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PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

MIKADO, NEMO

M. Fichaut, M. Larour, T. Loubrieu

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MIKADO v2: 2 releases since last plenary

- 2.0 (13 January 2011)
- 2.0.1 (22 February 2011)
- 2.1 (22 March 2011)
- 2.2 (22 June 2011)
- 2.2.1 (6 September 2011)
- 2.3 (12 March 2012)
- 2.4 (24 July 2012)
 - Current release

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MIKADO, v2.3, released 12/03/2012

• Adds-on

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- Look and feel set to Nimbus
- EDIOS series manual : online help and controls added for curve and surface descriptions
- EDIOS series vocabulary changed for sampling interval units (List L260 instead of list P061)
- Seismic O&M in automatic and manual modes
- Seismic SensorML in automatic and manual modes
- Fixed bugs
 - Remove potential duplicates due to mapping of P011 to P021
 - Spatial resolution value (= distance between traces, var47) can be 0 for seismic data

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MIKADO, v2.4, released 24/07/2012

- New features
 - -New variable added for Seismic SensorML (Shot distance)
 - -Djava.endorsed.dirs="dist/lib" removed from mikado.bat and mikado.csh (not needed by JAVA JRE 1.7)

Fixed Bugs

- Vocabulary L051 (device categories) used to replace deprecated L057 and L054
- Edios Program : field position updated for id in manual mode form
- CSR downloading : mdFileID value corrected
- O&M and SensorML : _oem and _sml extensions removed in automatic mode (to be configured by data manager).
- For Geo-seas, user's manual update (O&M, sensorML, CDI records), planned in Octobre 2012.

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SensorML and O&M extensions for seismic data

- One CDI for seismic data (corresponds to one seismic line or one fragment of a seismic line)
 - Linked to one O&M (observation and measurement description)
 - Linked to one to n Sensor ML (Sensor technical description with acquisition parameters, necessary for data processing)



MIKADO manual CDI

Local URL of the O&M description

	entification WI	here When	Wha	t How Who	Where to find th	e data Cruise/	Station	Others		
Di	stributor									
Organisation name *			*	IFREMER / IDM/SISMER				2		
SDI	NIdent (Organisat	ion name)	*	SDN:EDMO::486						
<i>C</i>	ollate-centre									
-	ganisation name		*	FREMER / IDM/S				2		
	Nident (Organisat			SDN:EDMO::486	ISMER					
501	wident (Organisat	ion name)		SDIV.EDIVIO406						
Di	stribution Webs	ites and servic	es							
	Data size	Linkage		protocol	Database Refere	Distribution r	meth	🔀 🖶		
*	349.576	http://www.s		bite o ://www.ifr	SISM10	downloadRe	-			
	349.570	http://www.s	<u>ari</u>	https://www.ifr	SISMITO	downloadRe	gisti			
_										
Da	ataset Access R									
	Access constra restricted	lints		SDNIdent (a SDN:L081:2	ccess constraints)					
	restricted			3014.2001.2		P2				
*										

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FOR OCEAN & MARINE DATA

MANAGEMENT



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MIKADO manual O&M

Local URL of the Sensor ML description

🖺 Mil	kado 2.3 SDN V2 Mar	nual / O&M SE	ISMIC : C:\Miche	ele\test MIKADO\SE	ISORML\SISM10_0&M_FI352010030080_1637	/41_oem.xml	
Manual Automatic Options Tools ?							
Section id * SISM10_O&M_		_FI352010(
Description none							
Env	velope						
Low	ver corner *	45.703 -8.36	3	Decimal de	gree 'South lat. East lon.' (13.265722 43.93	31889)	
	🗐 sa:relatedObse	rvation					23
4	Related obser	vation					
	Line name	*	Linea_SARG	GASS03-1			
	Description		none				
	Time position	*	07/07/2010) 13:28:39			
	SensorML link	*	https://www.i	ifremer.fr/ifrgeos	eas_seismic/SISM10_FI3520100300	80_163741_sml.xi	ml
	Observed propert	ty *	SDN:GS20:0	0:Reflcvty	2		
	Feature of interes	t *	SDN:GS10:0	0:EarthVol	2		
U	Viewer link		http://ADRES	SSE_viewer			
	Left Trace Value)	24				
	Right Trace Valu	le	24				
L					(Ok	Cancel

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MIKADO manual SensorML PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

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anual Automatic	Options Tools ?
Overall infos	ource Receiver Acquisitor Capabilities Documentation Observation
Seismic method	
Term URI	* http://vocab.ndg.nerc.ac.uk/term/GS80/1/SRFL
Value	* Seismic reflection
definition	* Describes the acquisition strategy used
Dimensionality	
Term URI	* http://vocab.ndg.nerc.ac.uk/term/GS90/1/SR2D
Value	* Two-dimensional seismi 🤌
definition	* Describes geometric and temporal strategies adopted during acquisition
Data product	
Term URI	* http://vocab.ndg.nerc.ac.uk/term/GSA0/1/FLDS
Value	* Field data: single-fold cor
definition	* Describes the type of data product
Overall quality	
Term URI	* http://vocab.ndg.nerc.ac.uk/term/L311/1/0
Value	* No quality control
definition	* Gives a qualitative indication of the usability of the data



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MIKADO Automatic 0&*M*

Automatic / New O&	M SEISMIC		
Manual Automatic Options Tools ?			
Connection Queries			
 Requests Main Query ✓ \$ Name Single subqueries ✓ var01 Description ✓ var02 South latitude ✓ var03 East longitude ✓ var04 North latitude ✓ var05 West longitude ✓ var15 UKOA link ✓ Multiple subqueries ✓ var06 Line name ✓ var07 Line description ✓ var09 SensorML link ✓ var10 Observed property ✓ var12 Viewer link ✓ var13 Left Trace ✓ var14 Right Trace 	query SELECT FROM WHERE ORDER BY Test Check	var sql S	
Check All			



Automatic / New SENSORML SEISMIC

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MIKADO Automatic SensorML

Manual Automatic Options Tools ?		
Connection Queries		
 Requests Main Query Single subqueries var01 Seismic method var02 Dimensionality var03 Data product var04 Overall quality var05 Source type var06 Receiver type var08 Last channel var09 First offset var10 Last offset var13 Recording delay var15 Document description var16 Document link 	QUETY SELECT Var sql FROM FROM WHERE ORDER BY	
✓ var17 O&M link Check All	Test check	

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Example on Geo-Seas

ſ	Tools 🛛	Tools 2	Geo-Seas Comr Eichier Édition	Name C-1 Description	Data Source	
			Les plus visités W granulométrie	Sampled fe Navigation	OverallInfos	
			n granaionicuit	Envelope	SeismicMethod Seismic reflection	
	Enlarge	Enlarge	GML id	srsName 1	Dimensionality Two-dimensional seismic reflection DataProduct Stacked	
	Position	Position	GML objects	Lower corn	OverallQuality Good seismic section	
	Data	Data	Datum Measuring area	Upper corn	Source	
			WHEN? Start date	Observation	SourceType Aquapulse	
	Basket	Basket	End date HOW?	Segment II	Receiver	
			Instrument / ge	Description	ReceiverType Hydrophones	Searcokoat Geocomes retricting he sets mic SEISMIC lines
	Geo	Geo	Time frequency Platform type	Time insta	FirstChan 1	oc glook at a specific
	Add to I		Cruise name Alternative crui	Observed p	LastChan 24	retriewing several
	#	DETAILS	Cruise start da Station name	Feature of	FirstOffset -1	i cult, whe seismic
		WHAT?	Alternative stat Station start da	Procedure	LastOffset -1 Shots	SEISMIC lines
		Data set na Discipline	WHO? Originator	Result <u>http</u> 1031/Linea	MinShot 379	
		Category	Data Holding ce		MaxShot 505	
		Variables r	HOW TO GET DATA? Data Distributo	Observation	Acquisitor	O&M destantipeticenyou can
		Abstract Data forma	Database refer	Segment II	SamplingInterval 2000	
		Data set cr	Access/orderin Internet access	Description Time instar	SamplesPerTrace 2500	of the seigning the O&M
		WHERE? Map	Access restricti	Observed r	RecordingDelay 0	
			Additional serv	Feature of	capabilities	line, made est pripriorf
				Procedure	TopBandwidth 250 Hz top-bandwidth multi-channel seismic reflection systems	sovoral-sogmonts
				Result http	documentation	severabsegntent
				<u>1031/Linea</u>	Online Resource	
				Observation	history	
				Segment II	observationReference	
				Description		
				Time instar	Observation http://diam04.ogs.trieste.it/Geo-Seas/C-1031/C-1031 oem.xml	
×	Recherche	× Recherche	× Rechercher :	× Rechercher:	× Rechercher: Iq 🕹 Suivant 🕇 Précédent 🖉 Surligner tout 🔲 Respecter	la casse
Tr	ansfert des de	Terminé	Terminé	Terminé	Terminé	

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MIKADO, next releases

- Release 2.5, planned 11/2012
 - For Geo-Seas, new MODUS (4, 5) in the coupling table for the online viewer of seismic data
- Release 3.0, planned 12/2012
 - Support ISO-19139 CDI format for manual edit and batch

Interaction needed between Ifremer and CNR for mapping details between ISO-19115 and ISO-19139

BODC vocabulary, version 2

New services to be included

Backwards compatibility with old XML files : Read of old URN and conversion to new ones

- Pre-requirements

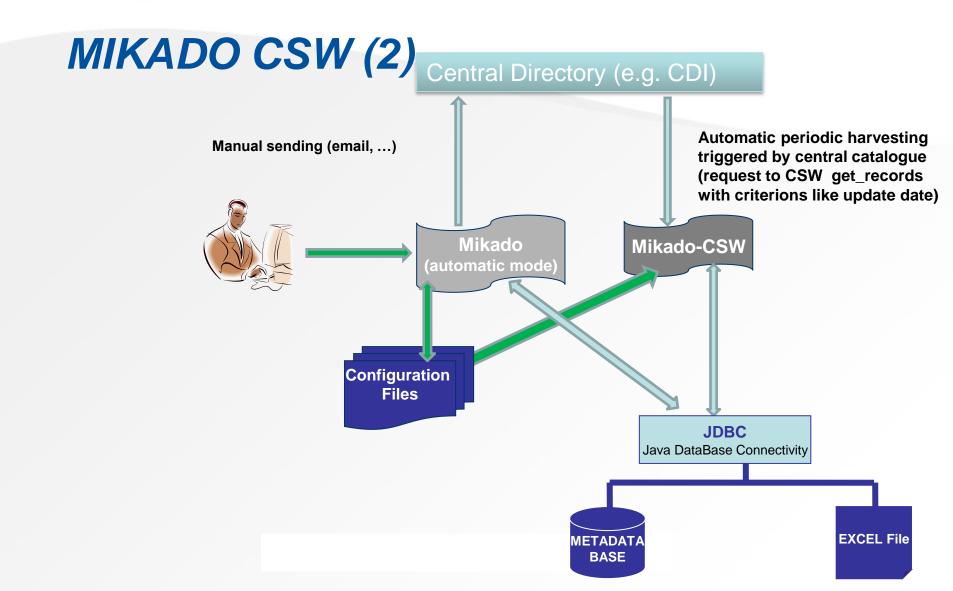
Importation tools must be ready for ISO-19139 catalogues and must manage BODC V2 vocabulary

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MIKADO CSW (1)

- Why making use of Catalogue Services for the Web to update Central Catalogues?
 - To decrease the delay between updates of Central catalogues
 - To automate the metadata flows from Data Centres metadata repositories to Central Catalogues
- When making use of CSW ?
 - For frequent updates (e.g. new data to be described weekly in CDI)

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NEMO – 3 releases since last plenary

- 1.3.1 (2 March 2011)
- 1.4.0 (8 July 2011)

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- 1.4.3 (24 January 2012)
- 1.4.4 (23 May 2012)
- 1.4.5 (11 July 2012)
 - Current release

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NEMO v1.4.3, released 24 January 2012

- Several input and output files for trajectories
- Preferences and settings kept when installing a new version of NEMO
- Save a uncompleted model (only some steps are validated)
- To run NEMO in batch mode from any directory
- Mandatory filed are marked by a '*' in the input screens
- In the Data screen :

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- Output default value is not mandatory if the output format is ODV
- Position of the measured parameters are highlighted in the file on the screen (check facility)

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NEMO v1.4.4, released 23 May 2012

- Time-series with non-constant sampling rate are supported
- Non numerical parameters can be described in the "Data" screen
- Response time improved for the display of the "Station" screen
- some known bugs have been corrected

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NEMO v1.4.5, released 11 July 2012

- Main changes are bugs corrections detected in Ostende during the training course (2-6 July, 2012)
 - End date of time series with not constant sampling rate
 - Address of the file in the coupling table
 - Default value in ODV format

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NEMO next releases – major changes

• V1.5

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- BODC vocabulary, version 2
- More checks on user input for separator description
- Release is ready, wait for BODC V2 official implementation in all SeaDataNet software
- V1.6
 - Conversion to NetCDF format
 - Development will start as soon as NetCDF format is validated : any date?



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