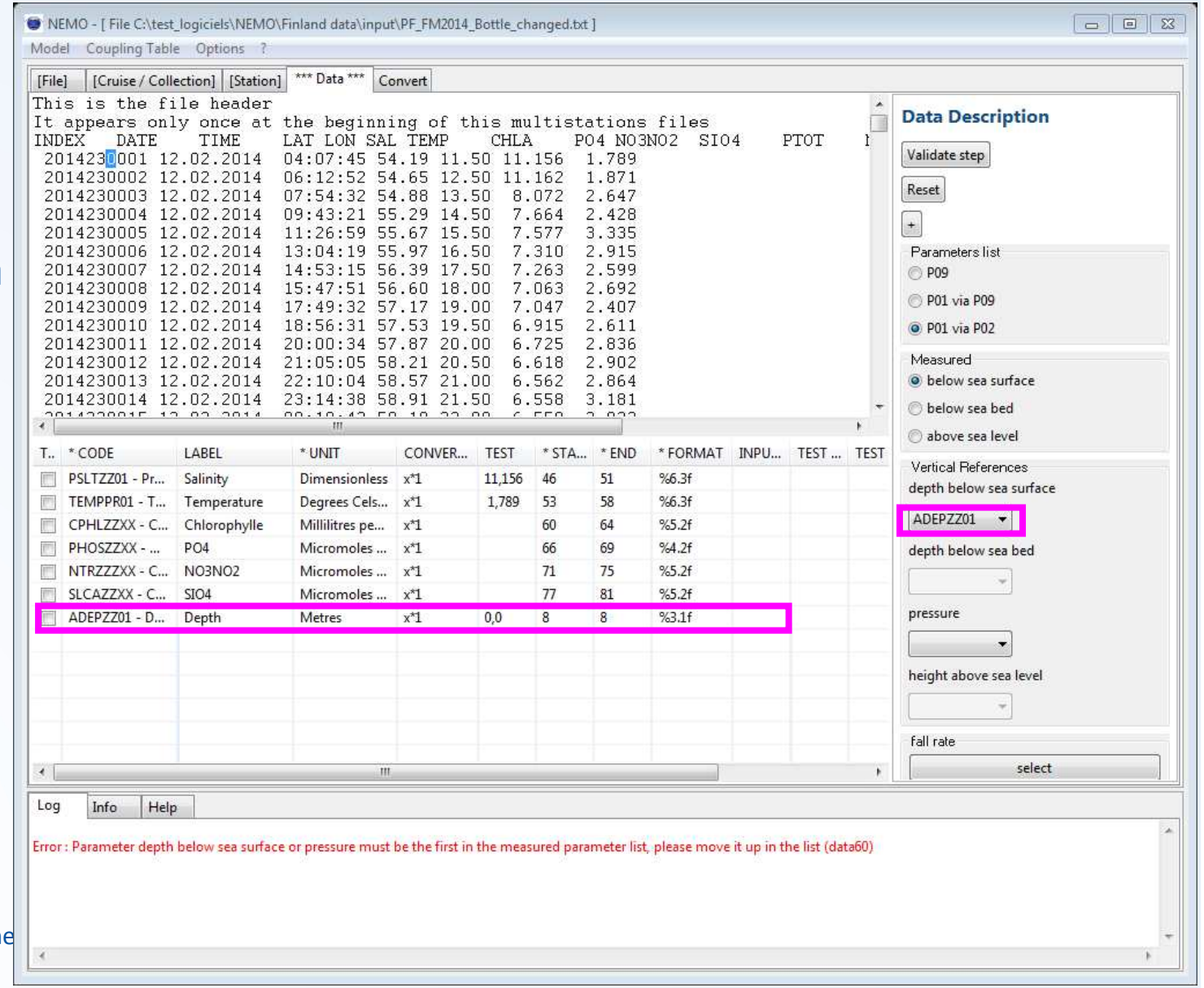
# Data description

**Add depth = 0 (surface)**

**Validate the step**

**Error!!**

**Depth must be in the 1st position**




sdn-userdesk@seadatane

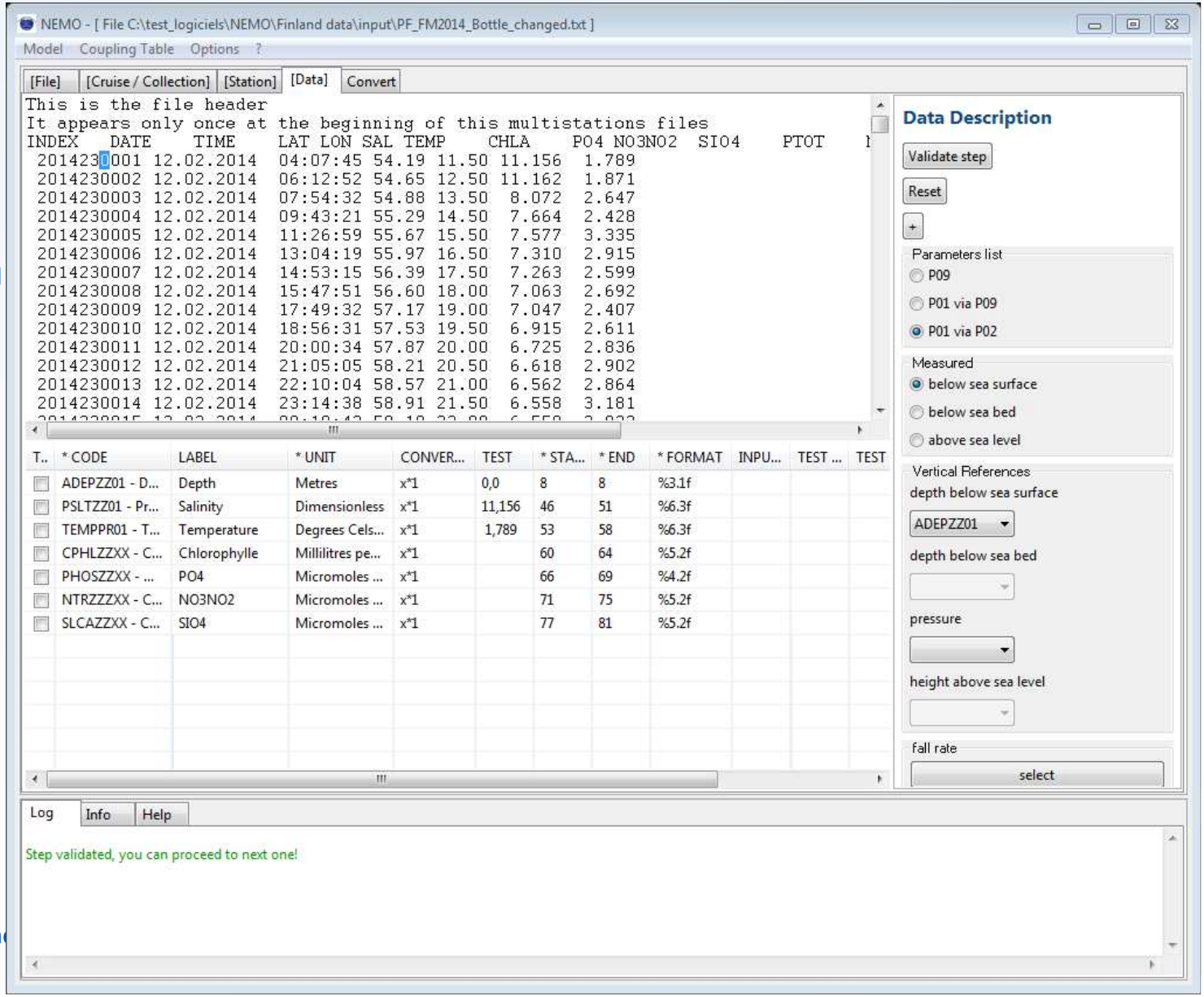
# Data description

**Add depth = 0 (surface)**

**Validate the step**

**Error!!**

**Depth must be in the 1st position**

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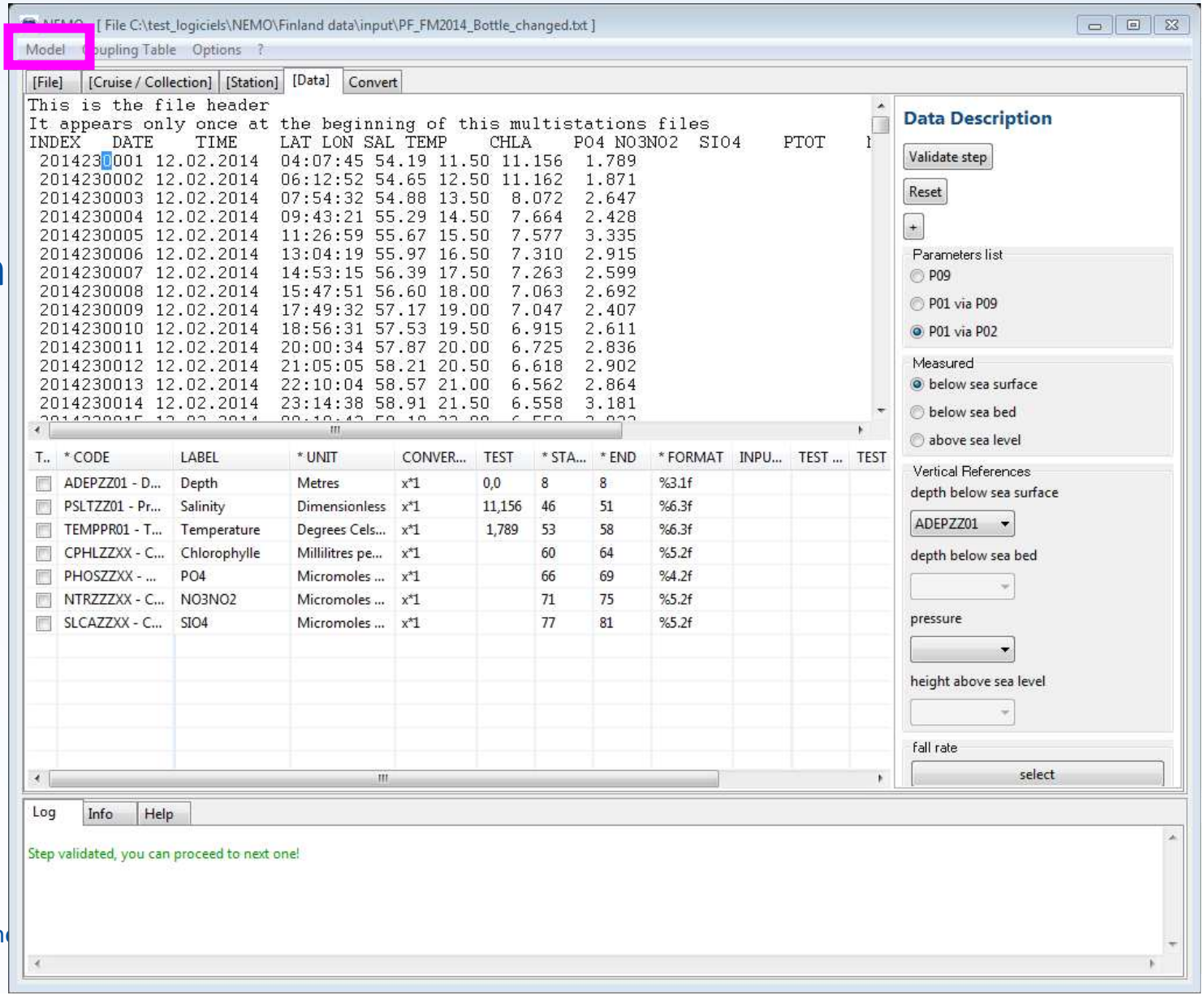
# Data description

## Save the model

## Using Menu – Model > Save

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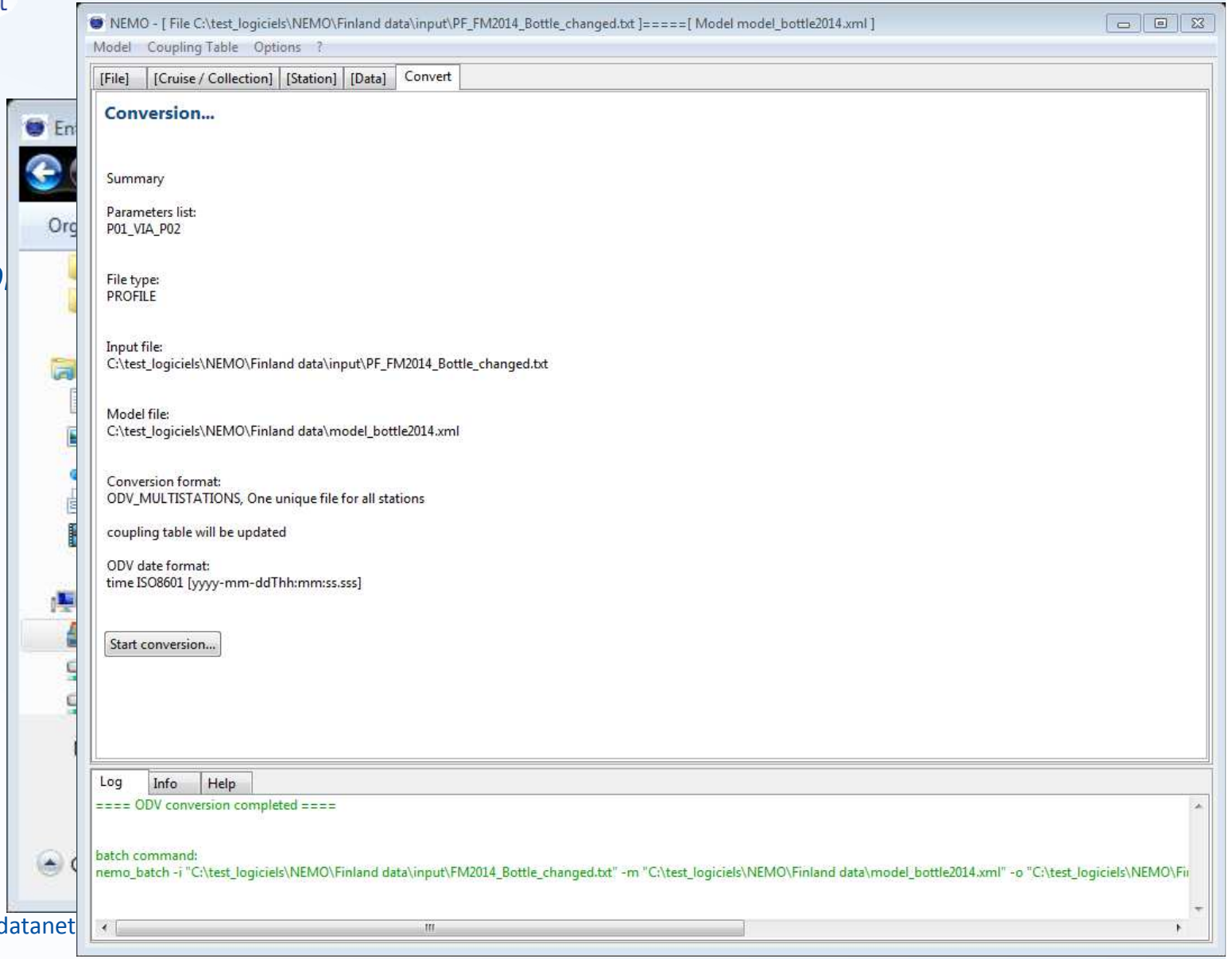
SeaDataNet

# File conversio

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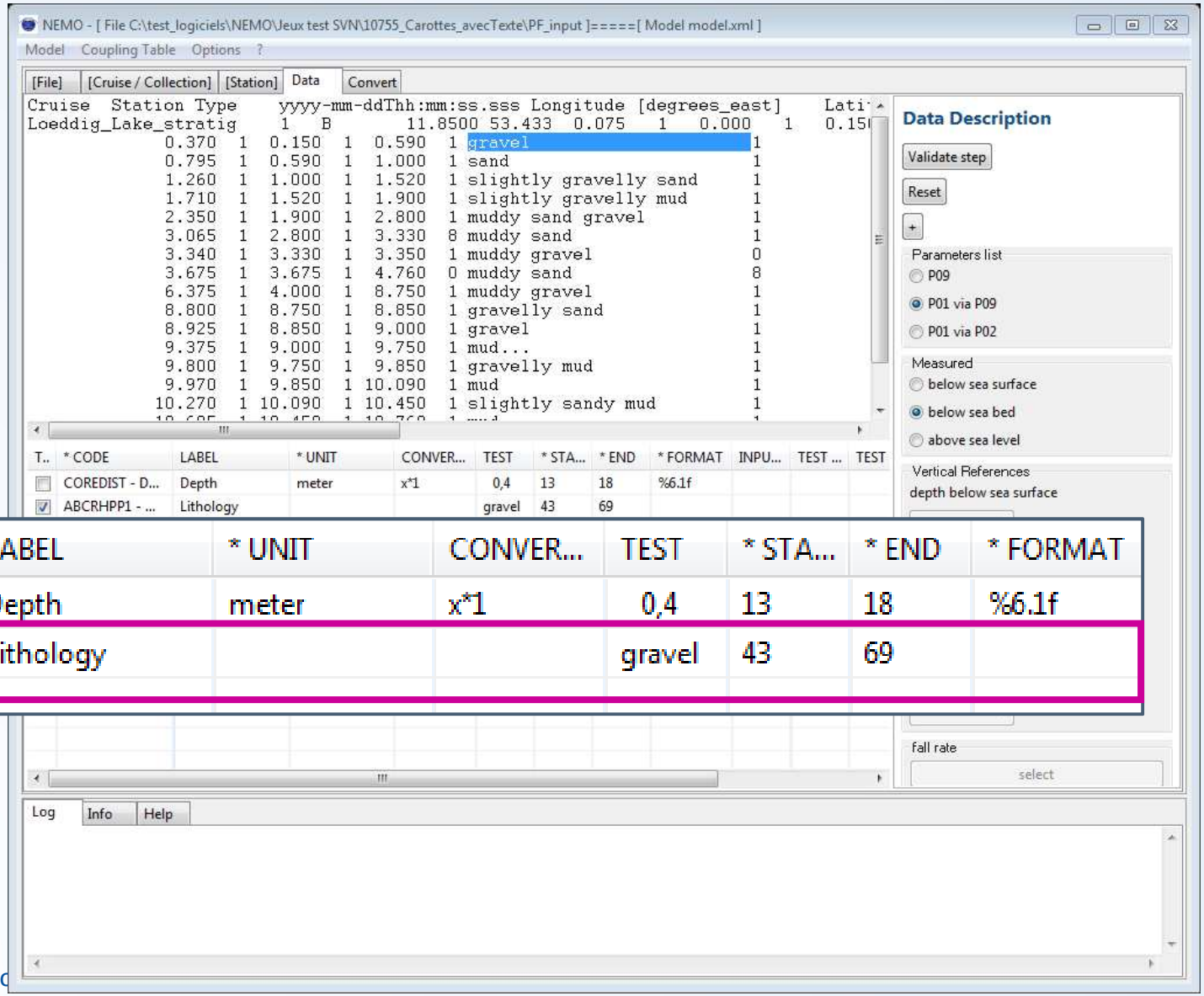
SeaDataNet

NEMO ifremer

# Non numeric parameters

For sediment description in Sediment Core




| T.. | * CODE | LABEL | * UNIT | CONVER... | TEST | * STA... | * END | * FORMAT |
|---|---|---|---|---|---|---|---|---|
| ☐ | COREDIST - D... | Depth | meter | x*1 | 0,4 | 13 | 18 | %6.1f |
| ☑ | ABCRHPP1 - ... | Lithology | | | gravel | 43 | 69 | |

Compatible with ODV

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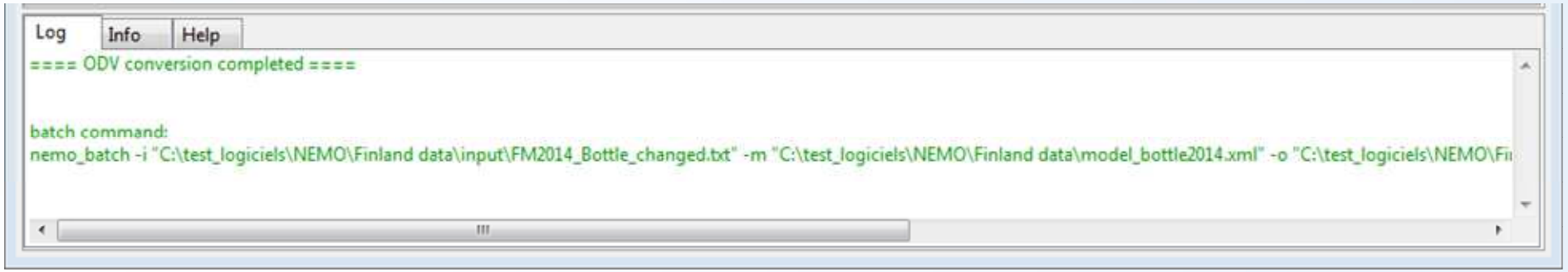
# Other additional information

- **Instrument** used for the measured parameters can be added
- **Quality flags** already existing in the file => if not SeaDataNet flag, mapping is necessary

| T.. | * CODE | LABEL | * UNIT | CONVER... | TEST | * STA... | * END | * FORMAT | INPU... | TEST (INPUT) | TEST (OUTPUT) | START FLAG | END FLAG | INSTRUMENT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ADEPZZ01 - D... | Depth | Metres | x*1 | 0,0 | 8 | 8 | %3.1f | | | | | | |
| | PSLTZZ01 - Pr... | Salinity | Dimensionless | x*1 | 11,156 | 46 | 51 | %6.3f | | | | | | |
| | TEMPPR01 - T... | Temperature | Degrees Cels... | x*1 | 1,789 | 53 | 58 | %6.3f | | | | | | |
| | CPHLZZXX - C... | Chlorophylle | Millilitres pe... | x*1 | | 60 | 64 | %5.2f | | | | | | |
| | PHOSZZXX - ... | PO4 | Micromoles ... | x*1 | | 66 | 69 | %4.2f | | | | | | |
| | NTRZZZXX - C... | NO3NO2 | Micromoles ... | x*1 | | 71 | 75 | %5.2f | | | | | | |
| | SLCAZZXX - C... | SIO4 | Micromoles ... | x*1 | | 77 | 81 | %5.2f | | | | | | |

# NEMO in batch mode

- NEMO can be run in batch mode, from NEMO install directory, using existing models
- Several arguments can be added on the command line



# NEMO – User manual

- User manual is provided on line on SeaDataNet website:

  https://www.seadatanet.org/Software/NEMO

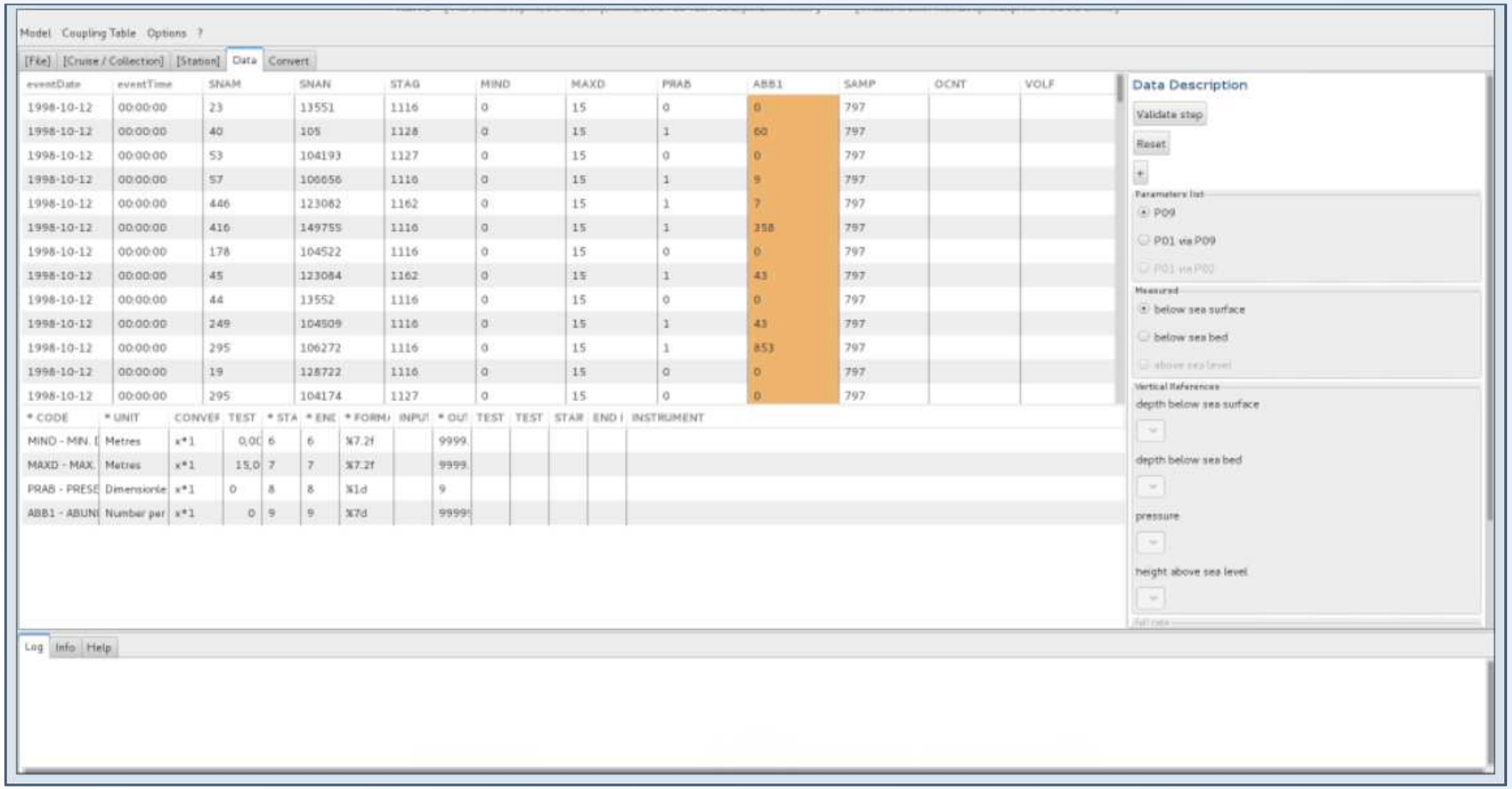
  – Detailed explanation for NEMO installation and use, lots of snapshots

- Available also on this page
  – zip file of examples of vertical profiles, time series and trajectories with corresponding NEMO
  – FAQ
  – This presentation of NEMO

# Next release of NEMO

- New management of **CSV files** as input files of NEMO
  - Will manage the column number and the “PF_“ temporary files will not exist any more
- Management of **deprecated parameters** : replacement by the new parameter defined by the ‘Replaced by’ attributes in the vocabulary
- Bug corrections
- Planned released date : **Summer 2017**

# New management of the CSV files



# SeaDataNet

*NEMO and MIKADO interaction– CDI summary file*

*NEMO* and SDN *Download Manager – coupling table*

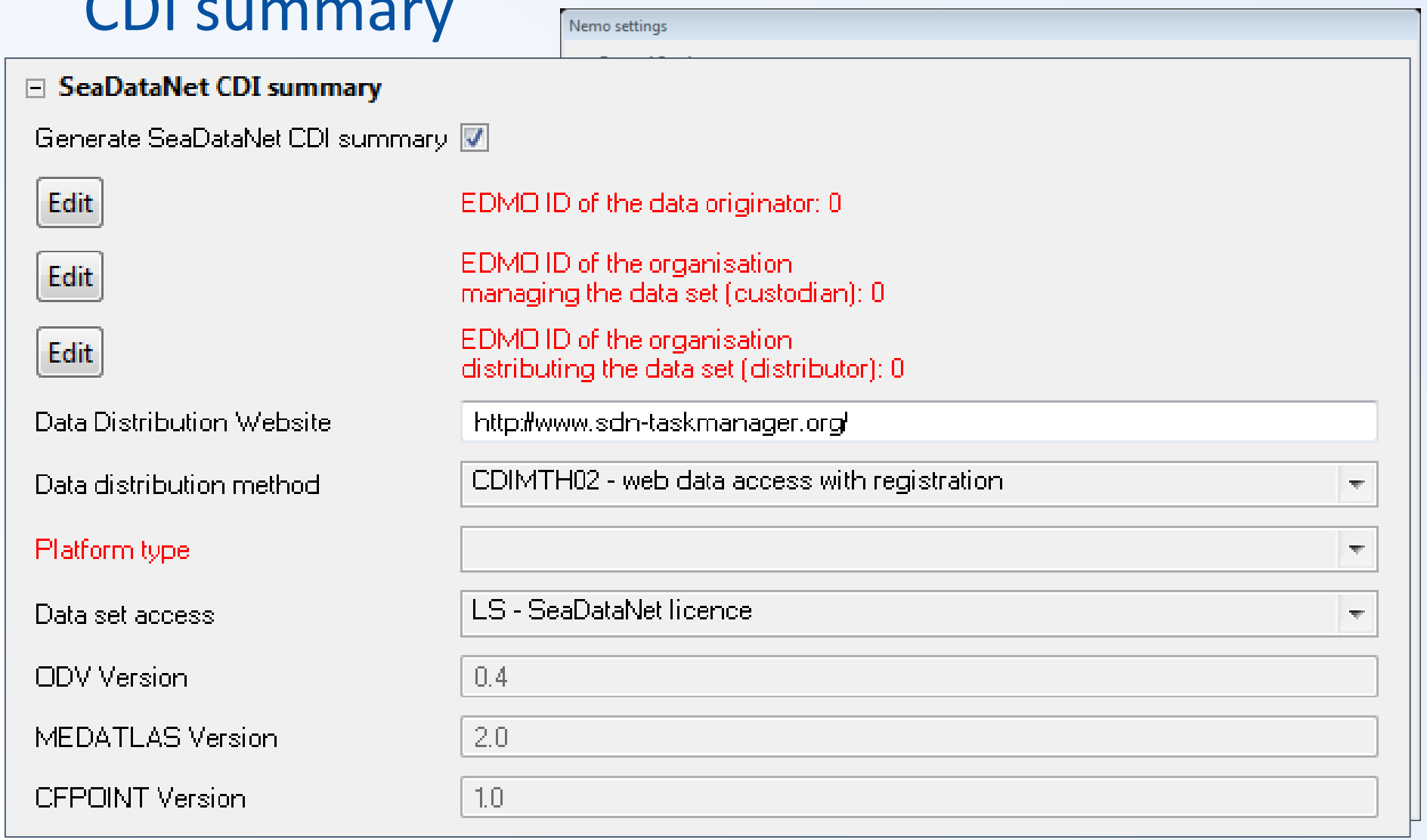
EMODnet Chemistry 3 Kick-off meeting, Trieste, Italy, 18-19 May 2017

sdn-userdesk@seadatanet.org – www.seadatanet.org

# While converting …

- NEMO is able to
- **Generate a SeaDataNet CDI Summary**
  - Text file containing the minimum mandatory information needed in the CDI ISO-19139 description
  - This file can be converted to an Excel file
  - Which can be read by MIKADO to generate the XML CDI files
- **Generate a coupling table** that will be used by the Download manager of SeaDataNet
  - It is the link between the LOCAL_CDI_ID and the file

# CDI summary


Nemo settings
SeaDataNet CDI summary
Generate SeaDataNet CDI summary
Edit
EDMO ID of the data originator: 0
Edit
EDMO ID of the organisation managing the data set (custodian): 0
Edit
EDMO ID of the organisation distributing the data set (distributor): 0
Data Distribution Website
http://www.sdn-taskmanager.org/
Data distribution method
CDIMTH02 - web data access with registration
Platform type
Data set access
LS - SeaDataNet licence
ODV Version
0.4
MEDATLAS Version
2.0
CFPOINT Version
1.0

# CDI SUMMARY text File (.txt)

CDI_summary.txt

| LOCAL_CDI_ID | EDMO_AUTHOR | AREA_TYPE | DATASET_NAME | DATASET_ID | DATASET_REV_DATE | EDMO_ORIGINATOR | DATASET_ABS | EDMO_CUSTODIAN | P02_CODE | PLATFORM_TYPE | DATASET_ACCESS | CRUI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FI35200653001_00001_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | AHGT | 31 | LS | OVIDE 3 001 | +38.433333 | -010.700000 | 2006-05-24T14:28:00 |
| FI35200653001_00001_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | AHGT | 31 | LS | OVIDE 3 001 | +38.433333 | -010.700000 | 2006-05-24T14:28:00 |
| FI35200653001_00001_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | TEMP | 31 | LS | OVIDE 3 001 | +38.433333 | -010.700000 | 2006-05-24T14:28:00 |
| FI35200653001_00001_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | TEMP | 31 | LS | OVIDE 3 001 | +38.433333 | -010.700000 | 2006-05-24T14:28:00 |
| FI35200653001_00001_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | PSAL | 31 | LS | OVIDE 3 001 | +38.433333 | -010.700000 | 2006-05-24T14:28:00 |
| FI35200653001_00001_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | PSAL | 31 | LS | OVIDE 3 001 | +38.433333 | -010.700000 | 2006-05-24T14:28:00 |
| FI35200653001_00001_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | DOXY | 31 | LS | OVIDE 3 001 | +38.433333 | -010.700000 | 2006-05-24T14:28:00 |
| FI35200653001_00001_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | DOXY | 31 | LS | OVIDE 3 001 | +38.433333 | -010.700000 | 2006-05-24T14:28:00 |
| FI35200653001_00002_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | AHGT | 31 | LS | OVIDE 3 002 | +40.333333 | -009.459333 | 2006-05-25T05:39:00 |
| FI35200653001_00002_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | AHGT | 31 | LS | OVIDE 3 002 | +40.333333 | -009.459333 | 2006-05-25T05:39:00 |
| FI35200653001_00002_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | TEMP | 31 | LS | OVIDE 3 002 | +40.333333 | -009.459333 | 2006-05-25T05:39:00 |
| FI35200653001_00002_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | TEMP | 31 | LS | OVIDE 3 002 | +40.333333 | -009.459333 | 2006-05-25T05:39:00 |
| FI35200653001_00002_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | PSAL | 31 | LS | OVIDE 3 002 | +40.333333 | -009.459333 | 2006-05-25T05:39:00 |
| FI35200653001_00002_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | PSAL | 31 | LS | OVIDE 3 002 | +40.333333 | -009.459333 | 2006-05-25T05:39:00 |
| FI35200653001_00002_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | DOXY | 31 | LS | OVIDE 3 002 | +40.333333 | -009.459333 | 2006-05-25T05:39:00 |
| FI35200653001_00002_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | DOXY | 31 | LS | OVIDE 3 002 | +40.333333 | -009.459333 | 2006-05-25T05:39:00 |
| FI35200653001_00003_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | AHGT | 31 | LS | OVIDE 3 003 | +40.333333 | -009.642833 | 2006-05-25T10:17:00 |
| FI35200653001_00003_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | AHGT | 31 | LS | OVIDE 3 003 | +40.333333 | -009.642833 | 2006-05-25T10:17:00 |
| FI35200653001_00003_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | TEMP | 31 | LS | OVIDE 3 003 | +40.333333 | -009.642833 | 2006-05-25T10:17:00 |
| FI35200653001_00003_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | TEMP | 31 | LS | OVIDE 3 003 | +40.333333 | -009.642833 | 2006-05-25T10:17:00 |
| FI35200653001_00003_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | PSAL | 31 | LS | OVIDE 3 003 | +40.333333 | -009.642833 | 2006-05-25T10:17:00 |
| FI35200653001_00003_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | PSAL | 31 | LS | OVIDE 3 003 | +40.333333 | -009.642833 | 2006-05-25T10:17:00 |
| FI35200653001_00003_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | DOXY | 31 | LS | OVIDE 3 003 | +40.333333 | -009.642833 | 2006-05-25T10:17:00 |
| FI35200653001_00003_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | DOXY | 31 | LS | OVIDE 3 003 | +40.333333 | -009.642833 | 2006-05-25T10:17:00 |
| FI35200653001_00004_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | AHGT | 31 | LS | OVIDE 3 004 | +40.334333 | -009.764167 | 2006-05-25T12:17:00 |
| FI35200653001_00004_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | AHGT | 31 | LS | OVIDE 3 004 | +40.334333 | -009.764167 | 2006-05-25T12:17:00 |
| FI35200653001_00004_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | TEMP | 31 | LS | OVIDE 3 004 | +40.334333 | -009.764167 | 2006-05-25T12:17:00 |
| FI35200653001_00004_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | TEMP | 31 | LS | OVIDE 3 004 | +40.334333 | -009.764167 | 2006-05-25T12:17:00 |
| FI35200653001_00004_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | PSAL | 31 | LS | OVIDE 3 004 | +40.334333 | -009.764167 | 2006-05-25T12:17:00 |
| FI35200653001_00004_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | PSAL | 31 | LS | OVIDE 3 004 | +40.334333 | -009.764167 | 2006-05-25T12:17:00 |
| FI35200653001_00004_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | DOXY | 31 | LS | OVIDE 3 004 | +40.334333 | -009.764167 | 2006-05-25T12:17:00 |
| FI35200653001_00004_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | DOXY | 31 | LS | OVIDE 3 004 | +40.334333 | -009.764167 | 2006-05-25T12:17:00 |
| FI35200653001_00005_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | AHGT | 31 | LS | OVIDE 3 005 | +40.333333 | -009.783333 | 2006-05-25T15:36:00 |
| FI35200653001_00005_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | AHGT | 31 | LS | OVIDE 3 005 | +40.333333 | -009.783333 | 2006-05-25T15:36:00 |
| FI35200653001_00005_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | TEMP | 31 | LS | OVIDE 3 005 | +40.333333 | -009.783333 | 2006-05-25T15:36:00 |
| FI35200653001_00005_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | TEMP | 31 | LS | OVIDE 3 005 | +40.333333 | -009.783333 | 2006-05-25T15:36:00 |
| FI35200653001_00005_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | PSAL | 31 | LS | OVIDE 3 005 | +40.333333 | -009.783333 | 2006-05-25T15:36:00 |
| FI35200653001_00005_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | PSAL | 31 | LS | OVIDE 3 005 | +40.333333 | -009.783333 | 2006-05-25T15:36:00 |
| FI35200653001_00005_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | DOXY | 31 | LS | OVIDE 3 005 | +40.333333 | -009.783333 | 2006-05-25T15:36:00 |
| FI35200653001_00005_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | DOXY | 31 | LS | OVIDE 3 005 | +40.333333 | -009.783333 | 2006-05-25T15:36:00 |
| FI35200653001_00006_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | AHGT | 31 | LS | OVIDE 3 006 | +40.333333 | -009.801500 | 2006-05-25T17:46:00 |
| FI35200653001_00006_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | AHGT | 31 | LS | OVIDE 3 006 | +40.333333 | -009.801500 | 2006-05-25T17:46:00 |
| FI35200653001_00006_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | TEMP | 31 | LS | OVIDE 3 006 | +40.333333 | -009.801500 | 2006-05-25T17:46:00 |
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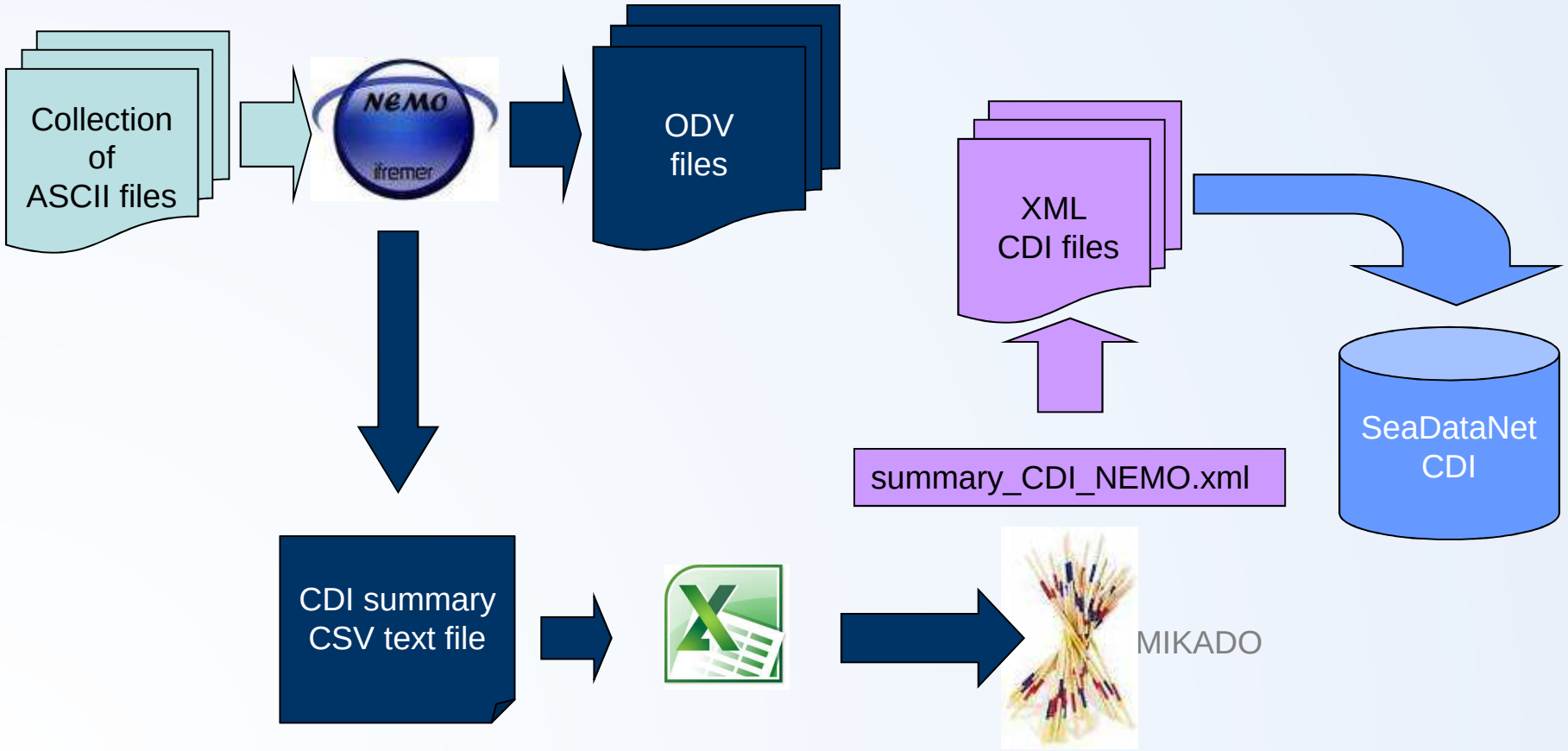
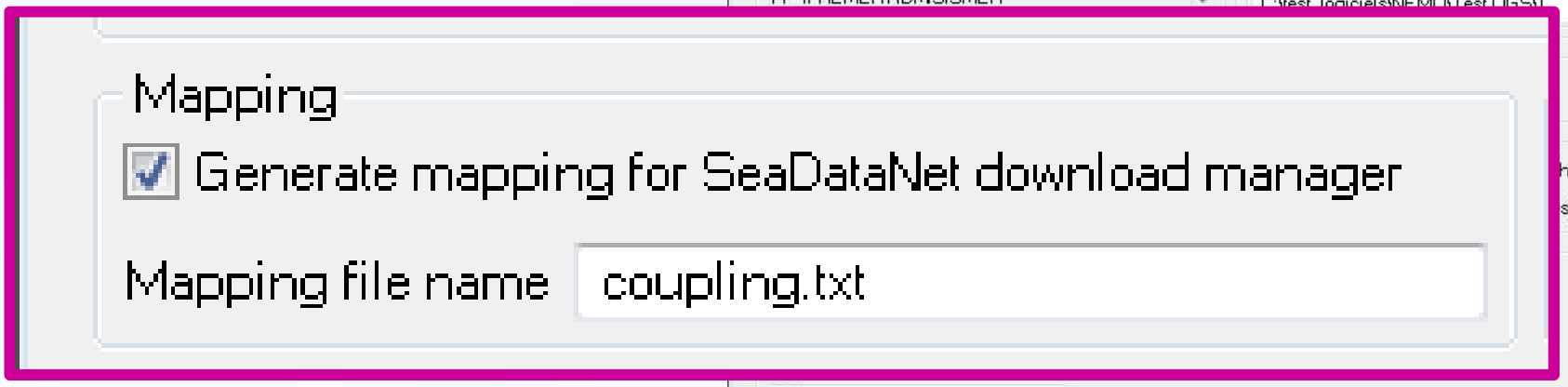
| FI35200653001_00006_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | PSAL | 31 | LS | OVIDE 3 006 | +40.333333 | -009.801500 | 2006-05-25T17:46:00 |
| FI35200653001_00006_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | DOXY | 31 | LS | OVIDE 3 006 | +40.333333 | -009.801500 | 2006-05-25T17:46:00 |
| FI35200653001_00006_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | DOXY | 31 | LS | OVIDE 3 006 | +40.333333 | -009.801500 | 2006-05-25T17:46:00 |
| FI35200653001_00007_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | AHGT | 31 | LS | OVIDE 3 007 | +40.333333 | -009.876000 | 2006-05-25T20:37:00 |
| FI35200653001_00007_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | AHGT | 31 | LS | OVIDE 3 007 | +40.333333 | -009.876000 | 2006-05-25T20:37:00 |
| FI35200653001_00007_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | TEMP | 31 | LS | OVIDE 3 007 | +40.333333 | -009.876000 | 2006-05-25T20:37:00 |
| FI35200653001_00007_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | TEMP | 31 | LS | OVIDE 3 007 | +40.333333 | -009.876000 | 2006-05-25T20:37:00 |
| FI35200653001_00007_H10 | 486 | Point | OVIDE 3 FI35200653001 | 2014-08-22 | 32 | Not Specified | 9 | PSAL | 31 | LS | OVIDE 3 007 | +40.333333 | -009.876000 | 2006-05-25T20:37:00 |

# Interaction with MIKADO



# Coupling table for Download Manager

Further information must be added in NEMO settings (menu Options of NEMO)







Coupling table =

link between each LOCAL_CDI_ID and the file(s) which contains it

# Coupling table

- If the “Generate mapping” option is clicked :
- NEMO will insert a record in the coupling table for each vertical profile, time series or trajectory that it converts.
- The coupling table is managed by a local database imbedded in NEMO
- The coupling table can be :
  - Edited (for modification, insertion or deletion)
  - exported (to be used by the download manager)
  - imported (from previous version of NEMO, for example)

# Coupling table content (1)

LOCAL_CDI_ID

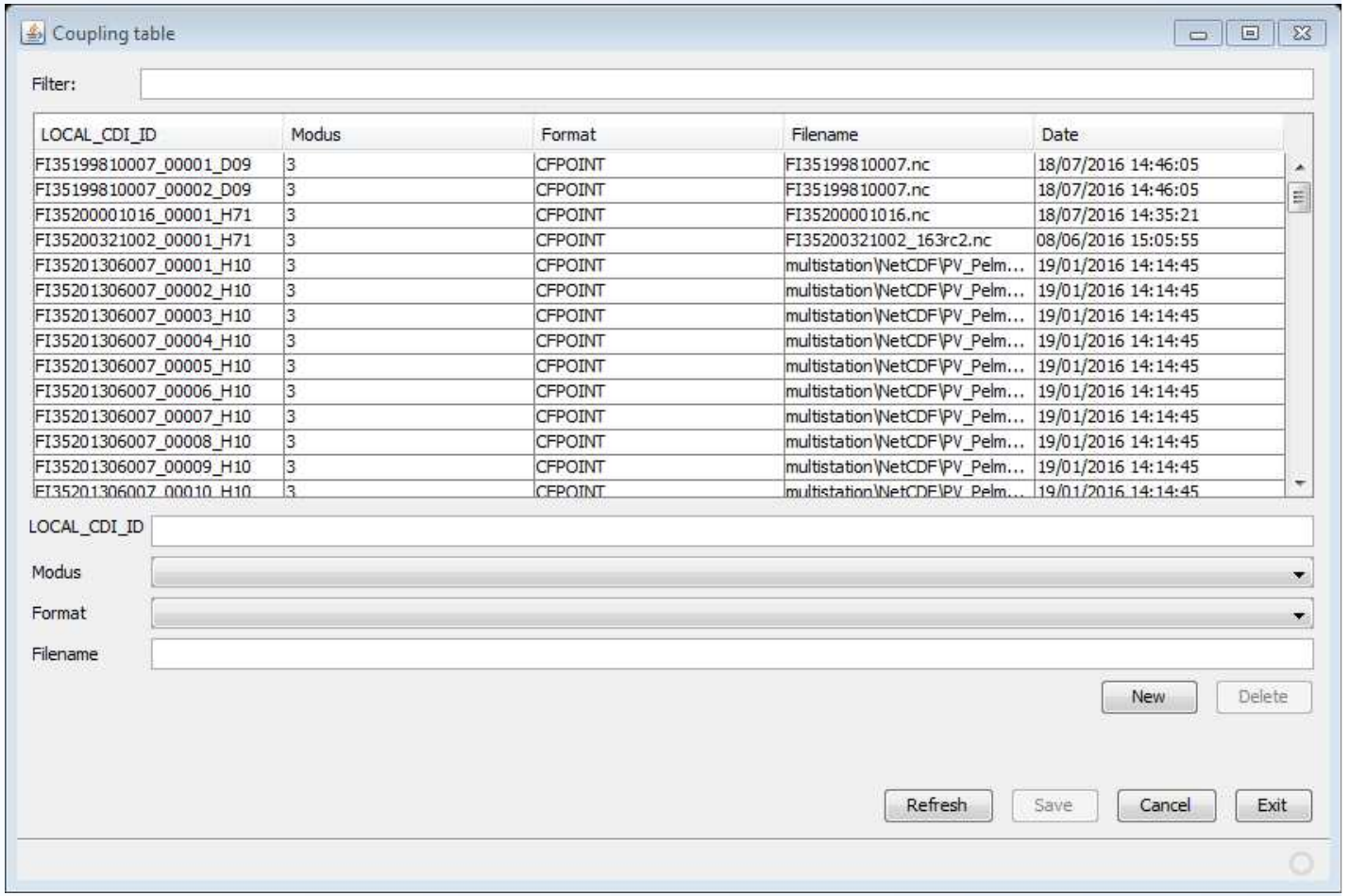
Modus

1 : mono-station

3 multi-station

Filename

Date of creation



# Coupling table content (2)

| LOCAL_CDI_ID | Modus | Format | Filename | Date |
|---|---|---|---|---|
| FI35200220004_00024_H10 | 1 | ODV | FI35200220004_00024_H10.txt | 21/10/2009 11:35:29 |
| MLML199700971_00010_H09 | 3 | MEDATLAS | output_med_COM1997.CPM | 21/10/2009 11:19:28 |
| MLML199700971_00010_H09 | 1 | ODV | MLML199700971_00010_H09.txt | 21/10/2009 11:07:55 |

- One unique LOCAL_CDI_ID in one mono-station ODV file
- The same LOCAL_CDI_ID in 2 different files :
  - One multi-station MEDATLAS file
  - One mono-station ODV file

# Any questions?