



ORGANIZACION HIDROGRAFICA INTERNACIONAL

Dossier del BHI N° S1/1001/WP

CARTA CIRCULAR N° 48/2016
22 de Septiembre del 2016

INFORME SOBRE LA SITUACION GENERAL DEL PROGRAMA DE TRABAJO DE LA OHI - A MEDIADOS DEL 2016

Referencias:

- A. CHIE-5 - Decisión No. 3 (*PRO. 5 - Mejora de la estimación del costo total de las tareas de la OHI para la definición de un Programa de Trabajo clasificado por prioridades*);
- B. Carta Circular de la OHI N° 17/2015 del 24 de Febrero - *Informe sobre la situación general del Programa de Trabajo de la OHI a finales del 2014*;
- C. Carta Circular de la OHI N° 66/2015 del 2 de Septiembre del 2015 - *Informe sobre la situación general del Programa de Trabajo de la OHI a mediados del 2015*;
- D. Carta Circular de la OHI N° 14/2016 del 15 de Marzo del 2016 - *Informe sobre la situación general del Programa de Trabajo de la OHI a finales del 2015*.

Estimado(a) Director(a),

Antecedentes

1. La Decisión N° 3 de la 5ª Conferencia Hidrográfica Internacional Extraordinaria (CHIE-5) introdujo un sistema semestral de presentación de informes para ayudar a evaluar el progreso del Programa de Trabajo de la OHI (ver la Referencia A). Los informes de situación para el 2014 y el 2015 fueron proporcionados a los Estados Miembros en las Referencias B, C y D. Esta Carta Circular proporciona un informe para el próximo periodo de presentación de informes - el primer semestre del 2016.

2. El 11 de Julio del 2016, el Comité Directivo invitó a los Presidentes de las Comisiones Hidrográficas Regionales, de los Comités, Subcomités y Grupos de Trabajo y al Director del Centro de Datos de la OHI para Batimetría Digital (DCDB) a informar antes del 19 de Agosto del 2016 sobre la situación general de su programa de trabajo respectivo. Para ello, se proporcionó un modelo de presentación de informes.

Resultado a mediados del 2016

3. 19 de los 41 Presidentes proporcionaron un informe para el periodo de Enero a Junio del 2016. Esto representa un nivel de respuestas de alrededor del 46%, ligeramente inferior al nivel de respuestas registrado para el periodo anterior de presentación de informes (49%). Se adjunta en el Anexo A el inventario de las respuestas durante los últimos dos años.

4. Según las directivas proporcionadas por la CHIE-5, el Comité Directivo proporciona en el Anexo B un breve resumen de los informes recibidos. Los informes mismos se reproducen en el Anexo C (*en Inglés únicamente*).

Principales preocupaciones mencionadas

5. Las principales preocupaciones expresadas en los informes se refieren a competencias insuficientes o a una ausencia de recursos humanos que tienen un impacto directamente sobre la probable capacidad de progresar de un número de elementos de trabajo. La mejora de la situación

requiere una mayor participación y un compromiso a mayor plazo de los Estados Miembros en los órganos pertinentes de la OHI.

Retroinformación

6. Cinco Estados Miembros han proporcionado comentarios en respuesta a la Referencia D: Chile, Colombia, Francia, Mauricio y Singapur. Se proporcionan sus respuestas en el Anexo D.

7. Dos Estados Miembros se han manifestado a favor de volver al régimen de presentación de informes anuales. Tres Estados Miembros apoyan la continuación de informes semestrales para el HSSC, el IRCC y sus órganos subordinados por lo menos.

8. Para informar adicionalmente sobre su evaluación relativa al proceso de información que el Secretario General incluirá en su informe sobre el Programa 1 a la Asamblea de la OHI en el 2017 (según la Decisión de la Conferencia indicada en la Referencia A), se invita a los Estados Miembros a proporcionar los comentarios adicionales que puedan tener a la Secretaría de la OHI (cl-lc@iho.int) **antes del 1 de Diciembre del 2016.**

Próximo periodo para la presentación de Informes

9. Observando que se ha invitado a los Presidentes de los Comités y de las Comisiones Hidrográficas Regionales a preparar sus informes sobre las actividades que cubren el periodo entre la XVIII^a Conferencia Hidrográfica Internacional y la 1^a Sesión de la Asamblea de la OHI antes del 1 de Diciembre del 2016, el Comité Directivo no solicitará informes semestrales separados para el segundo semestre del 2016.

En nombre del Comité Directivo
Atentamente,



Robert WARD
Presidente

Anexos:

- A. Inventario de las respuestas a las cuatro encuestas semestrales;
- B. Compilación de los Informes de Situación de los órganos de la OHI y de los órganos inter-organizativos que implican a la OHI - mediados del 2016;
- C. Informes de Situación recibidos - mediados del 2016 (*en Inglés únicamente*);
- D. Respuestas de los Estados Miembros a la CC de la OHI N° 14/2016.

Copia (por e-mail):

- Presidentes y Vice-Presidentes de los órganos de la OHI;
- Presidentes y Vice-Presidentes de los órganos inter-organizativos que implican a la OHI.

INVENTARIO DE LAS RESPUESTAS A LOS TRES INFORMES SEMESTRALES

Órganos de la OHI y órganos inter-organizativos	Informes a finales del 2014	Informes a mediados del 2015	Informes a finales del 2015	Informes a mediados del 2016	Comentarios
HSSC	Sí	Sí	Sí	Sí	
S-100WG	Sí	Sí	Sí	Sí	
ENCWG	Sí (DIPWG)	Sí	Sí	Sí	
DPSWG	Sí	Sí	Sí	Sí	
NIPWG	Ningún informe	Sí	Sí	Sí	
NCWG	Sí	Sí	Sí	Sí	
DQWG	Sí	Sí	Ningún informe	Ningún informe	
TWCWG	Sí (SCWG)	Sí	Ningún informe	Sí	
HDWG	Ningún informe	Sí	Sí	Sí	
ABLOS	Ningún informe	(retraso en la sumisión)	Ningún informe	Sí	
IRCC	Sí	Sí	Ningún informe	Sí	
CHA	Sí	Sí	Ningún informe	Sí	
SC-SMAN	Sí	Sí	Sí	Ningún informe	
CBSC	Sí	Ningún informe	Ningún informe	Sí	
WEND-WG	Sí	Sí	Sí	Ningún informe	
IENWG	Sí	Sí	Sí	Sí	
MSDIWG	Sí	Ningún informe	Ningún informe	Ningún informe	
CSBWG	No aplicable	No aplicable	Ningún informe	Sí	CSBWG establecido por el IRCC7 (Junio del 2015)
IBSC	Ningún informe	Ningún informe	Ningún informe	Ningún informe	
GEBCO-GC	Sí	Sí	Ningún informe	Ningún informe	
TSCOM	Sí	Sí	Sí	Ningún informe	Informes conjuntos
SCRUM					
SCUFN	Sí	Sí	Sí	Ningún informe	
DCDB	Ningún informe	Ningún informe	Ningún informe	Ningún informe	
CHN	Ningún informe	Sí*	Sí*	Ningún informe	Ver nota*
CHMN	Sí	Sí	Sí	Sí	
CHMMN	Ningún informe	Ningún informe	Ningún informe	Sí	
CHMB	Ningún informe	Ningún informe	Ningún informe	Ningún informe	
USCHC	Ningún informe	Ningún informe	Ningún informe	Ningún informe	
CHAO	Ningún informe	Ningún informe	Ningún informe	Ningún informe	
CHAtO	Sí	Sí	Sí	Ningún informe	
CHRPSE	Ningún informe	Ningún informe	Ningún informe	Ningún informe	
CHPSO	Ningún informe	Ningún informe	Ningún informe	Ningún informe	
CHMMC	Sí	Sí	Sí	Sí	
CHAIA	Sí	Sí	Sí	Sí	
CHOIS	Sí	Ningún informe	Sí	Ningún informe	
RSAHC	Ningún informe	Ningún informe	Ningún informe	Ningún informe	
CHAtSO	Ningún informe	Ningún informe	Ningún informe	Ningún informe	
CHRA	Ningún informe	Ningún informe	Ningún informe	Ningún informe	
CF	Sí	Sí	Ningún informe	Ningún informe	
SRWG	Sí	Sí	Sí	Sí	
Nivel de respuestas (%)	62.5	65	49	46	

*Nota: el Comité Directivo reconoce que los informes de la CHN a mediados del 2015 y a finales del 2015 fueron proporcionados a su debido tiempo y lamenta que no fueran indicados como correspondía en los inventarios pertinentes.

**COMPILACION DE LOS INFORMES DE SITUACION DE LOS ORGANOS DE LA OHI Y
DE LOS ORGANOS INTER-ORGANIZATIVOS QUE IMPLICAN A LA OHI –
MEDIADOS DEL 2016**

Número de respuestas:

1. El 15 de Septiembre del 2016, los Presidentes de 19 órganos habían contestado a la solicitud del BHI. Los 22 órganos siguientes no habían proporcionado ningún informe:

- órganos subsidiarios:
CF;
- órganos subordinados del HSSC:
DQWG;
- órgano subordinado del IRCC:
SC SMAN, MSDIWG, GT WEND, DCDB;
- Comisiones Hidrográficas Regionales:
CHRA, CHMB, CHAO, CHAtO, CHN, CHOIS, RSAHC, CHRPS, CHAtSO, CHPSO, USCHC;
- órganos inter-organizativos: IBSC, GEBCO GC, TSCOM, SCUFN, SCRUM.

Situación del Programa de Trabajo del HSSC

2. Un número de tareas y actividades relativas al desarrollo de la estructura de la S-100 están progresando más despacio de lo esperado. Los retrasos afectan en particular a la actualización de la Base de registros de la S-100 y al desarrollo del componente de representación. Esto, a su vez, tiene un impacto en el trabajo sobre el desarrollo de las especificaciones de producto.

3. La redacción de las nuevas ediciones de la S-58 - *Verificaciones para la Validación de ENC's* y la S-66 - *Las Cartas Electrónicas y las Prescripciones de Transporte: hechos* ha sido retrasada adicionalmente debido a la falta de recursos humanos. La implementación de la nueva serie de referencias normativas de la OHI para ECDIS ha revelado imperfecciones adicionales que están siendo tratadas mediante la preparación de aclaraciones conforme a los procedimientos destacados en la CC de la OHI N° 65/2015.

4. La falta de competencias está dificultando el progreso de los elementos de trabajo del GT sobre Cartografía Náutica, del GT sobre las Mareas, los Niveles del Mar y las Corrientes y del GT sobre el Diccionario Hidrográfico.

Situación de los Programas de Trabajo de las Comisiones Hidrográficas Regionales

5. Sólo cuatro de las 15 CHRs proporcionaron un informe.

6. Dos comisiones observan la ausencia de evaluación de riesgos a nivel de la cuenca y la ausencia de capacidad hidrográfica. Otra comisión informa sobre la ausencia de sensibilización por parte del gobierno y de apoyo como causa del subdesarrollo de los servicios hidrográficos.

Situación del Programa de Trabajo del IRCC

7. La Comisión Hidrográfica de la OHI sobre la Antártida (CHA) informa sobre las acciones adoptadas para tratar sobre el intercambio de información insuficiente con otras organizaciones interesadas en la Antártida.

8. El Subcomité de Creación de Capacidades (CB) informa sobre una falta de fondos para apoyar el Programa de Trabajo CB. La atribución del excedente en la implementación del presupuesto del 2014 al Fondo CB debería atenuar la situación. Se destaca la necesidad de reforzar las competencias de los Coordinadores CB regionales y de aumentar su disponibilidad.

9. El GT sobre Batimetría Participativa lamenta la ausencia de contribución por parte del IRCC sobre su proyecto de documento de directivas y expresa la necesidad de un dispositivo de intercambio interactivo de ficheros y de reuniones virtuales. Este requisito será considerado adicionalmente en la próxima reunión del WG, observando la necesidad de adaptarse a todos los miembros del GT, algunos de los cuales no tienen acceso o bien tienen un acceso limitado a las aplicaciones listas para usarse.

INFORMES DE SITUACION RECIBIDOS - MEDIADOS DEL 2016
(en Inglés únicamente)

Contents:

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- TWCWG
- HDWG
- ABLOS

- IRCC
- NSHC
- MBSHC
- MACHC
- SAIHC

- HCA
- CBSC
- IENWG
- CSBWG

- SRWG

HSSC REPORT

Overall status of the work programme of Hydrographic Standards and Services Committee (HSSC)

Compiled by Dr Mathias Jonas - e-mail address: mathias.jonas@bsh.de

Current goals and priorities	Current or expected gaps and needs	Comments
Maintenance of current ECDIS standards: implementation of the new editions of S-52, S-52 Presentation Library, S-58, S-63 and S-64	Creation of edition 2.0 of S-63 for S-10x data Products behind schedule	Although progress on the revised standard has been made, both review and finalizing has not been completed yet. It is proposed to combine S-63 as a new part of S-100.
Development of S-100 and S-100 based product specifications	Due to IT reasons reengineering of the registry structure and the register interface required	The redesign ended up being more complex than originally intended. It is expected to be released by the end of August. The registry applied current S-99 have not yet operated practically and developed for all registers. Updates to it will be put on hold until user feedback is collected.
	Delayed completion of the portrayal catalogue builder	The PCB has not been used to develop S-100 based portrayal catalogues as the focus has been on updating the other pieces of S-100 infrastructure. Because of the lack of extensive testing and some changes to the S-100 Register infrastructure the PCB may need to have some additional upgrades and functionality added.
	S-101, S-102, S-104, S-111, S-112, S-122 and S-100 based product specifications belonging to other domains still need to establish portrayal	Pending completion of the reengineering of the registry structure and interface (see above). This has been delayed another year due to lack of resource availability.

Progress of the IHO Work Programme at the mid of 2016

Current goals and priorities	Current or expected gaps and needs	Comments
	catalogue builder for the creation of machine readable portrayal catalogues.	
Future of paper charts	Retirement of NCWG Chair. Commitment of recently appointed Vice-Chair to perform the duties of Chair of the WG from September 2016 until NCWG3 (May 2017) only.	Assigned as top priority work item to NCWG. Correspondence Group identified but little correspondence to date due to conflicting priorities of WG Chair.
Improvement of the content of the IHO online Hydrographic Dictionary and Support of HDWG activities managed by the IHB: Production of a simple Hydrographic Dictionary multilingual demonstrator	Technical hurdles (too complicate for the allocated budget, which is in the process of being negotiated)	Short time frame (Demonstrator to be completed for the first week of November 2016, in time for HSSC8)
Develop high level specifications for a combined Marine Service Portfolio (MSP) covering the provision of hydrographic services to mariners in accordance with the IMO e-navigation strategy implementation plan	MSP specification not completed yet	MSPs in their current status of development have not been accepted by the IMO. MSC put an action in their post-biennial agenda (2018-2019) to “Develop guidance on definition and harmonization of the format and structure of Maritime Service Portfolios (MSPs)” for which the NCSR will be the coordinating body.

S-100WG REPORT

Overall status of the work programme of the **S-100 Working Group**

Compiled by Julia Powell - e-mail address: Julia.Powell@noaa.gov

Current goals and priorities	Current or expected gaps and needs	Comments
Develop an S-100 Interoperability Guidebook	Currently this project is on track.	Initial draft specification has been delivered and will undergo review at the S-100 Focus Group meeting in Sept. 2016
Publish edition 3.0.0 of S-100	Currently this is on track. Awaiting comment on redline and will be submitted to HSSC8	Edition 3.0.0 will include a new encoding format, HDF5 for gridded data, as well as proposed corrections and clarifications found as a result of the S-100 test bed activities.
Prepare a New Edition of S-102	S-102 still needs to establish both a feature and portrayal catalogue for machine readability.	This has been delayed another year due to lack of resource availability.
Update S-99 and release of the S-100 Registry Interface	The redesign ended up being more complex than originally intended. It is expected to be released by the end of August. The registry applied current S-99 have not yet operated practically and developed for all registers. Updates to it will be put on hold until user feedback is collected.	Please note that the rest of the S-100 infrastructure relies on a functioning registry. The initial registry did not function correctly and the Republic of Korea (KHOA) stepped in to redesign the interfaces. Because of the interdependencies that the registry has to the Feature Catalogue Builder and then to the Portrayal Catalogue Builder, product specification developers have had to wait – so this will cause a delay to other work.

Progress of the IHO Work Programme at the mid of 2016

<p>Potential updates the S-100 Portrayal Catalogue Builder (PCB)</p>	<p>The PCB has not been used to develop S-100 based portrayal catalogues as the focus has been on updating the other pieces of S-100 infrastructure. Because of the lack of extensive testing and some changes to the S-100 Register infrastructure the PCB may need to have some additional upgrades and functionality added.</p>	<p>Note – this is still an issue – but due to the S-100 registry being delayed, we have not been able to assess the scope of work needed. This will move into 2017 planning.</p>
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ENCWG REPORT

Overall status of the work programme of ENCWG

Compiled by: Tom Mellor, Chairman - e-mail address: Thomas.Mellor@ukho.gov.uk

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
S-66 edition 2		Review conducted by ENCWG 30 th June. Comments to be consolidated and new edition created for submission to HSSC.
S-65 edition 1.3		Comments to be collated 28th of July. Comments to be consolidated and new edition created for submission to HSSC
S-52 edition 4.0.2		ECDIS Chart 1 and UML diagrams to be corrected (CMAP)
S-64 edition 3.0.2		New screen shots (Furuno), Chair DPSWG updating encrypted exchange sets
S-58 edition 6.0		Reword tests for new operators (IC-ENC)

DPSWG REPORT

Overall status of the work programme ofDPSWG

Compiled by: Jonathan Pritchard - e-mail address: Jonathan.Pritchard@ukho.gov.uk

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
Creation of edition 2.0 of S-63 for S-10x data products	Input to document creation has been difficult to obtain due to resource constraints. Re-organisation of standard to integrate with S-100 has been proposed.	DPSWG meeting has now taken place. Although progress on the revised standard has been made, both review and finalizing has not been completed. It was proposed to combine S-63 as a new part of S-100 and this will be progressed over the coming months into an HSSC proposal. The exact form of the DPSWG will need to be considered as well. Revised plan is to submit a working draft of a new part for S-100 by the next S-100 WG meeting in 2017 for inclusion in an appropriate future release of S-100.
Support to data protection scheme administrators and end users (including ECDIS OEMs)	On track	
Input into other IHO work groups on S-63 2.0 structure.	On track	See notes above. Successful liaison meeting with S-100 WG has taken place in 2016.

NIPWG REPORT

Overall status of the work programme of **the NIPWG**

Compiled by Jens Schröder-Fürstenberg - e-mail address: jens.schroeder-fuerstenberg@bsh.de

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
Populate the NPUBS domain of the FCD Register (work item F.7)	[NEED] improvement of the registry handling	The registry is under construction and improvement comments based on the testing phase experience have been provided
Develop S-122 – Marine Protected Area Product Specification (work item F 8.1)	[GAP] portrayal and data quality parts missing [NEED] harmonization with S-101 data model, feature catalogue builder	Portrayal part is under consideration by the involved WGs, quality model was forwarded to the DQWG for further consideration. The harmonization discussion between the S-100WG/S-101 Project Team and NIPWG is ongoing, the feature catalogue builder is not available
Draft Data Capture and Encoding Guides for Marine Protected Area Product Specification (work item J.2.1.1)	[NEED] harmonization with S-101 data model	Both the S-101 and the S-122 data models should be harmonized to the widest possible extent. The next phase is to await the next S-100WG meeting where the DCEG improvements will be discussed
Develop high level specifications for a combined Marine Service Portfolio (MSP) covering the provision of hydrographic services to mariners in accordance with the IMO e-navigation strategy implementation plan	[GAP] MSP specification	MSPs in their current status of development have not been accepted by the IMO. MSC put an action in their post-biennial agenda (2018-2019) to “Develop guidance on definition and harmonization of the format and structure of Maritime Service Portfolios (MSPs)” for which the NCSR will be the coordinating body.
Develop a test and implementation plan for the development of the MSP “hydrographic services” (Work item H)	[GAP] MSP specification	MSPs in their current status of development have not been accepted by the IMO.

Progress of the IHO Work Programme at the mid of 2016

		<p>At the time when this report was made, a description of the MSP “hydrographic services” doesn’t exist. NIPWG did the first steps to develop such MSP. Further iterations and group discussion are needed.</p>
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NCWG REPORT

Overall status of the work programme of the **Nautical Cartography Working Group (NCWG)**

Compiled by **Jeff Wootton** - e-mail address: jeff.wootton@defence.gov.au

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
(A) Consideration of the future of the paper chart (NCWG Work Item A.16)	Retirement of the WG Chair may stall discussions.	Top priority work item assigned at HSSC7. Correspondence Group identified but little correspondence to date due to conflicting priorities of WG Chair. Discussion paper presented at NCWG2. It is hoped that the succeeding Chair* of the WG will be able to continue to progress this item.
(B) Development of new (and revised) symbology (IHO Task 2.3.2).	Actions HSSC7/18 and HSSC7/20 relate to ECDIS portrayal. The NCWG is in the early stages of transitioning from a focus almost exclusively on symbology for paper charts to providing subject matter expertise related to presentation and portrayal for all nautical charting products. This expertise in regard to ECDIS may take some time to build, and accessibility to S-100 test beds and test data will be required.	Significant discussion at NCWG2, and related actions taken by only a small team of WG members (including Chair who will be retiring in September), including the formation of a “Portrayal Sub-WG”. Liaison with other HSSC Working Groups such as the S-100WG, ENCWG and NIPWG; and consultation with expert contributors such as OEMs, is considered essential.
(C) Retirement of NCWG Chair	Commitment of recently appointed Vice-Chair to perform the duties of Chair of the WG from September 2016 until NCWG3 (May 2017) only.	Mikko Hovi (FI) appointed Vice-Chair in July 2016, and will take up the duties of Chair from 08 September. FI has agreed to commit Mikko as Chair only until NCWG3. At NCWG3 the WG will need to find a new Chair and/or Vice Chair. There is also a possibility of the Secretary of the WG retiring in the next 2 years.

TWCWG REPORT

Overall status of the work programme of TWCWG (Tidal Water level and Current Working Group)

Compiled by Gwenaële Jan, Louis Maltais and David Wyatt

e-mail address: gwenaële.jan@shom.fr (WG Chair), Louis.maltais@dfm-mpo.gc.ca (WG Vice-Chair), David Wyatt adso@iho.int (WG Secretary)

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
Maintain and extend the relevant IHO standards, specifications and publications (3/1919): Provide the latest version amended by HSSC and answer to the comment raised by BHI.	Deadline: May 2016. Action done on time: amended by the TWCWG and confirm during the annual meeting (2016-03). Submit for final approval.	
Provide S-104, S-111 and S-112 test datasets to IHB for uploading to the website (a S-100 based Product Specification)	Deadline: May 2016 Complete.	
S-111: Provide WG members with a tool to convert the revised v1.9 metadata file from ASCII/Excel to XML, and provide a sample XML file.	No gap is expected. Deadline: Dec. 2016 (1) Tasks and tasks' leaders have been identified. CAN and SPAWAR (industry) Leader of the action. (2) Upload presentations of the encoding tool for S-111 and describe how they work. (3) Discuss with chair S-100WG the creation of Basecamp access for S104, S111 and S112.	
S-111: Finalise the dynamics information to include in the future e-navigation products: (a S-100 based Product Specification)	No gap is expected. Dead line: End of 2016. Tasks and tasks' leaders have been identified.	Up to three, 9-step current vector colour specifications, one each for daylight, dusk, and night time viewing conditions.
S-111: Specify the appropriate format for the scalable vector graphics for the portrayal of the surface current vector (a S-100 based Product Specification)	Deadline: End of 2016. Possible gap of 3 months delay.	(1)Tasks and tasks' leaders have been identified.

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
	Possible reason: time to get feedback from all members of the group. Actions to mitigate the risk are listed beside.	(2)Send the S-111 v 1.9 Product Spec out for review and comments by the WG (3)Send S-111 v1.9 Product Spec to NOAA
S-111 dataset for test (a S-100 based Product Specification)	Deadline: First term of 2017. Possible gap: 3 months delay. Related to the above task. Possible delay in order to get feedback from all members. Actions to mitigate the risk are listed beside.	(1) Tasks and tasks' leaders have been identified. (2) Test S-111 v1.9 HDF5 datasets to SPAWAR and KHOA for testing. (3) Test the effect of various zip compression methods, the effect of precision (e.g. 16-, 32-, or 64-bit) for real variables, and encryption on uncompressed HDF5 file size.
S-111: Portrayal setup (a S-100 based Product Specification)	First term of 2017 Tasks and tasks' leaders have been identified.	Test of the suitability of portraying a zero current speed by a non-zero finite length (e.g., 0.1 mm) and report.
Provide feedback on draft S-104 Product Specification document (a S-100 based Product Specification)	Deadline: Dec. 2016. Possible delay of 3 months. Risk mitigation:	

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
	Take advantage of the scheduled point between the group members next September to progress on the draft document.	
S-104 and S-112: Learn from the S-111 and adapt and apply rules and specifications to S-104 and S-112 (a S-100 based Product Specification)	Deadline: End of 2017. Actions studied to reach the objective: Use S-111 knowledge as a template that will be provided for the end of 2016.	S-104 – <i>Water Level Information for Surface Navigation</i> S-111 – <i>Surface Currents</i> S-112 – <i>Dynamic Water Level Data Transfer</i>
Vertical Reference Frame: increase information on IHB TWCWG web page.	Deadline: 2 nd term of 2017. No delay is expected.	Provide details of VRF GNSS datums to IHB for uploading to the website
Capacity building: (a) Review contents of Tides, Water Level and Currents (b) Liaise with SAN to commence translation of Workshop material into Spanish (by USA)	Deadline: Sept 2016. Possible delay: (~6 months). Possible reasons: (a) Time to get feedback from groups' members (b) Necessary time to do the translation and submit it to the review committee TWCG and IHB. Actions studied to mitigate the risk are listed beside.	(1)Provide comments, amendments and feedback on the existing documents available on IHB web site (TWCWG). Send it to the leader of this task (SAN) and to all (2)Propose support from group members for the review (ex: 13 Hispanic Members States).
Study of long term data sets	No delay is expected: Expected deadline: the next TWCWG workshop. Actions for all members but driven by USA and NOR (identified task leaders)	Provide a document on the results obtained to date for publication on the IHO website

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
Standard for Digital Tide Tables: Provide feedback on the existing harmonic constituents list that has been selected by the tidal working group.	Expected deadline: the next TWCWG workshop (with no expected delay). Allow revised list to be created on the fundamental attributes	Actions for all members
Actual tides online links : Check and provide up-dates and amendments to the information provided to ensure content is current and all links work	Continuous action	
Inventory of tide gauges: Regularly check entries and provide up-dates and amendments to IHB as necessary.	Continuous actions	Contact national representative attending RHCs to raise awareness of inventory and encourage input and updating of information
Study of long term data sets	Continuous action.	All to take long term records to conduct analysis of constituents and to exchange the results.
Increase discussion or results on the standard constituent list	Continuous action.	New: Add data and upload to website for further comment.
Compare tidal predictions: Additional suitable data sets for general analysis to improve robustness of the analysis.	Continuous action: Report progress on results and analysis are expected.	To be provided by members to IHB

HDWG REPORT

Overall status of the work programme ofHDWG

Compiled by ...Jean Laporte - e-mail addresses: JLaporte@argans.co.uk - jlaporte@shom.fr

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
Improvement of the content of the IHO online Hydrographic Dictionary and Support of HDWG activities managed by the IHB	Ongoing contract between the IHB and Mr Markus Bärlocher of the Wikimedia Foundation. Risks: Technical hurdles (too complicate for the allocated budget, which is in the process of being negotiated) Short time frame (Demonstrator to be completed for the first week of November 2016, in time for HSSC8)	Production of a simple Hydrographic Dictionary multilingual demonstrator

ABLOS REPORT

Overall status of the work programme ofABLOS

Compiled byJohn Brown - e-mail address:John.brown@ukho.gov.uk.....

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
BM24 and Seminar to be held in October 2016	None	Theme is “Roles of Law of the Sea and Hydrography in the Asian Region”. Currently waiting draft programme from Korea
ABLOS conference to be held in October 2017	None	Theme “Pushing the Limits of UNCLOS”

IRCC REPORT

Overall status of the work programme of IRCC

Compiled by Parry OEI, the IRCC Chair - e-mail address: Parry_OEI@mpa.gov.sg

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
Conduct annual meeting of IRCC	None	IRCC8 held in May 2016 in the UAE. IRCC9 planned for June 2017 in Suriname.
Support the IHB to implement the planning mechanism annually	None	Ongoing. IRCC Work Programme for 2016-2017, IRCC8-09/2016
Contributing to the IHO Annual Report	None	Ongoing. IRCC Work Programme for 2016-2017, IRCC8-04/2016
Updating and implementing the IRCC Work Programme	None	IRCC Work Programme for 2016-2017 was updated at the IRCC8. Implementation is ongoing.

NSHC REPORT

Overall status of the work programme of NSHC Aug 2016

Compiled by Declan Black, email: declanblack@dtas.ie

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
Shared European contacts and projects	none	In cooperation with other RHC's and IENWG
Shared progress with up to date bathymetric coverage of north sea	Limited survey capacity Lack of basin wide risk assessment	Resurvey strategies for dynamic areas and emerging new methods are taken into account Dover and resurvey working group merged
Shared experiences with MSDI	none	Baltic and North sea MSDI working group merged with joint Terms of reference.
Shared progress on establishment of vertical reference frame	Difficulty in merging due to differing references used	Task of eliminating/analyzing errors at national boundaries being coordinated by tidal working group

MBSHC REPORT

Overall status of the work programme of MBSHC Aug 2016

Compiled by Eric LANGLOIS, email: dmi-rex-d@shom.fr

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
Selection of Member States from MBSHC to the IHO Council.	As the Amended Convention on the IHO and its Basic Documents will enter into force on 8 November 2016, MBSHC will initiate its procedure for selection MSs to IHO council according to the revised rules decided at the last MBSHC Conference (decision MBSHC19/05).	A MBSHC circular letter to be disseminated in early September in that scope.
Regional International Charting Coordination Following up the decision taken at the 19 th MBSHC Conference:	<ul style="list-style-type: none"> - A silence procedure was initiated in April regarding the submission of 16 charts in Marmara and Black Seas as Region F INT charts. As the silence was broken by a ICCWG Member on those proposals, a new silence procedure is to be initiated regarding those proposals plus other relevant proposals received by the region charting Coordinator, - Technical discussions between FR, ES and DZ regarding the Western Mediterranean INT scheme began. A letter is to be disseminated by the Coordinator to summarize the proposals made by the concerned MSs. 	The 13 th BASWG Meeting held in Istanbul in April has been a good opportunity to raise sub-regional charting issues, with the participation, for the first time, of the Regional Charting Coordinator.
Regional ENC Coverage Coordination	One of the reasons of the absence of agreed ENC scheme in region F remains the lack of progress on the resolution of UB1 overlapping cases and leading to a disparate UB1 scheme in contradiction with a well-established small	Discussions are still pending between IT and the other UB1 producer nations based on proposals submitted by IT last July. At the 31st of July, no improvement is to be reported regarding that issue.

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
	<p>scale INT charts scheme covering the region. Besides, the persistency of some UB1 scheme overlapping cases and the significant domino effect associated with the solving of UB2 overlapping cases prevents the ICCWG from properly addressing the UB2-3 schemes. Therefore, the MBSHC decided to task all ENC producer nations concerned by those UB1 overlaps to liaise with each other under the coordination of IT and to report back to RCC on the resolution of those overlapping cases by the end of the year (action MBSHC19/27).</p> <p>Besides, the proposal of focusing on larger scale usage bands, such as UB4-5-6, was then approved (action MBSHC19/29) as an alternative in order to move forward on the approval of ENC schemes in the region.</p>	
Capacity Building	<p>Following up the decisions taken at CBSC14 regarding the new procedures 11, a draft MBSHC 3-year CB plan and a regional assessment of CB phase stage of MBSHC coastal States have been disseminated to the MBSHC Member States and provided to the IHB.</p>	

MACHC REPORT

Overall status of the work programme of MACHC

Compiled by Leendert Dorst, Hydrographic Service of the Royal Netherlands Navy - e-mail address: LL.Dorst@mindef.nl

Principal goals and priorities	Current or expected gaps and needs	Comments
increase membership and regional cooperation	developments on the use of Spanish needed	1. Membership is growing. 2. Strong participation of industry during the MACHC Conferences.
shared progress to reach an up to date bathymetric coverage of the MACHC area	1. limited survey capacity; 2. lack of a basin-wide risk assessment	1. emerging survey methods (LIDAR, SDB, CSB) are taken into account 2. developments on risk assessment methodologies are followed closely
achieve full ENC coverage	None	1. coordinated by the MACHC Integrated Charting Committee. 2. of the 833 current and planned ENCs required to meet WEND principles for adequate ENC coverage, 723 are currently published and available (87%). The number is growing steadily.
ensure all coastal states reach CB Phase 1 status.	None	1. coordinated by the MACHC CB Committee. 2. The requirement to deliver capacity building activities in Spanish is being met. 3. Annual Hydrographic Awareness Seminars are organized in conjunction with MACHC meetings to raise awareness in the region.
contribute to a regional marine SDI through the Marine Environmental Infrastructure Programme (MEIP) of MACHC.	None	The MACHC ENC Online database is now available in two versions, one with password protection (for CU, CO, MX, NL, UK, US ENCs) and one without password protection (for CU, CO, MX, NL, US ENCs).

SAIHC REPORT

Overall status of the work programme of SAIHC

Compiled by ...Captain Abri Kampfner - e-mail address: hydrosan@iafrica.com.

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
Promote technical co-operation in the domain of hydrographic surveying, marine cartography, and nautical information within the Region	Majority of Associate Member States in region have still not achieved Phase 1 hydrographic development.	Shortcomings have been identified during technical visits within the region and are being addressed through the SAIHC Capacity Building Strategy. National reports presented at the SAIHC Conference allow the opportunity for Associate Member States to provide feedback on progress and request specific support. Next ICCWG and SAIHC Conference scheduled to be held in Cape Town from 29 to 31 August 2016.
Stimulate all countries within the Region to widen hydrographic activity in the area and to encourage them to seek technical advice and assistance from the IHB in establishing and strengthening their hydrographic capabilities in order to promote safe navigation and create an environment within which economic development may take place	Lack of funding and government support. High level interaction required to inform decision makers at the political levels of Government to create awareness and garner support for in-country officials.	Visits by IHB President identified as a SAIHC Capacity Building priority. CBSC 13 approved a SAIHC requirement for a High level visit to Tanzania by IHB President and SAIHC Chair for 2016. CB Coordinator in process to establish most suitable date.
Facilitate the exchange of information concerning surveys, research or scientific and technical developments, to aid in the planning and organisation of hydrographic activities	The lack of functioning hydrographic offices and National Hydrographic Committees create some difficulty to obtain information.	SAIHC Conference and SAIHC ICCWG are used to communicate the requirements and obtain information from delegates. Between scheduled conferences there is only communication with INT Chart producers and no feedback from Associate Member countries

Progress of the IHO Work Programme at the mid of 2016

Conduct Capacity Building projects as approved by CBSC	Two events planned for 2016 execution, the High Level Visit to Tanzania and MBES setting to work project for Mozambique, may be problematic to execute	The Phase 1 Skills Course was successfully conducted in Walvis Bay, Namibia and a report has been submitted. Two events planned for 2016 execution is the High Level Visit to Tanzania and MBES setting to work project for Mozambique.
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HCA REPORT

Overall status of the work programme of ... The IHO Hydrographic Commission on Antarctica (HCA)

Compiled by: Chair, HCA (Robert Ward)

e-mail address: *pres@iho.int*

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
<p>1. Co-operation with International Organizations and participation in relevant meetings (see IHO WP 1.1.1, 1.1.3 and 1.1.20)...in order to further the interests of the IHO by enlisting their support and cooperation and to participate in projects of common interest (ATCM, COMNAP, IAATO, SCAR, IMO).</p>	<p>Practical liaison and the regular, systematic exchange of information and experience between HCA (IHO) national representatives and other in-country national representatives involved in other international organizations concerned with Antarctica continues to be limited and sub-optimal. In many cases, neither party is aware of the activities of the other.</p> <p>Similarly, an effective exchange of information and an awareness of the activities and complementary aims of the IHO HCA with those of other international organizations concerned with Antarctica is currently is lacking.</p>	<p>HCA-13 (June 2016) took action that HCA MS will identify and brief relevant in-country organizations and HCA MS will seek to provide a targeted briefing session to the ATCM in 2018.</p>

CBSC REPORT

Overall status of the work programme of Capacity Building Subcommittee (CBSC)

Compiled by Thomas Dehling - e-mail address: Thomas.dehling@bsh.de

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
<p>The goals and priorities are provided in the respective Capacity Building Work Programme and the CBSC 14 list of actions as published on the IHO website.</p>	<p>CB Fund: At the current stage the available CB funds are not sufficient to fund all the accepted projects submitted for 2016 and 2017.</p> <p>The CB programme is in urgent need for additional funds, especially in the light of a widened scope for the support of comprehensive projects.</p> <p>The assessment of the CB Phases in coastal States is key for an informed decision making process by the CBSC and this assessment is heavily dependent on the work of the CB Coordinators that are not always available/knowledgeable to do this assessment in each RHC.</p> <p>CB Administration: The success of the CB is accompanied by a growing amount of workload for the staff at the IHB as well as the involved contributors from MS.</p> <p>To work successfully according to the CB Strategy a sustainable support for the CB administration is crucial.</p>	<p>Weakness: CB fund currently strongly depends on voluntary contribution from a limited number of countries. There is no clear indication at this stage what will be the total contribution available in 2017</p> <p>CB Administration: it can be acknowledged that a noticeable improvement in the administrative support started in 2016 but the knowledge base on CB requires a steady and permanent dedicated staff.</p> <p>Assessment of the CB Phases: the CBSC 14 adopted the use of a draft CB Procedure 11 to guide CB Coordinators on this assessment. However, the RHCs need to appoint permanent CB Coordinators for periods longer than the Chairman period.</p>

IENWG REPORT

11 July 2016 (last IENWG meeting held in St-Mandé 18-19 January 2016)

Overall status of the work programme of **IHO-EC network WG**

Compiled by Laurent Kerléguer - e-mail address: laurent.kerleguer@shom.fr

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
To monitor the outcome of the EC call for tender “Coastal mapping”		<p>The European Commission’s Directorate-General for Maritime Affairs and Fisheries (DG Mare) has awarded a contract on coastal mapping call MARE/2014/10 to the 18 partners’ consortium led by SHOM. Duration of the contract is 36 months.</p> <p>Progress:</p> <p>The principles of the algorithm that will help in choosing the best way to assess the knowledge in coastal areas were validated by the project team during the Roma (IT) meeting in early March 2016.</p> <p>The next objectives are:</p> <ul style="list-style-type: none"> • To improve the algorithm by gathering more information (on costs in particular) from non-partners • To set up the algorithm function on the portal in order to promote it and help the previous objective • To build and submit an acquisition programme by using the algorithm and taking into account economic models, data policies and EU funding. <p>On 20 April a meeting was organized by the <i>Administrator for Maritime affaires and fisheries</i> of the European Committee of the Regions (CoR) in Brussels, with the Director of the EMODNET secretariat and Coastal Mapping project, to discuss the first results of the project and the possibility to get support from CoR political representatives to develop future proposals.</p>
To prepare the position of European HOs about the future phase of EMODNet, the long term marine data initiative from the European Commission		<p>The Executive Agency for Small and Medium Enterprises (EASME) issued a call for tender for “High resolution seabed mapping” on 4 May 2016.</p> <p>The tendering provisions previously defined by IENWG have been implemented. A consortium comprising several HOs is currently working on the preparation of a tender.</p> <p>Deadline for submission is 2 August 2016</p>

Progress of the IHO Work Programme at the mid of 2016

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
<p>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.</p>		<p>IHB Director Gilles Bessero and Ingénieur Général Bruno Frachon, National Hydrographer of France, on behalf of the IENWG, met with Mr Joao Aguiar Machado, Director-General MARE at the European Commission (EC) in Brussels, Belgium. In that occasion IHB director and SHOM's director have stressed the need to ensure the sustainability of EMODnet in the long term, building on the operational role of Hydrographic Offices (HOs) and the relevance of the expertise of the HOs in relation to maritime spatial planning and climate change issues.</p> <p>Application of IENWG to the Maritime Spatial Planning Expert Group, with an observer status, has been accepted.</p> <p>Sweden (Magnus Wallhagen Head of Production Hydrographic Office, Swedish Maritime Administration) represented IENWG at the European Marine Day in Turku on 18-19 May 2016.</p> <p>Next IENWG meeting will take place in Brussels on 13-14 October will be an opportunity to facilitate contact with other DGs.</p>
<p>To monitor European directives, calls for tenders and proposals, projects, events, etc., potentially impacting HOs and to define actions to be conducted in accordance</p>		<p>IENWG considering how EU Directive on Marine Equipment could foster the requirement that software-based equipment such as ECDIS be updated to the latest version of the relevant standards.</p> <p>HOs of EU/EEA have liaised with their relevant administration to make sure that the question of ECDIS maintenance is on the agenda of the next Maritime Equipment Expert Group http://ec.europa.eu/transparency/regexpert/index.cfm?do=groupDetail.groupDetail&groupID=2653). This question has not yet been raised at the MED expert group.</p>

CSBWG REPORT

Overall status of the work programme of the IRCC CSBWG

Compiled by Lisa Taylor - e-mail address: lisa.a.taylor@noaa.gov

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
Prepare an IHO publication on policy for trusted crowd-sourced bathymetry to provide guidelines on the collection and assessment of CSB data, not only for potential use for charting purposes but also for its wider use in non-navigational applications.	<ul style="list-style-type: none">• WG member availability• Need for IHO to vet and provide an online file sharing application and virtual meeting technology (e.g., Box, Google Docs and Hangout).	WG received no feedback on draft guidance document from the IRCC.

SRWG REPORT

Overall status of the work programme of SRWG

Compiled by Andrew Millard - e-mail address: ...andrew.millard@ukho.gov.uk

Principal goals or priorities for your group	Current or expected gaps and needs that may prevent completion of tasks on time	Any amplifying comments
In accordance with ToR of the SRWG:		
Review proposed revised draft regulation Review implementation plan Review proposed job descriptions for directors under new structure	SRWG has approved the final version of the revised SRs and these have been circulated to member states for approval. Unless Member States do not approve them and require further work to be done by the SRWG I believe the work of this group, as directed by Member States in the ToR of October 14, to be complete.	

RESPUESTAS DE LOS ESTADOS MIEMBROS A LA CC DE LA OHI N° 14/2016

CHILE

Tomamos nota de que el nivel de respuestas sigue disminuyendo y opinamos que se debe a la escasa influencia o a la ausencia de influencia que tienen dichos informes como contribución, para mejorar la administración de la OHI.

Varios informes no identifican los huecos y los problemas o las necesidades o no proponen ninguna información que requiera una acción por parte de los EMs. Así pues el valor de los informes parece no compensar el esfuerzo efectuado en su preparación y análisis.

Probablemente el régimen de presentación de informes una vez al año es aceptable.

COLOMBIA

Se observa un avance significativo de actividades en relación con el informe anterior.

Con relación al proceso informativo, se recomienda que los informes se presenten con una periodicidad anual, toda vez que dentro ese lapso de tiempo se podría obtener más resultados.

FRANCIA

El SHOM comparte la opinión expresada por Suecia en el Anexo D de la CC de la OHI N° 14/2016, de que un ritmo de presentación de informes semestral es adecuado para el HSSC, el IRCC y sus órganos subordinados y que un ritmo anual sería adecuado para la presentación de informes de las Comisiones Hidrográficas Regionales.

MAURICIO

Mauricio apoya el procedimiento de informes bianuales para los órganos y subórganos de la OHI, y de informes anuales para las Comisiones Hidrográficas Regionales (CHRs).

SINGAPUR

Singapur apoya la utilidad de informes bianuales ya que estos proporcionan una estrecha supervisión sobre las actividades que ellos necesitan efectuar para lograr el resultado deseado. Esto actúa también como una ruta para que los grupos de trabajo compartan sus limitaciones, que podrían ser notificadas por otros grupos de trabajo con las competencias pertinentes. El bajo nivel de respuestas podría ser debido a la falta de sensibilización de alguna Comisión Hidrográfica Regional y de algunos Grupos de Trabajo.