

**11th MEETING OF THE IHO
INTER-REGIONAL COORDINATING COMMITTEE
IRCC11**

Genoa Italy (3-5 June 2019)

Report of the IHO-EU network working group (IENWG)

Submitted by:	Chair of IENWG
Related Documents:	MoU signed on 23 rd April 2012 between IHO and EC /
Related Projects:	/

Chair:	Laurent Louvart, France
Vice-Chair:	/
Secretary:	Corine Lochet, France
Members:	IHB, ARHC, represented by Denmark BSHC, represented by Sweden EAtHC, represented by France MACHC, represented by France MBSHC, represented by Greece NHC, represented by Norway NSHC, represented by Germany SAIHC, represented by France

During NIOHC18 in April 2018 it was decided that NIOHC will no longer be represented at IENWG meetings

Since the plenary meeting of February 2018, all EU/EEA HOs receive all documents and invitations to participate to the meetings of IENWG

Meetings Held During Reporting Period

IENWG 9 - Brussels, Belgium (20-21 November 2018)

Participation to EOOS Conference 21-23 November 2018

Work Programme

During the reporting period, the activities have mainly concerned:

1. “Coastal Mapping” project

A consortium, led by SHOM (FR) with 19 partners from 15 countries, conducted a study, from June 2015 to June 2018, financed by the European Commission, to identify the existing high resolution bathymetric data and the gaps along the EU coastal areas. A proposal of a future Joint European Mapping Programme has been prepared and has been presented to the EU Commission.

Three axes were proposed:

- Axis 1: Set up coordinated programmes for data acquisition at maritime basin scale
- Axis 2: Seize opportunities for bathymetric data acquisition in the framework of the EU operational programmes and funds, and ensure that those data are standardised and capitalized
- Axis 3: Promote good practices to produce bathymetric data from multiple sources, standardised for re-use by all coastal stakeholders to support maritime policies.

The progress on axis 2 and 3 is dependent on the diffusion of some IHO documents, the CSB Guidance (B-12) in particular, to develop better cooperation with the scientific community and industry who are acquiring data without sharing and with a low level of interoperability.

2. EOOS ; <http://www.eoos-ocean.eu/>

To develop these axes, the IENWG participated to the coordination of the strategy for EOOS¹ (European Ocean Observation System) and gave inputs to introduce the hydrography in this project of European strategy for acquisition and management of marine data. EOOS is a proposition of new way of acquisition and work with marine data, initially proposed by EUROGOOS and EU Marine board. Actually, the project is adopted by a lot of organizations like Copernicus, EMODNET, Offices of the EU Commission (DG MARE, DG GROW, DG CLIMATE, DG RESEARCH and INNOVATION), by EU Parliamentarians, and commissioners.

The IENWG introduced too, the need for more standardization, shared requirement with all the communities involved in the EOOS strategy.

Indeed, the different communities of marine data users and producers agree on the need to take better account of the quality and the interoperability of data for its re-use in the maritime policies like planning, coastal and maritime climate change risks, development of sustainable blue economy.

To valorize the expertise of the HOs, the CSB Guidance (B-12) will be distributed widely within the European scientific community and to the industrials likely to collect bathymetric data for their own needs.

The crowdsourcing is not only "citizen affair", but a multiple sourcing challenge, including (and interesting even in the first place) the *scientific community* and the companies dealing with maritime economy.

3. EMODNet

The EMODnet data infrastructure is being built in three major phases and is currently in its 3rd phase of development (2017 - 2020). Building on the EMODnet Bathymetry portal developed during Phase I (2009-2013) & Phase 2 (2013-2017). With the release, in 2018, of a new DTM at approximatively 100m grid resolution, it is expected to further improve the DTM with more surveys and improved tools taking benefit of redundant information when existing. Improvements of the data flow and interactions between data providers and full integration will also be part of EMODnet Bathymetry's consortium activities. Coastal areas will also remain an axis of major interest with direct measurements from Bathymetric Lidar, when available, or indirect measurements from satellites.

The interoperability between EMODNET and the IHO standards is a key point for European HOs.

4. Maritime spatial planning: MSP

Due to the importance of data produced by HOs for maritime spatial planning which is becoming a major topic of interest in Europe (MSP Directive 2014/89/EU), IENWG has obtained a position of observer in the European Commission EC Member State Expert sub-group on Maritime Spatial Planning. Some Hydrographic Offices² are involved in EU projects to develop relations among neighboring countries for the implementation of the MSP Directive.

The first lesson learned is the necessity to develop the coordination between the EU member states for the production and diffusion of interoperable data useful for MSP.

¹ The need for an end-to-end integrated and sustained European Ocean Observing System (EOOS) has been expressed by the oceanographic and scientific community during the development of the Integrated Maritime Policy in 2007. In 2016 EuroGOOS and European Marine Board convened an expert panel acting as EOOS Steering Group.

² FR, NO, NE, GE, IR, ES

5. European Re-use of public sector information Directive

A Directive on the re-use of public data and information is currently being promulgated. A list of generic categories of high value datasets, including "Geospatial" and "Earth observation and environment", which will have to be distributed freely and without charge, has been adopted. If the implementation act retain nautical charts this would have serious consequences for some hydrographic services, as they draw a significant part of their resources from the sale of charts.

The exchange of information about the evolution of the negotiations will continue in 2019 in order to develop a common understanding of the Directive.

6. Miscellaneous

Next meeting is planned to be organized back to back with the EMODNET steering committee and the Open Sea Lab hackathon in 4-6 September 2019 in Belgium.

Progress on IRCC Action Items

EOOS strategic implementation plans are now referring explicitly to hydrography in addition to oceanography and to observation platforms rather than research platforms. It increases the chances for EU HO to be part of the next framework program of the DG Research.

Problems Encountered

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Any Other Items of Note

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Justification and Impacts

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Action Required of IRCC

The IRCC is invited to endorse the report and the work programme.

CONSOLIDATED IHO-EU network WG Work Programme
Current Version 27-Feb-2018

Tasks

A	To follow up on the COASTAL MAPPING project in a JECMAP perspective
B	To evolve the position of European HOs about the future phase of EMODNet, the long term marine data initiative from the European Commission
C	To improve cooperation with the European Commission, by promoting amongst its entities and with decision makers the role of the hydrographic offices in development of EU maritime policies
D	To monitor European directives, calls for tenders and proposals, projects, events, etc, potentially impacting HOs and to define actions to be conducted in accordance

Work Items

Work item	Title	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
A.1	COASTAL MAPPING to follow up	H				O	GE (NSHC) DK (ARTIC) FR (EATHC) IT (MBSHC)	CSB Guidance (B12)	Built of a mutualized data acquisition plan per maritime basin Cross areas of interest - with UE Strategy for axis 1 (EOOS ...) and with ESIF opportunities - with CPMR tools for axis 2 - with CSBWG for axis 3 (wide promotion of CSB Document B-12 in EU/EEA HO)

Work item	Title	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superse- ded	Contact Person(s)	Related Pubs / Standard	Remarks
B.1	EMODNet & INSPIRE	H	S-1** issues			O	DK, NO with FR (EMODNet leader)	S100 Series	Prepare a submission paper to S-100 WG and DQWG on IHO strategy regarding Inspire (roughly, how to be sure that Inspire takes into account S-100 multi purpose profiles)??? On Going
C.1	Participation to the European Maritime Day 2018 (Bulgaria)	L		31 th may 2018	1 st jun 2018	S			Promote the role of the hydrographic offices in the development of EU maritime policies
C.2	Proposal of a historical data rescue project	M				O	PT with FR, SP, IT, IR		Organize a meeting for refining a data rescue project Link TWCWG through HSSC DONE

Work item	Title	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
C.3	Answer to the FP9 questionnaire	H			8 th Mar 2018	C	NO, GE, FR ...		Promote the role of the hydrographic offices in the development of EU DG Research policy
C.4	Answer the EU consultation on the UE policy adequation to the climate change	H				O	FR ...		Promote the role of the hydrographic offices in the development of EU DG Climate policy
C.5	MSP - Marine Spatial Planning HOs experiences feedback to EU MSP Expert Group	M	Next MSP Expert Group meeting		Sept 2019	O	GE, DK with FR, NO		Provide MSDIWG with a submission paper, taking into account data relevant for MSP and recommendations for metadata On Going after the end of EU projects in September 2019

Work item	Title	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
C.6	Participate to INSPIRE Conference (Antwerp, Belgium)	M		18 th sept 2018	21 th sept 2018	C	NL with FR		HOs experiences feedback Golden pineapple won by NL HO!
C.7	Answer the EOOS questionnaire	H			12 th apr 2018	C	FR		Promote the role of the hydrographic offices in the EOOS strategic plan A report of the EOOS Forum (8 th -9 th mar 18) has been disseminated within the WG

Work item	Title	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
C.8	Participate to EOOS Conference (Brussels, Belgium)	H		21 th nov 2018	23 th nov 2018	C	FR (Chair)		<p>Promote the role of the hydrographic offices in the EOOS strategic plan</p> <p>Chair will prepare a position paper for EOOS Conference, to be endorsed by the IENWG</p> <p>A IENWG9 plenary meeting will be organized back-to-back to the EOOS Conference</p> <p>ACHIEVED Hydrography was promoted in the documents and the HOs are waiting the document of CSBWG to disseminate it in the research</p>

Work item	Title	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
D.1	To detect calls for tenders, calls for proposals, projects and events which could be of interest to the IENWG	M				C	FR		<p>Establish a process to monitor EC communications (beyond DG MARE, with a special attention towards DG MOVE and projects linked to navigation)</p> <p>A session was organized to inform the HOs about the way to monitor and participate to EU projects.</p>

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List of Members

Member State	RHC³⁴		
Full members (ToR 4.a)	Representing		
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/			
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		M Yves GUILLAM	

³ RHC : Regional Hydrographic Commission

⁴ South West Pacific HC should have a representative but has not yet