



SeaDataNet

NEMO – Reformating tool



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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)

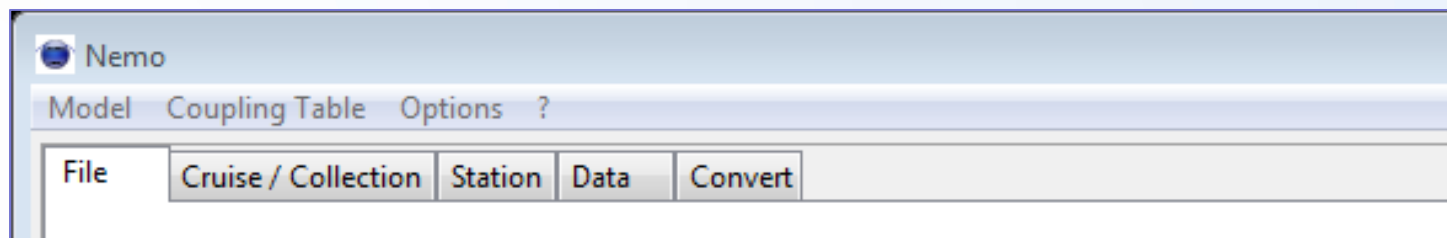
Interaction with MIKADO





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

Nemo settings

General Settings

Language: English

Data centre: FI - IFREMER / IDN/SISMER

Organisation creating the CDI metadata: Edit EDMO ID of the organisation creating the CDI metadata (author): 486

Mapping: ☒ Generate mapping for SeaDataNet download manager
Mapping file name: coupling.txt

ODV date format: ☒ time_ISO8601 [yyyy-mm-ddThh:mm:ss.sss] ☐ Chronological Julian Date [days]

Conversion format: ☒ Medatlas ☐ ODV ☐ NetCDF

Web Services

SeaDataNet CDI summary

Flags SeaDataNet

Code	Label	Local F...	SeaDataNet Flag
C1	SeaDataNet	0	0 - no quality control
C2	MEDATLAS	1	1 - good value

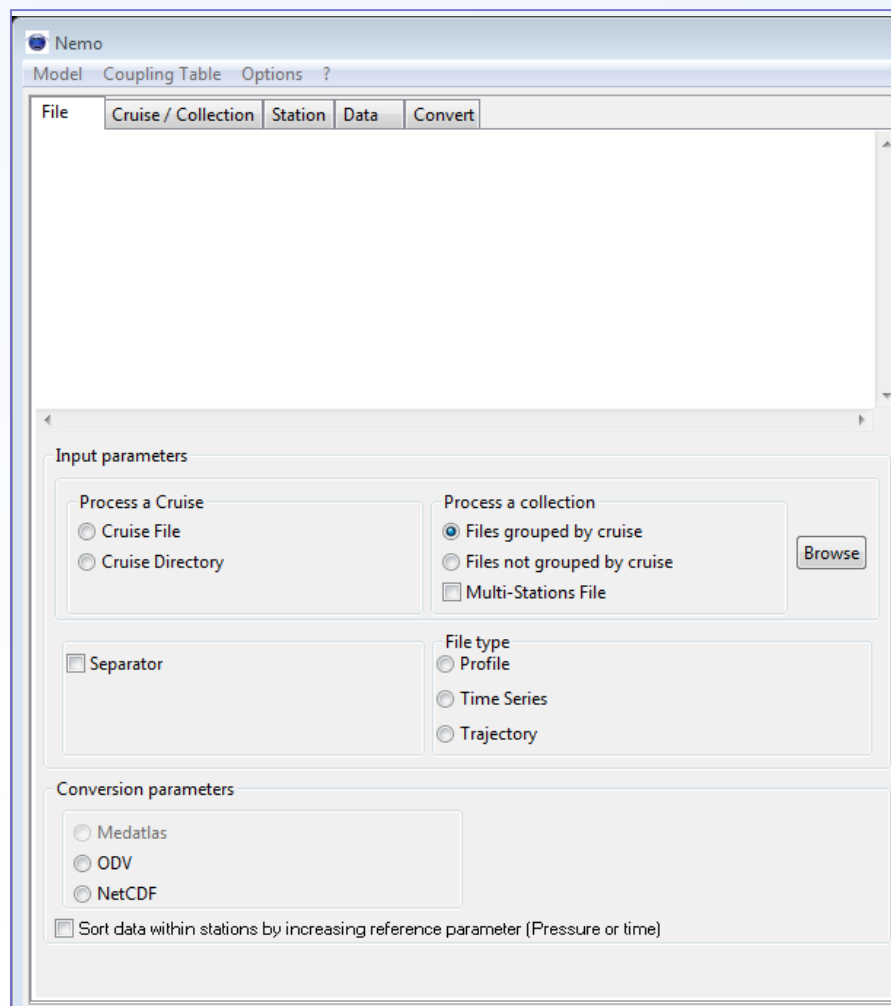
Default seaDataNet flag: 1

Restore defaults Validate Cancel

- 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

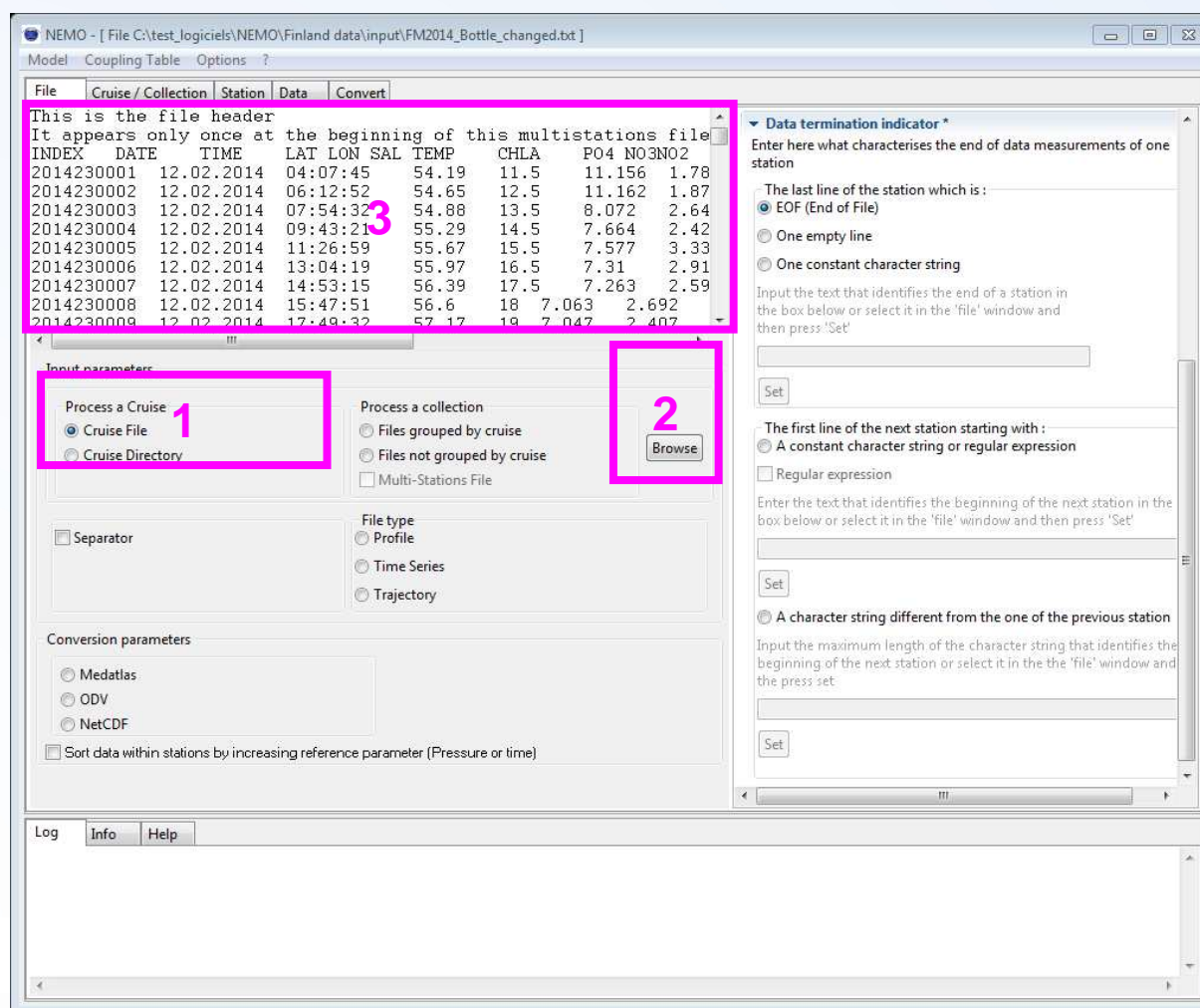


NEMO - Description of input files



- 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

NEMO - [File C:\test_logiciels\NEMO\Finland data\input\FM2014_Bottle_changed.txt]

Model Coupling Table Options ?

File Cruise / Collection Station Data Convert

This is the file header
It appears only once at the beginning of this multistations file

INDEX	DATE	TIME	LAT	Lon	SAL	TEMP	CHLA	P04	NO3NO2
2014230001	12.02.2014	04:07:45	54.19	11.5	11.156	1.78			
2014230002	12.02.2014	06:12:52	54.65	12.5	11.162	1.87			
2014230003	12.02.2014	07:54:32	54.88	13.5	8.072	2.64			
2014230004	12.02.2014	09:43:21	55.29	14.5	7.664	2.42			
2014230005	12.02.2014	11:26:59	55.67	15.5	7.577	3.33			
2014230006	12.02.2014	13:04:19	55.97	16.5	7.31	2.91			
2014230007	12.02.2014	14:53:15	56.39	17.5	7.263	2.59			
2014230008	12.02.2014	15:47:51	56.6	18	7.063	2.692			
2014230009	12.02.2014	17:49:32	57.17	19	7.047	2.407			

Input parameters

Process a Cruise
☒ Cruise File
☐ Cruise Directory

Process a collection
☐ Files grouped by cruise
☐ Files not grouped by cruise
☐ Multi-Stations File

File type
☒ Profile
☐ Time Series
☐ Trajectory

Separator
☒ Tabulation
☐ Semicolon
☐ Comma
☐ Space
☐ Other:

Conversion parameters
☐ Medatlas
☒ ODV
☐ NetCDF

Sort data within stations by increasing reference parameter (Pressure or time)
☐ One file per station
☐ One unique file for all stations

File Description
 Validate all steps
 Validate step
 Reset

File header *
 Station header *
 End of station *
 Data termination indicator *

Log Info Help

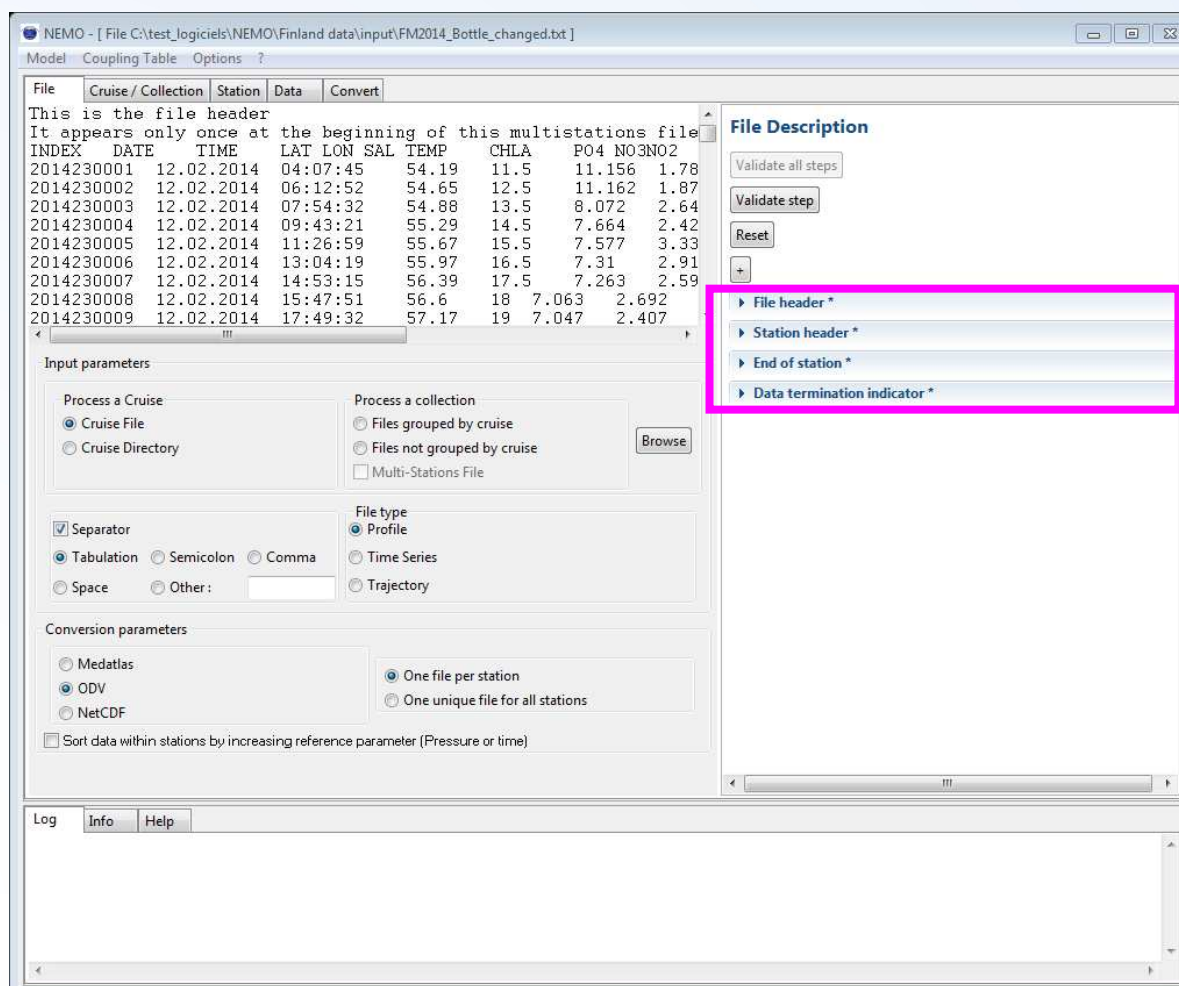
One Multistation file

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

1

This is the file header
It appears only once at the beginning of this multistations file

INDEX	DATE	TIME	LAT	LO	SAL	TEMP	CHLA	PO4	NO3	NO2
2014230001	12.02.2014	7:07:13	54.15	11.58	11.162	1.871				
2014230002	12.02.2014	6:12:52	54.65	12.50	11.162	1.871				
2014230003	12.02.2014	7:54:32	54.88	13.50	8.072	2.647				
2014230004	12.02.2014	9:43:21	55.29	14.50	7.664	2.428				
2014230005	12.02.2014	11:26:59	55.67	15.50	7.577	3.33				
2014230006	12.02.2014	13:04:19	55.97	16.50	7.31	2.91				
2014230007	12.02.2014	14:53:15	56.39	17.50	7.263	2.59				
2014230008	12.02.2014	15:47:51	56.60	18.00	7.063	2.69				
2014230009	12.02.2014	17:49:32	57.17	19.00	7.047	2.40				

2

3

Set

File Description

Validate all steps

Validate step

Reset

+

File header *

Number of lines : highlight the lines preceding the first station then click on set

Station header *

End of station *

Data termination indicator *

Input parameters

Process a Cruise:

☒ Cruise File

☐ Cruise Directory

Process a collection

☐ Files grouped by cruise

☐ Files not grouped by cruise

☐ Multi-Stations File

Browse

Separator

☒ Tabulation

☐ Semicolon

☐ Comma

☐ Space

☐ Other :

File type

☒ Profile

☐ Time Series

☐ Trajectory

Conversion parameters

☐ Medatlas

☒ ODV

☐ NetCDF

☐ Sort data within stations by increasing reference parameter (Pressure or time)

One file per station

One unique file for all stations

Log

Info

Help

• 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

The screenshot shows the NEMO software interface. The main window displays a file header and a table of data. The dialog box is open, showing options for data termination indicators. A red box highlights the 'Set' button next to the value '11'.

File Header:

```

This is the file header
It appears only once at the beginning of this multistations file
INDEX DATE TIME LAT LON SAL TEMP CHLA P04 N03N02
2014230001 12.02.2014 04:07:45 54.19 11.50 11.156 1.789
2014230002 12.02.2014 06:12:52 54.65 12.50 11.162 1.871
2014230003 12.02.2014 07:54:32 54.88 13.50 8.072 2.647
2014230004 12.02.2014 09:43:21 55.29 14.50 7.664 2.428
2014230005 12.02.2014 11:26:59 55.67 15.50 7.577 3.335
2014230006 12.02.2014 13:04:19 55.97 16.50 7.310 2.915
2014230007 12.02.2014 14:53:15 56.39 17.50 7.263 2.599
2014230008 12.02.2014 15:47:51 56.60 18.00 7.063 2.692
2014230009 12.02.2014 17:49:32 57.17 19.00 7.047 2.407

```

Input parameters:

- Process a Cruise:
 - ☒ Cruise File
 - ☐ Cruise Directory
- Process a collection:
 - ☐ Files grouped by cruise
 - ☐ Files not grouped by cruise
 - ☐ Multi-Stations File
- File type:
 - ☒ Profile
 - ☐ Time Series
 - ☐ Trajectory
- Separator:
 - ☒ Tabulation
 - ☐ Semicolon
 - ☐ Comma
 - ☐ Space
 - ☐ Other:

Conversion parameters:

- ☐ Medatlas
- ☒ ODV
- ☐ NetCDF
- ☐ Sort data within stations by increasing reference parameter (Pressure or time)

Data termination indicator:

- The last line of the station which is:
 - ☒ EOF (End of File)
 - ☐ One empty line
 - ☐ One constant character string
- The first line of the next station starting with:
 - ☒ A constant character string or regular expression
 - ☐ Regular expression

Enter the text that identifies the end of a station in the box below or select it in the 'file' window and then press 'Set'

Enter the text that identifies the beginning of the next station in the box below or select it in the 'file' window and then press 'Set'

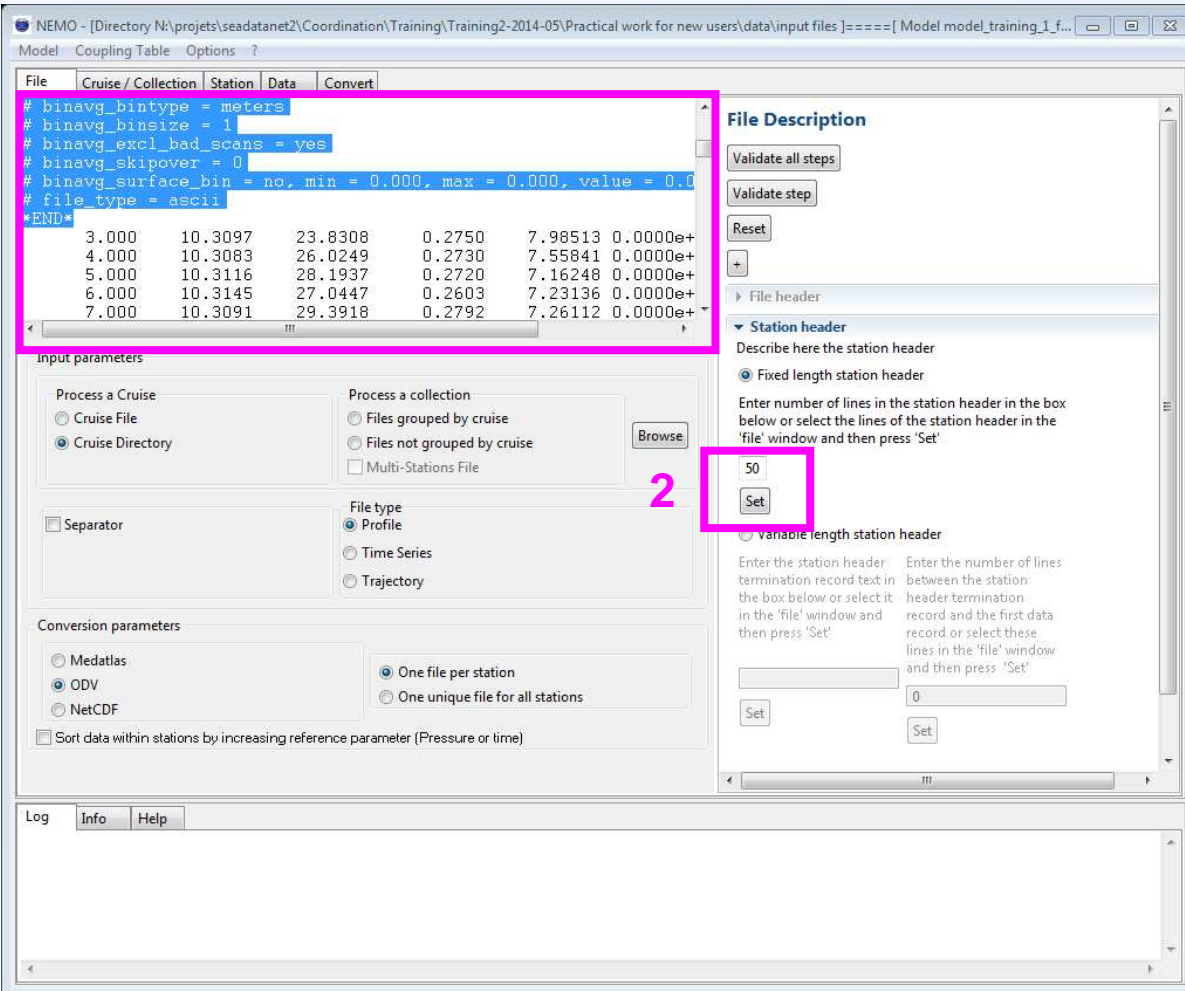
11

Set

- 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

1



2

The screenshot shows the NEMO software interface. The 'File' tab is selected, displaying a list of input files. The 'File Description' panel on the right shows the 'Station header' section, where the 'Fixed length station header' option is selected. The 'Set' button is highlighted in the 'Station header' section.

Input parameters:

- Process a Cruise:
 - ☐ Cruise File
 - ☒ Cruise Directory
- Process a collection:
 - ☐ Files grouped by cruise
 - ☐ Files not grouped by cruise
 - ☐ Multi-Stations File
- File type:
 - ☒ Profile
 - ☐ Time Series
 - ☐ Trajectory
- Conversion parameters:
 - ☐ Medatlas
 - ☒ ODV
 - ☐ NetCDF
 - ☐ One file per station
 - ☐ One unique file for all stations
 - ☐ Sort data within stations by increasing reference parameter (Pressure or time)

File Description:

Validate all steps

Validate step

Reset

File header

Station header

Describe here the station header

☒ Fixed length station header

Enter number of lines in the station header in the box below or select the lines of the station header in the 'file' window and then press 'Set'

50

Set

☐ Variable length station header

Enter the station header termination record text in the box below or select it in the 'file' window and then press 'Set'

Set

Enter the number of lines between the station header termination record and the first data record or select these lines in the 'file' window and then press 'Set'

0

Set

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

1

NEMO - [Directory N:\projets\seadatanet2\Coordination\Training\Training2-2014-05\Practical work for new users\data\input files]===== [Model model_training_1_f...

Model Coupling Table Options ?

File	Cruise / Collection	Station	Data	Convert
# datchv_skipover = 0				
# binavg_date = Jun 07 2002 05:59:40, 5.24				
# binavg_in = C:\126_mona\ctd\cf012000\Cf012000D.cnv				
# binavg_bintype = meters				
# binavg_binsize = 1				
# binavg_excl_bad_scans = yes				
# binavg_skipover = 0				
# binavg_surface_bin = no, min = 0.000, max = 0.000, value = 0.0				
# file_type = ascii				
END				
2.000	10.3097	23.8308	0.2750	7.98513 0.0000e+
4.000	10.3083	26.0249	0.2730	7.55841 0.0000e+

Input parameters

Process a Cruise

☐ Cruise File

☒ Cruise Directory

Process a collection

☐ Files grouped by cruise

☐ Files not grouped by cruise

☐ Multi-Stations File

File type

☒ Profile

☐ Time Series

☐ Trajectory

Conversion parameters

☐ Medatlas

☒ ODV

☐ NetCDF

☐ One file per station

☐ One unique file for all stations

☐ Sort data within stations by increasing reference parameter (Pressure or time)

File Description

Validate all steps

Validate step

Reset

File header

Station header

Describe here the station header

☐ Fixed length station header

Enter number of lines in the station header in the box below or select the lines of the station header in the 'file' window and then press 'Set'

0

Set

☒ Variable length station header

Enter the station header termination record text in the box below or select it in the 'file' window and then press 'Set'

END

Set

Enter the number of lines between the station header termination record and the first data record or select these lines in the 'file' window and then press 'Set'

0

Set

Log Info Help

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

NEMO - [File C:\test_logiciels\NEMO\Finland data\input\PF_FM2014_Bottle_changed.txt]

Model Coupling Table Options ?

[File] Cruise/Collection Station Data Convert

This is the file header
It appears only once at the beginning of this multistations file

INDEX	DATE	TIME	LAT	LO	SAL	TEMP	CHLA	PO4	NO3	NO2
2014230001	12.02.2014	04:07:45	54.19	11.50	11.156	1.789				
2014230002	12.02.2014	06:12:52	54.65	12.50	11.162	1.871				
2014230003	12.02.2014	07:54:32	54.88	13.50	8.072	2.647				
2014230004	12.02.2014	09:43:21	55.29	14.50	7.664	2.428				
2014230005	12.02.2014	11:26:59	55.67	15.50	7.577	3.335				
2014230006	12.02.2014	13:04:19	55.97	16.50	7.310	2.915				
2014230007	12.02.2014	14:53:15	56.39	17.50	7.263	2.599				
2014230008	12.02.2014	15:47:51	56.60	18.00	7.063	2.692				
2014230009	12.02.2014	17:49:32	57.17	19.00	7.047	2.407				

Input parameters

Process a Cruise
☒ Cruise File
☐ Cruise Directory

Process a collection
☐ Files grouped by cruise
☐ Files not grouped by cruise
☐ Multi-Stations File

File type
☒ Profile
☐ Time Series
☐ Trajectory

Separator
☒ Tabulation
☐ Semicolon
☐ Comma
☐ Space
☐ Other:

Conversion parameters
☐ Medatlas
☒ ODV
☐ NetCDF

Sort data within stations by increasing reference parameter (Pressure or time)

File Description

Validate all steps
Validate step 1

File header *
 Number of lines : highlight the lines preceding the first station then click on set
 3
 Set

Station header *
 End of station *

Data termination indicator *
 Enter here what characterises the end of data measurements of one station

The last line of the station which is :
☐ EOF (End of File)
☐ One empty line
☒ One constant character string

Input the text that identifies the end of a station in the box below or select it in the 'file' window and then press 'Set'

Set

Log Info Help

Step validated, you can proceed to next one!

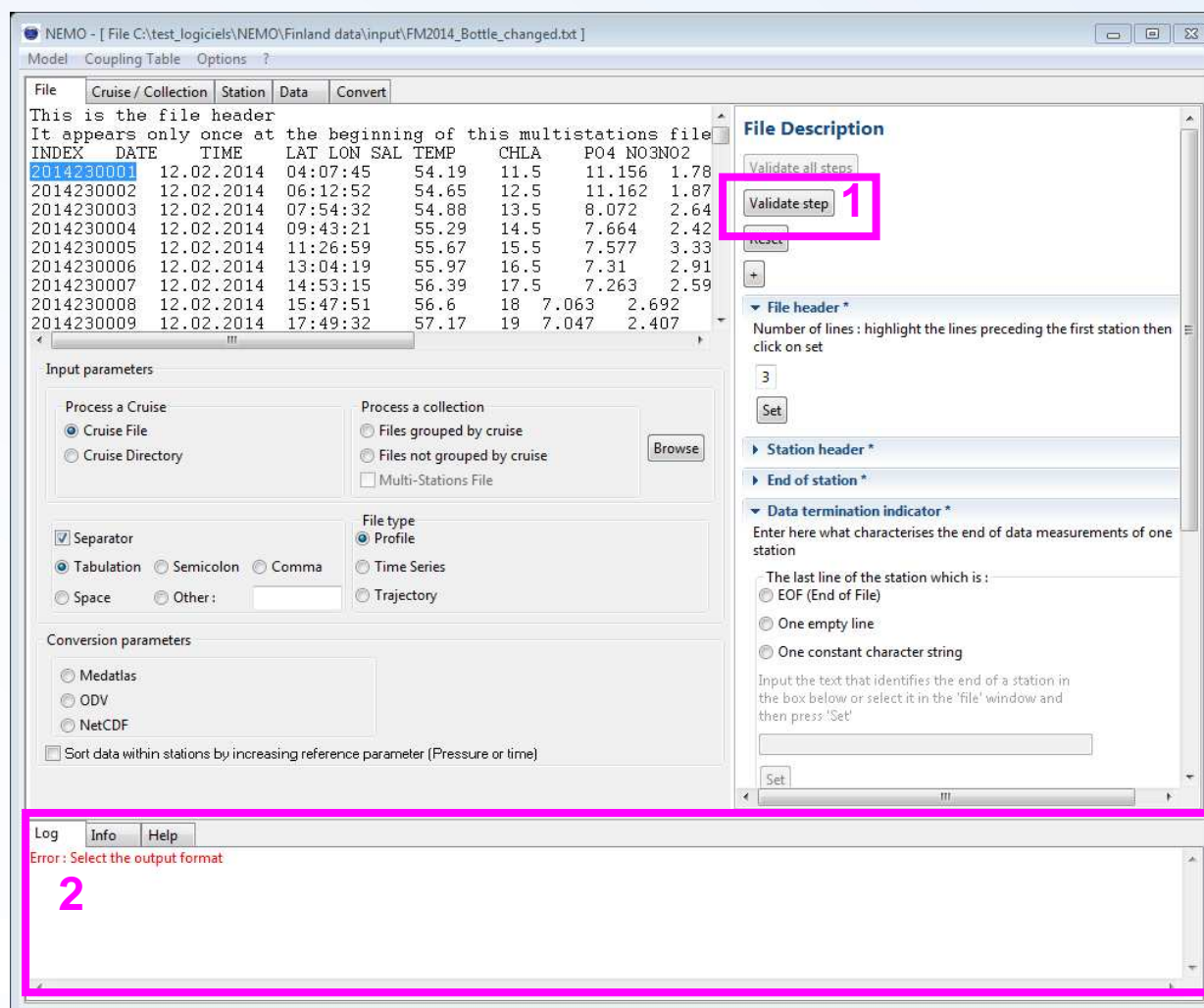
2

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:

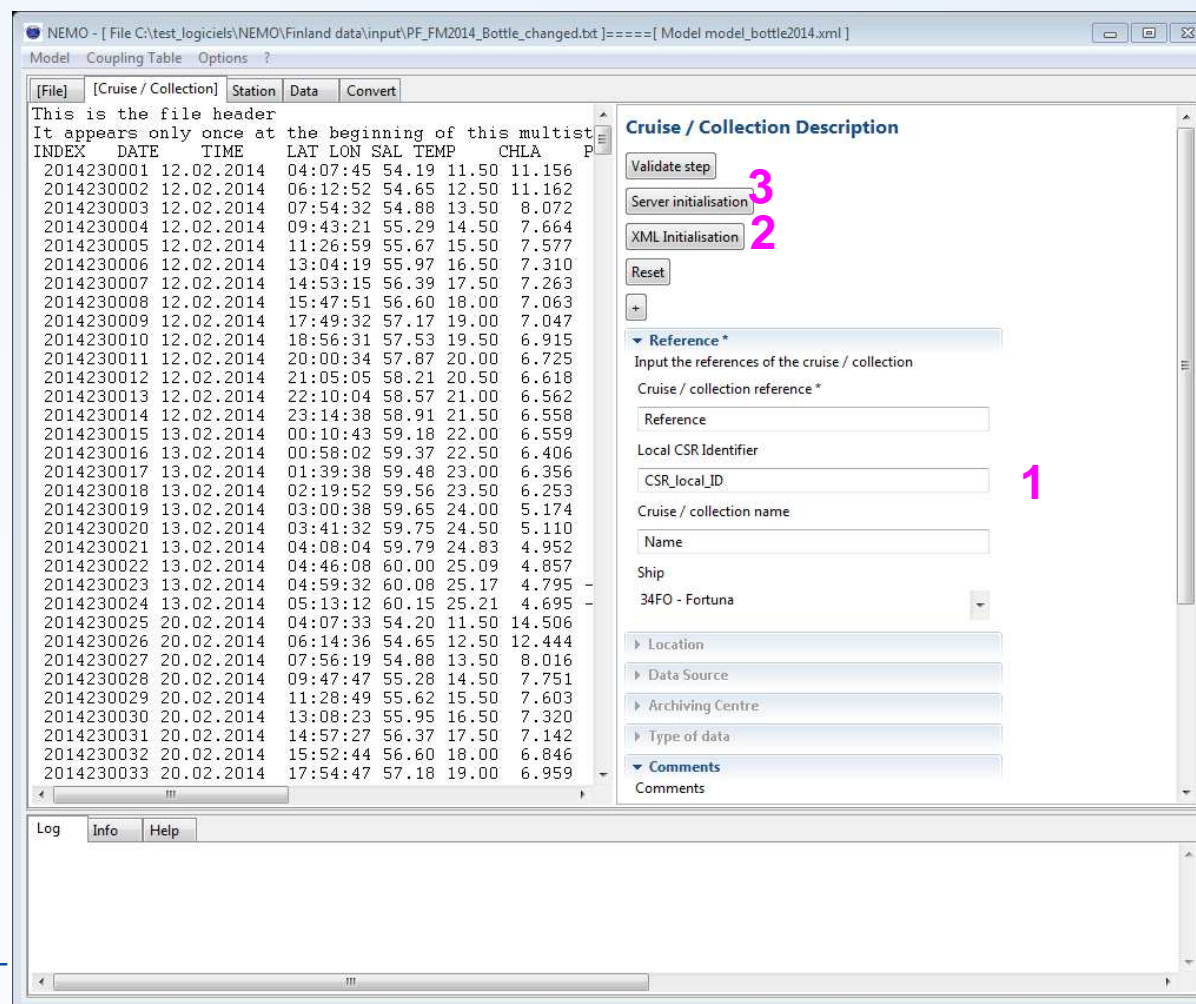
1 -Manually input

2 - Imported from
a SeaDataNet
XML CSR

3 - Imported from
a database
(IFREMER only)

Mandatory fields
depend on the
output format

sdn-userdesk@seadatanet.org –



NEMO - [File C:\test_logiciels\NEMO\Finland data\input\PF_FM2014_Bottle_changed.txt] ===== [Model model_bottle2014.xml]

Model Coupling Table Options ?

[File] [Cruise / Collection] Station Data Convert

This is the file header
It appears only once at the beginning of this multist

INDEX	DATE	TIME	LAT	Lon	SAL	TEMP	CHLA	P
2014230001	12.02.2014	04:07:45	54.19	11.50	11.156			
2014230002	12.02.2014	06:12:52	54.65	12.50	11.162			
2014230003	12.02.2014	07:54:32	54.88	13.50	8.072			
2014230004	12.02.2014	09:43:21	55.29	14.50	7.664			
2014230005	12.02.2014	11:26:59	55.67	15.50	7.577			
2014230006	12.02.2014	13:04:19	55.97	16.50	7.310			
2014230007	12.02.2014	14:53:15	56.39	17.50	7.263			
2014230008	12.02.2014	15:47:51	56.60	18.00	7.063			
2014230009	12.02.2014	17:49:32	57.17	19.00	7.047			
2014230010	12.02.2014	18:56:31	57.53	19.50	6.915			
2014230011	12.02.2014	20:00:34	57.87	20.00	6.725			
2014230012	12.02.2014	21:05:05	58.21	20.50	6.618			
2014230013	12.02.2014	22:10:04	58.57	21.00	6.562			
2014230014	12.02.2014	23:14:38	58.91	21.50	6.558			
2014230015	13.02.2014	00:10:43	59.18	22.00	6.559			
2014230016	13.02.2014	00:58:02	59.37	22.50	6.406			
2014230017	13.02.2014	01:39:38	59.48	23.00	6.356			
2014230018	13.02.2014	02:19:52	59.56	23.50	6.253			
2014230019	13.02.2014	03:00:38	59.65	24.00	5.174			
2014230020	13.02.2014	03:41:32	59.75	24.50	5.110			
2014230021	13.02.2014	04:08:04	59.79	24.83	4.952			
2014230022	13.02.2014	04:46:08	60.00	25.09	4.857			
2014230023	13.02.2014	04:59:32	60.08	25.17	4.795			
2014230024	13.02.2014	05:13:12	60.15	25.21	4.695			
2014230025	20.02.2014	04:07:33	54.20	11.50	14.506			
2014230026	20.02.2014	06:14:36	54.65	12.50	12.444			
2014230027	20.02.2014	07:56:19	54.88	13.50	8.016			
2014230028	20.02.2014	09:47:47	55.28	14.50	7.751			
2014230029	20.02.2014	11:28:49	55.62	15.50	7.603			
2014230030	20.02.2014	13:08:23	55.95	16.50	7.320			
2014230031	20.02.2014	14:57:27	56.37	17.50	7.142			
2014230032	20.02.2014	15:52:44	56.60	18.00	6.846			
2014230033	20.02.2014	17:54:47	57.18	19.00	6.959			

Cruise / Collection Description

Validate step 3

Server initialisation 2

XML Initialisation 2

Reset

+

Reference *

Input the references of the cruise / collection

Cruise / collection reference *

Reference

Local CSR Identifier

CSR_local_ID 1

Cruise / collection name

Name

Ship

34FO - Fortuna

Location

Data Source

Archiving Centre

Type of data

Comments

Comments

Log Info Help

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

▼ **Reference ***

Input the references of the cruise / collection

Cruise / collection reference *

Mandatory

FI35200653001

1: Cruise reference

Local CSR Identifier

6530010

2: Local Cruise ID

Cruise / collection name

OVIDE 3

3: Cruise name

Ship

06M2 - Maria S. Merian

4: Ship code

Cruise/collection description in output ODV

4 : Ship code

2: Local Cruise ID

<pre> //<sdn_reference xlink:href="http://seadata.bsh.de/cgi-csr/XML/xmlDownload_V2.nl?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> // </pre>																
Cruise	Station	Type	yyyy-mm-dd	Longitude [d	Latitude [de	LOCAL CDI ID	EDMO_code	Bot. Depth [r	DEPHPR01 [n	QV:S Pressure [t	QV:S Temperature	QV:S				
DIVIDE 3		1 C	2006-05-24T1	-10.7	38.43333	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		
									7	1	7	1	16.512	1		

3: Cruise name

1: Cruise reference

Station description

Mandatory information

NEMO - [File C:\test_logiciels\NEMO\Finland data\input\PF_FM2014_Bottle_changed.bt]

Model Coupling Table Options ?

[File] [Cruise / Collection] Station Data Convert

This is the file header
It appears only once at the beginning of this multistation file

INDEX	DATE	TIME	LAT	LO	SAL	TEMP	CHLA	P
2014230001	12.02.2014	04:07:45	54.19	11.50	11.156			
2014230002	12.02.2014	06:12:52	54.65	12.50	11.162			
2014230003	12.02.2014	07:54:32	54.88	13.50	8.072			
2014230004	12.02.2014	09:43:21	55.29	14.50	7.664			
2014230005	12.02.2014	11:26:59	55.67	15.50	7.577			
2014230006	12.02.2014	13:04:19	55.97	16.50	7.310			
2014230007	12.02.2014	14:53:15	56.39	17.50	7.263			
2014230008	12.02.2014	15:47:51	56.60	18.00	7.063			
2014230009	12.02.2014	17:49:32	57.17	19.00	7.047			
2014230010	12.02.2014	18:56:31	57.53	19.50	6.915			
2014230011	12.02.2014	20:00:34	57.87	20.00	6.725			
2014230012	12.02.2014	21:05:05	58.21	20.50	6.618			
2014230013	12.02.2014	22:10:04	58.57	21.00	6.562			
2014230014	12.02.2014	23:14:38	58.91	21.50	6.558			
2014230015	13.02.2014	00:10:43	59.18	22.00	6.559			
2014230016	13.02.2014	00:58:02	59.37	22.50	6.406			
2014230017	13.02.2014	01:39:38	59.48	23.00	6.356			
2014230018	13.02.2014	02:19:52	59.56	23.50	6.253			
2014230019	13.02.2014	03:00:38	59.65	24.00	5.174			
2014230020	13.02.2014	03:41:32	59.75	24.50	5.110			
2014230021	13.02.2014	04:08:04	59.79	24.83	4.952			
2014230022	13.02.2014	04:46:08	60.00	25.09	4.857			
2014230023	13.02.2014	04:59:32	60.08	25.17	4.795			
2014230024	13.02.2014	05:13:12	60.15	25.21	4.695			
2014230025	20.02.2014	04:07:33	54.20	11.50	14.506			
2014230026	20.02.2014	06:14:36	54.65	12.50	12.444			
2014230027	20.02.2014	07:56:19	54.88	13.50	8.016			
2014230028	20.02.2014	09:47:47	55.28	14.50	7.751			
2014230029	20.02.2014	11:28:49	55.62	15.50	7.603			
2014230030	20.02.2014	13:08:23	55.95	16.50	7.320			
2014230031	20.02.2014	14:57:27	56.37	17.50	7.142			
2014230032	20.02.2014	15:52:44	56.60	18.00	6.846			
2014230033	20.02.2014	17:54:47	57.18	19.00	6.959			

Station Description

Validate step

Reset

+

Station number

Data type

Acquisition History

Comments

Surface sample

UT/Conversion

Time

Date

Latitude

Longitude

Bottom Depth

QC Flags

Log Info Help

Station description

1- Select the date in the file

2 - Input the date format

3 - Set

4 - Test and check

NEMO - [File C:\test_logiciels\NEMO\Finland data\input\PF_FM2014_Bottle_changed.txt]

Model Coupling Table Options ?

[File] [Cruise / Collection] Station Data Convert

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INDEX	DATE	TIME	LAT	LO	SAL	TEMP	CHLA	P
2014230001	12.02.2014	04:07:45	54.19	11.50	11.156			
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2014230003	12.02.2014	07:54:32	54.88	13.50	8.072			
2014230004	12.02.2014	09:43:21	55.29	14.50	7.664			
2014230005	12.02.2014	11:26:59	55.67	15.50	7.577			
2014230006	12.02.2014	13:04:19	55.97	16.50	7.310			
2014230007	12.02.2014	14:53:15	56.39	17.50	7.263			
2014230008	12.02.2014	15:47:51	56.60	18.00	7.063			
2014230009	12.02.2014	17:49:32	57.17	19.00	7.047			
2014230010	12.02.2014	18:56:31	57.53	19.50	6.915			
2014230011	12.02.2014	20:00:34	57.87	20.00	6.725			
2014230012	12.02.2014	21:05:05	58.21	20.50	6.618			
2014230013	12.02.2014	22:10:04	58.57	21.00	6.562			
2014230014	12.02.2014	23:14:38	58.91	21.50	6.558			
2014230015	13.02.2014	00:10:43	59.18	22.00	6.559			
2014230016	13.02.2014	00:58:02	59.37	22.50	6.406			
2014230017	13.02.2014	01:39:38	59.48	23.00	6.356			
2014230018	13.02.2014	02:19:52	59.56	23.50	6.253			
2014230019	13.02.2014	03:00:38	59.65	24.00	5.174			
2014230020	13.02.2014	03:41:32	59.75	24.50	5.110			
2014230021	13.02.2014	04:08:04	59.79	24.83	4.952			
2014230022	13.02.2014	04:46:08	60.00	25.09	4.857			
2014230023	13.02.2014	04:59:32	60.08	25.17	4.795			
2014230024	13.02.2014	05:13:12	60.15	25.21	4.695			
2014230025	20.02.2014	04:07:33	54.20	11.50	14.506			
2014230026	20.02.2014	06:14:36	54.65	12.50	12.444			
2014230027	20.02.2014	07:56:19	54.88	13.50	8.016			
2014230028	20.02.2014	09:47:47	55.28	14.50	7.751			
2014230029	20.02.2014	11:28:49	55.62	15.50	7.603			
2014230030	20.02.2014	13:08:23	55.95	16.50	7.320			
2014230031	20.02.2014	14:57:27	56.37	17.50	7.142			
2014230032	20.02.2014	15:52:44	56.60	18.00	6.846			
2014230033	20.02.2014	17:54:47	57.18	19.00	6.959			

▼ Data type
Select the data type in the list
H09 : Water bottle stations

► Acquisition History
► Comments
► Surface sample
► UT/Conversion
► Time
▼ Date
Type in here the date or indicate it's position within the file. Always choose the first station's date. You can choose your own format.

Format
DD MM YYYY 2

Manual input
Automatic input

Position
Line 4 3 Start 13 End 22
Set
Test 2014-02-12 4

► Latitude
► Longitude

Log Info Help

Station description

1- Select the LON in the file

2 - Input the LON format

3 - Set

4 - Test and check

NEMO - [File C:\test_logiciels\NEMO\Finland data\input\PF_FM2014_Bottle_changed.txt]

Model Coupling Table Options ?

[File] [Cruise / Collection] Station Data Convert

This is the file header
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INDEX	DATE	TIME	LAT	LON	SAL	TEMP	CHL A	P
2014230001	12.02.2014	04:07:45	54.19	11.50	1.156			
2014230002	12.02.2014	06:12:52	54.65	12.50	1.162			
2014230003	12.02.2014	07:54:32	54.88	13.50	8.072			
2014230004	12.02.2014	09:43:21	55.29	14.50	7.664			
2014230005	12.02.2014	11:26:59	55.67	15.50	7.577			
2014230006	12.02.2014	13:04:19	55.97	16.50	7.310			
2014230007	12.02.2014	14:53:15	56.39	17.50	7.263			
2014230008	12.02.2014	15:47:51	56.60	18.00	7.063			
2014230009	12.02.2014	17:49:32	57.17	19.00	7.047			
2014230010	12.02.2014	18:56:31	57.53	19.50	6.915			
2014230011	12.02.2014	20:00:34	57.87	20.00	6.725			
2014230012	12.02.2014	21:05:05	58.21	20.50	6.618			
2014230013	12.02.2014	22:10:04	58.57	21.00	6.562			
2014230014	12.02.2014	23:14:38	58.91	21.50	6.558			
2014230015	13.02.2014	00:10:43	59.18	22.00	6.559			
2014230016	13.02.2014	00:58:02	59.37	22.50	6.406			
2014230017	13.02.2014	01:39:38	59.48	23.00	6.356			
2014230018	13.02.2014	02:19:52	59.56	23.50	6.253			
2014230019	13.02.2014	03:00:38	59.65	24.00	5.174			
2014230020	13.02.2014	03:41:32	59.75	24.50	5.110			
2014230021	13.02.2014	04:08:04	59.79	24.83	4.952			
2014230022	13.02.2014	04:46:08	60.00	25.09	4.857			
2014230023	13.02.2014	04:59:32	60.08	25.17	4.795			
2014230024	13.02.2014	05:13:12	60.15	25.21	4.695			
2014230025	20.02.2014	04:07:33	54.20	11.50	14.506			
2014230026	20.02.2014	06:14:36	54.65	12.50	12.444			
2014230027	20.02.2014	07:56:19	54.88	13.50	8.016			
2014230028	20.02.2014	09:47:47	55.28	14.50	7.751			
2014230029	20.02.2014	11:28:49	55.62	15.50	7.603			
2014230030	20.02.2014	13:08:23	55.95	16.50	7.320			
2014230031	20.02.2014	14:57:27	56.37	17.50	7.142			
2014230032	20.02.2014	15:52:44	56.60	18.00	6.846			
2014230033	20.02.2014	17:54:47	57.18	19.00	6.959			

Type in here the latitude or indicate it's position within the file. Always choose the first station's latitude. You can choose your own format.

Format: +DD.dd

Manual input

Automatic input

Position

Line 4 Start 33 End 38

Set

Variable end of line position or variable start position

Test N54 11.40

Longitude

Type in here the longitude or indicate it's position within the file. Always choose the first station's longitude. You can choose your own format.

Format: +DD.dd

Manual input

Automatic input

Position

Line 4 Start 39 End 44

Set

Variable end of line position or variable start position

Test E011 30.00

Log Info Help

Data description

Choose the
parameter list

NEMO - [File C:\test_logiciels\NEMO\Finland data\input\PF_FM2014_Bottle_changed.txt]

Model Coupling Table Options ?

[File] [Cruise / Collection] [Station] Data Convert

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It appears only once at the beginning of this multistations files

INDEX	DATE	TIME	LAT	LO	SAL	TEMP	CHLA	P04	NO3	NO2	SI04	PTOT
2014230001	12.02.2014	04:07:45	54.19	11.50	11.156	1.789						
2014230002	12.02.2014	06:12:52	54.65	12.50	11.162	1.871						
2014230003	12.02.2014	07:54:32	54.88	13.50	8.072	2.647						
2014230004	12.02.2014	09:43:21	55.29	14.50	7.664	2.428						
2014230005	12.02.2014	11:26:59	55.67	15.50	7.577	3.335						
2014230006	12.02.2014	13:04:19	55.97	16.50	7.310	2.915						
2014230007	12.02.2014	14:53:15	56.39	17.50	7.263	2.599						
2014230008	12.02.2014	15:47:51	56.60	18.00	7.063	2.692						
2014230009	12.02.2014	17:49:32	57.17	19.00	7.047	2.407						
2014230010	12.02.2014	18:56:31	57.53	19.50	6.915	2.611						
2014230011	12.02.2014	20:00:34	57.87	20.00	6.725	2.836						
2014230012	12.02.2014	21:05:05	58.21	20.50	6.618	2.902						
2014230013	12.02.2014	22:10:04	58.57	21.00	6.562	2.864						

Parameters list

☐ P09

☐ P01 via P09

☒ P01 via P02

Data Description

Validate step

Reset

Parameters list

☐ P09

☐ P01 via P09

☐ P01 via P02

Measured

☒ below sea surface

☐ below sea bed

☐ above sea level

Vertical References

depth below sea surface

depth below sea bed

pressure

height above sea level

fall rate

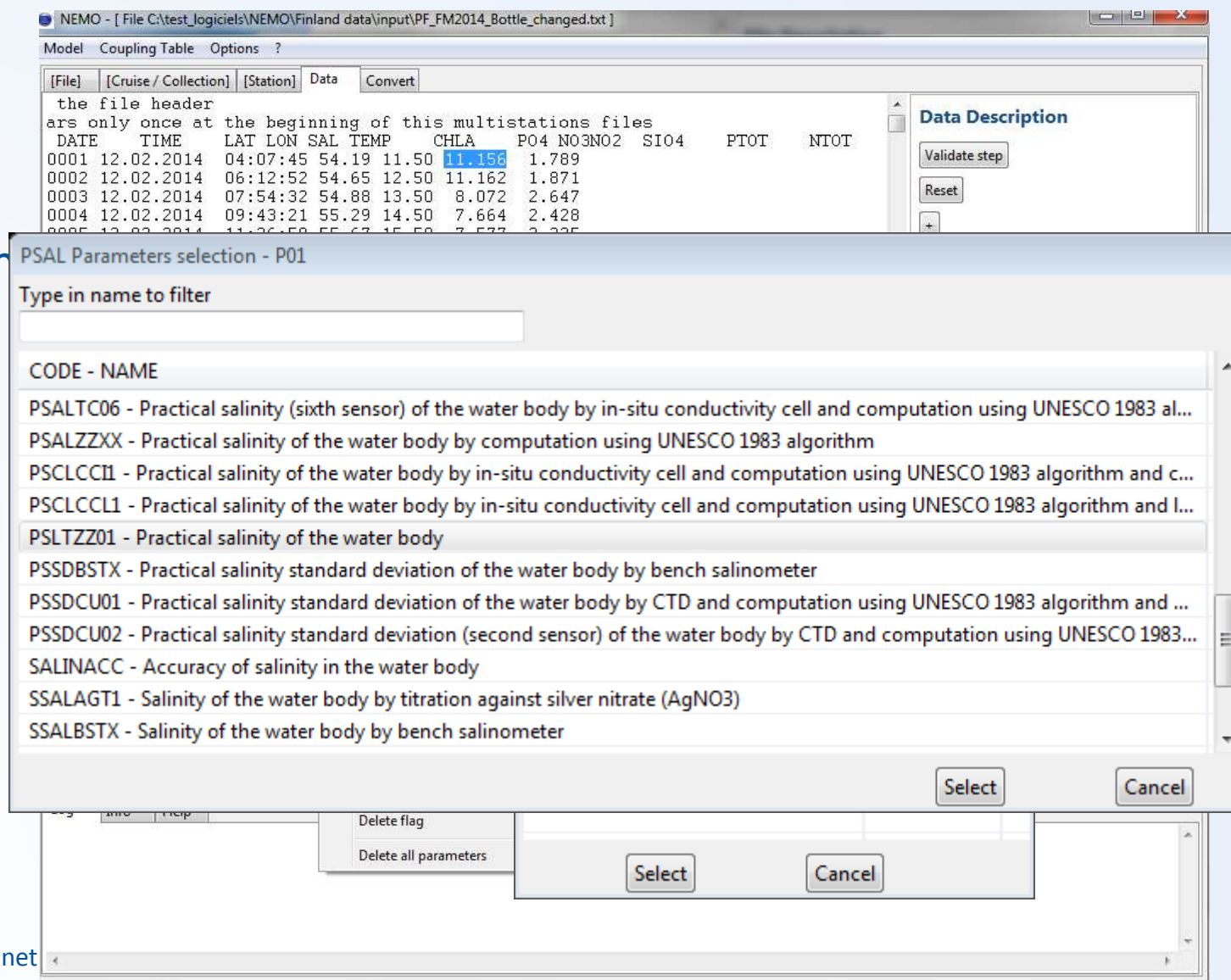
select

Log Info Help

Data description

Choose the
parameter list

Give the code



The screenshot shows the NEMO software interface. The main window displays a data table with columns: DATE, TIME, LAT, LON, SAL, TEMP, CHLA, PO4, NO3NO2, SI04, PTOT, and NTOT. The data is for a cruise in February 2014. A 'Data Description' panel on the right shows a 'Validate step' button. A 'PSAL Parameters selection - P01' dialog box is open, showing a list of parameters with their descriptions. The 'PSALZZXX' parameter is selected. The dialog box has a 'Type in name to filter' field and 'Select' and 'Cancel' buttons. Below the dialog box, there are buttons for 'Delete flag', 'Delete all parameters', 'Select', and 'Cancel'.

DATE	TIME	LAT	Lon	SAL	TEMP	CHLA	PO4	NO3NO2	SI04	PTOT	NTOT
0001	12.02.2014	04:07:45	54.19	11.50	11.156	1.789					
0002	12.02.2014	06:12:52	54.65	12.50	11.162	1.871					
0003	12.02.2014	07:54:32	54.88	13.50	8.072	2.647					
0004	12.02.2014	09:43:21	55.29	14.50	7.664	2.428					
0005	12.02.2014	11:26:58	55.67	15.50	7.537	2.325					

PSAL Parameters selection - P01

Type in name to filter

CODE - NAME

- PSALTC06 - Practical salinity (sixth sensor) of the water body by in-situ conductivity cell and computation using UNESCO 1983 al...
- PSALZZXX - Practical salinity of the water body by computation using UNESCO 1983 algorithm
- PSCLCC11 - Practical salinity of the water body by in-situ conductivity cell and computation using UNESCO 1983 algorithm and c...
- PSCLCC11 - Practical salinity of the water body by in-situ conductivity cell and computation using UNESCO 1983 algorithm and l...
- PSLTZZ01 - Practical salinity of the water body
- PSSDBSTX - Practical salinity standard deviation of the water body by bench salinometer
- PSSDCU01 - Practical salinity standard deviation of the water body by CTD and computation using UNESCO 1983 algorithm and ...
- PSSDCU02 - Practical salinity standard deviation (second sensor) of the water body by CTD and computation using UNESCO 1983...
- SALINACC - Accuracy of salinity in the water body
- SSALAGT1 - Salinity of the water body by titration against silver nitrate (AgNO3)
- SSALBSTX - Salinity of the water body by bench salinometer

Select Cancel

Delete flag
Delete all parameters

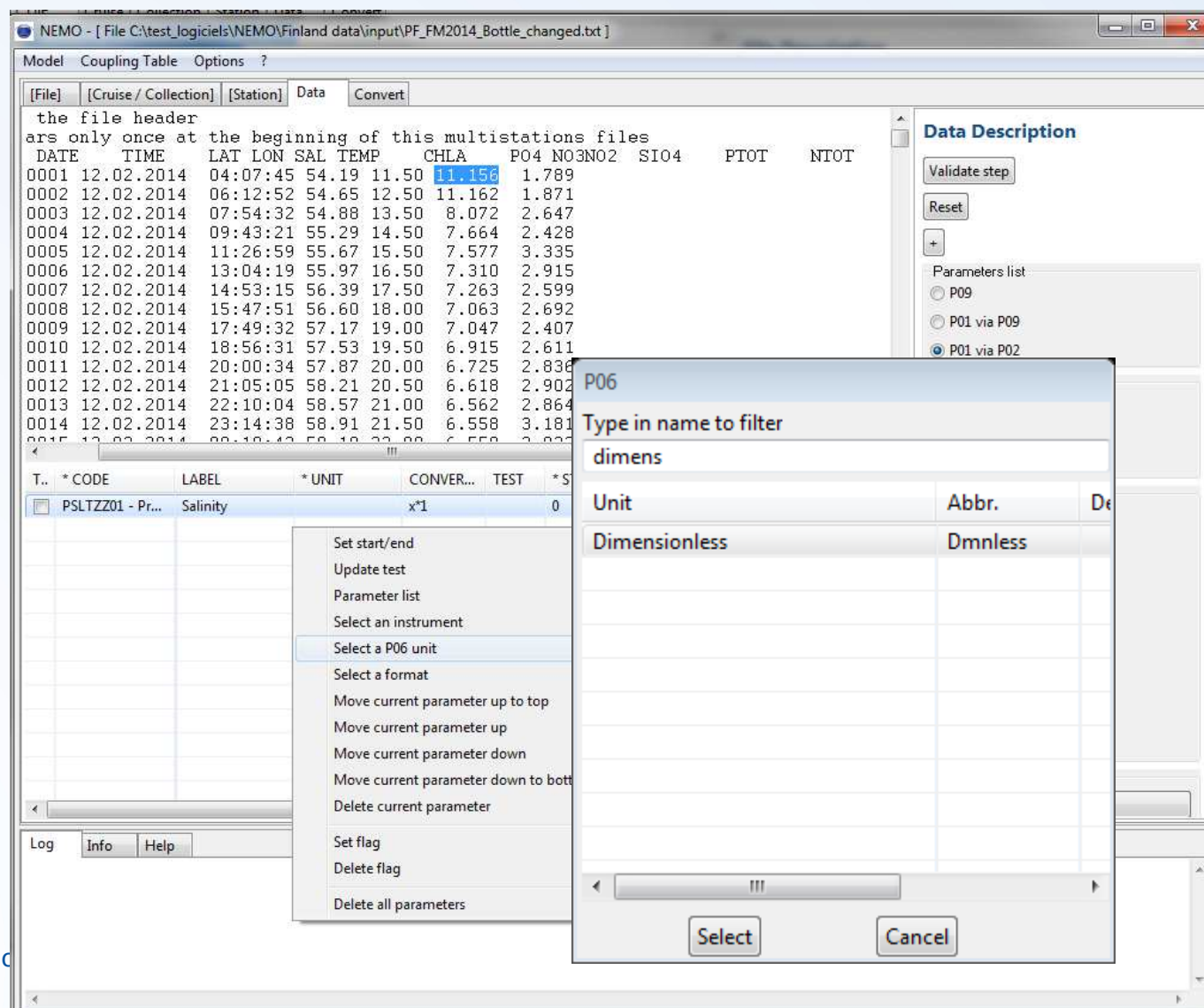
Select Cancel

Data description

Choose the
parameter list

Give the code,
the unit

sdn-userdesk@seadatanet.c



The screenshot shows the NEMO software interface with the 'Data Description' window open. The main window displays a table of data points with columns for DATE, TIME, LAT, LON, SAL, TEMP, CHLA, P04, NO3NO2, SIO4, PTOT, and NTOT. The 'Data Description' window on the right has a 'Validate step' button and a 'Parameters list' section with radio buttons for P09, P01 via P09, and P01 via P02. A context menu is open over the 'PSLTZZ01 - Pr...' parameter, showing options like 'Set start/end', 'Update test', 'Parameter list', 'Select an instrument', 'Select a P06 unit', 'Select a format', 'Move current parameter up to top', 'Move current parameter up', 'Move current parameter down', 'Move current parameter down to bottom', 'Delete current parameter', 'Set flag', 'Delete flag', and 'Delete all parameters'. A 'P06' dialog box is also open, prompting the user to 'Type in name to filter' and showing a table with columns for Unit, Abbr., and Dimensionless, with 'Dimensionless' and 'Dmless' listed.

DATE	TIME	LAT	LON	SAL	TEMP	CHLA	P04	NO3NO2	SIO4	PTOT	NTOT
0001	12.02.2014	04:07:45	54.19	11.50	11.156	1.789					
0002	12.02.2014	06:12:52	54.65	12.50	11.162	1.871					
0003	12.02.2014	07:54:32	54.88	13.50	8.072	2.647					
0004	12.02.2014	09:43:21	55.29	14.50	7.664	2.428					
0005	12.02.2014	11:26:59	55.67	15.50	7.577	3.335					
0006	12.02.2014	13:04:19	55.97	16.50	7.310	2.915					
0007	12.02.2014	14:53:15	56.39	17.50	7.263	2.599					
0008	12.02.2014	15:47:51	56.60	18.00	7.063	2.692					
0009	12.02.2014	17:49:32	57.17	19.00	7.047	2.407					
0010	12.02.2014	18:56:31	57.53	19.50	6.915	2.611					
0011	12.02.2014	20:00:34	57.87	20.00	6.725	2.838					
0012	12.02.2014	21:05:05	58.21	20.50	6.618	2.902					
0013	12.02.2014	22:10:04	58.57	21.00	6.562	2.864					
0014	12.02.2014	23:14:38	58.91	21.50	6.558	3.181					

T..	* CODE	LABEL	* UNIT	CONVER...	TEST	* S
	PSLTZZ01 - Pr...	Salinity		x*1		0

Unit	Abbr.	De
Dimensionless	Dmless	

Data description

Choose the
parameter list

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

NEMO - [File C:\test_logiciels\NEMO\Finland data\input\PF_FM2014_Bottle_changed.bt]

Model Coupling Table Options ?

[File] [Cruise / Collection] [Station] Data Convert

This is the file header
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INDEX	DATE	TIME	LAT	LONG	SAL	TEMP	CHLA	P04	NO3	NO2	SI04	PTOT
2014230001	12.02.2014	04:07:45	54.19	11.50	11.156	1.789						
2014230002	12.02.2014	06:12:52	54.65	12.50	11.162	1.871						
2014230003	12.02.2014	07:54:32	54.88	13.50	8.072	2.647						
2014230004	12.02.2014	09:43:21	55.29	14.50	7.664	2.428						
2014230005	12.02.2014	11:26:59	55.67	15.50	7.577	3.335						
2014230006	12.02.2014	13:04:19	55.97	16.50	7.310	2.915						
2014230007	12.02.2014	14:53:15	56.39	17.50	7.263	2.599						
2014230008	12.02.2014	15:47:51	56.60	18.00	7.063	2.692						
2014230009	12.02.2014	17:49:32	57.17	19.00	7.047	2.407						
2014230010	12.02.2014	18:56:31	57.53	19.50	6.915	2.611						
2014230011	12.02.2014	20:00:34	57.87	20.00	6.725	2.836						
2014230012	12.02.2014	21:05:05	58.21	20.50	6.618	2.902						
2014230013	12.02.2014	22:10:04	58.57	21.00	6.562	2.864						
2014230014	12.02.2014	23:14:38	58.91	21.50	6.558	3.181						

T..	* CODE	LABEL	* UNIT	CONVER...	TEST	* STA...	* END	* FORMAT	INPU...	TEST ...	TEST
<input type="checkbox"/>	PSLTZZ01 - Pr...	Salinity	Dimensionless	x*1		46	51				

Data Description

Validate step

Reset

Parameters list

☐ P09

☐ P01 via P09

☒ P01 via P02

Measured

☒ below sea surface

☐ below sea bed

☐ above sea level

Vertical References

depth below sea surface

depth below sea bed

pressure

height above sea level

fall rate

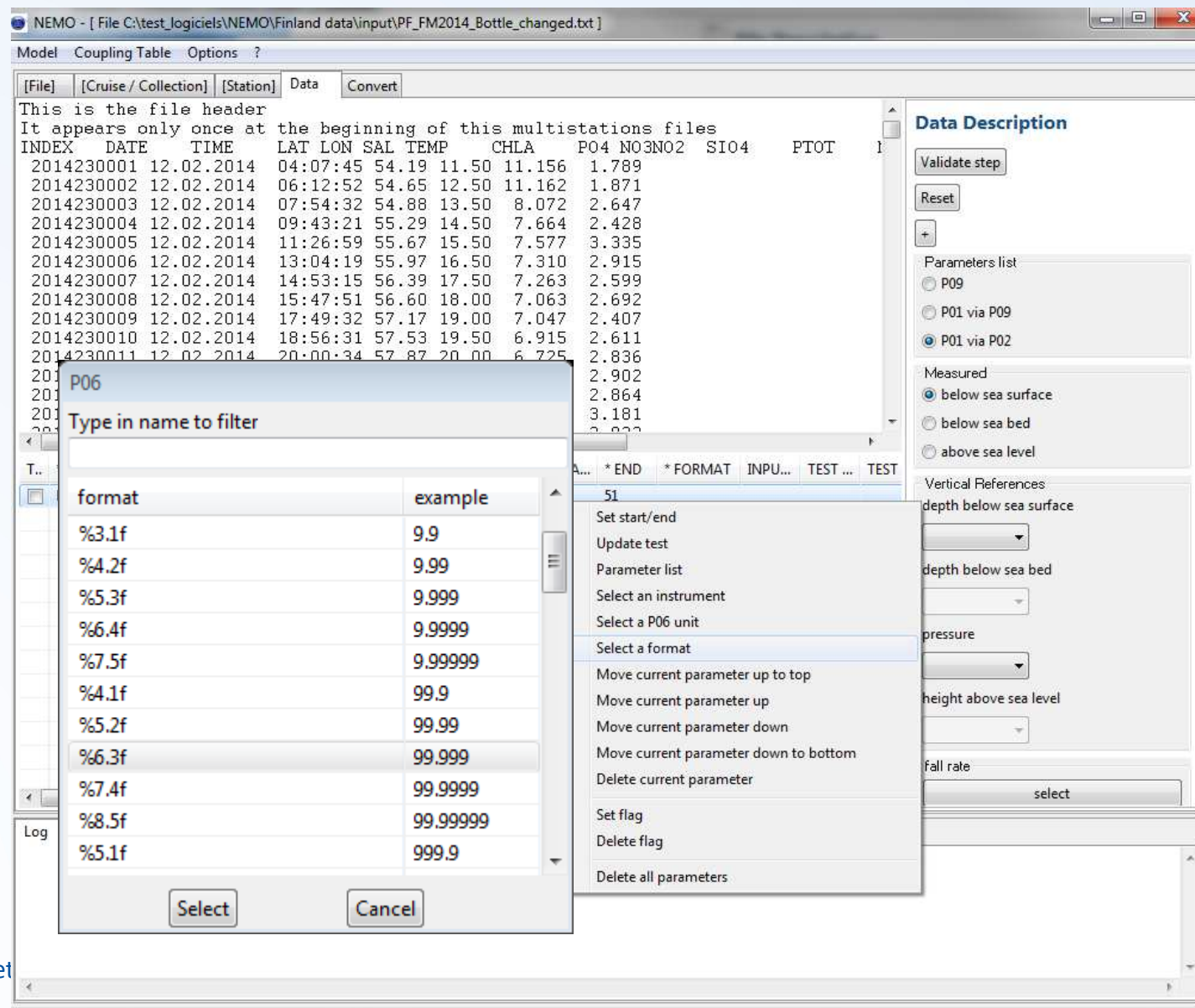
select

Log Info Help

Data description

Choose the
parameter list

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



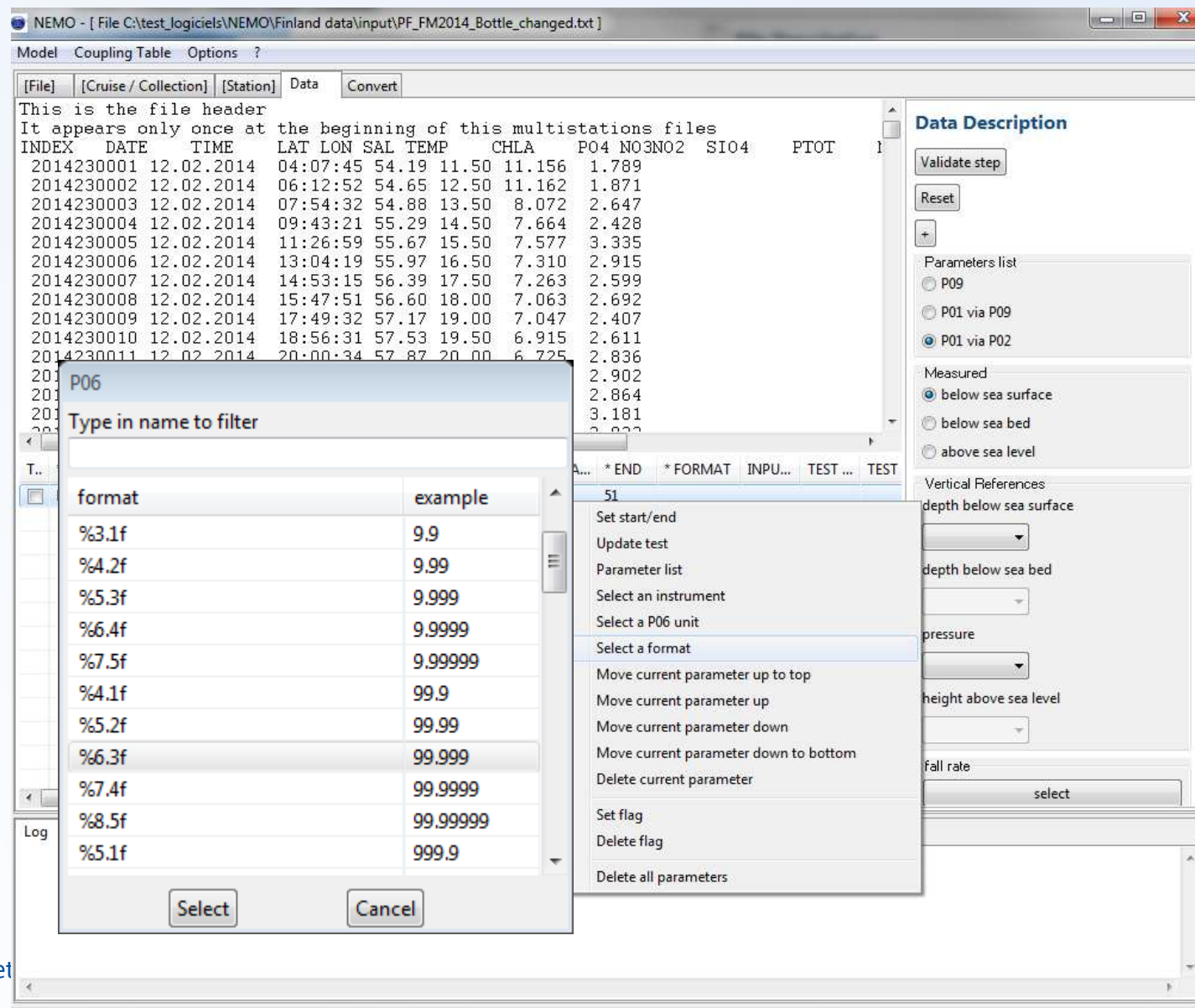
The screenshot shows the NEMO software interface with the 'Data' tab selected. The main window displays a file header and a table of data. A 'Data Description' panel on the right shows the 'Parameters list' with 'P01 via P02' selected. A 'P06' dialog box is open, showing a table of format codes and examples. A context menu is also visible over the data table.

format	example
%3.1f	9.9
%4.2f	9.99
%5.3f	9.999
%6.4f	9.9999
%7.5f	9.99999
%4.1f	99.9
%5.2f	99.99
%6.3f	99.999
%7.4f	99.9999
%8.5f	99.99999
%5.1f	999.9

Data description

Choose the
parameter list

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



The screenshot shows the NEMO software interface with the 'Data' tab selected. A 'Data Description' panel on the right lists parameters like P09, P01 via P09, and P01 via P02. A 'Parameters list' section shows 'P06' selected. A 'Measured' section shows 'below sea surface' selected. A 'Vertical References' section shows 'depth below sea surface' selected. A 'Log' panel at the bottom shows the file header and data table.

The file header is:

```

This is the file header
It appears only once at the beginning of this multistations files
INDEX  DATE      TIME      LAT  LON  SAL  TEMP  CHLA  P04  NO3NO2  SIO4  PTOT  1
2014230001 12.02.2014 04:07:45 54.19 11.50 11.156 1.789
2014230002 12.02.2014 06:12:52 54.65 12.50 11.162 1.871
2014230003 12.02.2014 07:54:32 54.88 13.50 8.072 2.647
2014230004 12.02.2014 09:43:21 55.29 14.50 7.664 2.428
2014230005 12.02.2014 11:26:59 55.67 15.50 7.577 3.335
2014230006 12.02.2014 13:04:19 55.97 16.50 7.310 2.915
2014230007 12.02.2014 14:53:15 56.39 17.50 7.263 2.599
2014230008 12.02.2014 15:47:51 56.60 18.00 7.063 2.692
2014230009 12.02.2014 17:49:32 57.17 19.00 7.047 2.407
2014230010 12.02.2014 18:56:31 57.53 19.50 6.915 2.611
2014230011 12.02.2014 20:00:34 57.87 20.00 6.725 2.836
2014230012 12.02.2014 20:00:34 57.87 20.00 6.725 2.902
2014230013 12.02.2014 20:00:34 57.87 20.00 6.725 2.864
2014230014 12.02.2014 20:00:34 57.87 20.00 6.725 3.181
2014230015 12.02.2014 20:00:34 57.87 20.00 6.725 3.222
  
```

The 'Data Description' panel shows the following options:

- Parameters list: P09, P01 via P09, P01 via P02 (selected)
- Measured: below sea surface (selected), below sea bed, above sea level
- Vertical References: depth below sea surface (selected), depth below sea bed, pressure, height above sea level, fall rate

The 'Log' panel shows the file header and data table. A 'P06' dialog box is open, showing a table of format codes and examples:

format	example
%3.1f	9.9
%4.2f	9.99
%5.3f	9.999
%6.4f	9.9999
%7.5f	9.99999
%4.1f	99.9
%5.2f	99.99
%6.3f	99.999
%7.4f	99.9999
%8.5f	99.99999
%5.1f	999.9

The 'P06' dialog box also has a 'Select' button and a 'Cancel' button.



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)

NEMO - [File C:\test_logiciels\NEMO\Finland data\input\PF_FM2014_Bottle_changed.bt]

Model Coupling Table Options ?

[File] [Cruise / Collection] [Station] Data Convert

This is the file header
It appears only once at the beginning of this multistations files

INDEX	DATE	TIME	LAT	LO	SAL	TEMP	CHLA	PO4	NO3	NO2	SI04	PTOT
2014230001	12.02.2014	04:07:45	54.19	11.50	11.156	1.789						
2014230002	12.02.2014	06:12:52	54.65	12.50	11.162	1.871						
2014230003	12.02.2014	07:54:32	54.88	13.50	8.072	2.647						
2014230004	12.02.2014	09:43:21	55.29	14.50	7.664	2.428						
2014230005	12.02.2014	11:26:59	55.67	15.50	7.577	3.335						
2014230006	12.02.2014	13:04:19	55.97	16.50	7.310	2.915						
2014230007	12.02.2014	14:53:15	56.39	17.50	7.263	2.599						
2014230008	12.02.2014	15:47:51	56.60	18.00	7.063	2.692						
2014230009	12.02.2014	17:49:32	57.17	19.00	7.047	2.407						
2014230010	12.02.2014	18:56:31	57.53	19.50	6.915	2.611						
2014230011	12.02.2014	20:00:34	57.87	20.00	6.725	2.836						
2014230012	12.02.2014	21:05:05	58.21	20.50	6.618	2.902						
2014230013	12.02.2014	22:10:04	58.57	21.00	6.562	2.864						
2014230014	12.02.2014	23:14:38	58.91	21.50	6.558	3.181						
2014230015	12.02.2014	00:18:43	59.18	22.00	6.558	3.822						

Parameters list

☐ P09

☐ P01 via P09

☒ P01 via P02

Measured

☒ below sea surface

☐ below sea bed

☐ above sea level

Vertical References

depth below sea surface

depth below sea bed

pressure

height above sea level

fall rate

select

T..	*CODE	LABEL	*UNIT	CONVER..	TEST	*STA...	*END	*FORMAT	INPU...	TEST ...	TEST
<input type="checkbox"/>	PSLTZZ01 - Pr...	Salinity	Dimensionless	x*1	11,156	46	51	%6.3f			

Log Info Help



Data description

Add all the
measured
parameters

Validate the step

Error!!

Depth missing

sdn-userdesk@seadata

NEMO - [File C:\test_logiciels\NEMO\Finland data\input\PF_FM2014_Bottle_changed.bt]

Model Coupling Table Options ?

[File] [Cruise / Collection] [Station] *** Data *** Convert

der
at the beginning of this multistations files

	LAT	Lon	SAL	TEMP	CHLA	PO4	NO3NO2	SI04	PTOT	NTOT
14	04:07:45	54.19	11.50	11.156	1.789					
14	06:12:52	54.65	12.50	11.162	1.871					
14	07:54:32	54.88	13.50	8.072	2.647					
14	09:43:21	55.29	14.50	7.664	2.428					
14	11:26:59	55.67	15.50	7.577	3.335					
14	13:04:19	55.97	16.50	7.310	2.915					
14	14:53:15	56.39	17.50	7.263	2.599					
14	15:47:51	56.60	18.00	7.063	2.692					
14	17:49:32	57.17	19.00	7.047	2.407					
14	18:56:31	57.53	19.50	6.915	2.611					
14	20:00:34	57.87	20.00	6.725	2.836					
14	21:05:05	58.21	20.50	6.618	2.902					
14	22:10:04	58.57	21.00	6.562	2.864					
14	23:14:38	58.91	21.50	6.558	3.181					
14	00:10:40	59.10	22.00	6.550	3.000					

T..	* CODE	LABEL	* UNIT	CONVER...	TEST	* STA...	* END	* FORMAT	INPU...	TEST ...	TEST
<input type="checkbox"/>	PSLTZZ01 - Pr...	Salinity	Dimensionless	x*1	11,156	46	51	%6.3f			
<input type="checkbox"/>	TEMPPR01 - T...	Temperature	Degrees Cels...	x*1	1,789	53	58	%6.3f			
<input type="checkbox"/>	CPHLZZXX - C...	Chlorophylle	Millilitres pe...	x*1		60	64	%5.2f			
<input type="checkbox"/>	PHOSZZXX - ...	PO4	Micromoles ...	x*1		66	69	%4.2f			
<input type="checkbox"/>	NTRZZXX - C...	NO3NO2	Micromoles ...	x*1		71	75	%5.2f			
<input type="checkbox"/>	SLCAZZXX - C...	SI04	Micromoles ...	x*1		77	81	%5.2f			

Data Description

Validate step

Reset

Parameters list

☐ P09

☐ P01 via P09

☒ P01 via P02

Measured

☒ below sea surface

☐ below sea bed

☐ above sea level

Vertical References

depth below sea surface

depth below sea bed

pressure

height above sea level

fall rate

select

Log Info Help

Error: You must select depth below sea surface or pressure reference (AHGT / AHGT)



Data description

Add depth = 0
(surface)

Validate the step

Error!!

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

sdn-userdesk@seadatanet

NEMO - [File C:\test_logiciels\NEMO\Finland data\input\PF_FM2014_Bottle_changed.txt]

Model Coupling Table Options ?

[File] [Cruise / Collection] [Station] *** Data *** Convert

This is the file header
It appears only once at the beginning of this multistations files

INDEX	DATE	TIME	LAT	LON	SAL	TEMP	CHLA	PO4	NO3NO2	SIO4	PTOT
2014230001	12.02.2014	04:07:45	54.19	11.50	11.156	1.789					
2014230002	12.02.2014	06:12:52	54.65	12.50	11.162	1.871					
2014230003	12.02.2014	07:54:32	54.88	13.50	8.072	2.647					
2014230004	12.02.2014	09:43:21	55.29	14.50	7.664	2.428					
2014230005	12.02.2014	11:26:59	55.67	15.50	7.577	3.335					
2014230006	12.02.2014	13:04:19	55.97	16.50	7.310	2.915					
2014230007	12.02.2014	14:53:15	56.39	17.50	7.263	2.599					
2014230008	12.02.2014	15:47:51	56.60	18.00	7.063	2.692					
2014230009	12.02.2014	17:49:32	57.17	19.00	7.047	2.407					
2014230010	12.02.2014	18:56:31	57.53	19.50	6.915	2.611					
2014230011	12.02.2014	20:00:34	57.87	20.00	6.725	2.836					
2014230012	12.02.2014	21:05:05	58.21	20.50	6.618	2.902					
2014230013	12.02.2014	22:10:04	58.57	21.00	6.562	2.864					
2014230014	12.02.2014	23:14:38	58.91	21.50	6.558	3.181					

T..	* CODE	LABEL	* UNIT	CONVER...	TEST	* STA...	* END	* FORMAT	INPU...	TEST ...	TEST
<input type="checkbox"/>	PSLTZZ01 - Pr...	Salinity	Dimensionless	x*1	11,156	46	51	%6.3f			
<input type="checkbox"/>	TEMPPR01 - T...	Temperature	Degrees Cels...	x*1	1,789	53	58	%6.3f			
<input type="checkbox"/>	CPHLZZXX - C...	Chlorophyll	Millilitres pe...	x*1		60	64	%5.2f			
<input type="checkbox"/>	PHOSZZXX - ...	PO4	Micromoles ...	x*1		66	69	%4.2f			
<input type="checkbox"/>	NTRZZXX - C...	NO3NO2	Micromoles ...	x*1		71	75	%5.2f			
<input type="checkbox"/>	SLCAZZXX - C...	SIO4	Micromoles ...	x*1		77	81	%5.2f			
<input checked="" type="checkbox"/>	ADEPZZ01 - D...	Depth	Metres	x*1	0,0	8	8	%3.1f			

Data Description

Validate step

Reset

Parameters list

☐ P09

☐ P01 via P09

☒ P01 via P02

Measured

☒ below sea surface

☐ below sea bed

☐ above sea level

Vertical References

depth below sea surface

ADEPZZ01

depth below sea bed

pressure

height above sea level

fall rate

select

Log Info Help

Error: Parameter depth below sea surface or pressure must be the first in the measured parameter list, please move it up in the list (data60)



Data description

Add depth = 0
(surface)

Validate the step

Error!!

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

sdn-userdesk@seadatanet

NEMO - [File C:\test_logiciels\NEMO\Finland data\input\PF_FM2014_Bottle_changed.txt]

Model Coupling Table Options ?

[File] [Cruise / Collection] [Station] [Data] [Convert]

This is the file header
It appears only once at the beginning of this multistations files

INDEX	DATE	TIME	LAT	Lon	SAL	TEMP	CHLA	PO4	NO3NO2	SiO4	PTOT
2014230001	12.02.2014	04:07:45	54.19	11.50	11.156	1.789					
2014230002	12.02.2014	06:12:52	54.65	12.50	11.162	1.871					
2014230003	12.02.2014	07:54:32	54.88	13.50	8.072	2.647					
2014230004	12.02.2014	09:43:21	55.29	14.50	7.664	2.428					
2014230005	12.02.2014	11:26:59	55.67	15.50	7.577	3.335					
2014230006	12.02.2014	13:04:19	55.97	16.50	7.310	2.915					
2014230007	12.02.2014	14:53:15	56.39	17.50	7.263	2.599					
2014230008	12.02.2014	15:47:51	56.60	18.00	7.063	2.692					
2014230009	12.02.2014	17:49:32	57.17	19.00	7.047	2.407					
2014230010	12.02.2014	18:56:31	57.53	19.50	6.915	2.611					
2014230011	12.02.2014	20:00:34	57.87	20.00	6.725	2.836					
2014230012	12.02.2014	21:05:05	58.21	20.50	6.618	2.902					
2014230013	12.02.2014	22:10:04	58.57	21.00	6.562	2.864					
2014230014	12.02.2014	23:14:38	58.91	21.50	6.558	3.181					

T...	* CODE	LABEL	* UNIT	CONVER...	TEST	* STA...	* END	* FORMAT	INPU...	TEST ...	TEST
<input type="checkbox"/>	ADEPZZ01 - D...	Depth	Metres	x*1	0,0	8	8	%3.1f			
<input type="checkbox"/>	PSLTZZ01 - Pr...	Salinity	Dimensionless	x*1	11,156	46	51	%6.3f			
<input type="checkbox"/>	TEMPPR01 - T...	Temperature	Degrees Cels...	x*1	1,789	53	58	%6.3f			
<input type="checkbox"/>	CPHLZZXX - C...	Chlorophyll	Millilitres pe...	x*1		60	64	%5.2f			
<input type="checkbox"/>	PHOSZZXX - ...	PO4	Micromoles ...	x*1		66	69	%4.2f			
<input type="checkbox"/>	NTRZZXX - C...	NO3NO2	Micromoles ...	x*1		71	75	%5.2f			
<input type="checkbox"/>	SLCAZZXX - C...	SiO4	Micromoles ...	x*1		77	81	%5.2f			

Data Description

Validate step

Reset

Parameters list

☐ P09

☐ P01 via P09

☒ P01 via P02

Measured

☒ below sea surface

☐ below sea bed

☐ above sea level

Vertical References

depth below sea surface

ADEPZZ01

depth below sea bed

pressure

height above sea level

fall rate

select

Log Info Help

Step validated, you can proceed to next one!



Data description

Save the model

Using Menu –
Model > Save

NEMO [File C:\test_logiciels\NEMO\Finland data\input\PF_FM2014_Bottle_changed.txt]

Model Coupling Table Options ?

[File] [Cruise / Collection] [Station] [Data] Convert

This is the file header
It appears only once at the beginning of this multistations files

INDEX	DATE	TIME	LAT	Lon	SAL	TEMP	CHLA	PO4	NO3NO2	SI04	PTOT
2014230001	12.02.2014	04:07:45	54.19	11.50	11.156	1.789					
2014230002	12.02.2014	06:12:52	54.65	12.50	11.162	1.871					
2014230003	12.02.2014	07:54:32	54.88	13.50	8.072	2.647					
2014230004	12.02.2014	09:43:21	55.29	14.50	7.664	2.428					
2014230005	12.02.2014	11:26:59	55.67	15.50	7.577	3.335					
2014230006	12.02.2014	13:04:19	55.97	16.50	7.310	2.915					
2014230007	12.02.2014	14:53:15	56.39	17.50	7.263	2.599					
2014230008	12.02.2014	15:47:51	56.60	18.00	7.063	2.692					
2014230009	12.02.2014	17:49:32	57.17	19.00	7.047	2.407					
2014230010	12.02.2014	18:56:31	57.53	19.50	6.915	2.611					
2014230011	12.02.2014	20:00:34	57.87	20.00	6.725	2.836					
2014230012	12.02.2014	21:05:05	58.21	20.50	6.618	2.902					
2014230013	12.02.2014	22:10:04	58.57	21.00	6.562	2.864					
2014230014	12.02.2014	23:14:38	58.91	21.50	6.558	3.181					
2014230015	12.02.2014	00:18:43	59.10	22.00	6.550	3.020					

T...	* CODE	LABEL	* UNIT	CONVER...	TEST	* STA...	* END	* FORMAT	INPU...	TEST ...	TEST
<input type="checkbox"/>	ADEPZZ01 - D...	Depth	Metres	x*1	0,0	8	8	%3.1f			
<input type="checkbox"/>	PSLTZZ01 - Pr...	Salinity	Dimensionless	x*1	11,156	46	51	%6.3f			
<input type="checkbox"/>	TEMPPR01 - T...	Temperature	Degrees Cels...	x*1	1,789	53	58	%6.3f			
<input type="checkbox"/>	CPHLZZXX - C...	Chlorophyll	Millilitres pe...	x*1		60	64	%5.2f			
<input type="checkbox"/>	PHOSZZXX - ...	PO4	Micromoles ...	x*1		66	69	%4.2f			
<input type="checkbox"/>	NTRZZZZX - C...	NO3NO2	Micromoles ...	x*1		71	75	%5.2f			
<input type="checkbox"/>	SLCAZZXX - C...	SI04	Micromoles ...	x*1		77	81	%5.2f			

Data Description

Validate step

Reset

Parameters list

☐ P09

☐ P01 via P09

☒ P01 via P02

Measured

☒ below sea surface

☐ below sea bed

☐ above sea level

Vertical References

depth below sea surface

ADEPZZ01

depth below sea bed

pressure

height above sea level

fall rate

select

Log Info Help

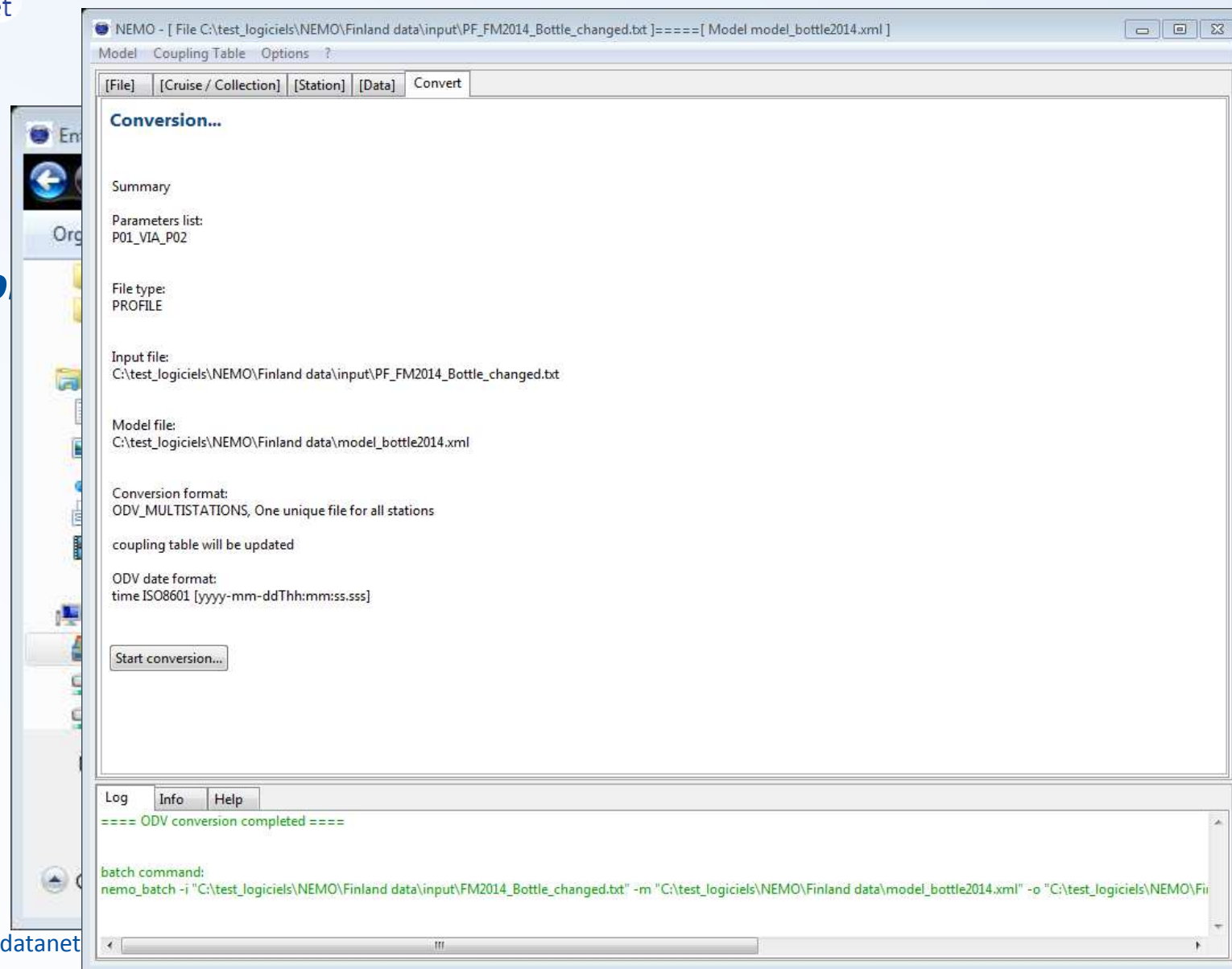
Step validated, you can proceed to next one!



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



File conversion





Non numeric parameters

For sediment description
in Sediment Core

NEMO - [File C:\test_logiciels\NEMO\Jeux test SVN\10755_Carottes_avecTexte\PF_input]===== [Model model.xml]

Model Coupling Table Options ?

[File]	[Cruise / Collection]	[Station]	Data	Convert
Cruise	Station	Type	yyyy-mm-ddThh:mm:ss.sss	Longitude [degrees_east]
Loeddig_Lake_stratig	1	B	11.8500 53.433 0.075	1 0.000 1 0.15
0.370	1	0.150	1 0.590	1 gravel 1
0.795	1	0.590	1 1.000	1 sand 1
1.260	1	1.000	1 1.520	1 slightly gravelly sand 1
1.710	1	1.520	1 1.900	1 slightly gravelly mud 1
2.350	1	1.900	1 2.800	1 muddy sand gravel 1
3.065	1	2.800	1 3.330	8 muddy sand 1
3.340	1	3.330	1 3.350	1 muddy gravel 0
3.675	1	3.675	1 4.760	0 muddy sand 8
6.375	1	4.000	1 8.750	1 muddy gravel 1
8.800	1	8.750	1 8.850	1 gravelly sand 1
8.925	1	8.850	1 9.000	1 gravel 1
9.375	1	9.000	1 9.750	1 mud... 1
9.800	1	9.750	1 9.850	1 gravelly mud 1
9.970	1	9.850	1 10.090	1 mud 1
10.270	1	10.090	1 10.450	1 slightly sandy mud 1

T.. * CODE LABEL * UNIT CONVER... TEST * STA... * END * FORMAT INPU... TEST ... TEST

<input type="checkbox"/>	COREDIST - D...	Depth	meter	x*1	0,4	13	18	%6.1f			
<input checked="" type="checkbox"/>	ABCRHPP1 - ...	Lithology			gravel	43	69				

Data Description

Validate step

Reset

Parameters list

☐ P09

☒ P01 via P09

☐ P01 via P02

Measured

☐ below sea surface

☒ below sea bed

☐ above sea level

Vertical References

depth below sea surface

fall rate

select

Log Info Help

Compatible with ODV

Other additional information

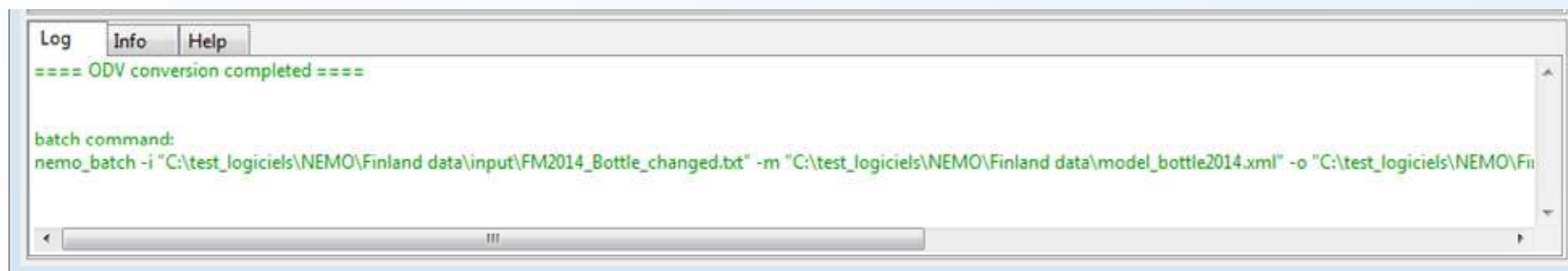
- **Instrument** used for the measured parameters can be added
- **Quality flags** already existing in the file => if not SeaDataNet flag, mapping is necessary

T..	* CODE	LABEL	* UNIT	CONVER...	TEST	* STA...	* END	* FORMAT	INPU...	TEST (INPUT)	TEST (OUTPUT)	START FLAG	END FLAG	INSTRUMENT
<input type="checkbox"/>	ADEPZZ01 - D...	Depth	Metres	x*1	0,0	8	8	%3.1f						
<input type="checkbox"/>	PSLTZZ01 - Pr...	Salinity	Dimensionless	x*1	11,156	46	51	%6.3f						
<input type="checkbox"/>	TEMPPR01 - T...	Temperature	Degrees Cels...	x*1	1,789	53	58	%6.3f						
<input type="checkbox"/>	CPHLZZXX - C...	Chlorophylle	Millilitres pe...	x*1		60	64	%5.2f						
<input type="checkbox"/>	PHOSZZXX - ...	PO4	Micromoles ...	x*1		66	69	%4.2f						
<input type="checkbox"/>	NTRZZXX - C...	NO3NO2	Micromoles ...	x*1		71	75	%5.2f						
<input type="checkbox"/>	SLCAZZXX - C...	SI04	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



The screenshot shows a command window with a title bar containing "Log", "Info", and "Help" buttons. The window displays the following text:

```
==== ODV conversion completed ====
```

batch command:

```
nemo_batch -i "C:\test_logiciels\NEMO\Finland data\input\FM2014_Bottle_changed.txt" -m "C:\test_logiciels\NEMO\Finland data\model_bottle2014.xml" -o "C:\test_logiciels\NEMO\Fi
```

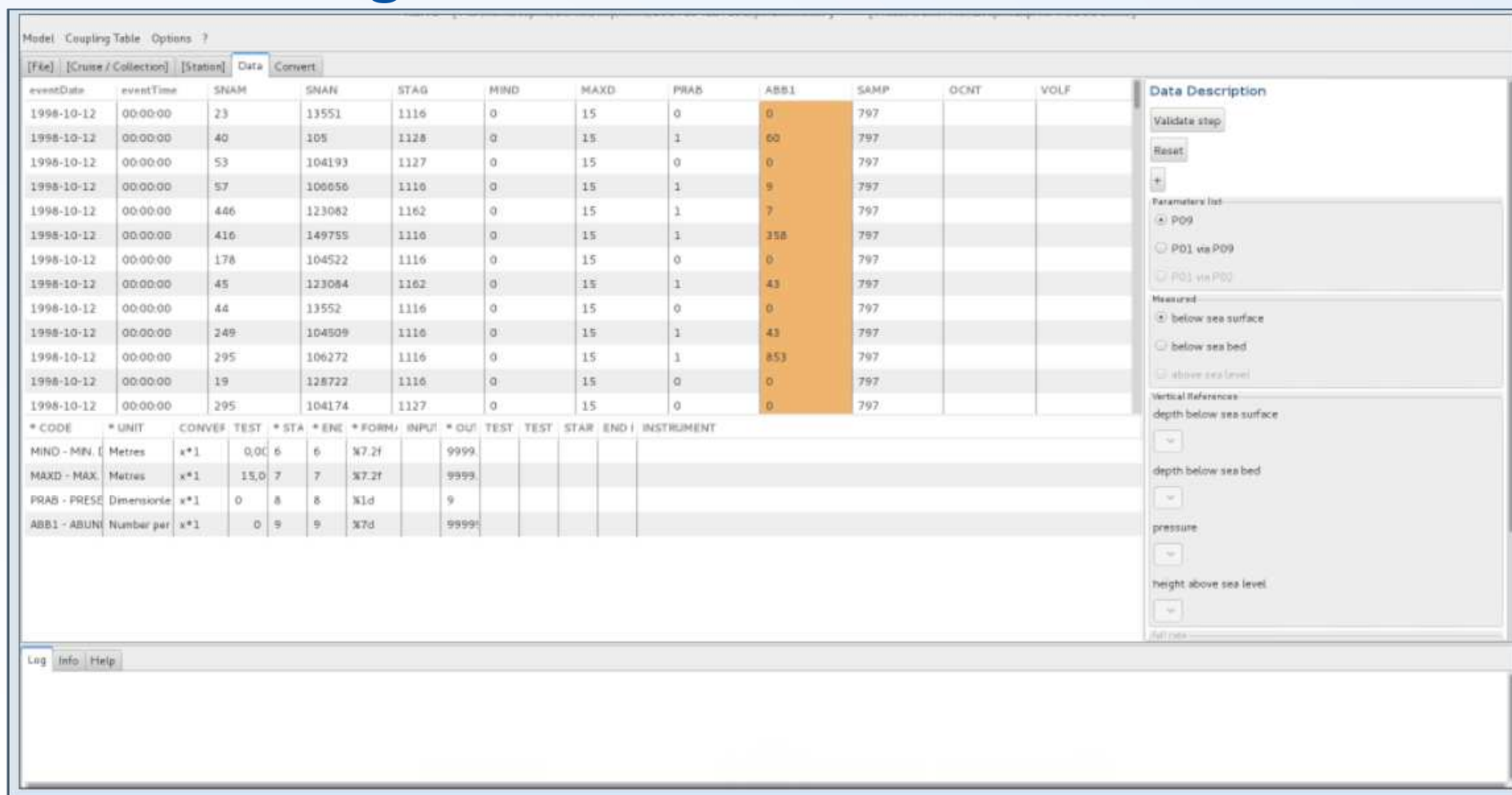
NEMO – User manual

- 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



The screenshot displays the SeaDataNet software interface. The main window shows a table of data with columns: eventDate, eventTime, SNAM, SNAN, STAG, MIND, MAXD, PRAB, ABB1, SAMP, OCNT, and VOLF. The table contains 12 rows of data for the date 1998-10-12. The ABB1 column is highlighted in orange. Below the main table, there is a section for parameters with columns: * CODE, * UNIT, CONVER, TEST, * STA, * ENR, * FORM, INPUT, * OUT, TEST, TEST, STAR, END, and INSTRUMENT. The parameters listed are MIND - MIN, MAXD - MAX, PRAB - PRESE, and ABB1 - ABUND. To the right of the main table, there is a 'Data Description' panel with sections for 'Parameters list', 'Measured', and 'Vertical References'. The 'Parameters list' section has a 'Validate step' button and a 'Reset' button. The 'Measured' section has a 'below sea surface' button and a 'below sea bed' button. The 'Vertical References' section has a 'depth below sea surface' button, a 'depth below sea bed' button, a 'pressure' button, and a 'height above sea level' button. The bottom of the interface has a 'Log' button and a 'Help' button.

eventDate	eventTime	SNAM	SNAN	STAG	MIND	MAXD	PRAB	ABB1	SAMP	OCNT	VOLF
1998-10-12	00:00:00	23	13551	1116	0	15	0	0	797		
1998-10-12	00:00:00	40	105	1128	0	15	1	60	797		
1998-10-12	00:00:00	53	104193	1127	0	15	0	0	797		
1998-10-12	00:00:00	57	100656	1110	0	15	1	9	797		
1998-10-12	00:00:00	446	123082	1162	0	15	1	7	797		
1998-10-12	00:00:00	416	149755	1110	0	15	1	358	797		
1998-10-12	00:00:00	178	104522	1116	0	15	0	0	797		
1998-10-12	00:00:00	45	123084	1162	0	15	1	43	797		
1998-10-12	00:00:00	44	13552	1116	0	15	0	0	797		
1998-10-12	00:00:00	249	104509	1116	0	15	1	43	797		
1998-10-12	00:00:00	295	106272	1116	0	15	1	853	797		
1998-10-12	00:00:00	19	128722	1116	0	15	0	0	797		
1998-10-12	00:00:00	295	104174	1127	0	15	0	0	797		

* CODE	* UNIT	CONVER	TEST	* STA	* ENR	* FORM	INPUT	* OUT	TEST	TEST	STAR	END	INSTRUMENT
MIND - MIN	Metres	x*1	0,00	6	6	%7.2f		9999					
MAXD - MAX	Metres	x*1	15,0	7	7	%7.2f		9999					
PRAB - PRESE	Dimensionless	x*1	0	8	8	%1d		9					
ABB1 - ABUND	Number per	x*1	0	9	9	%7d		9999					



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

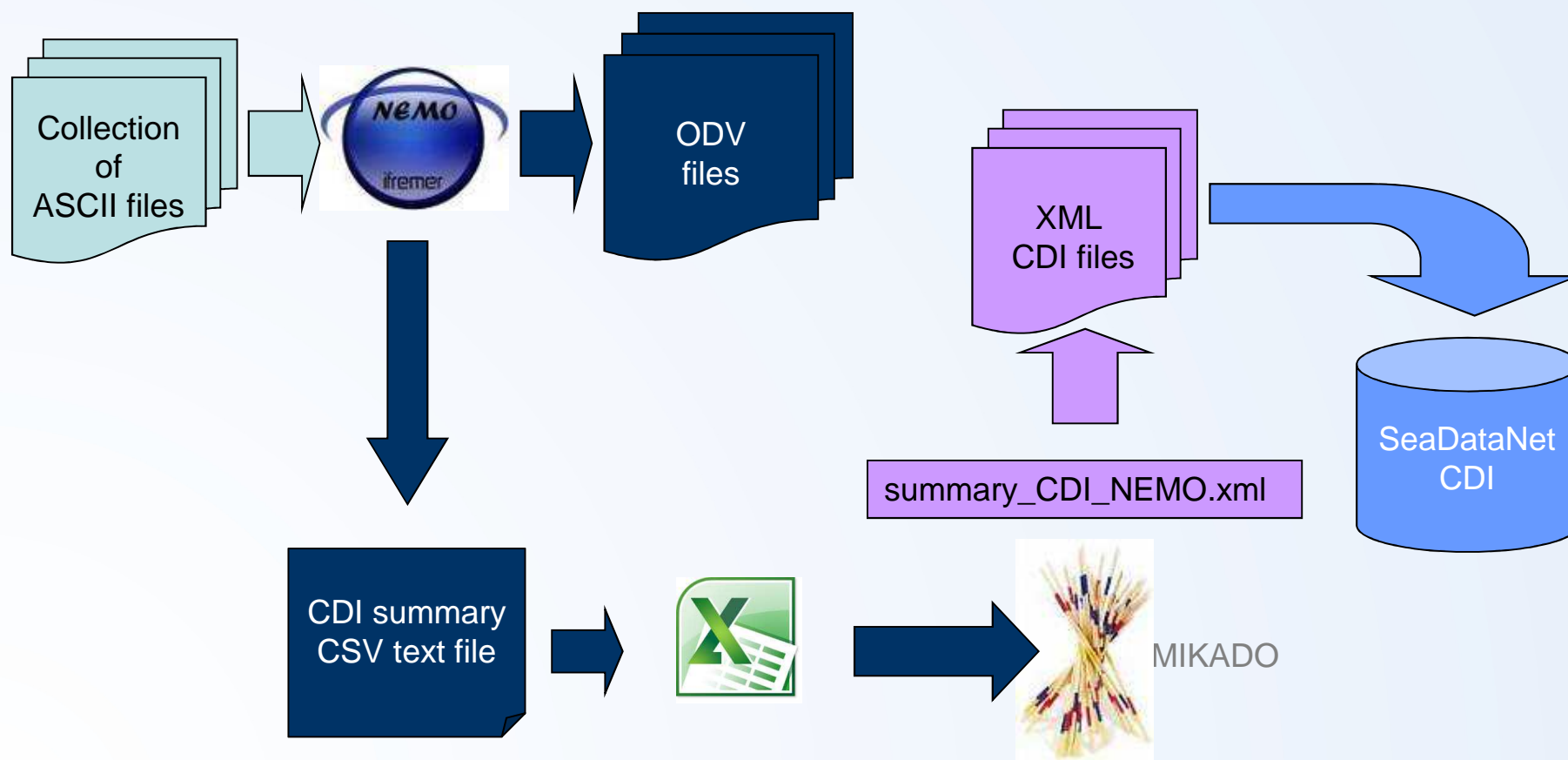
1.0



CDI SUMMARY text File (.txt)

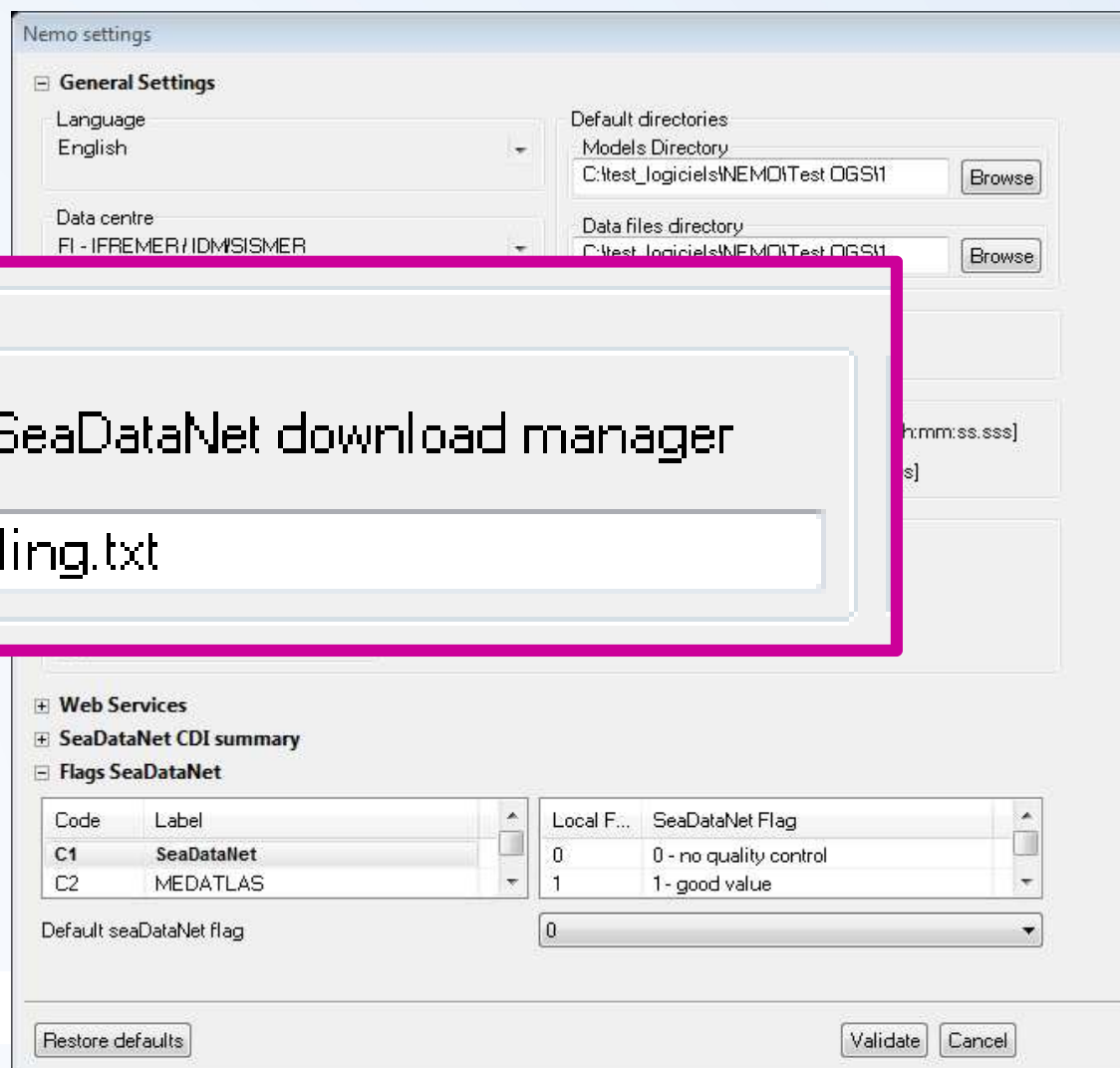
LOCAL CDI ID	EDMO AUTHOR	AREA TYPE	DATASET NAME	DATASET ID	DATASET REV	DATE	EDMO ORIGINATOR	DATASET ABS	EDMO CUSTODIAN	P02 CODE	PLATFORM TYPE	DATASET ACCESS	CRUISE		
FI35200653001_00001_H10	486	Point	OVIDE 3	FI35200653001	2014-08-22	32	Not Specified	9	AHGT	31	LS	OVIDE 3 001	+38.433333	-010.700000	2006-05-24T14:28:00
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
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
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	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)



The screenshot shows the 'Nemo settings' dialog box. The 'General Settings' tab is active. Under 'General Settings', the 'Language' is set to 'English' and the 'Data centre' is 'FI - IFREMER / IDMSISMER'. The 'Default directories' section shows 'Models Directory' and 'Data files directory' both set to 'C:\test_logiciels\NEMO\Test OGS11'. A pink box highlights the 'Mapping' section, which includes a checked checkbox 'Generate mapping for SeaDataNet download manager' and a text field 'Mapping file name' containing 'coupling.txt'. The 'Web Services' section is expanded, showing 'SeaDataNet CDI summary' and 'Flags SeaDataNet'. The 'Flags SeaDataNet' section contains a table with two rows: 'C1' with label 'SeaDataNet' and 'C2' with label 'MEDATLAS'. To the right of this table is a table mapping 'Local F...' to 'SeaDataNet Flag' with values '0 - no quality control' and '1 - good value'. Below this is a 'Default seaDataNet flag' dropdown set to '0'. At the bottom are buttons for 'Restore defaults', 'Validate', and 'Cancel'.

Nemo settings

☒ General Settings

Language: English

Data centre: FI - IFREMER / IDMSISMER

Default directories

Models Directory: C:\test_logiciels\NEMO\Test OGS11

Data files directory: C:\test_logiciels\NEMO\Test OGS11

Mapping

☒ Generate mapping for SeaDataNet download manager

Mapping file name: coupling.txt

Web Services

SeaDataNet CDI summary

Flags SeaDataNet

Code	Label
C1	SeaDataNet
C2	MEDATLAS

Local F...	SeaDataNet Flag
0	0 - no quality control
1	1 - good value

Default seaDataNet flag: 0

Restore defaults Validate Cancel

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

Filter:

LOCAL_CDI_ID	Modus	Format	Filename	Date
FI35199810007_00001_D09	3	CFPOINT	FI35199810007.nc	18/07/2016 14:46:05
FI35199810007_00002_D09	3	CFPOINT	FI35199810007.nc	18/07/2016 14:46:05
FI35200001016_00001_H71	3	CFPOINT	FI35200001016.nc	18/07/2016 14:35:21
FI35200321002_00001_H71	3	CFPOINT	FI35200321002_163rc2.nc	08/06/2016 15:05:55
FI35201306007_00001_H10	3	CFPOINT	multistation\NetCDF\PV_Pelm...	19/01/2016 14:14:45
FI35201306007_00002_H10	3	CFPOINT	multistation\NetCDF\PV_Pelm...	19/01/2016 14:14:45
FI35201306007_00003_H10	3	CFPOINT	multistation\NetCDF\PV_Pelm...	19/01/2016 14:14:45
FI35201306007_00004_H10	3	CFPOINT	multistation\NetCDF\PV_Pelm...	19/01/2016 14:14:45
FI35201306007_00005_H10	3	CFPOINT	multistation\NetCDF\PV_Pelm...	19/01/2016 14:14:45
FI35201306007_00006_H10	3	CFPOINT	multistation\NetCDF\PV_Pelm...	19/01/2016 14:14:45
FI35201306007_00007_H10	3	CFPOINT	multistation\NetCDF\PV_Pelm...	19/01/2016 14:14:45
FI35201306007_00008_H10	3	CFPOINT	multistation\NetCDF\PV_Pelm...	19/01/2016 14:14:45
FI35201306007_00009_H10	3	CFPOINT	multistation\NetCDF\PV_Pelm...	19/01/2016 14:14:45
FI35201306007_00010_H10	3	CFPOINT	multistation\NetCDF\PV_Pelm...	19/01/2016 14:14:45

LOCAL_CDI_ID

Modus

Format

Filename

New Delete

Refresh Save Cancel Exit

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?

