Emodnet Chemistry Second Interim Report revision:

Section 2.1. Includes ICES data and other data. Please explain how you avoid duplicates.

The sentence present in the report is here extended and clarified.

For this purpose ICES distributed to all partners in the region a worksheet with the content of the database per submitting institute, per parameter and per matrix in order to determine what additional data had not already been included.

The handling of duplicates in a systematic and operational way is beyond the scope of the EMODNET Chemical pilot and it has been included in the context of the SeaDataNet II proposal, where it is intended to tackle the issue for all nodes in the distributed network.

Section 2.2. In the Black Sea the data is mostly from research agencies. Is it still difficult to collect data from environment agencies, even though they provide them to the Black Sea Commission?

At the moment, about the Black Sea data source situation, we have complete information only from some countries. For example about Ukraine, Russia and Georgia we are informed that there is no exact difference between "research" and "environment" agencies. Indeed the data are mostly from "research" agencies because "environment" (non-governmental) agencies have no proper equipment to measure chemical elements and pollutants in seawater.

Specifically about Ukraine only UkrSCES can be considered as environment agency and it is a component of the governmental ecological structure. A part of the Black Sea data are from them. At the moment, as presented during the last meeting in Bruxelles, this data are passing the quality check procedure.

Still in Ukraine there is an ecological station under Odessa National University located on Zmeiny island. It is not a research agency either. Black Sea data pool plan to receive data from it within 2011. Besides this they hope to get some additional data from the institutions participating in BlackSeaScene Upgrade Project in 2011.

At the moment about Bulgaria and Romania we don't have enough information to describe their situation.

Section 2.3. Could you explain what you mean by "seasonal time scale" and provide examples?

This issue was specifically discussed inside data collection and analysis for the Mediterranean region

By seasonal time scale it is meant the division of all available years in four seasons (winter, spring, summer, fall).

As winter are selected the first three months of the year: January, February and March. (and so on for the rest of the seasons).

In the Cyprus case the data are in a synoptic scale e.g. specific cruises in specific months. So, depending on the data density, highlighted by the spatial and temporal analysis, the products are computed on a monthly scale of specific years.

Section 2.4. Could you indicate how much data for each country comes from public authorities, universities or research institutes?

The following table gives an overview of CDI records for EMODNET Chemistry per Data Centre giving the source of data (Originator), the principal activity of the organization and the related legal status. The following codes are used:

Activity Type

REC	Research	organisations only or mainly established for research purposes
EDU	Education	organisations only or mainly established for education/training, e. g. universities, colleges, schools
IND	Industry	industrial organisations private and public, both manufacturing and industrial services – such as industrial software, design, control, repair, maintenance
ОТН	Others	

Legal Status

GOV	Governmental	local, regional or national public or governmental organisations e. g. libraries, hospitals, schools
INO	International Organisation	an international organisation established by national governments
EUB	European Body	A European organisation
PUC	Public Commercial Organisation	commercial organisation established and owned by a public authority

PRC	Private Commercial Organisation including Consultant	any commercial organisations owned by individuals either directly or by shares
EEI	European Economic Interes	t Group
PNP	Private Organisation, Non Profit	Any privately owned non profit organisation

collator	Per Originator	Country	Datasets	Activity Type	Legal Status
BSH-DOD	Alfred Wegener Institute for Polar and Marine Research (AWI), Geophysics Department	Germany	3775	REC	GOV
BSH-DOD	Alfred-Wegener-Institute for Polar- and Marine Research	Germany	5271	REC	GOV
BSH-DOD	Baltic Sea Research Institute Warnemuende (IOW)	Germany	1316	REC	GOV
BSH-DOD	Elhe River Water Authority	Germany	715	REC	GOV
BSH-DOD	Ederal Institute of Hydrology (BEG)	Germany	10	REC	GOV
BSH-DOD	Federal Maritime and Hydrographic Agency	Germany	3382	REC	60V
	Federal Bessereb Centre for Eisberige (Cuybeyen)	Cermony	5302	DEC	
	Federal Desearch Centre for Fisheries (Cuxilaven)	Cermany	07	DEC	60V
BSH-DOD	Federal Research Centre for Fisheries (Hemburg)	Germany	212	REC	GOV
BSH-DOD	German Hydrographic Institute	Germany	26	REC	GOV
BSH-DOD	GKSS Research Center	Germany	122	REC	GOV
BSH-DOD	Institute of Biochemistry and Food Chemistry, University Hamburg	Germany	27	EDU	GOV
BSH-DOD	Institute of Biogeochemistry and Marine Chemistry (IfBM), University of Hamburg	Germany	80	EDU	GOV
BSH-DOD	Lower Saxony Water Management, Coastal Defense and Nature Conservation Agency	Germany	341	REC	GOV
BSH DOD	Sanckanhara by the Sac, Marine Science Denartment	Gormany	157	DEC	GOV
	Senckenberg by the Sea, Manne Science Department	Germany	4070	REC	001
BSH-DOD	State Agency for Environment, Nature and Geology, Mecklenburg-Vorpommern	Germany	1379	REC	GUV
BSH-DOD	State Agency for Nature and Environment of Schleswig Holstein (LANU)	Germany	2528	REC	GOV
BSH-DOD	State Office for Agriculture, Environment and Rural Areas of Schleswig Holstein (LLUR)	Germany	209	REC	GOV
BSH-DOD	State Office for Water Economy and Shore, Schleswig-Holstein, Kiel	Germany	36	REC	GOV
BSH-DOD	State Office of Ecology of Lower Saxony	Germany	473	REC	GOV
BSH-DOD	Waterways and Shinning Authority Wilhelmshaven	Germany	26	REC	VOA
	Waterways and Onipping Automity Winternsnaven	Oermany	20	REC DEC	001
BSH-DOD	vvaterways and Shipping Office Cuxnaven	Germany	28	REC	GUV
BSH-DOD	Weser River Management Bureau	Germany	8	REC	GOV
FIMR	Finnish Institute of Marine Research (FIMR)	Finland	2104	REC	GOV
GAMMA	Scientific - Research Firm GAMMA	Georgia	308	REC	PUC
HCMR	Hellenic Centre for Marine Research, Institute of Oceanography (HCMR/IO)	Greece	19110	REC	GOV
IFO	Baleares Islands University, Environmental Biology Department, UIB	Snain	202	REC	GOV
	Control for Advanced Studios of Plance (CEAP COIC)	Opain	223	DEC	COV
	Centre for Advanced Studies of Diaries (CEAB-CSIC)	opairi o :	255	REC	000
IEU	IEU/ Murcia Oceanographic Centre	Spain	1225	REC	GOV
IEO	IEO/ Balearic Islands Oceanographic Centre	Spain	670	REC	GOV
IEO	IEO/ La Coruna Oceanographic Centre	Spain	658	REC	GOV
IFO	IEO/ Malaga Oceanographic Centre	Snain	1129	REC	GOV
	IEO/ Santandar Oceanographic Contro	Spain	1740	DEC	GOV
	IEO/ Santander Oceanographic Centre	Spain	1746	REC	GOV
IEO	IEU/ Vigo Oeanographic Centre	Spain	1111	REC	GOV
IEO	Institute of Marine Sciences. Mediterranean Marine and Environmental Research Centre	Spain	509	REC	GOV
IEO	Spanish Oceanographic Institute	Spain	2036	REC	GOV
IFERMER	CEA / INSTITUT DE RADIOPROTECTION ET DE SURETE NUCLEAIRE	France	221	REC	GOV
IFERMER	CEA / LABORATOIRE DES. SCIENCES DU CLIMAT ET, DE L'ENVIRONNEMENT	France	282	REC	env.
		France	202	INCO	000
		France	15	REU	GOV
IFERMER	CNRS / Center of Oceanology of Marseille (COM) La-Seyne-Sur-Mer	France	92	REC	GOV
IFERMER	CNRS / COM - LAB. D' OCEANOGRAPHIE & DE BIOGEOCHIMIE -ENDOUME	France	507	REC	GOV
IFERMER	CNRS / COM - LAb. D'OCEANOGPHIE ET DE BIOGEOCHIMIE - TOULON	France	152	REC	GOV
IFERMER	CNRS / LABORATOIRE DE MICROBIOLOGIE MARINE	France	137	REC	GOV
IFEDMED	CNIRS / LEGOS	Franco	57	DEC	eov
				REC	00V
	UNRS/STATION BIOLOGIQUE DE ROSCOFF	France	3	REU	GOV
IFERMER	DEPARTEMENT DE GEOLOGIE ET OCEANOGRAPHIE (UNIV. BORDEAUX 1) (UNIVE	France	268	EDU	GOV
IFERMER	IFREMER	France	1040	REC	GOV
IFERMER	IFREMER / BE-DPT CHEMICAL POLLUTENTS, BIOGEOCHEMISTRY & ECOTOXICOL	France	72	REC	GOV
IFERMER	IEREMER / CENTRE DE BREST	France	333	REC	GOV
		France	000	DEC	00V
			470	REC	001
IFERMER	Ifremer / Creia	France	172	REC	GUV
IFERMER	IFREMER / DYNECO-DPT DYNAMIQUES DE L'ENVIRONNEMENT COTIER	France	368	REC	GOV
IFERMER	IFREMER / EEP/LEP-DEEP ENVIRONMENT LABORATORY	France	16	REC	GOV
IFERMER	IFREMER / EMH-DEPARTEMENT ECOLOGIE ET MODELES POUR L'HALIEUTIQUE	France	388	REC	GOV
IFERMER	IEREMER / GM-MARINE GEOSCIENCES	France	5	REC	GOV
IFEDMED		Franco	272	DEC	COV
		France	273	DEC	COV
	IFREMER / STATION DE LA TRINITE	r rance	26	REC	GUV
IFERMER	IFREMER / STATION DE SETE	France	45	REC	GOV
IFERMER	IFREMER / STH-DEPARTEMENT SCIENCES ET TECHNOLOGIES HALIEUTIQUES	France	72	REC	GOV
IFERMER	lfremer / Tahiti Centre COP	France	105	REC	GOV
IFERMER	IFREMER/EEP/ DEEP SEA ENVIRONMENT DEPARTMENT	France	1	REC	GOV
		Franca	124	PEC	GOV
	ING THE FITTINGUE DU GLUBE DE PARIS / UBSERVATURIES - IPOP	France France	131	IDEO	007
	IRD7 CENTRE DE CATENNE- GUTANE	rrench Gulana	4//	REC	GOV
IFERMER	IRD / CENTRE DE MONTPELLIÈR	France	840	REC	GOV
IFERMER	IRD / CENTRE DE PAPEETE	France	863	REC	GOV
IFERMER	IRD / CENTRE OF ABIDJAN	Cote D'Ivoire	2958	REC	GOV
IFERMER	IRD / CENTRE OF POINTE NOIRE	Congo	725	REC	GOV
		Erongo	720	DEC	COV
		n rance Coordinate	48	IDEO	007
	IRD / CENTRE DE BRETAGNE	r rance	1815	REC	GOV
IFERMER	IRD ANTENNE INSTITUT OCEANOGRAPHIQUE (IRD)	France	601	EDU	GOV
IFERMER	LABORATOIRE DE PHYSIQUE DES OCEANS/UBO (UNIVERSITE DE BRETAGNE OC	France	1026	EDU	GOV
IFERMER	LABORATORY of OCEANOGRAPHY and CLIMATE (LOCEAN)	France	3241	REC	GOV
IFERMER	LABORATORY OF OCEANOGRAPHY of VILLEERANCHE (LOV)	France	19/0	REC	GOV
	LABORATORY OF OVERAL OCEANING BARBLY (LON) LIMB 6533 CNIDS ISDEMED ID	Franco	1040	EDU	COV
	METEO EDINOE (CENTRE METEOROLOGICUE NEVERO	n rance	1064	DEC.	007
IFERMER	METEU FRANCE / CENTRE METEURULUGIQUE NEVERS	France	65	REC	GUV
IFERMER	MUSEUM NATIONAL D'HISTOIRE NATURELLE / DEPARTEMENT MILIEUX PEUPLEMI	France	31	REC	GOV
IFERMER	MUSEUM NATIONAL D'HISTOIRE NATURELLE / LABORATOIRE D'OCEANOGRAPHIE	France	760	REC	GOV
IFERMER	Observatoire Oceanologique De Banyuls (Université de Paris VI)	France	655	EDU	GOV
IFERMER		France	404	REC	GOV
	Universite D'Anvere (Lehersteire Des Die Indestaurs Astusis Et Cassilia, (D'. A	Example	401	DEC	COV
	Universite D'Angers / Laboratoire Des Bio-Indicateurs Actuels Et Fossiles (Biaf)	r rance	26	REC	000
IFERMER	UNIVERSITE DE BORDEAUX 17 IGBA TALENCE	France	19	REC	GOV
IFERMER	UNIVERSITE DE BORDEAUX I / INSTITUT DE BIOLOGIE MARINE	France	27	REC	GOV
IFERMER	Universite de Bordeaux I / Laboratoire De Physico Et Toxico-Chimie Ism	France	19	REC	GOV
IFERMER	UNIVERSITE DE BRETAGNE OCCIDENTALE (UBO) / LAB. D'OCEANO, CHIMIQUE LO	France	150	EDU	GOV
IFEDMED	LINIVEDSITE DE LA MEDITEDRANNEE (10) / CENTRE D'OCEANOLOCIE DE MARCE	France	100	EDU	GOV
		n rance	100	EDU	007
IFERMER	UNIVERSITE DE LA MEDITERRANNEE (U2) / COM - LAB. OCEANOG. & BIOGEOCHI	France	1469	EDU	GUV

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IFERMER	UNIVERSITE DE PERPIGNAN / CEFREM	France	31	EDU	GOV
IFR	Institute of Fishery Resources (IFR)	Bulgaria	138	REC	GOV
			45.40	DEO	001
IFREMER	IRD 7 CENTRE DE LA REUNION	Reunion	1549	REC	GUV
IFREMER	IRD / CENTRE OF HANN	Senegal	153	REC	GOV
		Indonacio	01	DEC	COV
		Indonesia	01	REC .	60V
IFREMER	IRD / CENTRE OF MADAGASCAR	Madagascar	1	REC	GOV
IEREMER	IRD CENTRE DE NOUMEA	New Caledonia	4839	REC	GOV
			4507	EDU	000
INS-METO	Institute of Marine Sciences, Middle East Technical Oniversity	Turkey	1507	EDO	GUV
Institute of Oce	Center for marine research - Rudjer Boskovic Institute	Croatia	578	REC	GOV
Institute of Oes	Institute of Occorporation and Eicherica	Creatia	900	DEC	COV
institute of Oce	institute of Oceanography and Fishenes	Ciualia	033	REC	60v
IO-BAS	Institute of Oceanology, Bulgarian Academy of Sciences (IO-BAS)	Bulgaria	40	REC	GOV
IOLR	lergel Oceanographic and Limpological Research (IOLR)	leraol	3110	REC	GOV
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Latvian Institute	Latvian Institute of Aquatic Ecology	Latvia	134	REC	GUV
MHI	Institute of Biology of the Southern Seas, NAS of Ukraine	Ukraine	339	REC	GOV
мш	Marine branch of Illuminian Hudramateeralagical Institute	Ultraina	00	DEC	COV
	Manne Branch of Okraman Hydrometeorological Institute	Okraine		REC	60v
MHI	Marine Hydrophysical Institute	Ukraine	2050	REC	GOV
MHI	Scientific Research Institute of Ecological Problems (LISRIEP)	Likraine	Δ	REC	GOV
			4004	050	001
мні	Ukrainian scientific center of Ecology of Sea (UkrSUES)	Ukraine	4691	REC	GUV
NERC-BODC	Agri-Food and Biosciences Institute (AFBI)	United Kinadom	477	REC	GOV
NEDC BODC	Pritich Antoratio Curray (PAC)	United L/ingdom	77	DEC	001
NERC-BODC	Ditish Antarctic Survey (DAS)	Onited Kingdom	27	REU	GUV
NERC-BODC	Centre for Environment, Fisheries and Aquaculture Science, Lowestoft Laboratory	United Kingdom	2215	REC	GOV
NERC-BODC	Dunstaffnage Marine Laboratory (DML)	United Kingdom	640	REC	GOV
NERO BODO	Danstannage Manne Eastratory (DME)		040	REO REO	001
NERC-BODC	Fisheries Research Services, Aberdeen Marine Laboratory	United Kingdom	196	REC	GOV
NERC-BODC	Institute of Oceanographic Sciences Deacon Laboratory	United Kingdom	128	REC	GOV
NEPC PODC	Institute of Oceanographic Sciences Wermlay Laboratory	United Kingdom	202	PEC	COV
NERC-BODC	institute of Oceanographic Sciences wormley Laboratory	oniteu Kinguom	303	REC	307
NERC-BODC	Institute of Oceanographic Sciences, Bidston Laboratory	United Kingdom	277	REC	GOV
NERC-BODC	Marine Institute	Ireland	4501	REC	GOV
NERO BODO	Marine Deathard Osterne	n starte Haŭ sal 1255 mili	4021	DEC	001
NERC-BODC	Marine Scotland Science	United Kingdom	3298	REC	GUV
NERC-BODC	National Oceanography Centre (NOC), Southamoton	United Kingdom	18	REC	GOV
NERC BODO	Neurosetle University Department - Marine Oniverse and Onestal Marines	Linited Lined	10	DEC	COV
INERC-BODC	ivewcastle University Department of Marine Science and Coastal Management	unitea Kingdom	1	REU	GUV
NERC-BODC	Northern Ireland Environment Agency (NIEA), Water Management Unit	United Kingdom	709	REC	GOV
NERC-BODC	Plymouth Marine Laboratory (PML)	United Kingdom	20	REC	GOV
NERG-BODU	r tymouth wanne Laboratory (FINL)	onited Kingdom		REC DEC	007
NERC-BODC	Proudman Oceanographic Laboratory (POL)	United Kingdom	1	REC	GOV
NERC-BODC	Proudman Oceanographic Laboratory (POL)	United Kingdom	719	REC	GOV
NERO BODO			110	DEO	007
NERC-BODC	Scottish Association for Marine Science (SAMS)	United Kingdom	110	REC	GOV
NERC-BODC	Scottish Environment Protection Agency (SEPA)	United Kingdom	2089	REC	GOV
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NERC-BODC	Scottish Office Agriculture and Fisheries Department (SOAFD) - Aberdeen Marine Labor	United Kingdom	2302	REC	GUV
NERC-BODC	Scottish Office Agriculture Environment and Fisheries Department (SOAEFD) - Aberdeer	United Kingdom	275	REC	GOV
NEDC BODC	Southampton Occonography Contro	United Kingdom	40	DEC	COV
NERC-BODC	Southampton Oceanography Centre	Onited Kingdom	49	REC	GUV
NERC-BODC	The Environment Agency (EA)	United Kingdom	3428	REC	GOV
NERC-BODC	University of Cambridge Department of Earth Sciences	United Kingdom	16	EDU	GOV
NERO BODO			10	EDU	007
NERC-BODC	University of Plymouth, Institute of Marine Studies	United Kingdom	3	EDU	GOV
NERC-BODC	University of Southampton Department of Oceanography	United Kingdom	2	EDU	GOV
NEDC PODC	University of Michael School of Ocean Sciences	United Kingdom	222	EDU	COV
NERC-DODC	University of Wales, School of Ocean Sciences	IOIIILEU KIIIYUUIII			607
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NERI-MAR	National Environmental Research Institute, University of Aarhus, Department of Marine E	Denmark	116439	REC	GOV
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NERI-MAR NIBM NIMH-BAS NIMRD	National Environmental Research Institute, University of Aarhus, Department of Marine E National Institute of Biology - NIBMarine Biology Station Laboratory of Marine Ecology-Central Laboratory of General Ecology National Institute for Marine Research and Development Grigore Antipa	Denmark Slovenia Bulgaria Romania	116439 3242 101 3374	REC REC REC REC	GOV GOV GOV GOV
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Section 3.4 "following figure?" We don't see a figure

The regional task leaders, which are responsible for the regional data pools are recommended to work through the listed processes. The following figure describes the overall concept for the DIVA maps production and is recommended as the working process for the maps production.



Section 3.4. At Venice you mentioned that there was a possibility to do DIVA calculations suing time and length along coastline as variables. You should describe this possibility and if you have tried it, give examples, even if it doesn't work

This possibility was suggested for variables located along the coastline but this idea was later dropped for several reasons.

Among others DIVA and the product viewer would need to be adapted to generate and visualize such products. In some cases this would be quite a significant adaptation.

Several questions remain also open: how to avoid an erroneous interpolation between two adjacent bays which are largely disconnected when the problem is

reduced to only one spatial dimension? How can data which are not exactly at the coastline be included? They would probably need to be excluded from the analysis. For the DIVA products we have decided to show only the gridded field where the expected error does not exceed a given threshold. For parameters where data are only available near the coastline, the offshore analysis will be masked. This approach will be quite similar to performing the analysis only at the coastline, but with the benefit that the real topography is taken into account and that all data can be used.

You mentioned in Brussels that it would be difficult to aggregate products and present graphs on demand but will pre-prepare them beforehand. We would like a detailed discussion of this decision.

About this issue the point of view of the coordination group was more focused on consistency of analysis and products meaning than on the difficulty of the technical development.

More than one time was proposed to the Chemistry Lot to provide a "more interactive" approach for users. The proposals were to provide services able to generate "on demand" maps by a free choice of datasets of interest.

Several discussions of the coordination group about this were done. The conclusions were focused on the issue that data managed by the Chemistry Lot are too "sensitive" for this kind of approach. In fact these data are already very much sensitive to analyze and to interpret for the expert that works in the Chemical Oceanography field. Furthermore the feedback from the experts about this was that we must pay attention on the meaning of products that we obtain. One of the benefits of the pre-prepared products approach is the possibility to quality-check them before to let them available.

Talking about the technical point of view the generation of graphics on-the-fly is certainly a desirable capability. It allows close interaction with the underlying data set (for example, adjusting the scale of the time series to make graphs directly comparable to data from another source). This capability would require low-latency machine-to-machine access to the data set. The current system is build on machine-to-human interaction. The SeaDataNet 2 proposal is specifically addresses on this issue. If funded it will provide the machine-to-machine infrastructure which is required to generate aggregated products and graphs on demand. Of course, despite the reachable technical upgrade about on-demand products, we always must find the way to keep the eyes on the quality of possible dynamically generated products. This to prevent wrong or dubious conclusions.