

# WP4 - Metadata catalogues Present Status and new/updated entries last year

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### SeaDataNet II

### **Aim**

 to upgrade the existing system into an operationally robust and stateof-the-art Pan-European infrastructure

### By

- setting, adopting and promoting common data management standards
- achieving an improved capacity for handling marine biological data
- achieving INSPIRE compliance and realizing interoperability with other relevant data management systems and initiatives for serving specific user communities, such as the Marine Strategy Framework Directive
- achieving both delayed-mode and real-time data provision capacities for operational oceanography
- expanding the number of connected data centres



### SeaDataNet Upgrade in 2 cycles

- 1st Innovation cycle (by end 2013)
  - Automatic transfer of updated and new metadata entries from partners to the central portal
- 2<sup>nd</sup> cycle (by end 2015)
  - handling a wide range of data types both for archived and real-time data
  - by adopting the OGC Sensor Web Enablement (SWE) standards
  - adding visualisation services
  - adding machine to machine interfaces



# 1<sup>st</sup> Innovation Cycle upgrades

- adopting INSPIRE compliant ISO 19139 based XML schema for CDI and CSR
- using Common Vocabularies Version 2 in all metadata directories (CDI, CSR, EDMED, EDMERP, EDIOS) and data formats (SeaDataNet ODV, SeaDataNet NetCDF)
- applying OGC CS-W harvesting between central portals and distributed data centres

Roadmap (D4.1) has been prepared with the implementation plan for the gradual installation of the upgraded metadata services of the EDMED, EDMERP, EDIOS, EDMO and CSR including the CDI





# 1st Innovation Cycle (end 2013)

- partners have to install and configure MIKADO, DM with CS-W harvesting and start preparing new entries
  - More explanations will be given tomorrow during the upgrading workshop
  - Later, middle Nov., partners will receive updated instructions (D4.3) after the completion of the installation by the central managers



### Mid -term review, 12 Dec. 2013

 In addition, good progress on metadata catalogues content is required for the mid-term review PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

2<sup>nd</sup> Plenary meeting, Lucca, Italy, 26-27 Sept., 2013

### Metadata Catalogues



- SDN maintain and operates the European catalogue of marine projects, data sets, organizations, monitoring systems, cruise summary reports
  - Interconnected by common references EDMO, EDMERP and common vocabularies
- The content of the directories content is compiled from national contributions, and collated in each country by the SDN partners (usually NODCs)



### Management

Cooperation NODC <=> other national partners:

- NODC chooses (if needed) a provided method of maintenance: XML files via MIKADO, or via CMS, or other tool
- Role NODC: => National focal point
  - Providing assistance in metadata preparation
  - Collating new records
  - Quality control of new metadata descriptions
  - Distributing to portal in case of XML files
  - Contact with central directory managers
- Role Institutes: => Support activities
  - Providing new entries
  - Update existing information



User manual (D4.6) for updating metadata directories (EDMO, EDMED, EDMERP, CSR and EDIOS), is available

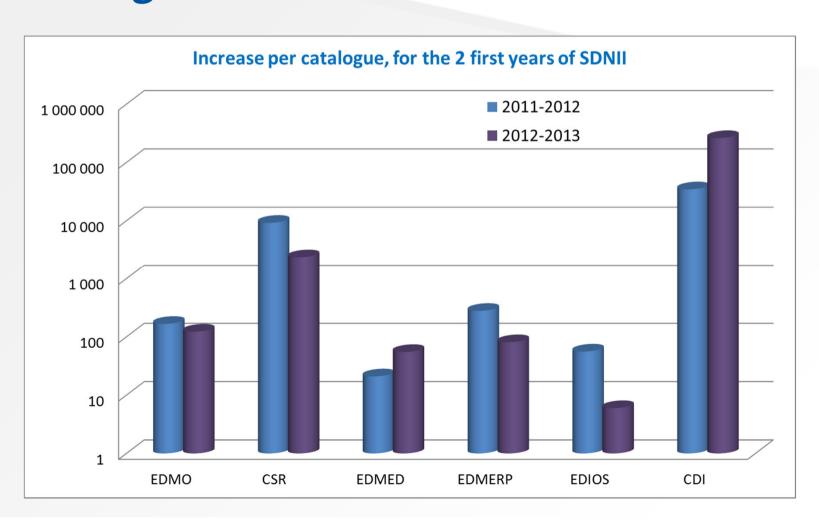


## Catalogues overview - Content

Catalogue	Nb (10/2011)	Nb (09/2012)	Nb (09/2013)	Increase since the start
<b>EDMO</b> : Marine organisations	2 094	2 261	2 384	290
CSR: Cruises	32 113	41 330	43 687	11 574
EDMED : Data sets	3 813	3 834	3 889	76
EDMERP : Projects	2 338	2 617	2 698	360
EDIOS: Programmes	294	350	356	62
CDI: Data	1 053 706	1 088 322	1 350 455	296 749
Number of <b>connected data centres</b>	65	77	88	23



# Catalogues overview - increase

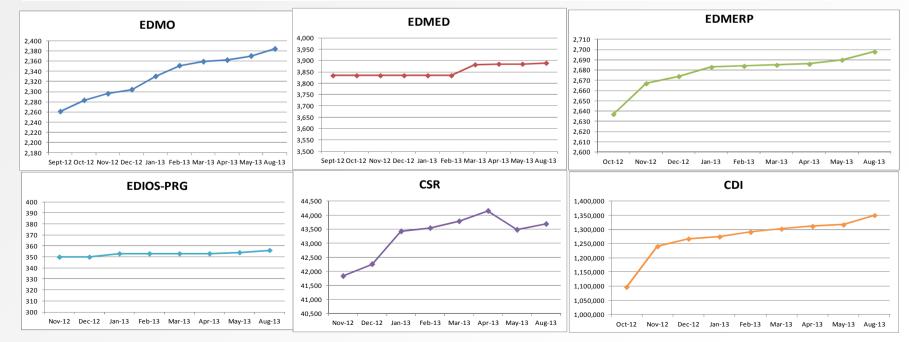


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### Catalogues global counts of last year

Catalogue	Catalogue	Sept-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Aug-13	2nd year change	Οκτ-11
EDMO: Marine organisations	EDMO	2.261	2.283	2.296	2.304	2.330	2.351	2.359	2.362	2.370	2.384	123	2.094
EDMED : Data sets	EDMED	3.834	3.834	3.834	3.834	3.834	3.834	3.882	3.885	3.885	3.889	55	3.813
EDMERP: Projects	EDMERP	2.617	2.637	2.667	2.674	2.683	2.684	2.685	2.686	2.690	2.698	81	2.338
EDIOS : Programmes	EDIOS-PRG	350	350	350	350	353	353	353	353	354	356	6	294
CSR : Cruises	CSR	41.330	41.481	41.832	42.256	43.423	43.539	43.782	44.153	43.479	43.687	2.357	32.113
CDI : Data	CDI	1.088.322	1.097.399	1.241.010	1.267.669	1.274.982	1.291.491	1.302.629	1.311.827	1.317.191	1.350.455	262.133	983.085
Number of SeaDatanet connected nodes			39	39	39	39	39	42	43	45	47		
Number of missing SDN nodes			9	9	9	9	9	6	5	3	1	1	



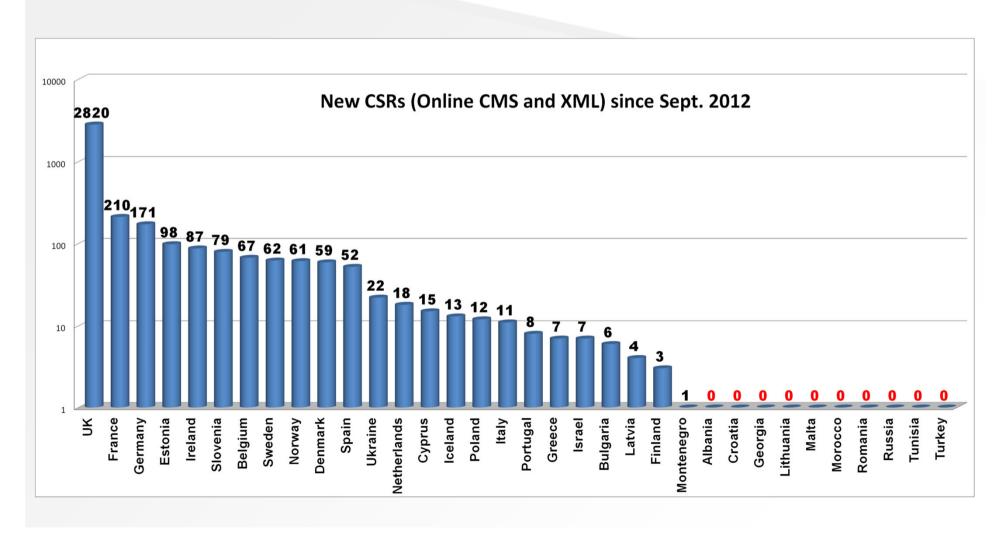


### Content change per country since Sept. 2012

Country	New CSR (CMS & CSR upgrades (CMS XML) New EDMERP New		New EDMED	New EDMO	New EDIOS Progs/Series*	
Albania	0	0	0	0	0	x
Belgium	67		4	0	36	х
Bulgaria	6		0	0	2	х
Croatia	0		0	0	0	x
Cyprus	15	20	2	10	1	х
Denmark	59	1	0	0	17	х
Estonia	98	0	4	0	7	0
Finland	3	0	0	0	3	х
France	210	153	2	0	31	-1/-5
Georgia	0	0	0	0	2	х
Germany	171	4	21	0	10	0/0
Greece	7	0	8	0	4	0/0
Iceland	13	0	0	0	0	х
Ireland	87		0	14	14	0/0
Israel	7		0	0	0	х
Italy	11	0	1	0	14	3/10
Latvia	4		2	15	3	X
Lithuania	0		6	0	0	X
Malta	0	0	0	0	1	X
Montenegro	1		2	2	4	0/0
Morocco	0	0	0	0	2	X
Netherlands	18	0	6	17	2	X
Norway	61	837	0	0	2	0/0
Poland	12	0	0	0	4	х
Portugal	8	6	1	0	2	1/14
Romania	0		0	0	7	х
Russian Federation	0	0	0	0	15	х
Slovenia	79		0	0	0	0/0
Spain	52	0	1	0	1	1/4
Sweden	62		1	0	5	0/0
Tunisia	0		1	1	0	x
Turkey	0	0	0	0	23	х
UK	2820	259	6	5	89	1/5
Ukraine	22		0	1	3	0/0

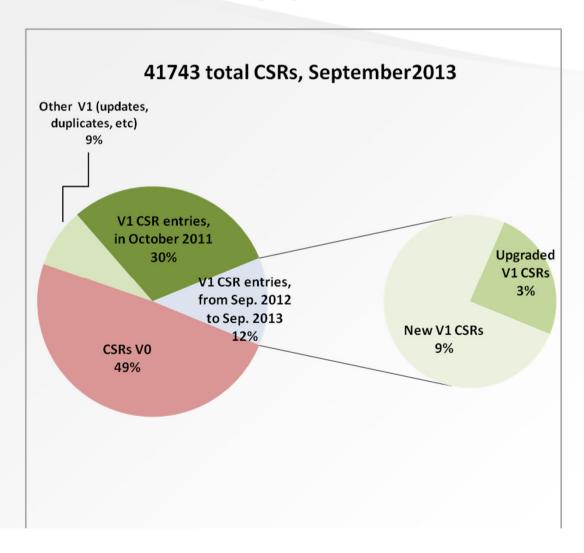


### CSRs change since Sept. 2012





# CSR V1 upgrade status





### What is new for CSR Inventory

- Common Vocabularies NERC CV2
- CSR ISO 19139 schema
- CSR ISO list for CDI
- WMS for GML Tracks

SeaDataNet

2<sup>nd</sup> Plenary meeting, Lucca, Italy, 26-27 Sept., 2013

### Use of NERC Vocabularies CV2 for CSRs

#### **NEW**

- ICES platform codes : C17
- SeaVoX salt and fresh water body gazetteer: C19 instead of SeaDataNet sea areas C16

#### Essentially the same

- ISO countries: C32
- Ten-degree Marsden Squares : C37
- SeaDataNet ports gazetteer: C38
- SeaDataNet CSR data categories: C77
- SeaVoX platform categories: L06
- SeaDataNet CSR quantification units: L18
- SeaDataNet parameter discovery vocabulary: P02
- SeaDataNet device categories: L05
- SeaDataNet data access restriction policies: L08

Use "NOT deprecated" terms

New vocabs already in use for CSR CMS and user interface



</codeEntry>

2<sup>nd</sup> Plenary meeting, Lucca, Italy, 26-27 Sept., 2013

# CSR ISO 19139 Format and Cross Reference from CDI

- New XML Format
  - XML schema finalised
  - Ingestion of CSR in new format being tested
- CSR ISO List (e.g. local csr id and global csr id) (only for upgraded records)

are now available via

http://seadata.bsh.de/isoCodelists/sdnCodelists/csrCodeList.xml

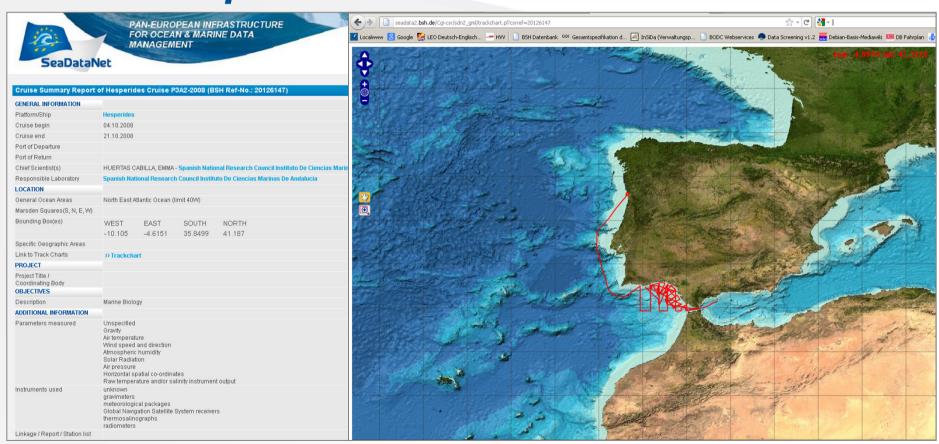
<codeEntry>
<CodeDefinition gml:id="SDN\_CSRCode 20116263">
<gml:metaDataProperty about="http://www.seadatanet.org/urnurl/SDN:EDMO::396"/>
<gml:metaDataProperty about="http://www.seadatanet.org/urnurl/SDN:CSR::20116263"/>
<gml:metaDataProperty about="http://seadata.bsh.de/cgi-csr/retrieve\_sdn2/xmlDownload\_V1.pl?csrref=20116263"
<gml:description>CV9821 - Celtic Voyager (45CV)</gml:description>
<gml:identifier codeSpace="SeaDataNet">20116263</gml:identifier>
<gml:name codeSpace="EDMO">386\_CV9821</gml:pame></codeDefinition>

This provides a cross reference to the CSR e.g more cruise metadata will be available through the CDI

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### Web Map Service for GML Tracks in test





### **Upcoming!**

# CSR Harvesting via CS-W from SDN partners

and from ships later (EuroFleets)

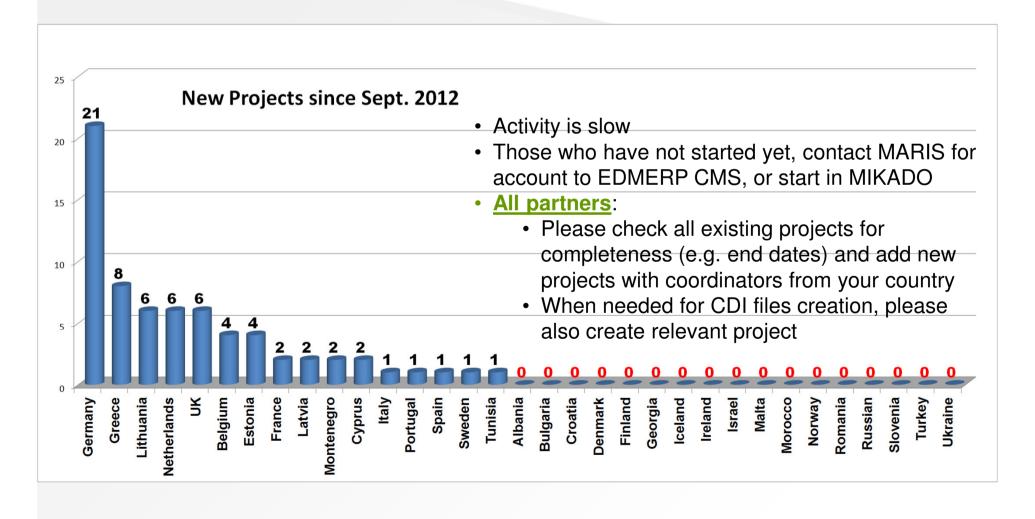


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Iceland	13	0	0	0	0	х
Ireland	87		0	14	14	0/0
Israel	7		0	0	0	х
Italy	11	0	1	0	14	3/10
Latvia	4		2	15	3	X
Lithuania	0		6	0	0	X
Malta	0	0	0	0	1	X
Montenegro	1		2	2	4	0/0
Morocco	0	0	0	0	2	X
Netherlands	18	0	6	17	2	X
Norway	61	837	0	0	2	0/0
Poland	12	0	0	0	4	х
Portugal	8	6	1	0	2	1/14
Romania	0		0	0	7	х
Russian Federation	0	0	0	0	15	х
Slovenia	79		0	0	0	0/0
Spain	52	0	1	0	1	1/4
Sweden	62		1	0	5	0/0
Tunisia	0		1	1	0	x
Turkey	0	0	0	0	23	х
UK	2820	259	6	5	89	1/5
Ukraine	22		0	1	3	0/0

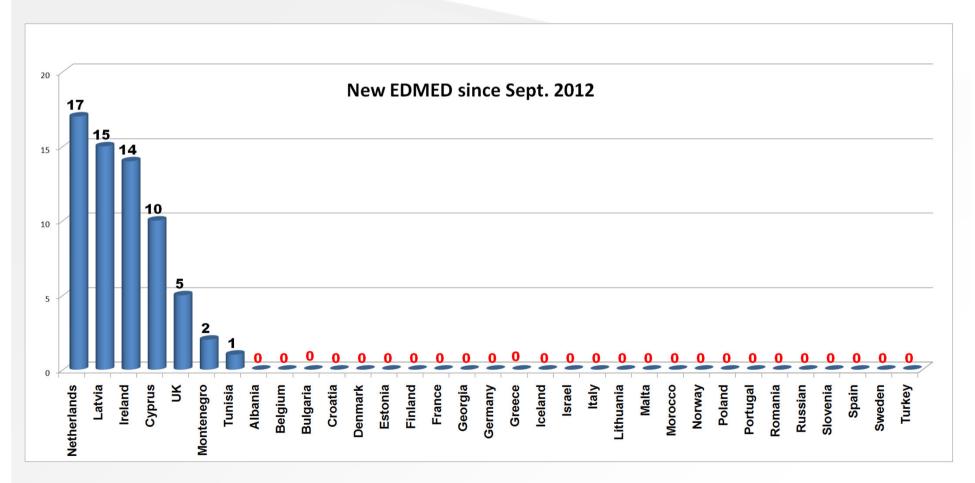


## Projects change since Sept. 2012





### EDMED change since Sept. 2012





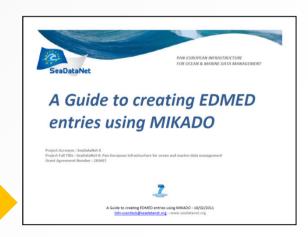
### Updating and managing EDMED content

### **BODC** needs to receive new/updated EDMED records

- Through the appropriate collating centre (which is responsible for managing the allocation of local ids)
- Generated using Mikado
- Please review your entries!

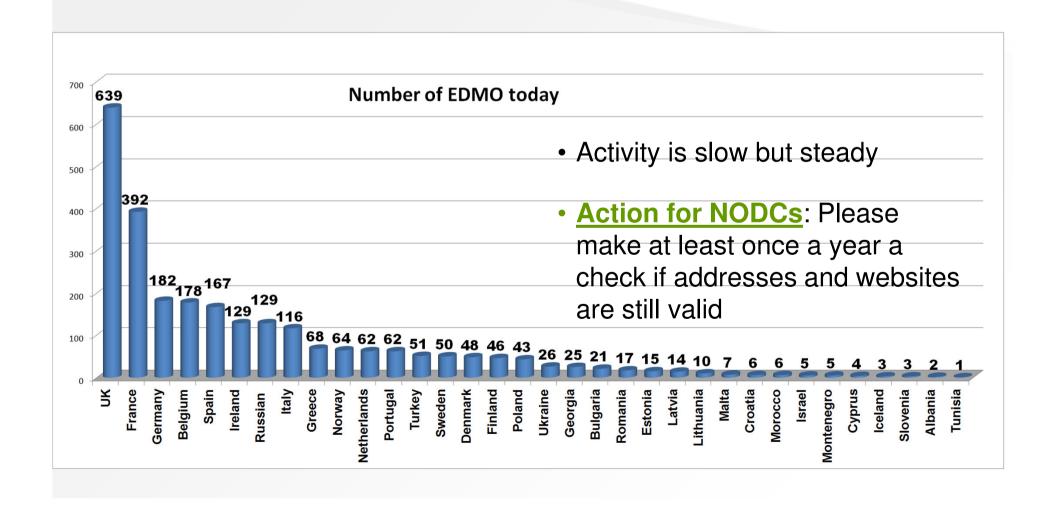
### Help is available as follows:

- Mikado manual
- User manual for updating metadata directories (D4.6)
- New guidance note on content





## Organizations today





### **EDIOS** status

# EDIOS – Entries updated from Sept 2011 to Sept 2013 (only Portugal and Ireland had new entries)

EDMO code	Partner organisation	Country	Series	Programmes
713	Marine Systems Institute at Tallinn University of Technology	Estonia	2	2
486	IFREMER / IDM/SISMER	France	990	26
1850	Federal Maritime and Hydrographic Agency	Germany	10	1
164	Hellenic Centre for Marine Research, Institute of Oceanography (HCMR/IO)	Greece	8	1
396	Marine Institute	Ireland	73	12
136	ENEA Centro Ricerche Ambiente Marino - La Spezia	Italy	38	29
2432	Institute of Marine Biology (IMBK)	Montenegro	2	1
612	Institute of Marine Research - Norwegian Marine Data Centre (NMD)	Norway	279	4
590	IHPT, Hydrographic Instituteemy of Sciences	Portugal	14	1
1229	National Institute of Biology - NIBMarine Biology Station	Slovenia	4	1
353	IEO/Spanish Oceanographic Institute	Spain	27	2
545	Swedish Meteorological and Hydrological Institute	Sweden	25	2
687	Department of Marine Environmental & Information Technologie of the Marine Hydrophysical Institute of the Ukrainian National Academy of Sciences	Ukraine	1	1
43	British Oceanographic Data Centre	United Kingdom	15113	275
		Total	16584	358



### Submitting new EDIOS entries

### **BODC** needs to receive new EDIOS records

- Through the appropriate collating centre (which is responsible for managing the allocation of local ids)
- Generated using Mikado
- Priority is for Observing Programmes with physical parameters (T/S, currents, sea level, waves, winds, light attenuation) for EMODnet Physics



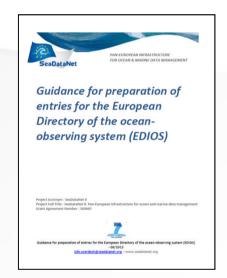
To look at currently available EDIOS entries, visit: <a href="http://seadatanet.maris2.nl/v">http://seadatanet.maris2.nl/v</a> edios v2/search.asp



### Submitting new EDIOS entries

### Help is available as follows:

- Mikado manual
- User manual for updating metadata directories
- New guidance note on content



To look at EDIOS entries in the test database, visit: <a href="http://edios-test.maris2.nl/v">http://edios-test.maris2.nl/v</a> edios v2/search.asp

Please send completed EDIOS XML files to BODC: Lesley Rickards (<u>lir@bodc.ac.uk</u>) / Maureen Pagnani (<u>mred@bodc.ac.uk</u>)