



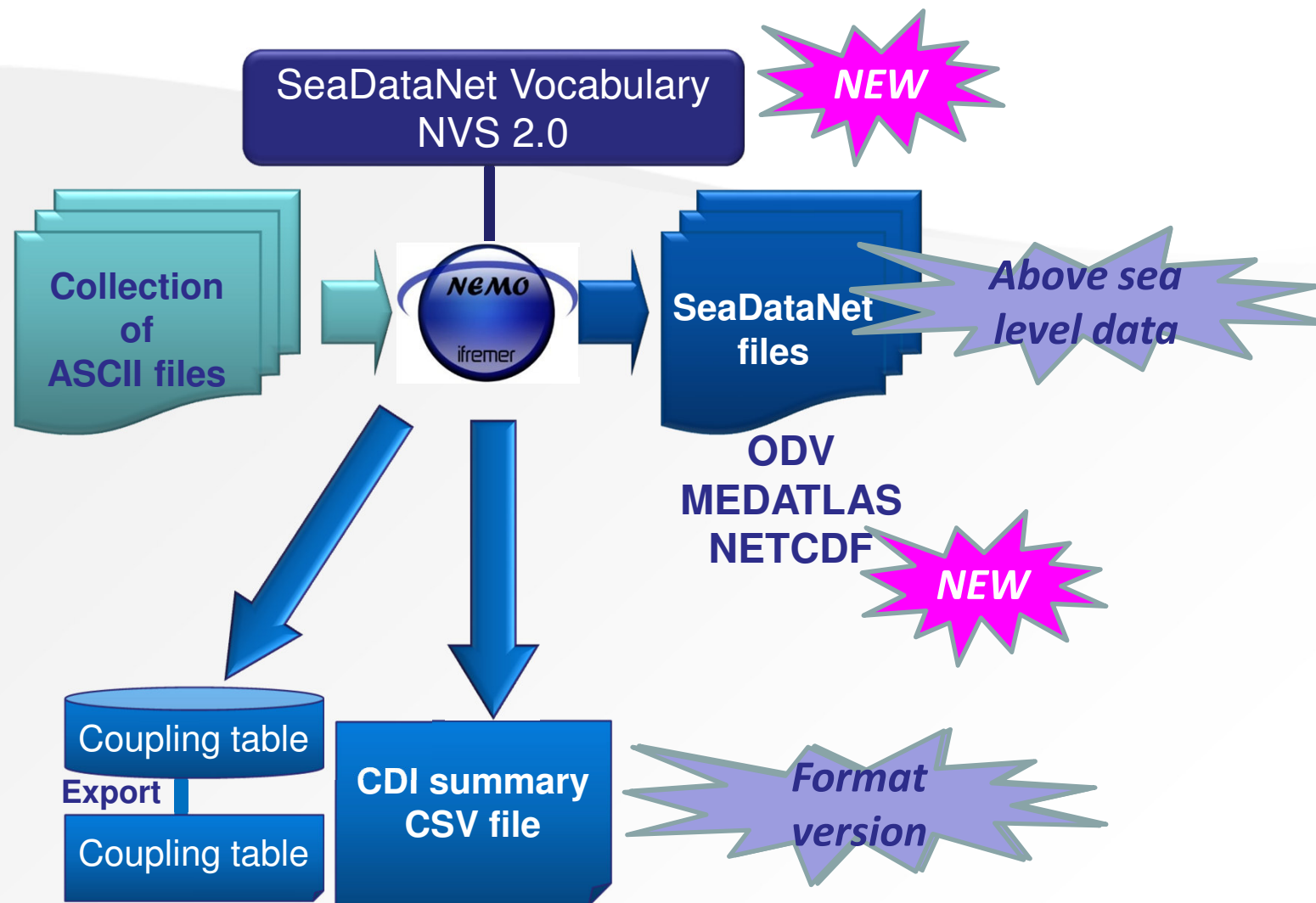
2nd annual meeting – Lucca – 26-27 September, 2013



SeaDataNet

PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

NEMO 1.5



NEMO - makes use of NVS V2.0 vocab

Updating Vocab Lists.....

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

NEW

NEMO - NVS 2.0 in Output files

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

NEW

```
//  
//SDN_parameter_mapping  
//<subject>SDN:LOCAL:DEPH</subject><object>SDN:P01::ADEPZZ01</object><units>SDN:P06::ULAA</units>  
//<subject>SDN:LOCAL:PSAL</subject><object>SDN:P01::PSSTZZ01</object><units>SDN:P06::UPAA</units>  
//<subject>SDN:LOCAL:TEMP</subject><object>SDN:P01::PSLTZZ01</object><units>SDN:P06::UUUU</units>  
//<subject>SDN:LOCAL:CPHL</subject><object>SDN:P01::CPHLP01</object><units>SDN:P06::UMMC</units>  
//
```

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

NEW

NEMO - SDN NetCDF format

NEMO - [Directory C:\Michele\testNEMO1.5.0\Chacra ctd\fic_a_preudre]===== [Model model_NetCDFmulti.xml]

Model Coupling Table Options ?

File	Cruise	Station	Data	Convert
2.0	20.3929	36.3412	0.0452	1.2519
2.3	20.4057	36.3408	0.0494	1.2574
2.5	20.4041	36.3443	0.0511	1.2504
2.8	20.4057	36.3409	0.0460	1.2486
3.0	20.4115	36.3415	0.0384	1.2470
3.3	20.4102	36.3428	0.0414	1.2522
3.5	20.4085	36.3428	0.0467	1.2501
3.8	20.4200	36.3396	0.0435	1.2574
4.0	20.4142	36.3452	0.0396	1.2547
4.3	20.4077	36.3413	0.0378	1.2601
4.5	20.4077	36.3424	0.0385	1.2544
4.8	20.4075	36.3437	0.0373	1.2577
5.0	20.3965	36.3481	0.0375	1.2502
5.3	20.3262	36.3502	0.0402	1.2538

File Description

Validate all steps

Validate step

Reset

+

File header *

Station header *

End of station *

Data termination indicator *

Input parameters

Process a Cruise

☐ Cruise File

☒ Cruise Directory

Process a collection

☐ Files grouped by cruise

☐ Files not grouped by cruise

☐ Multi-Stations File

Browse

☐ Separator

File type

☒ Profile

☐ Time Series

☐ Trajectory

Conversion parameters

☐ Medatlas

☐ ODV

☒ NetCDF

☐ One file per station

☒ One unique file for all stations

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

Log Info Help

Parameters list P09 is disabled because conversion type is NetCDF

NEMO - SDN NetCDF format



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

Conversion parameters

<input type="radio"/> Medatlas	<input type="radio"/> One file per station
<input type="radio"/> ODV	<input checked="" type="radio"/> One unique file for all stations
<input checked="" type="radio"/> NetCDF	

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

SDN

NetCDF format

Cruise information

NEW

NEMO - [Directory C:\Michele\testNEMO1.5.0\Chacra ctd\fic_a_prendre]===== [Model model_NetCDFmulti.xml]

Model Coupling Table Options ?

[File]	[Cruise]	[Station]	[Data]	Convert
2.0	20.3929	36.3412	0.0452	1.2519
2.3	20.4057	36.3408	0.0494	1.2574
2.5	20.4041	36.3443	0.0511	1.2504
2.8	20.4057	36.3409	0.0460	1.2486
3.0	20.4115	36.3415	0.0384	1.2470
3.3	20.4102	36.3428	0.0414	1.2522
3.5	20.4085	36.3428	0.0467	1.2501
3.8	20.4200	36.3396	0.0435	1.2574
4.0	20.4142	36.3452	0.0396	1.2547
4.3	20.4077	36.3413	0.0378	1.2601
4.5	20.4077	36.3424	0.0385	1.2544
4.8	20.4075	36.3437	0.0373	1.2577
5.0	20.3965	36.3481	0.0375	1.2502
5.3	20.3762	36.3502	0.0407	1.2538
5.5	20.3634	36.3515	0.0436	1.2534
5.8	20.3616	36.3503	0.0467	1.2521
6.0	20.3489	36.3547	0.0498	1.2449
6.3	20.3372	36.3574	0.0528	1.2485
6.5	20.3119	36.3660	0.0552	1.2423
6.8	20.2356	36.3883	0.0573	1.2341
7.0	20.1927	36.3885	0.0584	1.2270
7.3	20.1440	36.4016	0.0594	1.2240
7.5	20.0504	36.4244	0.0595	1.2168
7.8	19.9832	36.4472	0.0598	1.2127
8.0	19.8900	36.4792	0.0607	1.2014
8.3	19.7986	36.5105	0.0602	1.1978
8.5	19.7659	36.5218	0.0598	1.2001
8.8	19.7515	36.5270	0.0592	1.1956
9.0	19.7373	36.5421	0.0586	1.1910
9.3	19.7102	36.6108	0.0587	1.1832
9.5	19.6886	36.7516	0.0601	1.1743
9.8	19.6770	36.8372	0.0611	1.1621
10.0	19.6626	36.8877	0.0617	1.1594
10.3	19.6261	36.9386	0.0623	1.1527
10.5	19.5576	37.0260	0.0624	1.1342
10.8	19.5045	37.0766	0.0634	1.1220
11.0	19.4186	37.1081	0.0620	1.1247
11.3	19.3541	37.1466	0.0610	1.1209
11.5	19.3306	37.1804	0.0634	1.1019
11.8	19.2982	37.2198	0.0677	1.1082
12.0	19.2721	37.2316	0.0699	1.1148
12.3	19.2604	37.2481	0.0723	1.0910
12.5	19.2626	37.2714	0.0728	1.0684
12.8	19.2588	37.2865	0.0722	1.0522

f001 24A

Cruise Description

Validate step

Server initialisation

XML Initialisation

Reset

+

- Reference *
- Location
- Data Source
- Archiving Centre
- Type of data
- Comments
- Corresponding URL

Log Info Help

SDN **NetCDF** **format**

NEW

Cruise
information

- Reference
- Name
- Ship

Mandatory

▼ Reference *

Describe the references of the cruise

Cruise reference *

FI35200945009

Cruise name *

CHACCRA-2009

Ship *

35TT - Tethys II ▼

► Type of data

► Comments

► Corresponding URL

SDN NetCDF format

Cruise information

- Location is a C19 vocabulary

NEW

▼ Location

Describe the location of the cruise

Start date : DD/MM/YYYY

24/05/2009

End date : DD/MM/YYYY

25/05/2009

Region

3_1_1 - Mediterranean Sea, Western Basin ▼



NEMO

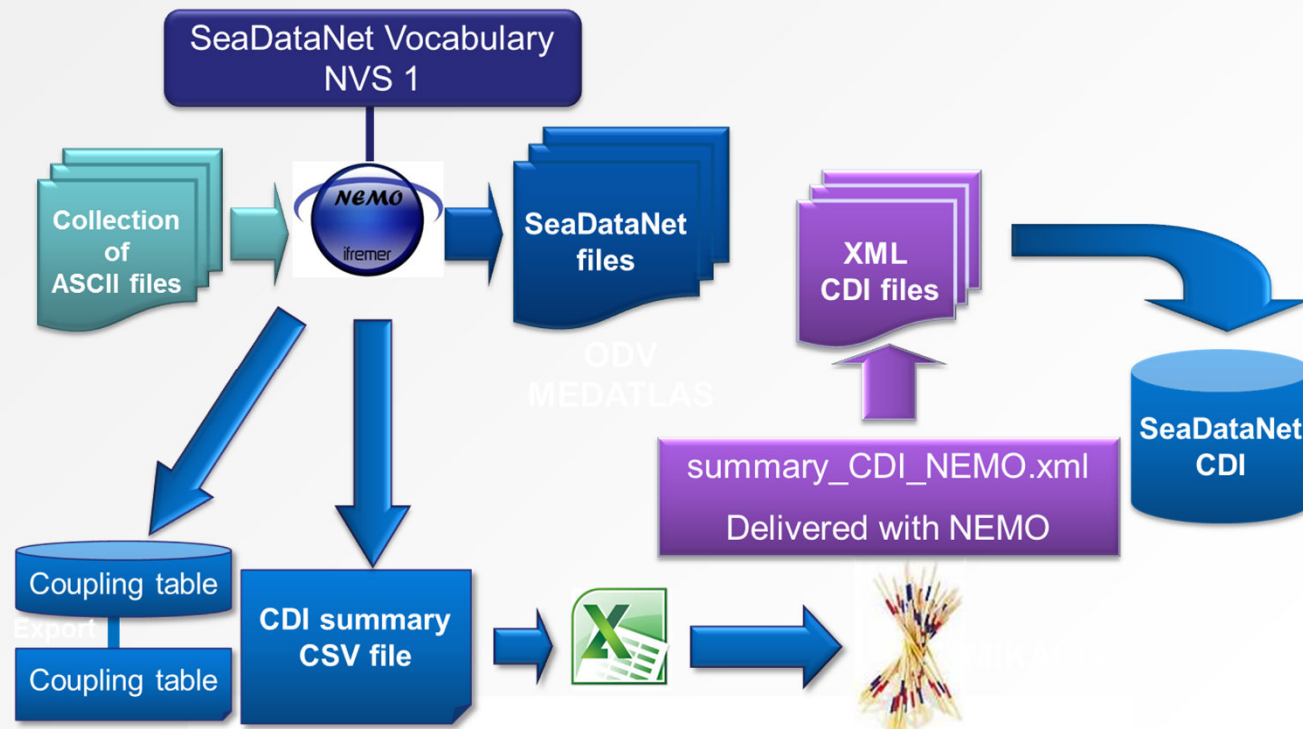
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IMPROVEMENT

level

NEMO – CDI summary file

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



WHAT TO DO FOR THE 1ST INNOVATION CYCLE?

To deliver your files at NetCDF format (1)

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

To deliver your files at NetCDF format (2)

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

To deliver your files at NetCDF format (3)

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

– MedSDN_2_CFPOINT:

**SOON
AVAILABLE**

- will convert a set of SDN MEDATLAS files to SDN NetCDF (CFPOINT)
- under development, to be delivered in October

– ODV_2_CFPOINT:

- will convert a set of SDN ODV files to SDN NetCDF
- Development not started yet

To move all your files to NVS v2.0 vocab

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