

## NEMO, reformatting tool

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## Summary

- Reminder of NEMO main features and principles
- NEMO last developments
- NEMO future developments
- Hands-on session



## NEMO [current version 1.6.6]

- Can be downloaded from SeaDataNet Web site <u>https://www.seadatanet.org/Software/NEMO</u>
- 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



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## NEMO

Tool for data file conversions





## NEMO main features (1)

• On one run, NEMO is able to convert

One directory with homogeneous ASCII files

Data files at SeaDataNet format





# NEMO main features (2)

- The input ASCII files can be:
  - Vertical profiles: Reference parameter is DEPTH or PRESSURE,

increasing, same position (lat,lon) for all the profile

- Time series: Reference parameter is DATE-TIME increasing, same position (lat, lon) for all the Time series
- Trajectories: Reference parameter is DEPTH of PRESSURE, position change on each data line



# NEMO main features (3)

- 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





## 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 (CSV)
    - from character 10 to character 14 (ASCII not CSV)



## 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)



## File which cannot be converted by NEMO

"Cruise:archive number numeric","Date and time","Latitude point","Longitude point","Observation level: measured","Temperature

- water","Salinity","Chlorine","Alkalinity","Nitrate","Nitrite: observed","Nitrogen ammonical","Nitrogen organic","Oxidability","Oxygen:
- observed","Phosphate","Phosphorus total","pH of the water column","Silicate:
- observed","Country: name","Organisation: name","Platform: name(eng)","Geographical object: name"

"13380","1981\_11\_07T12:00:00","57.570000","21.470000","0.00","10.040","7.790","" ,"","86.0","5.0","0.30","","","9.10","5.0","3.9","7.22","370","USSR (Russia)","Klaipeda HM Obs.","OKEANOGRAF","Baltic Sea,North Sea"

"13380","1981\_11\_07T12:00:00","57.570000","21.470000","10.00","10.040","7.790","", "","65.0","5.0","0.40","","","9.26","8.0","4.1","7.66","230","USSR (Russia)","Klaipeda HM Obs.","OKEANOGRAF","Baltic Sea,North Sea"



## File which cannot be converted by NEMO

CDI;Aktivitet\_ID;Cruise;Station;**Time**;**Longitude;Latitude**;BotDepth;Type;**MinDepth**;fMin Depth;**MaxDepth**;fMaxDepth;Sample\_ID;fSample\_ID;SamplingArea;fSamplingArea;SubS ample\_ID;fSubSample\_ID;SubCoef;fSubCoef;LatinName;fLatinName;Worms\_ID;fWorms \_ID;Sex;fSex;Stage;fStage;Count;fCount;LNMAX;fLNMAX;DRYWT%;fDRYWT%;LIPID;fLIPI D;LIPID%;fLIPID%;HG;fHG;PB;......;BEP;fBEP;BAA;fBAA;ANT;fANT;Modified;Active



## NEMO last developments (1)

- Last SDN2 training session (May 2015)
   NEMO 1.5.3 (8 new releases since then, 2 majors)
- Last EMODnet chemistry training session (May 2017)
   NEMO 1.6.3 (3 new releases since then, 1 major)
- Present version of NEMO
  - NEMO 1.6.6 released on November 2017



## Main improvements of the last 2 major releases

- V1.6.0, released on June 2015
  - Management of the <sdn\_reference>
    - Link to CSR catalogue
    - Link to CDI catalogue
    - Link to C17 vocabularies (ship references)
  - Management of instrument used for measurements
  - Management of the fall\_rate equation for XBTs
- V.1.6.4, released on August 2017
  - Easier management of input CSV files
  - Detection of deprecated parameters and automatic replacement in models of data files



## Management of the sdn\_reference (1)

- <sdn\_reference> tag is used in SDN data files for linkage to external references → catalogue
  - interoperability

- Maranania		
SEARCH		
Free Search		RESET SEARCH
Cruiter Date	from 1 m Am m 1975 m To 1 m	Jan 💌 2019 💌 Grder by Cruise Date descending 💌 Show 10 Records at a Time 🖉
Ship	Select Country	Select Ship
	Algeria Australia Belgium	
SealVolt Area	$\begin{array}{l} \mbox{Advisits: See } (1,1,2,1) \\ \mbox{Aepsen See } (1,1,2,4) \\ \mbox{Alvas: freshwater bodies } (SVX00001) \end{array}$	
Deciplere	Select Data Group	Sefect Data Type(3) (Use ctrl to Select Multiple)
	All Physical Desenography B Osemual Desenography Contemination -	
Responsible Laboratory	Select Country	Select Institute
	Albana Algeria	

Cruise Summary Report





# Management of the sdn\_reference (2)

Linkage to CSR catalogue

Linkage to C17 vocab

linkage to CDI catalogue done automatically when NEMO generate the LOCAL\_CDI\_ID

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

### **Cruise / Collection Description**

Validate step	
Server initialisation	
XML Initialisation	
Reset	
+	
▼ Reference *	
Input the references of the cruise / o	collection
Cruise / collection reference *	
FI35200704004	
Local CSR Identifier	
7040040	
Cruise / collection name	
PELGAS 2007	
Ship	
25HT - Thalacca	
JJITT - TTIBIBISB	*
▶ Location	
▶ Data Source	
Archiving Centre	
▶ Type of data	
Comments	



## Management of the sdn\_reference (3)

## • <u>Reference to a CSR</u>

<sdn\_reference xlink:href="<u>http://seadata.bsh.de/cgi-</u> <u>csr/XML/xmlDownload\_V2.pl?edmo=486&identifier=7040040</u>" xlink:role="isObservedBy" xlink:type="SDN:L23::CSR"/>

<u>Reference to a platform</u>

<sdn\_reference xlink:href="<u>http://vocab.nerc.ac.uk/collection/C17/current/35HT</u>" xlink:role="isObservedBy" xlink:type="SDN:L23::NVS2CON"/>

<u>Reference to CDI</u>

<sdn\_reference

xlink:href="<u>http://seadatanet.maris2.nl/v\_cdi\_v3/print\_xml.asp?edmo=486&i</u> <u>dentifier=FI35200704004\_00527\_H10</u>" xlink:role="isDescribedBy" xlink:type="SDN:L23::CDI"



## Management of the sdn\_reference (4)

 Syntax of the <sdn\_reference> tag is used for linkage to external references

<sdn\_reference <u>xlink:href</u>=URI <u>xlink:role</u>=text <u>xlink:type</u>=URN sdn:scope=EDMO\_code||':'||LOCAL\_CDI\_ID/>

<u>xlink:href =</u> URL or URN of the XML document: <u>http://seadatanet.maris2.nl/v cdi v3/print xml.asp?edmo=486&identifier=8575</u>

xlink:role = purpose of the document: isDescribedBy or isObservedBy

<u>xlink:type</u> = URN of the document type: L23 vocab: *SDN:L23::CDI* or *SDN:L23::CSR* or *SDN:L23::NVS2CON* 

1 optional attribute:

[sdn:scope = used only in ODV files: 486:8575]



## <sdn\_reference> in ODV files

//<sdn\_reference xlink:href="http://seadata.bsh.de/cgi-csr/XML/xmlDownload\_V2.pl?edmo=486 //<sdn\_reference xlink:href="http://vocab.nerc.ac.uk/collection/C17/current/06M2" xlink:r //<sdn reference xlink:href="http://seadatanet.maris2.nl/v cdi v3/print xml.asp?edmo=4866 //SDN\_parameter\_mapping //<subject>SDN:LOCAL:DEPHPR01</subject><object>SDN:P01::DEPHPR01</object><units>SDN:P06::U //<subject>SDN:LOCAL:Pressure</subject><object>SDN:P01::PRESPR01</object><units>SDN:P06::U //<subject>SDN:LOCAL:Temperature</subject><object>SDN:P01::TEMPPR01</object><units>SDN:P06::U //<subject>SDN:LOCAL:Salinity</subject><object>SDN:P01::PSLTZZ01</object><units>SDN:P06::U //<subject>SDN:LOCAL:Oxygen</subject><object>SDN:P01::DOXMZZXX</object><units>SDN:P06::U //<subject>SDN:LOCAL:Oxygen</subject><object>SDN:P01::DOXMZZXX</object><units>SDN:P06::KGU //

Cruise	Station	Type	yyyy-mm-ddThh:mm:ss.sss Longitude [deg	grees_east]	Latitude
OVIDE 3	1	С	2006-05-24T14:28:00.000 -010.700000	+38.433333	FI3520065
				2.0	1
	_			3.0	1
In (	ODV da	ata fil	es.	4.0	1
				5.0	1
<sc< td=""><td>in_rete</td><td>erence</td><td>e&gt; lines are above the</td><td>6.0</td><td>1</td></sc<>	in_rete	erence	e> lines are above the	6.0	1
CD				6.9	1
20	iv_para	imete	er_mapping lines	7.9	1
				8.9	1
				9.9	1
				10.9	1
				11.9	1
				12.9	1
				13.9	1
				14.9	1
				15.9	1
				16.9	1



# <sdn\_reference> in netCDF files

Variable is a 3D array
char SDN\_XLINK(INSTANCE, REFMAX, STRING177);
SDN\_XLINK:long\_name = "External resource linkages";

Content of variable is an array of <sdn\_reference> with syntax explained before

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

```
*DC HISTORY=
*
*DM HISTORY=
*
*COMMENT
*
```

### \*SDN parameter mapping

<sdn\_reference> in MedAtlas files

\*<subject>SDN:LOCAL:DEPH</subject><object>SDN:P01::ADEPZZ01</object><units>SDN:P06::U \*<subject>SDN:LOCAL:PRES</subject><object>SDN:P01::PRESPR01</object><units>SDN:P06::U \*<subject>SDN:LOCAL:TEMP</subject><object>SDN:P01::TEMPPR01</object><units>SDN:P06::U \*<subject>SDN:LOCAL:PSAL</subject><object>SDN:P01::PSLTZZ01</object><units>SDN:P06::U \*<subject>SDN:LOCAL:DOX2</subject><object>SDN:P01::DOXMZZXX</object><units>SDN:P06::K \*EDMO\_CODE=486

\*LOCAL CDT ID=FI35200653001 00001 H10

### \*SURFACE SAMPLES=

_
_

*DEPH	PRES	TEMP	PSAL	DOX2		
1.0	1.0	16.512	36.198	233.500	11111	
2.0	2.0	16.512	36.198	233.500	11111	
3.0	3.0	16.512	36.198	233.500	11111	
4.0	4.0	16.512	36.198	233.500	11111	In MEDATLAS data files,
5.0	5.0	16.512	36.198	233.500	11111	
6.0	6.0	16.512	36.198	233.500	11111	<sdn_reference> lines are just</sdn_reference>
7.0	7.0	16.512	36.198	233.500	11111	after the LOCAL CDL ID line
8.0	8.0	16.512	36.198	233.500	11111	
9.0	9.0	16.512	36.198	233.500	11111	
10.0	10.0	16.512	36.198	233.500	11111	
11.0	11.0	16.512	36.198	233.500	11111	
12.0	12.0	16.512	36.198	233.500	11111	
13.0	13.0	16.512	36.198	233.500	11111	

	Set start/end
	Update test
	Parameter list
	Select an instrument
1	Select a P06 unit
	Select a format
	Select a Standard Name
	Move current parameter up to
	Move current parameter up
	Move current parameter down
	Move current parameter down
	Delete current parameter
	Set flag
	Delete flag
	Delete all parameters

•

M [ 0 \*

2 \* P T S 0

4

💷 L22		8						
Type in name t	to filter CTD							
ID	label							
TOOL0002	Neil Brown MK3 CTD							
TOOL0005	Bissett-Bermann 9040 CTD system							
TOOL0009	Plessey 9400 CTD							
TOOL0032	Guildline Model 8705 Digital CTD							
TOOL0033	Veil Brown Smart CTD							
TOOL0034	Guildline Model 8770 Digital CTD							
TOOL0035	Sea-Bird SBE 911 CTD							
TOOL0040	Sea-Bird SBE 25 Sealogger CTD							
TOOL0041	Applied Microsystems CTD-12	=						
TOOL0042	Sea-Bird SBE 19 SEACAT CTD							
TOOL0043	Chelsea Technologies Group Aqualog CTD							
TOOL0047	Sea-Bird SBE 19plus SEACAT CTD							
TOOL0048	Chelsea Technologies Group Aquapack CTD							
TOOL0053	OOL0053 RBR XR-420 CTD Marine							
TOOL0058	Sea-Bird SBE 911plus CTD							
TOOL0149	Meerestechnik OTS-1200 CTD							
TOOL0173	Falmouth Scientific Instruments NXIC CTD Series							
TOOL0180	SAIV SD-204 CTD							
TOOL0183	Star-Oddi DST CTD							
TOOL0213	Idronaut Ocean Seven 320 CTD							
TOOL0214	Sea-Bird SBE 917plus CTD							
TOOL0232	Valeport CTD 600							
TOOL0341	Chelsea Technologies Group MINIpack CTD-F							
TOOL0364	Falmouth Scientific Instruments Integrated CTD Profiler							
TOOL0371	Christian Albrechts University of Kiel Multisonde CTD profiler							
TOOL0407	07 Valeport CTD 604							
TOOL0409	TOOL0409 Sea-Bird SBE 917 CTD							
TOOL0433	Applied Microsystems CTD-12 plus							
TOOL0434	Applied Microsystems Micro CTD							
rool0446	SMRU Ltd CTD-Satellite Relay Data Logger 9000	-						
•	III.	•						
Select	Cancel							



# Management of **instruments** used for measurements (2)

- In ODV and MedAtlas files, instrument included in SDN\_parameter mapping lines
  - //<subject>SDN:LOCAL:Temperature</subject><object>SD
    N:P01::TEMPPR01</object><units>SDN:P06::UPAA</units>
    <instrument>SDN:L22::TOOL0409</instrument>
- In **netCDF files**, instrument represented as 2 attributes of the geophysical variable

double TEMPPR01(INSTANCE, MAXZ) ;
TEMPPR01:sdn\_instrument\_urn = "SDN:L22::TOOL0409" ;
TEMPPR01:sdn\_instrument\_name = "Sea-Bird SBE 917 CTD";

### 💷 L33

#### Type in name to filter

Key	Alt. label	Preferred label	<b>^</b>
001	WMO:C-3:1	Sippican T-4	
002	WMO:C-3:2	Sippican T-4	Ξ
011	WMO:C-3:11	Sippican T-5	
021	WMO:C-3:21	Sippican Fast Deep	_
031	WMO:C-3:31	Sippican T-6	
032	WMO:C-3:32	Sippican T-6	
041	WMO:C-3:41	Sippican T-7	
042	WMO:C-3:42	Sippican T-7	
051	WMO:C-3:51	Sippican Deep Blue	
052	WMO:C-3:52	Sippican Deep Blue	
061	WMO:C-3:61	Sippican T-10	
071	WMO:C-3:71	Sippican T-11	
081	WMO:C-3:81	Sippican AXBT (300 m probes)	
201	WMO:C-3:201	TSK T-4	
202	WMO:C-3:202	TSK T-4	
211	WMO:C-3:211	TSK T-6	
212	WMO:C-3:212	TSK T-6	
221	WMO:C-3:221	TSK T-7	
222	WMO:C-3:222	TSK T-7	
231	WMO:C-3:231	TSK T-5	
241	WMO:C-3:241	TSK T-10	
251	WMO:C-3:251	TSK Deep Blue	
252	WMO:C-3:252	TSK Deep Blue	
261	WMO:C-3:261	TSK AXBT	
401	WMO:C-3:401	Sparton XBT-1	
411	WMO:C-3:411	Sparton XBT-3	
421	WMO:C-3:421	Sparton XBT-4	
431	WMO:C-3:431	Sparton XBT-5	
441	WMO:C-3:441	Sparton XBT-5DB	
451	WMO:C-3:451	Sparton XBT-6	
461	WMO:C-3:461	Sparton XBT-7	Ŧ

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## te equation (1)

23

below sea bed	
-	
re	
<b>-</b>	
above sea level	
e	
select	
.7	
reset	

Select

Cancel



## Management of the **fall rate** equation (2)

 In ODV and MedAtlas files, fall rate included in SDN\_parameter mapping lines

//<subject>SDN:LOCAL:Depth</subject><object>SDN:P01: :ADEPZZ01</object><units>SDN:P06::ULAA</units><instr ument>SDN:L22::TOOL0263</instrument><fall\_rate>SDN :L33::221</fall\_rate>

• In netCDF files, fall rate represented as 2 attributes of the geophysical variable

double DEPTH(INSTANCE, MAXZ) ;
 DEPTH:sdn\_fall\_rate\_urn = "SDN:L33::221" ;
 DEPTH:sdn\_fall\_rate\_name = "TSK T-7" ;



## Management of CSV files (1)

- NEMO able to manage CSV file
  - Previous versions:
  - files with separators converted to text files without separators → replaced by blank characters (so called PF\_ files) The Previous way of managing
     – Since NEMO 1.6.4 CSV files is still working
    - No need to convert the CSV files 
       directly managed
       by NEMO
    - Need to provide some additional information in the File tab



Input parameters Process a Cruise

> Cruise File Ocruise Directory

Separator

Space

Medatlas ODV NetCDF

Log

Other:

Sort data within stations by ir

Info Help

6

Set

Conversion parameters

## Management of CSV files (2)

NEMO - [Directory C:\test_logiciels\NEMO\FAE33278 - fichier CSV\input TS Varta ]=====[ Model Model_Varta_OD	DV_164rc11.xml ]
Model Coupling Table Options ?	
File Cruise / Collection Station Data Convert	
Bottom depth =1330 m, Sensor depth= 1295 m Lat 43 34.33 N Lon 007 14.56 E	File Description Validate all steps
temperature         pressure         direction         speed           02/12/2007         13:10         13.139         1301.26         230.95         9           02/12/2007         13:20         13.139         1301.26         152.55         9           02/12/2007         13:30         1301.26         113.35         9           02/12/2007         13:40         1301.26         13.35         9	Validate step Reset +

## Data columns selection

Check if you want to display data in a table. Set the line number where the data column headers must be read.

## 🔽 Use a table to display data

The column titles are in the input file (select the line then click on set)



## Management of CSV files (3)

[File] [Cruise / Colle	ection] [Station]	Data	Conver	t								
			temperatu	re	pressure		dire	ection	sp	eed		-
02/12/2007	13:10		13.139		1301.26		230	.95	9			_
02/12/2007	13:20		13.139		1301.26		152	52.55				
02/12/2007	13:30		13.139		1301.26		113	.35	9			
02/12/2007	13:40		13.139		1301.26		46.1	15	9			
02/12/2007	13:50		13.139		1301.26		31.1	1.1		9		
02/12/2007	14:00		13.139		1301.26 2		26.9	26.9		9		
02/12/2007 14:10			13.139		1301.26 2		26.	26.55		9		
02/12/2007	02/12/2007 14:20		13.139		1301.26 27		27.0	7.6		9		
02/12/2007	14:30		13.139		1301.26 26		26.9	6.9		9		
02/12/2007	14:40		13.139		1301.26		28.3	3	9			
02/12/2007	14:50		13.139		1301.26		26.	55	9			
02/12/2007	15:00		13.139		1301.26		18.8	35	9			
02/12/2007	15:10		13.139		1301.26		303	303.4		9		
02/12/2007 15:20			13.139		1301.26		345	345.75		9		-
T * CODE	LABEL	* UN	IT	CONVER	TEST	* STA	* END	* FORMAT	INPU	TEST	TEST	STA
TEMPPR01 - T	Temperature	Degr	ees Cels	x*1		3	3	%6.3f				
PRESPR01 - Pr	Pressure	Decil	bars	x*1		4	4	%7.2f				
LCDAZZ01 - C	Current directi	Degr	ees	x*1		5	5	%6.2f				
LCSAZZ01 - C	Current speed	Metr	es per s	x*1		6	6	%6.4f				



## Detection of deprecated parameters in models

- If a user open old NEMO models containing deprecated vocabulary terms (P01, L22, P06, ....)
- Deprecated terms replaced by new terms using the **BODC** vocab web services and the Replaced by attributes

## 1 -- Temperature of the water body --

URI	http://vocab.nerc.ac.uk/collection/P01/current/PSSTZZ01/
Identifier ()	SDN:P01::PSSTZZ01
Preferred label (en)	Temperature of the water body
Alternative label (en)	WC_temp
Definition (en)	This is an obsolete term for this definition. Use TEMPPR01 instead
Version Info ()	2
Deprecated()	true
ReplacedBy	http://vocab.nerc.ac.uk/collection/P01/current/TEMPPR01/
Broader	http://vocab.nerc.ac.uk/collection/P02/current/TEMP/
Broader	http://vocab.nerc.ac.uk/collection/P35/current/WATERTEMP/
Broader	http://vocab.nerc.ac.uk/collection/S06/current/S0600082/
Broader	http://vocab.nerc.ac.uk/collection/S26/current/MAT00640/
Related	http://vocab.nerc.ac.uk/collection/P06/current/UPAA/
Related	http://vocab.nerc.ac.uk/collection/S02/current/S032/
Date ()	2014-03-26 15:22:08.0



## NEMO next version 1.6.7

- Will be ready in Fall 2018
  - Take into account the BIO-ODV format and extensions
    - Bio-ODV for Biological data
    - BIO-ODV extension for CytoFluometry
    - BIO-ODV extension for Microplastic
  - Small upgrades and bug corrections



# Hands-on session

SeaDataCloud 1st training session, Ostende, Belgium, 20-27 June 2018 sdn-userdesk@seadatanet.org – www.seadatanet.org



## **Objectives**

Be trained on the new functions of NEMO software

- Management of the sdn\_reference (links to CSR and CDI catalogue and to the C17 vocabularies in the datafile)
- Management of the instruments
- Management of the fall rate for XBTs
- New way for managing CSV files



## Training session

- File XBT\_CALMAR97\_Cruise.txt
- Data collected on L'ATALANTE (research vessel)
- One ASCII cruise file with 81 XBTs
- File with Separators (Tabulations) on data lines
- Sensor is Sparton 536 AXBT
- 2 measured parameters
  - DEPTH (no missing values)
  - TEMPERATURE (no missing values)
- The file contains Quality flags, same scale than SeaDataNet

2	TextPad	- N:\projet	s\seadataclo	oud\Meeting:	s\Training \	Workshops\201	8-06 Train	ing 1\Practical_	work	XBT_CALMAR97_	Cruise.txt		× 1		
ł	Fichier	Edition	Recherche	Affichage	Outils N	Aacros Confi	guration	Fenêtre Aid	le						
	ጋ 😅 🖥	188	Q. 🖻 👌	K 🖻 🛍 🗄	<u>a</u> e  <b>.</b>	I 78 🕿 🔳	🏈 💱	≜i 🚱 👁 o	¢ 🗣	• II• • -	Recherche in	crémentale	ն 🦉		
5	XBT_CALM	AR97_Crui	se.txt ×										<del></del> ×		
Г	SPART	ON ·XBT-6		+	+	۶.	+	F.	+	1					
	Cruise	e⊢ Stati	.on Date	Longi	tude⊦	Latitu	de⊦	Depth · (	(m) ⊦	QC +	Temp · (de	gC)⊦ Q	ci 🌲		
	CALMAR	897)	10 +	13/11	/1997.1	0:21≀	2.02)	41.07	+	Þ	► .	4			
	•	+	+	+	۱.	1.0+	1+	17.36⊦	1						
	•	+	۱.	۱.	Þ	2.0 +	1+	17.67⊦	1						
	•	+	F	F	F	3.0⊦	1+	17.95⊦	1						
	+	+	•	+	Þ	4.0 -	1+	18.06⊦	1						
	F	•	F	+	Þ	5.0+	1+	18.08⊦	1						
	F	•	F	Þ	Þ	6.0+	1)	18.08⊦	1						
	•	+	•	F	Þ	7.0 -	1,	18.08⊦	1		_				
	•	•	•	+	Þ	8.0	1,	18.08⊦	1	Onon	tha	filo	nd	look at	
	Þ	•	•	+	Þ	9.0	1,	18.08	1	Oper			μικ	ιυυκαι	
	•	•	•	Þ	•	10.0>	1)	18.08	1						
	•	•	▶	•	►	11.0>	1)	18.08	1	how	it is o	raar	hich	4.	
	•	•	•			12.01	1.	18.07	1			ngai	ПЭ¢	<b>u</b> .	
				P		14.0	1.	10.000	1						
						15.05	1.	18.06	 1	Г:1-		- <b>- - - -</b>			
			, r		, r	16.05	1.	18.05	1	- File	nead	err			
			•		•	17.0	1.	18.05	1						
						18.0	1.	18.04	1	<u> </u>	· · · ·				
						19.0	1.	18.03	1	– Stat	tion he	eadei			
	•	•	۱.	+	Þ	20.0>	1,	18.03	1						
	•	+	×	+	Þ	21.0>	1+	18.02 >	1	~					~
	+	+	•	F	Þ	22.0>	1+	18.01)	1]	– Sep	aratio	n bei	twe	en stations	2
	F	•	۱.	F	Þ	23.0⊦	1+	18.01⊦	1]				· · · T		
	+	+	+	+	۱.	24.0>	1+	18.00⊦	1	_					
	+	+	•	+	Þ	25.0⊦	1+	17.98⊧	1	- Spe	citic li	ne at	· the	and of each	ch
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	•	•	•	+	Þ	27.0	1+	17.92⊦	1	ctat	iand				
	Þ	F	F	+	Þ	28.0⊦	1+	17.88⊦	1	ડાતા					
	•	+	•	Þ	Þ	29.0⊦	1+	17.86⊦	1						
	•	•	•	►	Þ	30.0⊦	1,	17.83⊦	1						
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	*	• •	•	•		32.0>	1)	17.77>	3						
	•	•	►	•	•	33.01	1.	17.74	1						
	P k	P	P	P	P	34.01	1.	17 62	 1						
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## Run NEMO

- Step 1: Insert the default settings (Menu Options> Settings)
  - Select your EDMO code
  - Select the default directories for data and models
  - Select the default conversion format
  - Specify that you will need a coupling table
  - Specify that you will need a CDI Summary file

🗑 Nemo

Model Coupling Table Options ?

## Menu Options> Settings

File Cruise / Colle	action Station Data Convert
	Nemo settings
	□ General Settings Language English ✓ Models Directory
	Data centre       Data files directory         FI - IFREMER / IDM/SISMER       This projets/seadatacloud/Meetings/Training
Input parameters	Organisation creating the CDI metadata Edit EDMO ID of the organisation creating the CDI metadata (author) 486
<ul> <li>Cruise File</li> <li>Cruise Director</li> </ul>	Mapping       ODV date format         Image: Comparison of the provided manager       Image: Comparison of the provided manager         Mapping file name       Comparison of the provided manager         Mapping file name       Comparison of the provided manager         Mapping file name       Comparison of the provided manager         Image: Comparison of the provided manager       Image: Comparison of the provided manager         Image: Comparison of the provided manager       Image: Comparison of the provided manager         Image: Comparison of the provided manager       Image: Comparison of the provided manager         Image: Comparison of the provided manager       Image: Comparison of the provided manager         Image: Comparison of the provided manager       Image: Comparison of the provided manager         Image: Comparison of the provided manager       Image: Comparison of the provided manager         Image: Comparison of the provided manager       Image: Comparison of the provided manager         Image: Comparison of the provided manager       Image: Comparison of the provided manager         Image: Comparison of the provided manager       Image: Comparison of the provided manager         Image: Comparison of the provided manager       Image: Comparison of the provided manager         Image: Comparison of the provided manager       Image: Comparison of the provided manager         Image: Comparison of the provided manage
Separator	Conversion format         Medatlas         ODV         ODV
Conversion paramet	NetCDF
<ul> <li>Medatlas</li> <li>ODV</li> <li>NetCDF</li> <li>Sort data within st</li> </ul>	<ul> <li>Web Services</li> <li>              SeaDataNet CDI summary      </li> <li>             Flags SeaDataNet         </li> </ul>
	Code     Label       C1     SeaDataNet       C2     MEDATLAC
Log Info Helj	Default seaDataNet flag
<	Restore defaults Validate Cancel



## SeaDataNet CDI summary -> MIKADO

Input the mandatory information

- EDMO of the data originator
- EDMO of your data centre as custodian and distributor
- Platform type from where the data were collected (Research vessel)

sdn-userdesk@seadatanet.org - www.seadat

Verso settings         Image: Web services         SeaDataNet CDI summary         Generate SeaDataNet CDI summary         Edit       EDMD ID of the data originator         Edit       EDMD ID of the organisation managing the data set (custod an): 486         Edit       EDMD ID of the organisation distribution Website         http://www.sdn-taskmanager.org/         Data distribution method       CDIMTH02 - web data access with registration         Plaform type       31 - research vessel         Data set access       LS - SeaDataNet Flag         CDV Version       0         Plags SeaDataNet       10         Code       Label         C1       SeaDataNet         C2       MEDATLAS         MEDATLAS       *         Out or no quality control       1         1       1- good value					
• NetCDF       • One file per station         • Web Services       • One unique file for all stations         • Web Services       SeaDataNet CDI summary         Generate SeaDataNet CDI summary       •         Edit       EDMO ID of the data originator         485       Edit         Edit       EDMO ID of the organisation managing the data set (custod an): 486         Edit       EDMO ID of the organisation distribution the data set (cistributor): 486         Data Distribution Website       http://www.sdn-taskmanager.org/         Data distribution method       CDIMTH02 - web data access with registration         Platform type       31 - research vessel         Data set access       LS - SeaDataNet licence         ODV Version       0.4         MEDATLAS Version       20         Crd       SeaDataNet         Code       Label         C1       SeaDataNet         Code       Label         C1       SeaDataNet         C2       MEDATLAS         Default seaDataNet flag       0         0       0 - no quality control         1       1. good value	lemo settings				
Web Services         SeaDataNet CDI summary         Generate SeaDataNet CDI summary         Edit       EDMO ID of the data originator         fdit       EDMO ID of the organisation managing the data set (custod an): 486         Edit       EDMO ID of the organisation distributing the data set (custod an): 486         Edit       EDMO ID of the organisation distributing the data set (custod an): 486         Data Distribution Website       http://www.sch-taskmanager.org/         Data distribution method       CDIMTH02 - web data access with registration         Platform type       31 - research vessel         Data set access       LS - SeaDataNet licence         DV Version       0.4         MEDATLAS Version       2.0         Crode       Label         Code       Label         Code       Label         Ci       SeaDataNet Flag         0       0 - no quality control         1       1- good value         Default seaDataNet flag       0	<ul> <li>Medatias</li> <li>ODV</li> <li>NetCDF</li> </ul>	<ul> <li>One file per</li> <li>One unique</li> </ul>	station file for all st	ations	
SeaDataNet CDI summary         Generate SeaDataNet CDI summary         Edit       EDMD ID of the data originator         485         Edit       EDMD ID of the organisation managing the data set (custod an): 486         Edit       EDMD ID of the organisation managing the data set (custod an): 486         Edit       EDMD ID of the organisation distributing the data set (custod an): 486         Data Distribution Website       http://www.sch-taskmanager.org/         Data distribution method       CDIMTH02 - web data access with registration         Platform type       31 - research vessel         Data set access       LS - SeaDataNet licence         ODV Version       0.4         MEDATLAS Version       2.0         CFPOINT Version       10         Flags SeaDataNet       Local F SeaDataNet Flag         OU = Label       O - no quality control         Code       Label       O - no quality control         Default seaDataNet flag       0       - no quality control	Web Services				
Generate SeaDataNet CDI summary       Image: CDMO ID of the data originator       485         Edit       EDMO ID of the organisation       485         Edit       EDMO ID of the organisation       ani: 486         Edit       EDMO ID of the organisation       distribution ani: 486         Edit       EDMO ID of the organisation       distribution ani: 486         Edit       EDMO ID of the organisation       distribution ani: 486         Edit       EDMO ID of the organisation       distribution: 486         Data Distribution Website       http://www.sdn-taskmanager.org/       ani: 486         Data distribution method       CDIMTH02 - web data access with registration       Image: CDMO ID of the organisation         Platform type       31 - research vessel       Image: CDMO ID of the organisation       Image: CDMO ID of the organisation         Data set access       LS - SeaDataNet licence       Image: CDMO ID of the organisation       Image: CDMO ID of the organisation         ODV Version       0.4       Image: CDMO ID of the organisation       Image: CDMO ID of the organisation       Image: CDMO ID of the organisation         FPOINT Version       1.0       Image: CDMO ID of the organisation       Image: CDMO ID of the organisation       Image: CDMO ID of the organisation         Flags SeaDataNet       Image: CDMO ID of the organisation       Image: CDM	SeaDataNet CDI summary				
Edit       EDMO ID of the data originator       485         Edit       EDMO ID of the organisation managing the data set (custod an): 486         Edit       EDMO ID of the organisation distributing the data set (custod an): 486         Data Distribution Website       http://www.sdn-taskmanager.org/         Data distribution method       CDIMTH02 - web data access with registration         Platform type       31 - research vessel         Data set access       LS - SeaDataNet licence         ODV Version       0.4         MEDATLAS Version       2.0         CFPOINT Version       1.0 <b>Flags SeaDataNet</b> Loccal F SeaDataNet Flag         OL       0         Operation       0         Out a seaDataNet flag       0         Of a seaDataNet flag       0	Generate SeaDataNet CDI summa	ry 🔽			
Edit       EDMO ID of the organisation managing the data set (custod an): 486         Edit       EDMO ID of the organisation distributing the data set (distributor): 486         Data Distribution Website       http://www.sdn-taskmanager.org/         Data distribution method       CDIMTH02 - web data access with registration         Platform type       31 - research vessel         Data set access       LS - SeaDataNet licence         ODV Version       0.4         MEDATLAS Version       2.0         CFPOINT Version       10         Flags SeaDataNet       Local F SeaDataNet Flag         Code       Label         C1       SeaDataNet         C2       MEDATLAS         Default seaDataNet flag       0	Edit	EDMO ID of the data	a originator (	485	
Edit       EDMO ID of the organisation distributing the data set (distributor): 486         Data Distribution Website       http://www.sdn-taskmanager.org/         Data distribution method       CDIMTH02 - web data access with registration         Platform type       31 - research vessel         Data set access       LS - SeaDataNet licence         DDV Version       0.4         MEDATLAS Version       2.0         CFPOINT Version       10         Flags SeaDataNet       0         Code       Label         C1       SeaDataNet         C2       MEDATLAS         Default seaDataNet flag       0         0       - no quality control         1       1- good value	Edit	EDMO ID of the orga managing the data s	anisation set (custod a	n): 486	
Data Distribution Website       http://www.sdn-taskmanager.org/         Data distribution method       CDIMTH02 - web data access with registration         Platform type       31 - research vessel         Data set access       LS - SeaDataNet licence         DDV Version       0.4         MEDATLAS Version       2.0         CFPOINT Version       10         Flags SeaDataNet       Local F SeaDataNet Flag         Code       Label         C1       SeaDataNet         C2       MEDATLAS         Default seaDataNet flag       0	Edit	EDMO ID of the orga distributing the data	anisation set (distritu	itor): 486	
Data distribution method       CDIMTH02 - web data access with registration         Platform type       31 - research vessel         Data set access       LS - SeaDataNet licence         DDV Version       0.4         MEDATLAS Version       2.0         CFPOINT Version       1.0         Flags SeaDataNet       Code         Code       Label         C1       SeaDataNet         C2       MEDATLAS         Default seaDataNet flag       0	Data Distribution Website	http://www.sdn-task	manager.or	3	
Platform type       31- research vessel         Data set access       LS - SeaDataNet licence         DDV Version       0.4         MEDATLAS Version       2.0         CFPOINT Version       1.0         Flags SeaDataNet       Image: Constraint of the seaDataNet Flag         Code       Label         C1       SeaDataNet         Default seaDataNet flag       0         Default seaDataNet flag       0	Data distribution method	CDIMTH02 - web d	ata access w	ith registration	<b>v</b>
Data set access       LS - SeaDataNet licence         ODV Version       0.4         MEDATLAS Version       2.0         CFPOINT Version       1.0         Flags SeaDataNet       Image: Constraint of the seadataNet Flag         Code       Label         C1       SeaDataNet         C2       MEDATLAS         Default seaDataNet flag	Platform type	31 - research vesse	1		-
ODV Version     0.4       MEDATLAS Version     2.0       CFPOINT Version     10       Flags SeaDataNet     Image: Constraint of the seadata Net Flag       Code     Label       C1     SeaDataNet       C2     MEDATLAS       Default seaDataNet flag     0	Data set access	LS - SeaDataNet lic	ence		<b>T</b>
MEDATLAS Version     2.0       CFPOINT Version     10       Flags SeaDataNet     Image: Constraint of the sead	ODV Version	0.4			
CFPOINT Version     10       Flags SeaDataNet       Code     Label       C1     SeaDataNet       C2     MEDATLAS       Default seaDataNet flag	MEDATLAS Version	2.0			
Flags SeaDataNet         Code       Label         C1       SeaDataNet         C2       MEDATLAS         Default seaDataNet flag	CFPOINT Version	1.0			
Code       Label       Local F       SeaDataNet Flag         C1       SeaDataNet       0       0 - no quality control         C2       MEDATLAS       I       1 - good value         Default seaDataNet flag       0       I       I - good value	Flags SeaDataNet				
C1     SeaDataNet     0     0 - no quality control       C2     MEDATLAS     I     1 - good value       Default seaDataNet flag     I     I	Code Label	-	Local F	SeaDataNet Flag	
C2     MEDATLAS     Image: Ima	C1 SeaDataNet		0	0 - no quality control	
Default seaDataNet flag	C2 MEDATLAS	<b>v</b>	1	1-good value	-
	Default seaDataNet flag		0		•
Restore defaulte Violidate Concel	Restore defaulte			Maliday	


- Step 2: Describe the file (File folder Left part)
  - 1. Select cruise File
  - 2. Browse to select it (The file is now visible in NEMO)
  - 3. Tell NEMO the file contains separators
  - 4. Select the File Type (Profile)
  - 5. Check that the output format is the one you need

🛢 NEMO - [File N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical_work\NEMO\XBT_CALMAR97_Cruise.txt ]			
Model Coupling Table Options ?			
File         Cruise / Collection         Station         Date           SPARTON XBT-6         Cruise         Station Date         Luise           CALMAR97         010         13/11/199         2.0         1           3.0         1         4.0         1           5.0         1         6.0         1           7.0         1         8.0         1           9.0         1         0.0         1	Convert         igitude       Latitude       Depth (m)       QC         10:21       2.02       41.07       1.0       17.3         17.67       1       17.3       Image: Convert of the second secon		
Input parameters	Station neader     End of station		
Process a Cruise © Cruise File © Cruise Directory	Process a collection Files grouped by cruise Files not grouped by cruise Multi-Stations File		
Separator 3	File type       Profile       Time Series       Trajectory		
Conversion parameters			
<ul> <li>Medatlas</li> <li>ODV</li> <li>NetCDF</li> </ul>	<ul> <li>One file per station</li> <li>One unique file for all stations</li> </ul>		
Sort data within stations by increasing	ference parameter (Pressure or time)	•	
Log Info Help			



- Step 3: Describe the file (File folder, right part)
  - 1. Is there a File header (Lines that appears only once in the file)?
  - 2. Is there a station header? (Lines with only information on the station)
  - 3. Is there a specific line for the end of station?
  - 4. What is the separation between 2 consecutive stations?
  - 5. Are there column tittles? Where?

NEMO - [File N:\projets\seadatacloud\Meetin	ngs\Training Workshops\2018-06 Training 1\Practical_w	ork\NEMO\XBT_CALMAR97_Cruise.txt ]====[ Model model_c 🗖 🔳 🖾
Model Coupling Table Options ?		
File Cruise / Collection   Station   Data SPARTON XBT-6 Cruise Station Date Long CALMAR97 010 13/11/1997 1 2.0 1	Convert itude Latitude Depth (m) ( 0:21 2.02 41.07 1.0 1 1 17.67 1	7.3 File Description Validate all steps
3.0 1 4.0 1 5.0 1 6.0 1 7.0 1 8.0 1 9.0 1 10.0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Validate step Reset + • • • • • • • • • • • • •
<ul> <li>Process a Cruise</li> <li>Oruise File</li> <li>Cruise Directory</li> </ul>	Process a collection <ul> <li>Files grouped by cruise</li> <li>Files not grouped by cruise</li> <li>Multi-Stations File</li> </ul>	Set       > Station header       > End of station
<ul> <li>Separator</li> <li>Tabulation © Semicolon © Comma</li> <li>Space © Other :</li> </ul>	File type Profile Time Series Trajectory	<ul> <li>Data termination indicator</li> <li>Data columns selection</li> </ul>
Conversion parameters		
<ul> <li>Medatlas</li> <li>ODV</li> <li>NetCDF</li> <li>Sort data within stations by increasing refer</li> </ul>	<ul> <li>One file per station</li> <li>One unique file for all stations</li> </ul>	
		4

# 1. Is there a File header (Lines that appears only once in the file)?

NEMO - [File N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical_work\N odel Coupling Table Options ?	IEMO\XBT_CALMAR97_Cruise.txt ]====[ Model model_c
ile Cruise / Collection Station Data Convert	2000 C
Truise Station Date       Longitude       Latitude       Depth (m)       QC         ALMAR97       010       13/11/1997       10:21       2.02       41.07       1.01       17.3         2.0       1       17.95       1       4.01       18.06       1         3.0       1       17.95       1       4.01       18.06       1         3.0       1       17.95       1       4.01       18.08       1         6.0       1       18.08       1       6.01       18.08       1         9.0       1       18.08       1       9.01       18.08       1         9.0       1       18.08       1       9.01       18.08       1         9.0       1       18.08       1       9.01       18.08       1         10.0       1       18.08       1       9.01       18.08       1         9.0       1       18.08       1       9.01       18.08       1         9.0       1       18.08       1       9.01       18.08       1         9.0       1       18.08       1       9.01       18.08       1         9.0 <td< th=""><th><ul> <li>File Description</li> <li>Validate all steps</li> <li>Validate step</li> <li>Reset <ul> <li>▶ File header</li> </ul> </li> <li>▶ File header</li> <li>Describe here the station header</li> <li>© Fixed length station header</li> <li>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'</li> <li>○</li> <li>Set</li> <li>○ Variable length station header</li> <li>Enter the number of lines between the station header termination record text in header termination record or select these lines in the 'file' window and then press 'Set'</li> <li>0</li> <li>Set</li> </ul></th></td<>	<ul> <li>File Description</li> <li>Validate all steps</li> <li>Validate step</li> <li>Reset <ul> <li>▶ File header</li> </ul> </li> <li>▶ File header</li> <li>Describe here the station header</li> <li>© Fixed length station header</li> <li>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'</li> <li>○</li> <li>Set</li> <li>○ Variable length station header</li> <li>Enter the number of lines between the station header termination record text in header termination record or select these lines in the 'file' window and then press 'Set'</li> <li>0</li> <li>Set</li> </ul>

2. Is there a station header? (Lines with only information on the station and no data measurements) → No

🗑 NEMO - [ File N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical\_work\NEMO\XBT\_CALMAR97\_Cruise.txt ]=====[ Model model\_c... 👝 🔳 🖾

Model Coupling Table Options ?

File Cruise / Collection Station Data (	Convert	
456.0 1 457.0 1 458.0 1 459.0 1 460.0 1 2.0 1 1 2.0 1 1 3.0 1 1 4.0 1 1 5.0 1 1 6.0 1 1 7.0 1 1	13.29 1 13.28 1 13.28 1 13.28 1 13.28 1 :54 1.78 40.87 1.0 1 18.3 8.44 1 8.49 1 8.50 1 8.49 1 8.49 1	File Description Validate all steps Validate step Reset + File header
× [ III		Station header
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	<ul> <li>End of station</li> <li>Enter the number of lines which separates the stations (do not take into account the line with the data termination indicator) or select these line in the 'file' window and then press 'Set'</li> <li>0</li> <li>Set</li> </ul>
V Separator	Profile	Data termination indicator
<ul> <li>Tabulation</li> <li>Semicolon</li> <li>Comma</li> <li>Space</li> <li>Other:</li> </ul>	<ul> <li>Time Series</li> <li>Trajectory</li> </ul>	Data columns selection
Conversion parameters		
<ul> <li>Medatlas</li> <li>ODV</li> <li>NetCDF</li> <li>Sort data within stations by increasing reference</li> </ul>	<ul> <li>One file per station</li> <li>One unique file for all stations</li> </ul>	
		×

3. Is there a specific line for the end of station? A line which separates the stations  $\rightarrow No$ 

<u> </u>	A NEWO LET NUMBER ON THE REAL OF A DAMAGE AND A DAMAGE		
	NEMO - LEIE N/\projets\seadatacloud\Meetings\Training Workshops\7018-06 Training 1\Practical work\NEMO\XKL_CALMAR97_Cruise tyt I=====1 Model model c		- >:<
-	/ remo = [ memory here a condition of meetings ( raming workshops (core work (remo (Ab) = CAcimaro / Conserve ] = = = = [ model model = c		00

Model Coupling Table Options ?

ile Cruise / Collection Station Data Convert		
456.0 1	13.29 1	▼ Data termination indicator
457.0 1 458.0 1 459.0 1	13.28 1 13.28 1 13.28 1	Enter here what characterises the end of data measurements of one station
460.0 1 460.0 1 CALMAR97 020 13/11/1997 11:	13.28 1 13.28 1 54 1.78 40.87 1.0 1 18.3	The last line of the station which is : © EOF (End of File)
2.0 1 18 3.0 1 18	.44 1 .49 1	One empty line
4.0 1 18	.50 1	One constant character string
5.0 1 18 6.0 1 18 7.0 1 18	.50 1 .49 1 .49 1	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'
Input parameters		
Process a Cruise	Process a collection	Sec
Oruise File	Files grouped by cruise	The first line of the next station starting with :
Cruise Directory	Files not grouped by cruise	A constant character string or regular expression
	Multi-Stations File	Regular expression
	File time	Enter the text that identifies the beginning of the next station in the
Separator	Profile	box below of select it in the file window and then press set
Tabulation	Time Series	CALMAR97
Consection Others		Set 2
Space Other:	Unifectory (	A character string different from the one of the previous station
Conversion parameters		Input the maximum length of the character string that identifies the
		beginning of the next station or select it in the the 'file' window and
	One file per station	the press set
NetCDE	One unique file for all stations	
		Set
Sort data within stations by increasing reference parameter (Pressure or time)		

#### 4. What is the separation between 2 consecutive stations?

NEMO - [File N:\projets\seadatacloud\Meetings	\Training Workshops\2018-06 Training 1\Pract	ical_work\NEM	IO\XBT_CALMAR97_Cruise.txt ]=====[ Model model_c 🗖 🔲 🔀
Model Coupling Table Options ?			
File Cruise / Collection Station Data C	onvert		
SPARTON XBT-6			
Cruise Station Date Longit	ude Latitude Depth(m)	QC 📘	File Description
CALMAR97 010 13/11/1997 10:	21 2.02 41.07 1.0 1	17.3	V-Edata all atoms
2.0 1 17	7.67 1		Validate all steps
3.01 1/	2.95 I 2.06 1		Validate step
5.0 1 18	3.08 1		
6.0 1 18	3.08 1		Reset
7.0 1 18	3.08 1		+
10.0 1	18.08 1	-	File header
۲ <u>۲۰۱۵ ۱</u>	10100 1	•	Station header
Input parameters			End of station
Process a Cruise	Process a collection		Data termination indicator
Oruise File	Files grouped by cruise		▼ Data columns selection
Cruise Directory	Files not grouped by cruise	Browse	Check if you want to display data in a table. Set the line number where t
	Multi-Stations File		data column headers must be read.
			Use a table to display data
Concentration (Concentration)	File type		$\overline{\mathbb{V}}$ The column titles are in the input file (select the line then click on se
Separator	Profile		2
Tabulation Semicolon Comma	Time Series		
🔘 Space 💿 Other :	Trajectory		Set
Conversion parameters			
Medatlas			
ODV	One file per station		
NetCDF	One unique file for all stations		
Sort data within stations by increasing referen	ce parameter (Pressure or time)		
	ce parameter (Fressure of time)		
			< >

5. Are there column tittles? Where?

	NEMO - [File N/\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical work\NEMO\XBT_CALMAR97_Cruise tyt 1[Model model c		52	ĺ
~	The work of the wo		<u> </u>	4

Model Coupling Table Options ?

[File] Cruice (Collection Station Data Com		
Cruise / Collection Station Data Conv		
Cruise Station Date Longitud	le Latitude Depth (m) OC	File Description
CALMAR97 010 13/11/1997 10:21	2.02 41.07 1.0 1 17.3	
2.0 1 17.6	57 1	Validate all steps
3.0 1 17.9		Validate step
4.0 I 18.0 5 0 1 18.0	J6 I	
6.0 1 18.0	08 1	Reset
7.0 1 18.0	08 1	
8.0 1 18.0	08 1	
9.0 1 18.0		File header *
10.0 I	10.00 1	Station header *
Input parameters		End of station *
		Data termination indicator *
Process a Cruise P	rocess a collection	
Cruise File	Files grouped by cruise	Data columns selection
Cruise Directory	) Files not grouped by cruise	
	Multi-Stations File	
	ile type	
✓ Separator @	) Profile	
Tabulation     Semicolon     Comma	Time Series	
O Space O Other :	Trajectory	
Conversion parameters		
Madatlar		
	One file per station	
	One unique file for all stations	
© NetCDF		
Sort data within stations by increasing reference p	parameter (Pressure or time)	
		4
Log Info Help		
Step validated, you can proceed to next one!		*
	2	
	<b>_</b>	
4		▼ 



- Step 4: Describe the cruise (Cruise folder)
  - Use the CSR generate by MIKADO or Input manually the mandatory information
    - Cruise reference is the only mandatory information used for the LOCAL\_CDI\_ID composition
    - CSR LOCAL\_ID will be used for <sdn\_reference> → link with the CSR catalogue
    - Cruise name
    - Ship → used for the <sdn\_reference> link with C17 vocabulary

🗑 NEMO - [ File N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical\_work\NEMO\XBT\_CALMAR97\_Cruise.txt ]=====[ Model model\_c... 🗖 💷 🔀

Model Coupling Table Options ?

[File] Cruise / Collection Station Data Convert	
SPARTON VRT-6	
Cruise Station Date Longitude Latitude Depth Cruise / Col	llection Description
CALMAR97 010 13/11/1997 10:21 2.02 41.07 1	
2.0 1 17.67 1 Validate step	
3.0 1 17.95 1	
4.0 1 18.06 1	tion
5.0 1 18.08 1	
6.0 1 18.08 1	
7.0 1 18.08 1 Reset	
9.0 I 18.08 I +	
10.0   1   10.00   1	*
12.0 1 18.07 1	ances of the cruise / collection
13.0 1 18.06 1	ences of the cruise / collection
14.0 1 18.07 1 Cruise / collect	tion reference *
15.0 1 18.06 1 FI3519970101	20
16.0 1 18.05 1	
17.0 1 18.05 1 Local CSR Ider	htifier
18.0 1 18.04 1 97010120	
20.0 I 18.03 I Cruise / collec	tion name
22.0 1 18.01 1 CALMAR97	
24.0 1 18.00 1	
25.0 1 17.98 1 35A3 - L'Atala	ente 👻
26.0 1 17.94 1	
27.0 1 17.92 1	
28.0 1 17.88 1	
29.0 1 17.86 1	
30.0 1 17.83 1	entre
33 0 1 17 74 1	d
34.0 1 17.67 1 Comments	

# 1. Cruise step: Input the information from the SDN\_tools\NEMO\CSR\_CALMAR97.xml file

Model     Coupling Table     Options     ?       File     [Cruise/Collection]     Station     Data     Convert       SPARTON XBT-6     Congitude     Latitude     Depth       CallMAR87     010     13/11/1997     10/21     2.02     41.07       2.01     17.77     1     1     0.01     18.08     1       3.0     1     18.08     1     0.0     1     18.08     1       9.0     1     18.08     1     0.0     1     18.08     1       10.0     1     18.08     1     0.1     18.08     1       10.0     1     18.08     1     0.1     18.08     1       11.0     1     18.08     1     0.1     1.0     1       12.0     1     18.08     1     0.1     0.0     1       13.0     1     18.05     1     0.1     0.0       21.0     1     18.03     1     0.1     0.1       22.0     1     18.01     1     0.1     0.1       22.0     1     17.94     1     0.0     0.0       23.0     1     17.92     1     0.0     0.0       23.0     1	🗑 NEMO - [ File N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical_work\NEMO\XBT_CALMAR97_Cruise.txt ]=====[ Model model_c 🗖 🔳 🔀
File       [Cruise / Collection]       Station       Date       Convert         SPARTON XET-6       Convert       2.02       41.07       1         Cruise / Station       Date       Longi tude       Lepith       Depth         CALMAR37       010       13.717.75       1       18.06       1         3.0       1       18.06       1       Sever initialisation       1         9.0       1       18.08       1       NML Initialisation       1         10.0       1       18.08       1       NML Initialisation       NML Initialisation         11.0       1       18.08       1       NML Initialisation       NML Initialisation       NML Initialisation         12.0       1       18.06       1       No.01       No.01       No.01       No.01         13.0       1       18.05       1       No.01       No.01       No.01       No.01         14.0       1       18.05       1       No.01       No.01       No.01       No.01         20.0       1       18.03       1       No.01       No.01       No.01       No.01       No.01       No.01         22.0       1       18.02       1<	Model Coupling Table Options ?
EFARTON XBT-6       Cruise Longitude Latitude Depth       Cruise / Collection Description         CALMAR97       010       13/1/1997       10:21       2.02       41.07         3.0       1       17.95       1            4.0       1       18.06       1             6.0       1       18.08       1              10.0       1       18.08       1              10.0       1       18.08       1	[File] [Cruise / Collection] Station Data Convert
Cruise Station Date Longitude Latitude Depth CALMAR97 010 13/11/1997 10:21 2.02 41.07 1 3.0 1 17.67 1 4.0 1 18.08 1 6.0 1 18.08 1 6.0 1 18.08 1 10.0 1 18.08 1 11.0 1 18.08 1 11.0 1 18.08 1 12.0 1 18.08 1 12.0 1 18.08 1 13.0 1 18.08 1 14.0 1 18.09 1 12.0 1 18.09 1 12.0 1 18.09 1 12.0 1 18.09 1 13.0 1 18.09 1 14.0 1 18.09 1 15.0 1 18.09 1 16.0 1 18.03 1 20.0 1 17.98 1 20.0 1 17.98 1 20.0 1 17.98 1 20.0 1 17.98 1 20.0 1 17.83 1 31.0 1 17.83 1 31.0 1 17.74 1 31.0 1 1	SPARTON XBT-6
CALMAR97 010 13/11/1997 10:21 2.02 41.07 1 3.0 1 17.95 1 3.0 1 17.95 1 4.0 1 18.06 1 5.0 1 18.06 1 7.0 1 18.06 1 7.0 1 18.06 1 10.0 1 18.06 1 11.0 1 18.06 1 12.0 1 18.06 1 13.0 1 18.06 1 13.0 1 18.06 1 14.0 1 18.06 1 15.0 1 18.06 1 15.0 1 18.06 1 15.0 1 18.06 1 17.0 1 18.05 1 17.0 1 18.03 1 21.0 1 18.03 1 21.0 1 18.03 1 22.0 1 18.03 1 21.0 1 18.03 1 22.0 1 18.03 1 23.0 1 18.03 1 21.0 1 18.03 1 22.0 1 17.98 1 23.0 1 17.98 1 23.0 1 17.98 1 23.0 1 17.86 1 29.0 1 17.86 1 30.0 1 17.86 1 30.0 1 17.81 1 31.0 1 1	Cruise Station Date Longitude Latitude Depth Cruise / Collection Description
2.0 1       17.95       1         4.0 1       10.06       1         4.0 1       10.06       1         6.0 1       18.08       1         8.0 1       18.08       1         9.0 1       18.08       1         10.0       1       18.08       1         12.0       1       18.07       1         13.0       1       18.06       1         14.0       1       18.07       1         12.0       1       18.05       1         14.0       1       18.05       1         15.0       1       18.06       1         14.0       1       18.07       1         15.0       1       18.05       1         18.0       1       18.04       1         20.0       1       18.03       1         21.0       1       18.00       1         22.0       1       18.01       1         23.0       1       17.98       1         25.0       1       17.98       1         26.0       1       17.98       1         30.0       1       17.74<	CALMAR97 010 13/11/1997 10:21 2.02 41.07 1
4.0 1       18.06 1         5.0 1       18.08 1         6.0 1       18.08 1         8.0 1       18.08 1         9.0 1       18.08 1         10.0 1       18.08 1         11.0 1       18.08 1         12.0 1       18.06 1         13.0 1       18.06 1         14.0 1       18.07 1         15.0 1       18.05 1         17.0 1       18.04 1         18.0 1       18.03 1         20.0 1       18.03 1         21.0 1       18.03 1         22.0 1       18.01 1         23.0 1       18.03 1         21.0 1       18.01 1         22.0 1       18.01 1         23.0 1       18.01 1         24.0 1       17.08 1         33.0 1       17.78 1         33.0 1       17.74 1         33.0 1       17.74 1         33.0 1       17.74 1         33.0 1       17.74 1         33.0 1       17.74 1         33.0 1       17.74 1         33.0 1       17.74 1         33.0 1       17.74 1         33.0 1       17.74 1         33.0 1       17.74 1	
5.0 1       18.08 1         7.0 1       18.08 1         7.0 1       18.08 1         9.0 1       18.08 1         11.0 1       18.08 1         12.0 1       18.07 1         13.0 1       18.06 1         12.0 1       18.07 1         13.0 1       18.06 1         12.0 1       18.07 1         13.0 1       18.06 1         14.0 1       18.05 1         15.0 1       18.06 1         16.0 1       18.05 1         18.0 1       18.03 1         20.0 1       18.03 1         21.0 1       18.02 1         22.0 1       18.01 1         22.0 1       18.01 1         23.0 1       17.98 1         23.0 1       17.86 1         30.0 1       17.74 1         33.0 1       17.74 1         33.0 1       17.74 1         33.0 1       17.74 1         33.0 1       17.74 1         33.0 1       17.74 1         33.0 1       17.74 1         33.0 1       17.74 1         33.0 1       17.74 1         33.0 1       17.74 1         33.0 1       17.74 1	4.0 1 18.06 1 Server initialisation
6 6.0 1 18.08 1       Reset         8.0 1 18.08 1          9.0 1 18.08 1          10.0 1 18.08 1          11.0 1 18.08 1          12.0 1 18.07 1          13.0 1 18.06 1          14.0 1 18.05 1          15.0 1 18.05 1          17.0 1 18.05 1          18.01 18.05 1          18.02 1 18.05 1          19.0 1 18.03 1          21.0 1 18.03 1          22.0 1 18.01 1          23.0 1 18.01 1          23.0 1 18.01 1          23.0 1 17.98 1          23.0 1 17.98 1          33.0 1 17.74 1          34.0 1 17.67 1          34.0 1 17.67 1          34.0 1 17.67 1          34.0 1 17.67 1          34.0 1 17.67 1          34.0 1 17.67 1          34.0 1 17.67 1          34.0 1 17.67 1          34.0 1 17.67 1          34.0 1 17.67 1	5.0 1 18.08 1 XML Initialisation
1       1       18:08       1         9:0       1       18:08       1         10:0       1       18:08       1         11:0       1       18:08       1         12:0       1       18:07       1         13:0       1       18:06       1         14:0       1       18:07       1         15:0       1       18:06       1         16:0       1       18:05       1         17:0       1       18:05       1         18:0       1       18:03       1         20:0       1       18:03       1         21:0       1       18:02       1         22:0       1       18:01       1         22:0       1       18:02       1         23:0       1       17:98       1         26:0       1       17:83       1         30:0       1       17:67       1         32:0       1       17:67       1         32:0       1       17:67       1         32:0       1       17:67       1         34:0       1       17:67 <td></td>	
9.0 1 18.08 1 10.0 1 18.08 1 11.0 1 18.08 1 12.0 1 18.07 1 13.0 1 18.06 1 14.0 1 18.05 1 16.0 1 18.05 1 16.0 1 18.05 1 18.0 1 18.03 1 20.0 1 18.03 1 21.0 1 18.03 1 22.0 1 18.01 1 23.0 1 18.01 1 23.0 1 17.98 1 25.0 1 17.98 1 27.0 1 17.88 1 29.0 1 17.88 1 29.0 1 17.88 1 29.0 1 17.86 1 30.0 1 17.83 1 31.0 1 17.81 1 32.0 1 17.77 3 33.0 1 17.77 4 34.0 1 17.67 1 34.0 1 17.67 1 35.0 1 17.76 1	8.0 1 18.08 1
10.0       1       18.08       1         11.0       1       18.08       1         12.0       1       18.07       1         13.0       1       18.07       1         14.0       1       18.07       1         15.0       1       18.06       1         16.0       1       18.05       1         17.0       1       18.05       1         18.01       1       18.03       1         20.0       1       18.03       1         21.0       1       18.01       1         22.0       1       18.01       1         22.0       1       18.01       1         22.0       1       18.01       1         23.0       1       17.98       1         27.0       1       17.86       1         31.0       1       17.74       1         32.0       1       17.74       1         32.0       1       17.74       1         33.0       1       17.74       1         33.0       1       17.74       1         34.0       1       17.	9.0 1 18.08 1
11.0       1       10.0       1         12.0       1       18.07       1         13.0       1       18.06       1         14.0       1       18.07       1         15.0       1       18.06       1         16.0       1       18.05       1         16.0       1       18.05       1         17.0       1       18.03       1         20.0       1       18.03       1         21.0       1       18.01       1         22.0       1       18.01       1         22.0       1       18.00       1         22.0       1       18.00       1         23.0       1       17.94       1         25.0       1       17.98       1         29.0       1       17.86       1         30.0       1       17.77       1         32.0       1       17.77       1         33.0       1       17.77       1         33.0       1       17.77       1         33.0       1       17.77       1         34.0       1       17.67	
13.0       1       18.06       1         14.0       1       18.07       1         15.0       1       18.06       1         16.0       1       18.05       1         17.0       1       18.05       1         19.0       1       18.03       1         20.0       1       18.03       1         21.0       1       18.01       1         23.0       1       18.01       1         24.0       1       18.00       1         25.0       1       17.98       1         27.0       1       17.88       1         29.0       1       17.86       1         31.0       1       17.77       3         33.0       1       17.74       1         344.0       1       17.67       1         32.0       1       17.74       1         34.0       1       17.67       1         4       Help       5       1         Step validated, you can proceed to next one!       *       *	12.0 1 18.07 1
14.0       1       18.07       1         15.0       1       18.06       1         16.0       1       18.05       1         17.0       1       18.05       1         18.01       18.03       1       1         19.0       1       18.03       1         20.0       1       18.03       1         22.0       1       18.01       1         22.0       1       18.01       1         23.0       1       18.00       1         25.0       1       17.98       1         26.0       1       17.88       1         30.0       1       17.74       1         33.0       1       17.74       1         33.0       1       17.74       1         34.0       1       17.67       1         You can proceed to next one!       2       *	13.0 1 18.06 1
Archiving Centre 17.0 1 18.05 1 17.0 1 18.05 1 17.0 1 18.05 1 18.0 1 18.03 1 20.0 1 18.03 1 21.0 1 18.03 1 22.0 1 18.01 1 22.0 1 18.01 1 23.0 1 18.01 1 24.0 1 18.00 1 25.0 1 17.98 1 26.0 1 17.92 1 28.0 1 17.88 1 30.0 1 17.83 1 31.0 1 17.81 1 32.0 1 17.77 3 33.0 1 17.74 1 34.0 1 17.77 1 34.0 1 17.77 1 34.0 1 17.77 1 35.0 5 17.77 1 34.0 1 17.77 1 34.0 1 17.74 1 34.0 1 17.767 1 5tep validated, you can proceed to next one!	14.0 1 18.07 1 Data Source
17.0       1       18.05       1         18.0       1       18.04       1         19.0       1       18.03       1         20.0       1       18.03       1         21.0       1       18.01       1         22.0       1       18.01       1         23.0       1       18.01       1         23.0       1       18.01       1         25.0       1       17.98       1         26.0       1       17.98       1         29.0       1       17.86       1         30.0       1       17.77       3         33.0       1       17.74       1         34.0       1       17.77       1         33.0       1       17.74       1         34.0       1       17.67       1         34.0       1       17.67       1         Step validated, you can proceed to next one!       2       1	16.0 1 18.06 1 Archiving Centre
18.0       1       18.04       1         19.0       1       18.03       1         20.0       1       18.03       1         21.0       1       18.02       1         22.0       1       18.01       1         23.0       1       18.01       1         25.0       1       17.98       1         26.0       1       17.98       1         29.0       1       17.88       1         30.0       1       17.78       1         33.0       1       17.77       3         33.0       1       17.74       1         34.0       1       17.67       1         Log Info Help         Step validated, you can proceed to next one!	
19.0       1       18.03       1         20.0       1       18.03       1         21.0       1       18.02       1         22.0       1       18.01       1         23.0       1       18.01       1         24.0       1       16.00       1         25.0       1       17.98       1         26.0       1       17.98       1         27.0       1       17.92       1         28.0       1       17.88       1         30.0       1       17.83       1         31.0       1       17.74       1         34.0       1       17.67       1         Yet walidated, you can proceed to next one!       2       2	18.0 1 18.04 1
Log Info Help Step validated, you can proceed to next one! 21.0 1 18.00 1 22.0 1 18.01 1 22.0 1 18.01 1 22.0 1 18.01 1 22.0 1 18.01 1 22.0 1 17.98 1 23.0 1 17.98 1 26.0 1 17.98 1 29.0 1 17.88 1 30.0 1 17.83 1 31.0 1 17.77 3 33.0 1 17.77 3 33.0 1 17.67 1 * 2 2 2 2 2 2 2 2 2 2 2 2 2	19.0 1 18.03 1 Comments
22.0 1 18.01 1 23.0 1 18.01 1 24.0 1 18.00 1 25.0 1 17.98 1 26.0 1 17.94 1 27.0 1 17.92 1 28.0 1 17.86 1 30.0 1 17.83 1 31.0 1 17.77 3 33.0 1 17.77 1 34.0 1 17.67 1 Log Info Help Step validated, you can proceed to next one! 2	
23.0 1 18.01 1 24.0 1 18.00 1 25.0 1 17.98 1 26.0 1 17.94 1 27.0 1 17.92 1 28.0 1 17.88 1 29.0 1 17.86 1 30.0 1 17.83 1 31.0 1 17.81 1 32.0 1 17.77 3 33.0 1 17.74 1 34.0 1 17.67 1	22.0 1 18.01 1
Log Info Help Step validated, you can proceed to next one! 24.0 1 17.90 1 26.0 1 17.94 1 27.0 1 17.92 1 28.0 1 17.88 1 30.0 1 17.83 1 31.0 1 17.81 1 32.0 1 17.77 3 33.0 1 17.67 1 - 2 2	
26.0 1 17.94 1 27.0 1 17.92 1 28.0 1 17.88 1 29.0 1 17.86 1 30.0 1 17.81 1 32.0 1 17.77 3 33.0 1 17.74 1 34.0 1 17.67 1	
27.0 1 17.92 1 28.0 1 17.88 1 29.0 1 17.86 1 30.0 1 17.81 1 32.0 1 17.77 3 33.0 1 17.77 1 34.0 1 17.67 1 Log Info Help Step validated, you can proceed to next one! 2	26.0 1 17.94 1
28.0       1       17.88       1         29.0       1       17.86       1         30.0       1       17.83       1         31.0       1       17.81       1         32.0       1       17.74       1         33.0       1       17.67       1         *       *       *       *         Log       Info       Help       *         Step validated, you can proceed to next one!       2       *	27.0 1 17.92 1
25.0       1       17.00       1         30.0       1       17.83       1         31.0       1       17.81       1         32.0       1       17.77       3         33.0       1       17.74       1         34.0       1       17.67       1	
31.0       1       17.81       1         32.0       1       17.77       3         33.0       1       17.74       1         34.0       1       17.67       1	30.0 1 17.83 1
32.0       1       17.77       3         33.0       1       17.74       1         34.0       1       17.67       1	31.0 1 17.81 1
33.0     1     17.74     1       34.0     1     17.67     1        Image: step validated, you can proceed to next one!     >	32.0 1 17.77 3
Image: Construction of the second	33.0   1   17.74   1   34.0   1   17.67   1 $-$
Log Info Help Step validated, you can proceed to next one!	
Step validated, you can proceed to next one!	
2	Step validated, you can proceed to next one!
	2



- Step 5: Describe the station (Station Folder), six mandatory information
  - 1. Station number
  - 2. Data type
  - 3. Time
  - 4. Date
  - 5. Latitude
  - 6. Longitude

NEMO - [File N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\P	ractical_work\NEMO\XBT_CALMAR97_Cruise.txt ]=====[ Model model_c 🗖 🔳 🔯
Model Coupling Table Options ?	
[File] [Cruise / Collection] Station Data Convert	
SPARTON XBT-6	Keset
Cruise Station Date Longitude Latitude Depth	$\Box$
CALMAR97 010 13/11/1997 10:21 2.02 41.07 1	
	▼ Station number
4.0 1 18.06 1	Choose if station number is computed or read within the file at a given
5.0 1 18.08 1	filename.
	Automatic incremental number starting at
8.0 1 18.08 1	
9.0 1 18.08 1	Fixed position
10.0 1 18.08 1	Position
	Line 3 Start 10 End 12
13.0 1 18.06 1	Set
14.0 1 18.07 1	
15.0 1 18.06 1	Test 010 2
18.0 1 18.04 1	Data type
19.0 1 18.03 1	► Acquisition History
	► Comments
22.0 1 18.01 1	A Surface comple
23.0 1 18.01 1	y surface sample
24.0 1 18.00 1	UT/Conversion
25.0 1 17.98 1 26.0 1 17.94 1	▶ Time
27.0 1 17.92 1	> Date
28.0 1 17.88 1	h latituda
	r Lautude
31.0 1 17.81 1	Longitude
32.0 1 17.77 3	Bottom Depth
33.0 1 17.74 1	► OC Flags
34.U 1 17.67 1	, formas

#### 1. Station number

Model Coupling Table Options ?

model coupling table options i	
[File] [Cruise / Collection] Station Data Convert	
SPARTON XBT-6	
Cruise Station Date Longitude	Latitude Depth Station Description
CALMAR97 010 13/11/1997 10:21	2.02 41.07 1
2.0 1 17.67	Validate step
3.0 1 17.95	1
4.0 1 18.06	1 Reset
5.0 1 18.08	
6 0 1 18 08	1 +
8 0 1 18 08	Station number
9 0 1 18 08	1 Data type
10 0 1 18	08 1 Select the data type in the list
11.0 1 19	
12.0 1 19	H13 : Bathythermograph
12.0 1 10.	
14.0 1 10.	H13 : Bathythermograph
	H16 : Transparency (eg transmissometer)
	H17 : Optics (eg underwater light levels)
	1H21 : Oxygen
	H22 : Phosphate
19.0 1 18.	UI/Conversion
20.0 1 18.	.U3 I Time
21.0 1 18.	.02 1
22.0 1 18.	.U1 1 Date
23.0 1 18.	
24.0 1 18.	.00 1 • Latitude
25.0 1 17.	.98 1
26.0 1 17.	.94 1
27.0 1 17.	.92 1 Bottom Depth
28.0 1 17.	.88 1
29.0 1 17.	.86 1 • QC riags
30.0 1 17.	.83 1
31.0 1 17.	.81 1
32.0 1 17.	.77 3
33.0 1 17.	.74 1
34.0 1 17.	.67 1 -

2. Data type (used in the LOCAl\_CDI\_ID composition), here H13 for Bathythermograph

NEMO - [ File N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\P	ractical_work\NEMO\XBT_CALMAR97_Cruise.txt ]=====[ Model model_c 🗖 🔲 🖾
Model Coupling Table Options ?	
[File] [Cruise / Collection] Station Data Convert	
SPARTON XBT-6	
Cruise Station Date Lon <mark>gitude</mark> Latitude Depth	Validate step
CALMAR97 010 13/11/1997 10:21 2.02 41.07 1	
2.0 1 17.67 1	Reset
	+
	Station number
7.0 1 18.08 1	Data type
8.0 1 18.08 1	
9.0 1 18.08 1	Acquisition History
	Comments
	N Surface sample
13.0 1 18.06 1	y surface sample
14.0 1 18.07 1	UT/Conversion
15.0 1 18.06 1	▼ lime
16.0 1 18.05 1	Type in here the hour or indicate it's position within the file. Always choose
17.0 1 18.05 1	the first station's hou on choose your own format.
	Format
	h 24 mm
21.0 1 18.02 1	nn24:mm
22.0 1 18.01 1	
23.0 1 18.01 1	U Manual Input
24.0 1 18.00 1	
25.0 1 17.98 1	Automatic input
26.U I 17.94 I 27.0 1 17.92 1	Decition
	Position
29.0 1 17.86 1	Line 3 Start 25 End 29
30.0 1 17.83 1	Set 2
31.0 1 17.81 1	
32.0 1 17.77 3	Default value
33.0 1 17.74 1	
34.U 1 17.67 1 -	Test 10:21:00.000

#### 3. Station time

NEMO - [File N:\projets\seadatacloud\Meetings\Trainin	ig Workshops\2018-06 Training 1\Practical_work\NEMO\XBT_CALMAR97_Cruise.txt ]=====[ Model model_c 🗀 📗	
Model Coupling Table Options ?		
[File] [Cruise / Collection] Station Data Convert		
SPARTON XBT-6		
Cruise Station Date Longitude	Latitude Depth Validate step	
CALMAR97 010 13/11/1997 10:21		
	1 Keset	
4.0 1 18.06	1 +	
5.0 1 18.08		
6.0 1 18.08	1 Station number	
	Data type	
9.0 1 18.08	1 Acquisition History	
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	. 07 1 Surface sample	
13.0 1 18.	.06 1 .07 1 • UT/Conversion	
15.0 1 18.	.06 1	=
16.0 1 18.	.05 1	
	.05 1 • Date	
	.04     I       D3     1    First station's data Value on shoese your own format	
20.0 1 18.	.03 1	
21.0 1 18.	.02 1	
22.0 1 18.	.01 1 DD/MM/YYYY	
25.0 1 17.	.98 1 O Manual input	
26.0 1 17.	.94 1	
27.0 1 17.	.92 1 O Automatic input	
	.88 1 Position	
31.0 1 17.	.81 1 Line 3 Start 14 End 23	
32.0 1 17.	.77 3 Set 📿	
33.0 1 17.		
34.0 1 17.	. 6/ I Test 1997-11-13	-

#### 4. Station date

SPARTON XBT-6	<ul> <li>Valuate step</li> </ul>
Cruise Station Date Longitude Latitude Depth	Read
CALMAR97 010 13/11/1997 10:21 2.02 41.07 1	Reset
2.0 1 17.67 1	
3.0 1 17.95 1	
4.0 1 18.06 1	Station number
5.0 1 18.08 1	
6.0 1 18.08 1	Data type
7.0 1 18.08 1	A contribution History
8.0 1 18.08 1	<ul> <li>Acquisition history</li> </ul>
9.0 1 18.08 1	▶ Comments
10.0 1 18.08 1	
11.0 1 18.08 1	Surface sample
12.0 1 18.07 1	UT/Conversion
13.0 1 18.06 1	
14.0 1 18.07 1	▶ Time
15.0 1 18.06 1	h Data
16.0 1 18.05 1	F Date
17.0 1 18.05 1	▼ Latitude
18.0 1 18.04 1	Type in here the latitude or indicate it's position within the file. Always choose
19.0 1 18.03 1	the first station's latitude. You can choose your own format.
20.0 1 18.03 1	
21.0 1 18.02 1	rormat
22.0 1 18.01 1	DD.dd
23.0 1 18.01 1	
24.0 1 18.00 1	Manual Input
25.0 1 17.98 1	
26.0 1 17.94 1	
27.0 1 17.92 1	Automatic input
28.0 1 17.88 1	
29.0 1 17.86 1	Position
30.0 1 17.83 1	Line 3 Start 36 End 40
31.0 1 17.81 1	
32.0 1 17.77 3	Set Variable end of line position or variable start position
33.0 1 17.74 1	
34.0 1 17.67 1	Test N41 04.20
۲ III ا	

🗑 NEMO - [ File N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical\_work\NEMO\XBT\_CALMAR97\_Cruise.txt ]=====[ Model model\_c... 🗖 💷 🔀

#### 5. Station latitude

Coupling Table Options ?

[Cruise / Collection] Station Data

Convert

Model

[File]

🗑 NEMO - [ File N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical_work\NEMO\XBT_CALMAR97_Cruise.txt ]=====[ Model model_c 🗌	- 0 X
Model Coupling Table Options ?	
[File] [Cruise / Collection] Station Data Convert	
SPARTON XBT-6	
Cruise Station Date Longitude Latitude Depth	
CALMAR97 010 13/11/1997 10:21 2.02 41.07 1 💌	
2.0 1 17.67 1 Station number	
4.0 1 10.06 1 Data type	
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7.0 1 18.08 1	
8.0 1 18.08 1	
9.0 1 18.08 1 > Surface sample	
10.0 1 18.08 1	
13.0 1 18.06 1	
14.0 1 18.07 1 Date	
15.0 1 18.06 1	
16.0 1 18.05 1	
17.0 1 18.05 1	=
18.0 I 18.04 I Type in here the longitude or indicate it's position within the file. Always	
20 0 1 18 03 1 choose the first station is longitude. You can choose your own format.	
21.0 1 18.02 1	
22.0 1 18.01 1 D.dd	
23.0 1 18.01 1	
24.0 1 18.00 1 💿 Manual input	
27.0 1 17.92 1	
28.0 1 17.88 1  O Automatic input	
29.0 1 17.86 1 Position	
30.0 1 17.83 1 Line 3 Start 31 End 34	
32.0 I I/.// 3 Set Set Variable end of line position or variable start position	
34.0 1 17.67 1	_
✓ III For E002 01.20	-

#### 5. Station longitude

Medic Coupling Table Conjunct       Charles         FReid [Chaite/Collection]       [Station]       Date Convert         SPARTION XST-6       Longitude       Longitude       Dopth         Child Station Date       Longitude       Longitude       Number         3.0       1       17.95       1       Rest         6.0       1       18.06       1       Rest         9       0.0       1       18.08       1         1.0       1       18.08       1       Rest         1.1       1       18.06       1       Rest         1.1       1       18.08       1       Rest         1.1       1       18.06       1       Rest       Rest         1.1       1       18.06       1       Rest       Rest       Rest         1.1       1       18.08       1       Rest       Rest       Rest       Rest         1.2.0       1       18.06       1       Rest	💿 NEMO - [ File N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical_work\NEMO\XBT_CALMAR97_Cruise.txt ]====[ Model model_c 🗖 💷 🔯
IFIEL         [Cutuice/Collection]         Date         Convert           SPARTON NDT-6         Convert         Depth of the convert         Depth of the convert         Depth of the convert           2.0 11         3.0 1         17.767         1         41.07         1           4.0 1         18.06         1         Depth of the convert         Percent         Percent           0.0 1         18.08         1         Botton 18.08         Here         Percent         Percent           11.0 1         18.08         1         Botton 18.08         Percent         Percent         Percent           11.0 1         18.08         1         Station number         Pate the percent         Pate the percent         Pate the percent           13.0 1         18.05         1         Percent         Pate the percent         Pate the percent           22.0 1         18.05         1         Percent         Pate the percent         Pate the percent           33.0 1         17.70         18.01         1         Pate the percent         Pate the percent           22.0 1         18.01         1         Pate the percent         Pate the percent         Pate the percent           33.0 1         17.78         1         Pate	Model Coupling Table Options ?
	Field       Cruise/Collection       Station       Date       Convert         SPARTON XBT-6       Congitude       Latitude       Depth       Station       Description         CALMAR97       010       13/11/1997       10/21       41.07       Image: Convert of the construction of



- Step 6: Describe the measurements (Data Folder), six mandatory information
  - 1. Select the parameter list you want to use
  - 2. Add the parameters 1 by 1
    - Parameter code, Label, Unit, format, missing value if any, position in the file, position of the QC flag, instrument
    - Test the values
  - 3. Select the vertical reference
  - 4. Select the fall rate

[File]	[Crui	ise / Collection]	[Station]	Data	Convert	:								
Cruise		Station	Date	Lon	gitude	Latitude	Dept	h (m)	QC	Tem	o (deg	Q	-	Data Description
CALMA	AR97	010	13/11/199.	2.02	2	41.07	1.0		1	17.36		1		
							2.0		1	17.67		1		Validate step
							3.0		1	17.95		1		
							4.0		1	18.06		1		Reset
							5.0		1	18.08		1		+
							6.0		1	18.08		1		- Parameters list
							7.0		1	18.08		1		© P09
							8.0		1	18.08		1		
							9.0		1	18.08		1		O P01 Via P09
							10.0		1	18.08		1		P01 via P02
							11.0		1	18.08		1		Measured
							12.0		1	18.07		1		elow sea surface
							13.0		1	18.06		1		C below see bed
							14.0		1	18.07		1	-	
т *(	CODE	LABE		* UNIT		CONVER	TEST	* STA	* END	* FORMA		TEST	TEST	above sea level
	0002		-	0.41		contrenum	1231	51741	2112	1 Onthe				Vertical References
														depth below sea surface
														depth below sea bed
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														height above sea level
														fall rate
														select
•					111								•	secce

NEMO - [File N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical\_work\NEMO\XBT\_CALMAR97\_Cruise.txt]

#### 1. Select the parameter list

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

Model Coupling Table Options ?

NEMO - I File Nyproj       I AHGT Parameters relation _ 801       X         Model Coupling Table       Type in name to file       DE       1 - Filter         Cruise / Control       CODE - NAME       CODE - NAME       Image: Control of the water body       2 - Choose ADEPZZ01         CALMAR97       010       NEDWATI - Depth below surface of the water body       2 - Choose ADEPZZ01       Image: Control of the water body	
Model       Coupling Table       Type in name to filte       DE       1 - Filter         Cruise       Station       CODE - NAME       Image: Coupling Table       Image: Coupling	x
If Hell       ICruise / Cotte       Type in name to filte       DE       I - FILLET         Cruise       Station       CODE - NAME       ADED/IDI1 - Depth below surface of the water body       2 - Choosee ADEEPZZ01         ADED/Z01 - Depth below surface of the water body       2 - Choosee ADEEPZZ01       Code - NAME         ADED/Z01 - Depth below surface of the water body       2 - Choosee ADEEPZZ01       Code - NAME         ADED/Z01 - Depth below surface of the water body       2 - Choosee ADEEPZZ01       Code - NAME         ADED/Z01 - Depth below surface of the bed       DBINAA01 - Depth below surface (ADCP bin)       DBINAA01 - Depth below surface (acoustic doppler wave array bin) in the water body       DEPHPMO1 - Depth below surface (acoustic doppler wave array bin) in the water body       DEPHPMO1 - Depth below surface of the water body by physical measurement         DEPHPM01 - Depth below surface of the water body by profiling pressure sensor and conversion to depth u       DEPHPMO1 - Depth below surface (sampling event end) of the water body by profiling pressure sensor and conversion to depth u         T * CODE       DEPHPMO1 - Depth below surface of the water body by prosical measurement and conversion from height above seabed using b       DEPHPMO1 - Depth below surface of the water body by profiling pressure sensor and conversion to depth u         DEPHPM01 - Depth below surface of the water body by profiling pressure sensor and conversion to depth u       DEPHPMO1 - Depth below surface of the water body by profiling pressure sensor and conversion to d	
Cruise       Station       CODE - NAME         CALMAR97       010       DEPLUT01 - Depth below surface of the water body       2 - ChOOSE ADEEPZZ01         ADE5201 - Depth below surface of the water body       2 - ChOOSE ADEEPZZ01       -         CAHMAR97       010       CAPESS01 - Pressure (spatial Co-ordinate) exerted by the atmosphere by aneroid barometer and expressed at measurement altitude       -         CAPESS01 - Pressure (spatial Co-ordinate) exerted by the atmosphere by aneroid barometer and expressed at measurement altitude       -         COREDIST - Depth below surface of the bed       DBINAW01 - Depth below sea surface (acoustic doppler wave array bin) in the water body       -         DEPHCV01 - Depth below surface of the water body by profiling pressure sensor and converted to seawater depth using UNESCO       -         DEPHPRN1 - Depth below surface of the water body by profiling pressure sensor and conversion to depth       -         DEPHPRN2 - Depth below surface of the water body by profiling pressure sensor and conversion to depth       -         DEPHPRN5 - Depth below surface of the water body by profiling pressure sensor and conversion to depth       -         DEPHPRN2 - Depth below surface of the water body by profiling pressure sensor and conversion to depth       -         DEPHPRN5 - Depth below surface of the water body by profiling pressure sensor and conversion to depth       -         DEPHPRN5 - Depth below surface of the water body by profiling pre	
CALMAR97       010       INCDM011 - Depth below surface of the water body by barometric altimeter       Image: CALMAR97       010         ADEPZZ01 - Depth below surface of the water body       2 - Choose ADEEPZZ01       Image: CALMAR97         ADEPZZ01 - Depth below surface of the water body       2 - Choose ADEEPZZ01       Image: CALMAR97         CALMAR97       010       CAPBSSUL - Pressure (spatial co-ordinate) exerted by the atmosphere by aneroid barometer and expressed at measurement altitude       Image: COREDIST - Depth below surface of the bed         CALMAR97       DEPH Depth below surface of the water body by computation from probe free-fall time using unspecified algorithm       Image: COREDIA         DEPHPK01 - Depth below surface of the water body by profiling pressure sensor and converted to seawater depth using UNESCO       Image: CODE         T       * CODE       DEPHPR01 - Depth below surface (sampling event end) of the water body by profiling pressure sensor and conversion to depth u       Image: CODE         DEPHPRN1 - Depth below surface of the water body by profiling pressure sensor and conversion to depth u       Image: CODE       Image: CODE         T       * CODE       DEPHPR01 - Depth below surface of the water body by profiling pressure sensor and conversion to depth u       Image: CODE         DEPHPR01 - Depth below surface of the water body by measurement and conversion from height above seabed using b       Image: CODE         DEPHPR01 - Depth below surface of the water bod	
ADEPZZ01 - Depth below surface of the water body CAPESSUT - Pressure (spatial co-ordinate) exerted by the atmosphere by aneroid barometer and expressed at measurement altitude COREDIST - Depth below surface of the bed DBINAA01 - Depth below sea surface (ADCP bin) DBINAW01 - Depth below sea surface (acoustic doppler wave array bin) in the water body DEPHCV01 - Depth below surface of the water body by computation from probe free-fall time using unspecified algorithm DEPHPR01 - Depth below surface of the water body by physical measurement DEPHPR01 - Depth below surface of the water body by profiling pressure sensor and conversion to depth u DEPHPR01 - Depth below surface (sampling event start) of the water body by profiling pressure sensor and conversion to depth u DEPHPRST - Depth below surface of the water body by measurement and conversion from height above seabed using b DEPHPRO1 - Depth below surface of the water body by measurement of winch wire out MAXCDIST - Maximum depth below surface of the water body MINCDIST - Minimum depth below surface of the water body MODLVLID - Model level number PRESCX01 - Pressure (spatial co-ordinate) exerted by the water body by profiling pressure sensor PRESCX01 - Pressure (spatial co-ordinate) exerted by the water body by profiling pressure sensor MRXCDIST - Minimum depth below surface of the water body by computation of depth using unspecified drop rate algorit PRSDCT01 - Pressure standard deviation (spatial co-ordinate) exerted by the water body by profiling pressure sensor MRXCDIST - Pressure standard deviation (spatial co-ordinate) exerted by the water body by profiling pressure sensor	
CAPBSSUI - Pressure (spatial co-ordinate) exerted by the atmosphere by aneroid barometer and expressed at measurement altitude         COREDIST - Depth below surface of the bed         DBINAA01 - Depth below se surface (ADCP bin)         DBINAW01 - Depth below sea surface (acoustic doppler wave array bin) in the water body         DEPH-V01 - Depth below surface of the water body by computation from probe free-fall time using unspecified algorithm         DEPHPR01 - Depth below surface of the water body by physical measurement         DEPHPR01 - Depth below surface of the water body by profiling pressure sensor and converted to seawater depth using UNESCO         DEPHPR01 - Depth below surface (sampling event end) of the water body by profiling pressure sensor and conversion to depth u         DEPHPRST - Depth below surface of the water body by physical measurement and conversion from height above seabed using b         DEPHW001 - Depth below surface of the water body by physical measurement and conversion from height above seabed using b         DEPHV01 - Depth below surface of the water body by measurement of winch wire out         MAXCDIST - Maximum depth below surface of the bed         MAXWDIST - Maximum depth below surface of the water body         MINCDIST - Minimum depth below surface of the water body         MODL/ULD - Model level number         PRESCX01 - Pressure (spatial co-ordinate) exerted by the water body by computation of depth using unspecified drop rate algorit         PRSDCT01 - Pressure standard deviation (spatial co-ordinate) exerted b	
COREDIST - Depth below surface of the bed       Image: Core content of the below set of the below set of the below set of the water body by computation from probe free-fall time using unspecified algorithm         DEPHCV01 - Depth below surface of the water body by computation from probe free-fall time using unspecified algorithm       Image: Core content of the water body by computation from probe free-fall time using unspecified algorithm         DEPHPN01 - Depth below surface of the water body by profiling pressure sensor and converted to seawater depth using UNESCO       Image: Core content of the water body by profiling pressure sensor and conversion to depth u         T       * CODE       DEPHPREN - Depth below surface of the water body by physical measurement and conversion to depth u         DEPHPREN - Depth below surface of the water body by physical measurement and conversion to depth u       Image: Core content of the below surface of the water body by physical measurement and conversion to depth u         DEPHPREN - Depth below surface of the water body by physical measurement and conversion from height above seabed using b       Image: Core content of the below surface of the water body by physical measurement and conversion to depth u         DEPHW001 - Depth below surface of the water body by measurement of winch wire out       Image: Core content of the water body by physical measurement and conversion to depth u         MAXCDIST - Maximum depth below surface of the water body       Image: Core content of the water body         MINVDIST - Minimum depth below surface of the water body       Image: Core content of the water body	
DBINAA01 - Depth below sea surface (ADCP bin)       Image: Comparison of the star body       Image: Comparison of the star body         DEPHCV01 - Depth below surface of the water body by computation from probe free-fall time using unspecified algorithm       Image: Comparison of the star body by physical measurement         DEPHPR01 - Depth below surface of the water body by profiling pressure sensor and converted to seawater depth using UNESCO       Image: Comparison of the star body by profiling pressure sensor and conversion to depth u         T * CODE       DEPHPREN - Depth below surface of the water body by physical measurement of the water body by profiling pressure sensor and conversion to depth u       Image: Comparison of the star body by physical measurement of the water body by profiling pressure sensor and conversion to depth u         T * CODE       DEPHPREN - Depth below surface of the water body by physical measurement and conversion from height above seabed using b       Image: Comparison of the star body by physical measurement and conversion from height above seabed using b         DEPHPW001 - Depth below surface of the water body by measurement of winch wire out       MAXCDIST - Maximum depth below surface of the water body         MINCDIST - Minimum depth below surface of the water body       MODLVLID - Model level number       Image: Comparison of depth using unspecified drop rate algorit         PRESCX01 - Pressure (spatial co-ordinate) exerted by the water body by profiling pressure sensor       Image: Comparison of depth using unspecified drop rate algorit         PRESCCT01 - Pressure standard deviation (spatial co-	
DBINAW01 - Depth below sea surface (acoustic doppler wave array bin) in the water body       Image: Constraint of the water body by computation from probe free-fall time using unspecified algorithm         DEPHPC01 - Depth below surface of the water body by physical measurement       DEPHPR01 - Depth below surface of the water body by profiling pressure sensor and converted to seawater depth using UNESCO         DEPHPR01 - Depth below surface (sampling event end) of the water body by profiling pressure sensor and conversion to depth u       DEPHPREN - Depth below surface (sampling event start) of the water body by profiling pressure sensor and conversion to depth u         T       * CODE       DEPHPRST - Depth below surface of the water body by physical measurement and conversion from height above seabed using b         DEPHTC01 - Depth below surface of the water body by measurement of winch wire out       MAXCDIST - Maximum depth below surface of the water body         MINCDIST - Minimum depth below surface of the water body       MINCDIST - Minimum depth below surface of the water body by computation of depth using unspecified drop rate algorit         PRESCX01 - Pressure (spatial co-ordinate) exerted by the water body by computation of depth using unspecified drop rate algorit       PRESCX01 - Pressure standard deviation (spatial co-ordinate) exerted by the water body by profiling pressure sensor	
DEPHCV01 - Depth below surface of the water body by computation from probe free-fall time using unspecified algorithm       Image: Computation from probe free-fall time using unspecified algorithm         DEPHPM01 - Depth below surface of the water body by physical measurement       DEPHPR01 - Depth below surface of the water body by profiling pressure sensor and converted to seawater depth using UNESCO         DEPHPREN - Depth below surface (sampling event end) of the water body by profiling pressure sensor and conversion to depth u         DEPHPREN - Depth below surface (sampling event start) of the water body by profiling pressure sensor and conversion to depth u         DEPHTC01 - Depth below surface of the water body by physical measurement and conversion from height above seabed using b         DEPHW001 - Depth below surface of the water body by measurement of winch wire out         MAXCDIST - Maximum depth below surface of the water body         MINCDIST - Minimum depth below surface of the water body         MODLVLID - Model level number         PRESCX01 - Pressure (spatial co-ordinate) exerted by the water body by profiling pressure sensor         PRESCX01 - Pressure standard deviation (spatial co-ordinate) exerted by the water body by profiling pressure sensor	
DEPHPM01 - Depth below surface of the water body by physical measurement       Image: Constraint of the start body by profiling pressure sensor and converted to seawater depth using UNESCO       Image: Constraint of the start body by profiling pressure sensor and conversion to depth u         T       * CODE       DEPHPREN - Depth below surface (sampling event end) of the water body by profiling pressure sensor and conversion to depth u       Image: Constraint of the start of the water body by profiling pressure sensor and conversion to depth u         T       * CODE       DEPHPREN - Depth below surface of the water body by physical measurement and conversion from height above seabed using b       Image: Constraint of the start body by measurement of winch wire out         MAXCDIST - Maximum depth below surface of the water body       MINCDIST - Maximum depth below surface of the water body       Image: Constraint of the start body         MINCDIST - Minimum depth below surface of the water body       MINCDIST - Minimum depth below surface of the water body       Image: Constraint of the water body         MINWDIST - Minimum depth below surface of the water body       MINWDIST - Minimum depth below surface of the water body       Image: Constraint of the water body by computation of depth using unspecified drop rate algorit         PRESCX01 - Pressure standard deviation (spatial co-ordinate) exerted by the water body by profiling pressure sensor       Image: Constraint of the start body by profiling pressure sensor         PRSDCT01 - Pressure standard deviation (spatial co-ordinate) exerted by the water body by profiling pressure sensor	
DEPHPR01 - Depth below surface of the water body by profiling pressure sensor and converted to seawater depth using UNESCO       Image: Control is the province of the water body by profiling pressure sensor and conversion to depth u         T       * CODE       DEPHPRST - Depth below surface (sampling event start) of the water body by profiling pressure sensor and conversion to depth u         DEPHPRST - Depth below surface of the water body by physical measurement and conversion from height above seabed using b       Image: DEPHW001 - Depth below surface of the water body by measurement of winch wire out         MAXCDIST - Maximum depth below surface of the water body       MINCDIST - Maximum depth below surface of the water body         MINVDIST - Minimum depth below surface of the water body       MINVDIST - Minimum depth below surface of the water body         MODLVLID - Model level number       PRESCX01 - Pressure (spatial co-ordinate) exerted by the water body by computation of depth using unspecified drop rate algorit         PRSDCT01 - Pressure standard deviation (spatial co-ordinate) exerted by the water body by profiling pressure sensor	
Image: Code       DEPHPREN - Depth below surface (sampling event end) of the water body by profiling pressure sensor and conversion to depth u         T       * CODE       DEPHPREN - Depth below surface (sampling event start) of the water body by profiling pressure sensor and conversion to depth u         T       * CODE       DEPHPREN - Depth below surface of the water body by physical measurement and conversion from height above seabed using b         DEPHW001 - Depth below surface of the water body by measurement of winch wire out       MAXCDIST - Maximum depth below surface of the water body         MAXWDIST - Maximum depth below surface of the water body       MAXWDIST - Maximum depth below surface of the water body         MINCDIST - Minimum depth below surface of the water body       MINCDIST - Minimum depth below surface of the water body         MODLVLID - Model level number       PRESCX01 - Pressure (spatial co-ordinate) exerted by the water body by computation of depth using unspecified drop rate algorit         PRSDCT01 - Pressure standard deviation (spatial co-ordinate) exerted by the water body by profiling pressure sensor	
T       * CODE       DEPHPRST - Depth below surface (sampling event start) of the water body by profiling pressure sensor and conversion to depth u         DEPHTC01 - Depth below surface of the water body by physical measurement and conversion from height above seabed using b       DEPHW001 - Depth below surface of the water body by measurement of winch wire out         MAXCDIST - Maximum depth below surface of the water body       MAXWDIST - Maximum depth below surface of the water body         MINCDIST - Minimum depth below surface of the water body       MINWDIST - Minimum depth below surface of the water body         MODLVLID - Model level number       PRESCX01 - Pressure (spatial co-ordinate) exerted by the water body by profiling pressure sensor         PRSDCT01 - Pressure standard deviation (spatial co-ordinate) exerted by the water body by profiling pressure sensor       Maxer body by profiling pressure sensor	
DEPHTC01 - Depth below surface of the water body by physical measurement and conversion from height above seabed using b         DEPHW001 - Depth below surface of the water body by measurement of winch wire out         MAXCDIST - Maximum depth below surface of the bed         MAXWDIST - Maximum depth below surface of the water body         MINCDIST - Minimum depth below surface of the bed         MINCDIST - Minimum depth below surface of the water body         MINUDIST - Minimum depth below surface of the water body         MODLVLID - Model level number         PRESCX01 - Pressure (spatial co-ordinate) exerted by the water body by computation of depth using unspecified drop rate algorit         PRSDCT01 - Pressure standard deviation (spatial co-ordinate) exerted by the water body by profiling pressure sensor	
DEPHW001 - Depth below surface of the water body by measurement of winch wire out       Image: Content of the water body below surface of the below surface of the below surface of the water body         MAXWDIST - Maximum depth below surface of the water body       Image: Content of the below surface of the water body         MINCDIST - Minimum depth below surface of the water body       Image: Content of the below surface of the water body         MINWDIST - Minimum depth below surface of the water body       Image: Content of the water body         MODLVLID - Model level number       Image: Content of the water body by computation of depth using unspecified drop rate algorit         PRESCX01 - Pressure (spatial co-ordinate) exerted by the water body by profiling pressure sensor       Image: Content of the water body by profiling pressure sensor	
MAXCDIST - Maximum depth below surface of the bed       Image: Comparison of the second	
MAXWDIST - Maximum depth below surface of the water body       Image: Comparison of the below surface of the below surface of the below surface of the water body         MINCDIST - Minimum depth below surface of the water body       Image: Comparison of the water body         MINWDIST - Model level number       Image: Comparison of the water body by computation of depth using unspecified drop rate algorit         PRESCX01 - Pressure (spatial co-ordinate) exerted by the water body by profiling pressure sensor       Image: Comparison of the water body by profiling pressure sensor	
MINCDIST - Minimum depth below surface of the bed       MINWDIST - Minimum depth below surface of the water body         MINWDIST - Minimum depth below surface of the water body       MODLVLID - Model level number         PRESCX01 - Pressure (spatial co-ordinate) exerted by the water body by computation of depth using unspecified drop rate algorit         PRSDCT01 - Pressure standard deviation (spatial co-ordinate) exerted by the water body by profiling pressure sensor	
MINWDIST - Minimum depth below surface of the water body         MODLVLID - Model level number         PRESCX01 - Pressure (spatial co-ordinate) exerted by the water body by computation of depth using unspecified drop rate algorit         PRSDCT01 - Pressure standard deviation (spatial co-ordinate) exerted by the water body by profiling pressure sensor	
MODLVLID - Model level number PRESCX01 - Pressure (spatial co-ordinate) exerted by the water body by computation of depth using unspecified drop rate algorit PRSDCT01 - Pressure standard deviation (spatial co-ordinate) exerted by the water body by profiling pressure sensor	
PRESCX01 - Pressure (spatial co-ordinate) exerted by the water body by computation of depth using unspecified drop rate algorit PRSDCT01 - Pressure standard deviation (spatial co-ordinate) exerted by the water body by profiling pressure sensor	
PRSDCT01 - Pressure standard deviation (spatial co-ordinate) exerted by the water body by profiling pressure sensor	
•	
Log Info Help	
	^
Select Cancel 3 - Select	

2. Add the parameters 1 by 1 (by **Right click** in the parameter table to open the contextual Menu) → **Parameter code** 



💷 P06

Т.,	* CODE	LABE
	ADEPZZ01 - D	Dept
		-

# 2. Add the pa → Type the → Select the

	Type in name to filter metre		
	Unit	Abbr.	Code
buol	Kilometres per day	km/d	KMDY
louu	Metres	m	ULAA
	Metres per second	m/s	UVAA
	Metres per second squared	m/s^2	MPS2
	Metres per year	m/yr	MPYR
	Metres to the power four per seco	m^4/s	M4S1
	MicroEinsteins per cubic metre pe	uE/m^3/s	UMEC
1.105	MicroEinsteins per square centime	uE/cm^2/h	UECH
LABE	MicroEinsteins per square metre p	uE/m^2/s	UMES
Dept	MicroGals per metre	uGal/m	UGPM
	Micrograms per cubic centimetre	ug/cm^3	XGCC
	Micrograms per cubic metre	ug/m^3	MCUG
	Micrograms per cubic metre per h	ug/m^3/h	UGM3
	Micrograms per five cubic centim	ug/5cm^3	WXCC
	Micrograms per square metre per	ug/m^2/d	UUDX
	Micrometres (microns)	um	UMIC
	Micromoles per cubic metre	umol/m^3	CMUM
	Micromoles per square metre per	umol/m^2	UUUD
-	Micromoles per square metre per	umol/m^2	UMFX
	Micromoles per square metre per	umol/m^2	UM2S
	MilliSiemens per centimetre	msS/cm	MSCM
	MilliSiemens per metre	mS/m	MSPM
e pa	Millibecquerels per square metre	mBq/m2/d	MBQF
	Milligrams of carbon per (microEi	mgC/(uE/	UCLC
ho	Milligrams per cubic metre	mg/m^3	UMMC
.IIC	Milligrams per cubic metre per day	mg/m^3/d	UGDC
the	Milligrans per cubic metre per hour	mg/m^3/h	UGLH
	Milligrams per square metre	mg/m^2	UMMS
	Milligrams per square metre per day	mg/m^2/d	UGDX
	Milligrams per square metre per h	mg/m^2/h	MGSQ
	Milligrams per square metre per in	mg/m^2/i	UM2D

June 2018 .. TEST ... TEST

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sdn-userdesk@seadata

Cancel

Select



	ADEPZZ01 - D	Depth

# Add the paran Select the for

sdn-userdesk@seadatanet.org - www.s

P06		l	23	
Type in name to filter				
format		example		Ostend
%3d		999		
%4d		9999		
%5d		99999		
%6d		999999		
%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		
%6.2f		999.99		
%7.3f		999.999		
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%9.4f		9999.9999		
%10.5f		9999.99999		
%7.1f		99999.9		
%8.2f		99999.99		
%9.3f		99999.999		
%10.4f		99999.9999		
%11.5f		99999.99999		
%4d		-999		
%5d		-9999	-	
Select	Cancel			

Ostende, Belgium, 20-27 June 2018

NEI	🔵 NEMO - [ Fil	le N:\projets	\seadatacloud\Me	etings\Training	Workshops	2018-06 Trainin	g 1\Practic	al_work\NEMO\XBT_	CALMAR97	Cruise.tx	t]	
odel	Model Coup	ling Table	Options ?									
File]	[File] [Crui	ise / Collecti	on] [Station] D	ata Convert								
Cruis	Cruise	Station	Date	Longitude	Latitude	Depth (m)	QC	Temp (deg	Q	<b>^</b>	Data Des	cription
ALI	CALMAR97	010	13/11/199	2.02	41.07	1.0	1	17.36	1			
_			1 — Cli	ck on	the	2.0	1	17.67	1		Validate step	2
					-	3.0	1	17.95	1		Reset	
			colum	n he	ade	5.0	1	18.08	1		+	
						6.0	1	18.08	1		_ Parameters	list
			of the	nara	me	l d'î	1	18.08	1		P09	n st
-1				para		8.0	1	18.08	1		O P01 via P	09
						9.0	1	18.08	1		© 001	<del>9</del> 2
						Set start/	end	2 6		4		
						occocare .		2-3	elec	L		surface
						Update te	st	Cata		1		bed
Ш						Daramata	e liet	Set s	ταιτ	/er	10	level
	T * CODE	LA	ABEL *	UNIT	C	Paramete	r iist					
	ADEPZZO	01 - D De	epth N	/letres	x*.	Select an	instru	ment				sea surface
Ш												
Н						Select a P	06 uni	t				
Н						Select a fr	ormat					sea bed
H						ociect a n	Juniar					
I						Move cur	rent p	arameter up	to top			
I												-
						wove cur	rent p	arameter up				sea level
						Move cur	rent p	arameter do	wn			-
						Move cur	rent p	arameter do	wn to b	otton	n	
							<b>F</b>					select
					-	Delete cu	rrent p	parameter				
	2 1	44+	hana	ramo	t.							
	Z. A	uut	ine hai	and	L L	Set flag						
						D I I 0						
		set t	he bo	sitio	1	Delete fla	g					
	san-userc	iesk@se	adatanet.org	– www.se	90	Delete all	paran	neters				

NEMO - [File N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical\_work\NEMO\XBT\_CALMAR97\_Cruise.txt ]

Model Coupling Table Options ?

[File] [Cr	ruise / Colle	ection] [Statio	on] Data Conv	/ert											
Cruise	Stat	tion	Date	Longitude	Latitude	Dept	h (m)	QC		Temp	(deg. C)	Q	•	Data Description	
CALMAR97	010		13/11/1997 10:	2.02	41.07	1.0		1		17.36		1			
			1		ما به مر	2.0		1		17.67		1		Validate step	
			T – C	пск с	n th	<b>e</b> <sup>3.0</sup>		1		17.95		1		Reset	
						5.0		1		18.08		1			
			colu	mn h	eade	6.0		1		18.08		1		+ 	
					Cuu	7.0		1			_				
			of th		flag	8.0		1			Set st	art/end			
			UIU	ie Qu	llag	9.0		1							
						10.0		1			Upda	te test			
						12.0		1			Dara	notor list			
						13.0		1			raidi	neter list			
						14.0		1			Selec	t an instrum	ne	nt	
T * CODE	E	LABEL	* UNIT	CONVER	TEST * STA	* END	* FORMAT	INPU	TEST						
ADEPZ	Z01 - D	Depth	Metres	x*1	6	6	66.1f				Selec	t a P06 unit			
											Selec	t a format			
											Mov	e current na	ra	meter up to top	
											1410.41	- current pu		inclui up to top	
											Mov	e current pa	ra	meter up	
											Mov	e current pa	ira	meter down	
											Mov	e current pa	ira	meter down to bottom	
												- cancine pa			
											Delet	e current pa	ara	imeter	
										Г	C 4			2 – Select	
											Set TI	ag			
	2.	Add	the p	aram	leter	s 1	by 1	1			Delet	e flag		Set flag	
												-		•	
Set the position of the QC fla												Delete all parameters			

Model Cou	File N:\pro upling Table	jets\seadatacl e Options	oud\Meetings\Trair ?	ning Workshops\	2018-06	1.22							23
[File] [Ci	ruise / Coll	ection] [Stat	ion] Data Con	vert		Type in name	to filter	Spar		1	<ul> <li>Look for</li> </ul>	' Spart	on
Cruise	Sta	tion	Date	Longitude	Latit	ID	label						
CALMAR97	7 010		13/11/1997 10:	2.02	41.0	T0010542	Transp	rent comple b	ettle				
						TOOL0713	Spartor	AXBT		2 – 3	Select SPA	RTON	AXBT
T * CODI	E	LABEL	* UNIT	CONVER	TEST								
ADEP2	2201 - D	Depth	Wetres	X.T									
า	٨	ا حا حا			<b>-</b>								
Z	. A(	it Di	ie par	ame	lei								
_		-+ +	ho inc	+									
	73	ειί	ne ms	uun	ier			III					•
	sdn-u	serdesk@	gseadatanet	t.org – ww	w.sea	Select	ſ	Cancel		3.	<ul> <li>Validate</li> </ul>		

NEMO - [File N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical\_work\NEMO\XBT\_CALMAR97\_Cruise.bxt ]

Model Coupling Table Options ?

ruise	Station	n Da	ate	Longitude	Latit	ude	Dent	th (m)	00	Temr	(deg. C)	0		
	010	13	/11/1997 10-	2.02	41 07		10		1	17.36	(deg. e)	1		Data Description
ALMAIO	010	15	,11,1557 10	2.02	41.07		2.0		1	17.67		1		Validate step
							3.0		1	17.95		1		
							4.0		1	18.06		1		Reset
							5.0		1	18.08		1		+
							6.0		1	18.08		1		Parameters list
							7.0		1	18.08		1		© P09
							9.0		1	18.08		1		P01 via P09
							10.0		1	18.08		1		P01 via P02
							11.0		1		Set d	tart/end		
							12.0		1		0003	care circ		
							13.0		1		Upda	ate test		
										- <b>-</b>				
* CODE	LA	ABEL	* UNIT	CONVER	TEST	* STA	* END	* FORMAT	INPU TES	T	Para	meter list		
ADEPZZ01 -	D De	epth	Metres	x*1		6	6	%6.1f			e 1			
											Selec	t an instrur	ne	nt
											Selec	t a P06 unit	t	
											Selec	t a format:		
											Mov	e current pa	ara	meter up to top
											Mov	e current pa	ara	meter up
											Mov	e current n:		meter down
											TYTOY	e cuntent pe		meter down
										-	Mov	e current pa	ara	meter down to bottom
											Delet	te current p	ara	ameter
2						4		4			Set fl	aq		
2. F	١d	d the	e par	amei	ter	S1	b\	/ 1				-9		
_											Delet	te flag		
$\rightarrow$	Te	st yo	bur i	nput							Delet	e all param	et	ers

😇 NEMO - [ File N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical\_work\NEMO\XBT\_CALMAR97\_Cruise.txt ]

Model Coupling Table Options ?

[File]	[Cruise /	Collection] [St	tation] Dat	ta Conve	ert											
Cruise	•	Station	Date	L	ongitude	Latitud	le	Depth	(m)	QC		Temp (deg.	C) (	Σ	<u>^</u>	Data Description
CALM	IAR97	010	13/11/19	997 10 2	.02	41.07		1.0		1		17.36	1			
								2.0	:	1		17.67	1			Validate step
								3.0		1		17.95	1			Recet
								4.0		1		18.06	1			
								5.0	:	1		18.08	1			+
								6.0				18.08	1			Parameters list
								7.0				18.08	1			© P09
								8.0		1		18.08	1			P01 via P09
								9.0	· · · · · · · · · · · · · · · · · · ·	1		10.08	1			@ P01 via P02
								11.0	· · · · ·	1		18.08	1			
								12.0		1		18.07	1			Measured
								13.0		-		18.06	1			below sea surface
								14.0		-		18.07	1			below sea bed
															Ŧ	o above sea level
T., *	CODE	LABEL	*U	JNIT	CONVER	TEST	* STA	* END	* FORMAT	INPU	TEST	TEST	STAR	. END	INST	Vertical References
	DFP7701 -	D Denth	Me	etres	x*1	10	6	6	%6.1f		1	1	7	7	Spart.	depth below sea surface
T	EMPET01 -	T Temperat	ure De	grees Cels	. x*1	17,36	8	8	%5.2f		1	1	9	9	Spart	
		_	_				_				-			-	_	
																depth below sea bed
																<b>v</b>
																Dressure
																pressure
																<b></b>
																height above sea level
																fall rate
		1	1				111		1	1		1		1	4	select

- • ×

#### 2. Add the parameters 1 by 1

→ Input the temperature

NEMO - [File N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical\_work\NEMO\XBT\_CALMAR97\_Cruise.txt]

Model Coupling Table Options ?

	Station	Date	Longitude	Latitu	ıde	Depth	ı (m)	QC		Temp (deg	g. C)	Q	<u>^</u>	Data Description
lmar97	010	13/11/1997 10:	2.02	41.07		1.0		1		17.36		L		
						2.0		1		17.67	1	L		Validate step
						3.0		1		17.95	1	L		
						4.0		1		18.06	1	L		Reset
						5.0		1	:	18.08	1	L		+
						6.0		1		18.08	1	L		Parameters list
						7.0		1		18.08	1	L		© P09
						8.0		1		18.08	1	L		P01 via P09
						9.0		1		18.08	1	L		© 001 via 002
						10.0		1		18.08	1	L		PUI VIA PUZ
						11.0		1		18.08	1	L		Measured
						12.0		1		10.07	1	L I		elow sea surface
						14.0		1		10.00		L I		below sea bed
						15.0		1		18.06		L I		above sea level
						16.0		1		18.05		- 		- Marial Deferment
						17.0		1		18.05		-		denth below sea surface
						18.0		1		18.04	1		-	
* CODE	LABEL	* UNIT	CONVER	TEST	* STA	* END	* FORMAT	INPU	TEST	TEST	STAR	END	INST	ADEPZZ01 -
ADEPZZ01	- D Depth	Metres	x*1	1,0	6	6	%6.1f		1	1	7	7	Spart	depth below sea bed
TEMPETOI	- T Temper	ature Degrees Ce	le v*1	17.26	8	8	9/5 2f		1	1	9	0		
TEIVIPETUL	- Tan Temper	atore begrees ee	15 X I	17,50	0	•	/03.21		1	1	-	5	Spart	T
TEIVIPETUI	- Tai Temper	iture begrees ee	IS X I	17,50	U	0	/63.21		1	1	-	,	Spart	
TEIVIPETUI	- Tim Temper		IS X I	17,50	0	0	765.21		1	1	-	5	Spart	pressure
TEIVIPETUI	- T Temper		15 X 1	17,50			/63.21		1	1		5	Spart	pressure
TEMPETUL				17,50			/03.21		1	1		5	Spart	pressure
TEMPETUL				17,50			763-21		1	1		5	Spart	pressure height above sea level
TEMPETUL				17,50			765-21			1			Spart	pressure height above sea level
TEMPETUL				17,50			765-21						Spart	pressure height above sea level fall rate
				17,30			/0./21						Spart	ressure height above sea level fall rate select
				17,30									Spart	ressure ressure height above sea level fall rate select
				17,50									Spart	pressure  height above sea level  fall rate  select
				17,50									Spart	ressure ressur

#### 3. Select the vertical reference

→ ADEPZZ01

ile] [Cruise	e / Collection]	[Station] Data Co	nvert				_	in name to mee	spai	1 1 - 10		i Sparto
ruise	Station	Date	Longitude	Latit	ude	Depth (r	m)	Alt. label		Preferred label		
ALMAR97	010	13/11/1997 10:	2.02	41.07		1.0		WMO:C-3:	401	Sparton XBT-1		
						3.0		WMO:C-3:	411	Sparton XBT-3		
						4.0		WMO:C-3:	421	Sparton XBT-4		
						5.0		WMO:C-3:	431	Sparton XBT-5		
						7.0		WMO:C-3:	441	Sparton XBT-5DB		
						8.0		WMO:C-3:	451	Sparton XBT-6		
						9.0		WMO:C-3:	461	Sparton XBT-7		
						11.0		WMO:C-3:	462	Sparton XBT-7		
						12.0		WMO:C-3:	471	Sparton XBT-7DB		
						13.0		WMO:C-3:	481	Sparton XBT-10		
						14.0		WMO:C-3:	491	Sparton XBT-20		
						16.0		WMO:C-3:	501	Sparton XBT-20DB		
						17.0		WMO:C-3:	510	Sparton 536 AXBT		
* CODE	LABEL	* UNIT	CONVER.	TEST	* STA	18.0 * END *	* •					
ADEPZZ01	- D Depth	Metres	x*1	1,0	6	6	%					
TEMPET01	- T Tempe	erature Degrees Ce	ls x*1	17,36	8	8	%	2 – S	elect	SPARTO	)N 53(	6 AXBT
			C 11									
4	. Sel	ect the	tall	rate	<u>5</u>							

#### 🗑 NEMO - [File N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical\_work\NEMO\XBT\_CALMAR97\_Cruise.txt ]

Model Coupling Table Options ?

[File] [Cruise	/ Collecti	ion] [Station]	Data Con	vert											
Cruise	Station	n Da	ate	Longitude	Latitu	ıde	Depth	n (m)	QC		Temp (de	g. C)	Q	*	Data Description
CALMAR97	010	13	/11/1997 10:	2.02	41.07		1.0		1		17.36		1		
							2.0		1		17.67		1		Validate step
							3.0		1		17.95		1		Reset
							4.0		1		18.06		1		nescr
							5.0		1		18.08		1		+
							6.0		1		18.08		1		Parameters list
							7.0		1		18.08		1		P09
							8.0		1		18.08		1		P01 via P09
							9.0		1		18.08		1		
							10.0		1		18.08		1		POI VIA POZ
							11.0		1		18.08		1		Measured
							12.0		1		18.06		1		ø below sea surface
							14.0		1		18.07		1		🔘 below sea bed
							15.0		- 1		18.06		- 1		above sea level
							16.0		- 1		18.05		- 1		Vertical References
							17.0		1		18.05		1		denth below sea surface
							18.0		1		18.04		1	-	
F * CODE	L	ABEL	* UNIT	CONVER	TEST	* STA	* END	* FORMAT	INPU	TEST .	TEST	STAR	. END	INST	ADEPZZ01 -
ADEPZZ01	- D D	epth	Metres	x*1	1.0	6	6	%6.1f		1	1	7	7	Spart	depth below sea bed
TEMPET01	- T Te	emperature	Degrees Cels	x*1	17.36	8	8	%5.2f		1	1	9	9	Spart	·
			1												¥
															pressure
															<b>—</b>
															height above sea level
															fall rate
															select
															510
															Sparton 536 AXBT
															reset
		1					1			-					
og Info	Help														
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۲	NEMO - [ File N:\projets\seadatacloud\Meetings	\Training Workshops\2018-06	Training 1\Practical	_work\NEMO\XBT_	CALMAR97_C	Cruise.txt ]

Model Coupling Table Options ?

[File]	[Cruise /	Colle	ction] [Statio	on] [Data] Cor	nvert												
Cruise		Stat	ion	Date	Lor	ngitude	Latitu	de	Depth	ı (m)	QC		Temp (deg	g. C) (	2	-	Data Description
CALM	AR97	010		13/11/1997 10:	2.02	2	41.07		1.0		1	:	17.36	1	L		Data Description
									2.0		1	:	17.67	1			Validate step
									3.0		1	:	17.95	1			Reset
									4.0		1	:	L8.06	1	l		Reset
									5.0		1	:	L8.08	1			+
									6.0		1	:	18.08	1			Parameters list
									7.0		1	:	18.08	1			© P09
									8.0		1		18.08	1			P01 via P09
									9.0		1		18.08	1			D01 via D02
									10.0		1		10.08	1			POI VIA POZ
									12.0		1		10.00	1			Measured
									12.0		1		18.06	1	•		<ul> <li>below sea surface</li> </ul>
									14.0		1		18.07	1			below sea bed
									15.0		- 1		18.06	1	•		above sea level
									16.0		1		18.05	1	l		Vertical Beferences
									17.0		1		18.05	1	L		depth below sea surface
									18.0		1		8.04	1			
T., *	CODE		LABEL	* UNIT		CONVER	TEST	* STA	* END	* FORMAT	INPU	TEST	TEST	STAR	END	INST	ADEPZZ01 -
	DEPZZ01 -	D	Depth	Metres		x*1	1,0	6	6	%6.1f		1	1	7	7	Spart	depth below sea bed
T	EMPET01 -	т	Temperature	Degrees Cel	s	x*1	17,36	8	8	%5.2f		1	1	9	9	Spart	
				-													
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Step va	lidated, you	u can	proceed to ne	xt one!													
4																	v
4																	4



- Step 7: Save your model
   Menu Model> Save model
- Step 8: Run the conversion and the creation of the CDI\_Summary file for MIKADO
  - The CDI\_SUMMARY will be used later on during the MIKADO training

🛢 NEMO - [ File N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical_work\NEMO\XBT_CALMAR97_Cruise.txt ]====[ Model model_c 🗖	
Model Coupling Table Options ?	
[File] [Cruise / Collection] [Station] [Data] Convert	
Conversion	
Summary	
Parameters list: P01_VIA_P02	
File type: PROFILE	
Input file: N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical_work\NEMO\XBT_CALMAR97_Cruise.txt	
Model file: N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical_work\NEMO\model_calmar97_ODV.xml	
Conversion format: ODV_MULTISTATIONS, One unique file for all stations	
CDI summary will be created coupling table will be updated	
ODV date format: time ISO8601 [YYYY-MM-DDThh:mm:ss.sss]	
Start conversion	
Log Info Help	
==== ODV conversion completed ====	*
batch command: nemo_batch -i "N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical_work\NEMO\XBT_CALMAR97_Cruise.txt" -m "N:\projets\seadatacloud\Me	eetings\Ti
< <u> </u>	


# Step 9 : After the conversion

- 1. Check the output file
- 2. Check the CDI\_SUMMARY.txt file
- 3. Check the Coupling table

TextPad - NL\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical_work\NEMO\FI351997010120.txt	
Fichier Edition Recherche Affichage Outils Macros Configuration Fenêtre Aide	
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1351997010120.bdt ×	<b>→</b> ×
<pre>//sdm_reference xlink:href="http://seadatanet.maris2.nl/v_cdi_v3/print_xml.asp?edmo=466identifier=FI351997010120_00500_H13" xlink:role="isDescribedBy" xlink:type="SDN:L23::CDI" sc //sdm_reference xlink:href="http://seadatanet.maris2.nl/v_cdi_v3/print_xml.asp?edmo=486identifier=FI351997010120_00600_H13" xlink:role="isDescribedBy" xlink:type="SDN:L23::CDI" sc //sdm_reference xlink:href="http://seadatanet.maris2.nl/v_cdi_v3/print_xml.asp?edmo=486identifier=FI351997010120_0060_H13" xlink:role="isDescribedBy" xlink:type="SDN:L23::CDI" sc //sdm_reference xlink:href="http://seadatanet.maris2.nl/v_cdi_v3/p</pre>	In: scope="486:FI35199701 In: scope="486:FI3519
<pre>//SDN_parameter_mapping //subject&gt;SDN:DCAL:Depth<object>SDN:PO1::ADEP2Z01</object><units>SDN:PO6::ULAA</units><instrument>SDN:L22::TOOL0713</instrument><fall_rate>SDN:L33::510</fall_rate> //subject&gt;SDN:L0CAL:Temperature<object>SDN:PO1::TEMPET01</object><units>SDN:PO6::UPAA</units><instrument>SDN:L22::TOOL0713</instrument></pre>	
// Cruise Station Type YYYY-MM-DDThh:mm:ss.sss Longitude [degrees_east] Latitude [degrees_north] LOCAL_CDI_ID EDMO_code Bot. Depth [m] Depth [Metres] QV:SE CALMAR97 010 C 1997-11-13T10:21:00.000 +002.020000 +41.070000 FI351997010120_00010_H13 486 1.0 1 17.36 1 2.0 1 17.67 1	LADATANET Temperature

3.0 1 17.95 1 4.0 1 18.06 1 5.0 1 18.08 1 6.0 1 18.08 1 7.0 1 18.08 1 8.0 1 18.08 1 9.0 1 18.08 1 10.0 1 18.08 1 11.0 1 18.08 1 12.0 1 18.07 1 13.0 1 18.06 1 14.0 1 18.07 1 15.0 1 18.06 1 16.0 1 18.05 1 17.0 1 18.05 1 18.0 1 18.04 1 19.0 1 18.03 1 20.0 1 18.03 1 21.0 1 18.02 1 22.0 1 18.01 1 23.0 1 18.01 1 24.0 1 18.00 1 25.0 1 17.98 1 • ш

chier : FI351997010120.txt, 1124746 octets, 40790 lignes, PC, ANSI

### 1. Check the output ODV file

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

TextPad - N:\projets\seadatacioud\weetings	s\Training wor	rkshops\2010	5-06 Training 1\Practic	al_work(CDI_SOIVIIVIARY.D	π										
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LOCAL CDI ID> EDMO AUTHOR>	AREA TY	PE)	DATASET NAME >	DATASET ID>	DATASET REV	DATE	EDMO ORIGINATOR	O DATASE	T_ABS>	EDMO C	USTODIAN	PUZ CODE	PLATFO	RM TYPE > DATASE	T ACCESS> CRUI
F1351997010120_00010_H13>	486	Point +	CALMAR97>	F135199/010120>	2018-06-12	485	Not Specified	400	AHGI	31)	LSP	CALMAR9 / >	010+	+41.070000	+002.020000
FI351997010120_00010_H13>	486	Point >	CALMAR97>	FI35199/010120>	2018-06-12>	485)	Not Specified	486	ARGI >	31)	121	CALMAR9 / >	010+	+41.070000	+002.0200000
F1351997010120_00010_H13;	100	Point	CALMAR97,	FI351997010120+	2018-06-12	100,	Not Specified,	400	TEMP,	31,	12,	CALMAR97,	010+	+41.070000.0	+002.0200000
FI351997010120_00010_H13;	1001	Point,	CALMAR97	FI351997010120F	2018-06-12	1001	Not Specified	496	TEMP -	21.	10,	CALMAR97	010+	+40.870000.0	+002.020000
FI351997010120_00020_H135	1001	Point,	CALMAR97 >	FI351997010120F	2018-06-12	1001	Not Specified	100	ANGI	21.	101	CALMAR97	0201	+40.870000.0	+001.780000 =
FI351997010120_00020_H13,	1007	Point	CALMARS //	FI3519970101207	2018-06-127	1057	Not Specified,	1007	TEMD	21.	12,	CALMARO7,	0207	140.870000.	1001.7800007
FI351997010120_00020_H13	486	Points	CALMARG	FT351997010120	2018-06-12	485	Not Specified	486	TEMP	31.	TSN	CALMARO7 .	0201	+40.870000.5	+001.780000
FI351997010120_00020_H13	486	Points	CALMARS	FT351997010120,	2018-06-12	495	Not Specified	486	AHGT	31.	TSN	CALMARS //	0201	+40.580000.	+001 620000
FI351997010120_00030_H13	496	Points	CALMARS	FT351997010120	2018-06-12	495	Not Specified	486	AHGT	31.	TSN	CALMARG	0301	+40.580000	+001.620000
FI351997010120_00030_H13	486	Point	CALMAR97	FT351997010120	2018-06-12	485	Not Specified	486	TEMP	31.	LS	CALMAR97	0301	+40 580000.0	+001 620000
FI351997010120_00030_H13	486	Point	CALMAR97	FT351997010120	2018-06-12	485	Not Specified	486	TEMP	31.	LSA	CALMAR97	0301	+40 580000.0	+001 620000
FI351997010120_00040_H13	486	Point	CALMAR97	FT351997010120	2018-06-12	485	Not Specified	486	AHGT	31.	LSA	CALMAR97	040 5	+39 800000.1	+001 120000
FI351997010120_00040_H13	486	Point	CALMAR97	FT351997010120	2018-06-12	485	Not Specified	486	AHGT	31.	LSA	CALMAR97	040	+39 800000.1	+001 120000
FI351997010120_00040_H13	486	Point	CALMAR97	FT351997010120	2018-06-12	485	Not Specified	486	TEMP	31.	LSA	CALMAR97	040	+39 800000.1	+001 120000
FI351997010120_00040_H13	486	Point	CALMAR97	FT351997010120	2018-06-12	485	Not Specified	486	TEMP	31.	LSE	CALMAR97	040	+39.800000	+001.120000
FI351997010120_00050_H13	486	Point.	CALMAR97	FT351997010120	2018-06-12	485	Not Specified	486	AHGT	31.	LSE	CALMAR97	0501	+39 730000	+001 080000
FI351997010120_00050_H13	486	Point	CALMAR97	FT351997010120	2018-06-12	485	Not Specified	486	AHGT	31.	LSE	CALMAR97	0501	+39 730000	+001 080000
FI351997010120_00050_H13	486	Point	CALMAR97	FT351997010120	2018-06-12	485	Not Specified	486	TEMP	31.	LSE	CALMAR97	0501	+39 730000.1	+001 080000
FI351997010120_00050_H13}	486	Point.	CALMAR97 )	FT351997010120	2018-06-12	485	Not Specified	486	TEMP	31.	LSE	CALMAR97	050+	+39.730000	+001.080000
FI351997010120 00060 H13	486	Point	CALMAR97	FT351997010120	2018-06-12	485	Not Specified	486	AHGT	31.	LSE	CALMAR97	060	+39.780000++	+001.550000
FI351997010120 00060 H13	486	Point	CALMAR97	FT351997010120	2018-06-12	485	Not Specified	486	AHGT	31.	LSE	CALMAR97	060	+39.780000++	+001.550000
FI351997010120 00060 H13	486	Point	CALMAR97	FT351997010120	2018-06-12	485	Not Specified	486	TEMP	31.	LSE	CALMAR97	060	+39.780000	+001.550000
FI351997010120 00060 H13>	486	Point +	CALMAR97	FI351997010120	2018-06-12	485	Not Specified	486)	TEMP	31)	LS>	CALMAR97	060	+39.780000.)	+001.550000)
FI351997010120 00070 H13	486	Point	CALMAR97	FI351997010120	2018-06-12	485	Not Specified	486)	AHGT	31)	LS>	CALMAR97	070	+40.370000 +>	+001.850000)
FI351997010120 00070 H13	486	Point	CALMAR97	FI351997010120	2018-06-12	485	Not Specified	486)	AHGT	31)	LS>	CALMAR97	070	+40.370000 +>	+001.850000)
FI351997010120 00070 H13>	486⊁	Point)	CALMAR97 >	FI351997010120>	2018-06-12>	485)	Not Specified	486)	TEMP→	31+	LS>	CALMAR97 >	070 +	+40.370000 ->	+001.850000>
FI351997010120 00070 H13>	486⊁	Point >	CALMAR97 >	FI351997010120>	2018-06-12>	485)	Not Specified>	486)	TEMP +	31+	LS>	CALMAR97 >	070 +	+40.370000 ↔	+001.850000>
FI351997010120 00080 H13>	486)	Point +	CALMAR97 >	FI351997010120+	2018-06-12>	485)	Not Specified	486)	AHGT +	31)	LS ⊦	CALMAR97 →	080 +	+41.450000 ↔	+003.170000>
FI351997010120 00080 H13>	486⊦	Point >	CALMAR97 +	FI351997010120+	2018-06-12>	485 +	Not Specified	486)	AHGT +	31+	LS+	CALMAR97 +	080 +	+41.450000 ↔	+003.170000>
FI351997010120 00080 H13>	486	Point +	CALMAR97 ⊦	FI351997010120+	2018-06-12+	485⊁	Not Specified	486⊁	TEMP +	31⊁	LS ⊦	CALMAR97 ⊦	080 +	+41.450000 ↔	+003.170000+
FI351997010120 00080 H13>	486	Point +	CALMAR97 ⊦	FI351997010120+	2018-06-12+	485⊁	Not Specified	486⊁	TEMP +	31⊁	LS ⊦	CALMAR97 ⊦	080 +	+41.450000 ↔	+003.170000+
FI351997010120 00090 H13>	486	Point +	CALMAR97 ⊦	FI351997010120+	2018-06-12+	485⊁	Not Specified	486⊁	AHGT +	31⊁	LS ⊦	CALMAR97 ⊦	090 +	+41.970000 ↔	+003.480000+
FI351997010120 00090 H13>	486⊁	Point⊦	CALMAR97 +	FI351997010120+	2018-06-12+	485⊁	Not Specified	486⊁	AHGT ⊦	31+	LS⊁	CALMAR97 ⊧	090+	+41.970000	+003.480000>
FI351997010120 00090 H13>	486⊁	Point⊦	CALMAR97 +	FI351997010120+	2018-06-12>	485⊁	Not Specified	486⊁	TEMP ►	31+	LS⊁	CALMAR97 ⊧	090+	+41.970000	+003.480000>
FI351997010120 00090 H13>	486)	Point +	CALMAR97 +	FI351997010120+	2018-06-12+	485)	Not Specified	486)	TEMP +	31+	LS+	CALMAR97 ⊧	090+	+41.970000 ->	+003.480000>
FI351997010120 00100 H13>	486)	Point +	CALMAR97 +	FI351997010120+	2018-06-12+	485)	Not Specified	486)	AHGT +	31+	LS+	CALMAR97 ⊧	100+	+42.280000	+003.700000+
FI351997010120 00100 H13>	486)	Point +	CALMAR97 +	FI351997010120+	2018-06-12+	485)	Not Specified	486)	AHGT +	31)	LS ⊦	CALMAR97 ⊧	100+	+42.280000	+003.700000+
FI351997010120 00100 H13>	486⊦	<b>Point</b> +	CALMAR97 +	FI351997010120>	2018-06-12+	485)	Not Specified	486)	TEMP►	31)	LS≻	CALMAR97 →	100+	+42.280000	+003.700000)
FI351997010120 00100 H13>	486⊦	Point ⊦	CALMAR97 +	FI351997010120>	2018-06-12+	485)	Not Specified	486)	TEMP►	31+	LS≻	CALMAR97 →	100+	+42.280000	+003.700000+
FI351997010120 00110 H13>	486)	Point +	CALMAR97 +	FI351997010120>	2018-06-12+	485)	Not Specified	486)	AHGT +	31)	LS+	CALMAR97 →	110 +	+42.470000 ↔	+003.880000>
FI351997010120 00110 H13>	486)	Point +	CALMAR97 ⊦	FI351997010120>	2018-06-12+	485⊁	Not Specified	486)	AHGT +	31)	LS+	CALMAR97 →	110 +	+42.470000 ↔	+003.880000>
FI351997010120 00110 H13>	486	Point +	CALMAR97 ⊦	FI351997010120>	2018-06-12+	485⊁	Not Specified	486⊦	TEMP +	31+	LS+	CALMAR97 ⊦	110 +	+42.470000 ↔	+003.880000>
FI351997010120 00110 H13>	486	Point +	CALMAR97 ⊦	FI351997010120>	2018-06-12+	485⊁	Not Specified	486⊦	TEMP +	31+	LS+	CALMAR97 ⊦	110 +	+42.470000	+003.880000>
FI351997010120 00120 H13>	486	Point +	CALMAR97 ⊦	FI351997010120+	2018-06-12+	485⊁	Not Specified	486⊦	AHGT +	31+	LS ⊦	CALMAR97 ⊦	120 +	+42.720000	+003.820000>
FI351997010120 00120 H13>	486⊦	Point ⊦	CALMAR97 ⊦	FI351997010120>	2018-06-12+	485⊦	Not Specified	486⊁	AHGT ⊦	31+	LS≻	CALMAR97 ⊦	120 +	+42.720000	+003.820000>
FI351997010120 00120 H13>	486)	Point ⊦	CALMAR97 ⊦	FI351997010120+	2018-06-12+	485)	Not Specified >	486⊁	TEMP ⊦	31)	LS ⊦	CALMAR97 ⊦	120 +	+42.720000	+003.820000>
FI351997010120 00120 H13>	486)	Point ⊦	CALMAR97 >	FI351997010120+	2018-06-12+	485)	Not Specified >	486)	TEMP ⊦	31)	LS ⊦	CALMAR97 ⊦	120 +	+42.720000	+003.820000>
FI351997010120 00130 H13>	486⊦	Point +	CALMAR97 ⊦	FI351997010120>	2018-06-12+	485)	Not Specified	486⊦	AHGT +	31+	LS+	CALMAR97 ⊧	130⊦	+42.570000	+003.530000>
FI351997010120 00130 H13>	486⊦	Point +	CALMAR97 ⊧	FI351997010120>	2018-06-12+	485)	Not Specified	486⊁	AHGT +	31)	LS+	CALMAR97 ⊧	130+	+42.570000	+003.530000+
FI351997010120 00130 H13 +	486)	Point ⊦	CALMAR97 >	FI351997010120>	2018-06-12+	485⊁	Not Specified	486⊦	TEMP ⊦	31)	LS ⊦	CALMAR97 ⊦	130⊦	+42.570000	+003.530000>
FI351997010120_00130_H13>	486)	Point ⊦	CALMAR97 >	FI351997010120>	2018-06-12+	485⊁	Not Specified	486⊦	TEMP ⊦	31)	LS ⊦	CALMAR97 ⊦	130+	+42.570000 ↔	+003.530000>
FI351997010120 00140 H13>	486⊦	Point +	CALMAR97 >	FI351997010120>	2018-06-12+	485)	Not Specified)	486⊦	AHGT +	31+	LS ⊦	CALMAR97 →	140)	+42.400000 +>	+003.330000 *
<			III												•

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1 1 Lecture Rfp Bloc Sync Enr N

### 2. Check the CDI\_SUMMARY file

#### Filter:

LOCAL_CDI_ID	Modus	Format	Filename	Date	
FI351997010120_00010_H13	3	ODV	FI351997010120.txt	12/06/2018 09:23:25	
FI351997010120_00020_H13	3	ODV	FI351997010120.txt	12/06/2018 09:23:26	-
FI351997010120_00030_H13	3	ODV	FI351997010120.txt	12/06/2018 09:23:26	=
FI351997010120_00040_H13	3	ODV	FI351997010120.txt	12/06/2018 09:23:26	
FI351997010120_00050_H13	3	ODV	FI351997010120.txt	12/06/2018 09:23:26	
FI351997010120_00060_H13	3	ODV	FI351997010120.txt	12/06/2018 09:23:26	
FI351997010120_00070_H13	3	ODV	FI351997010120.txt	12/06/2018 09:23:26	
FI351997010120_00080_H13	3	ODV	FI351997010120.txt	12/06/2018 09:23:26	
FI351997010120_00090_H13	3	ODV	FI351997010120.txt	12/06/2018 09:23:26	
FI351997010120_00100_H13	3	ODV	FI351997010120.txt	12/06/2018 09:23:26	
FI351997010120_00110_H13	3	ODV	FI351997010120.txt	12/06/2018 09:23:26	
FI351997010120_00120_H13	3	ODV	FI351997010120.txt	12/06/2018 09:23:26	
FI351997010120_00130_H13	3	ODV	FI351997010120.txt	12/06/2018 09:23:26	
EI351997010120_00140_H13_	3	ODV	FI351997010120.txt	12/06/2018 09:23:26	*
LOCAL_CDI_ID					
Modus					•
Format					•
Filename					
				New	elete

Refresh

Save

Cancel

Exit

### 3. Check the coupling table



SeaDataCloud 1st training session, Ostende, Belgium, 20-27 June 2018

## Any questions?



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