

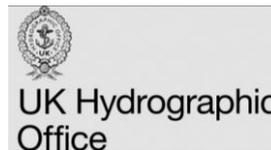


IHO Capacity Building Work Programme

*Regional Awareness Seminar:
“Working with NAVAREA II and your
Primary Charting Authority”
26 – 27 September 2022*



With the assistance of :



IHO Secretariat

And the participation of : .../...

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Maroc



Mauritanie



Sénégal



Cap Vert



Gambie



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Guinée



Côte d'Ivoire



Port of Tema

Ghana



Togo



Nigeria



Cameroun



Gabon



Congo



Angola

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REPORT : OBJECTIVES AND CHALLENGES

The main objectives of this report are to recall how to:

- go back to the presentations made (Internet links):
 - Annex D for “Working with NAVAREA II”
 - Annex E for “Working with your Primary Charting Authority”
 - Annex E1: Shom (France)
 - Annex E2: UKHO (United Kingdom)
 - Annex E3: IHPT (Portugal)
- better communicate between us (countries, names, telephones, emails)
 - Annex B-1 to recontact the organizers
 - Annex B-2 to continue to exchange between participating countries

It also recalls the conditions under which this seminar was prepared, carried out and financed within the framework of the IHO capacity building programme. The contributing countries were France (seminar leader and speaker), the United Kingdom and Portugal (speakers) and finally Cape Verde (host country).

It recalls that the backing of a funded seminar to a face-to-face EAtHC conference is an essential condition for a significant presence at the latter.

In other words, the next face-to-face 2024 EAtHC conference in Morocco must, as far as possible, be associated with a new seminar in order to maintain a significant and essential participation rate for the dynamics of regional cooperation. A proposal for a seminar will be submitted to this effect during the next CBSC in 2023. The theme of the seminar could relate to the aspects of governance which, if not applied, cause a country to participate only too far in the activities of the IHO: *“Become at least an associate member of EAtHC; better, become a member of the IHO; follow its governance recommendations; participate in its working groups; share existing regional capacities to educate and train hydrographers...”*.

Countries that have made real progress in their intentions, often announced in this matter during Technical Visits or Regional Conferences, would be invited to participate in this seminar (by being funded).

Seminar which could then precede formal and official decisions during the conference which would follow.

1 Introduction

This seminar was dedicated to the safety of maritime navigation and focused on 2 essential themes in terms of cooperation in hydrography and nautical cartography:

- maritime safety information;
- hydrography and official nautical cartography (charts).

It was organized within the framework of the capacity building activities of IHO with its support.

As indicated in the program given in annex C, this seminar involved countries having, in a shared manner with all EAtHC countries (from France to Angola), specific responsibilities such as:

- France :
 - NAVAREA II zone coordinator,
 - co-publisher of nautical charts with some African countries for which it produces nautical documents,
- the United Kingdom and Portugal also having responsibilities in terms of nautical cartography.

The first day focused on the NAVAREA II service with Ms Amandine Lefrançois (France – Shom) who coordinates it for the EAtHC region.

The second day, after a new exchange with Amandine Lefrançois on the responsibilities of national coordinators and the presentation of concrete situations, focused on the relations that countries can have between them to share or even delegate the production and distribution of nautical documents, with a more specific focus on identifying needs (navigation, environment, etc.), carrying out hydrographic surveys and producing nautical charts.

It was above all a moment of exchange and more particularly of sharing of experience. Although it was possible to follow the seminar remotely (VTC), it was the effective presence (face to face) of EAtHC actors on site in Cabo Verde that made it possible to achieve real exchanges. This presence at the seminar, favored by the financial support of the IHO, will certainly have made it possible to also involve many countries in the 17th EAtHC conference (they would not have come without financial support).

2 “Working with NAVAREA II” (Annex D)

Annex D details the content of the training sessions and the links to follow, to find and deepen the presentations that focused on (in French only):

- Introduction générale
- Sous-comité sur le service mondial d’avertissements de navigation (SMAN) et système mondial de détresse et de sécurité en mer (SMDSM)
- Introduction aux renseignements de sécurité maritime (RSM)
- Service International AGA
- NAVTEX (NAVigational TELeX)
- National Coordinator Requirements

3 “Working with your Primary Charting Authority” (Annexes E-1, 2, 3)

Annexes E-1, 2 and 3 detail the content of the training sessions and the links to follow to find and deepen the presentations.

The approaches are sometimes different but complement each other well:

- Annex E-1 relates to the presentation of France. Based on the SOLAS Convention, it addresses, in addition to navigation safety aspects, economic and even environmental issues. The conditions for preparing and carrying out hydrographic surveys are detailed

there, emphasizing the importance of metadata to be able to co-produce nautical charts in accordance with IHO standards (in French only);

- Annex E-2 relates to the presentation of the United Kingdom. It focuses particularly on port developments by explaining the importance of discussing, upstream, as soon as a project starts. The presentation is illustrated by the example of the new port of Lekki in Nigeria;
- Appendix E-3 relates to the presentation of Portugal. It includes two themes. One on hydrography: equipment, platforms, standards, data production. The other on charting: standards, the role of BCPs and offers examples.

4 Organization of the seminar

4.1 OHI – Capacity Building

The seminar has been planned as part of the IHO Capacity Building Working Program for the year 2022:

- *CBWP 2022: action P-44 - Relationship with NAVAREA II and PCAs - Risk assessment - Survey specification*

A budget (OHI) of €25,000 had been granted by the CBSC (Capacity Building Sub-Committee Meeting of 2021).

It was used as follows:

- Financing of additional costs imposed on Cape Verde (IMP) due to the seminar;
- International flights (1 person per country, outside Europe) to reach Cabo Verde. The necessary domestic flights in Cabo Verde, which are expensive, were paid for by the participants;
- Hotels (1 person per country, outside Europe) in Cabo Verde.

4.2 Organizers and speakers (Annex B-1)

The seminar was prepared in relation :

- for program content with: Julien Smeekaert (France), capacity development coordinator for EAtHC;
- For the “NAVAREA” presentations with: Amandine Lefrançois (France), coordinator of the NAVAREA II zone;
- For “PCA” presentations:
 - with for France: Henri Dolou and Julien Smeekaert;
 - with for the United Kingdom: Cathy Tunks;
 - with for Portugal: João Paulo Delgado Vicente, Carlos Marques and Paula Sanches;
- For the logistical organization with: Raúl Jorge Vitória Soulé of the Instituto Marítimo Portuario IMP (Cape Verde)
- For coordination with EAtHC chairmanship with: João Paulo Delgado Vicente (Portugal)

4.3 Participants (Annex B-2)

The aim was both to involve the EAtHC countries in the seminar and in the 17th EAtHC regional conference that followed.

Some countries were unable to travel to Cabo Verde, but they were nevertheless able to follow the seminar and the 17th EAtHC remotely (VTC).

The following were able to participate face-to-face, at least in EAtHC 17 for those who arrived late due to the air traffic controllers' strike in Africa:

- United Kingdom (speaker) [United Kingdom Hydrographic Office]
- France (organizer et speaker) [Service hydrographique et océanographique de la marine]
- Portugal (speaker) [Instituto Hidrografico]
- Morocco [Division Hydrographie, Océanographie et Cartographie de la Marine Royale]
- Mauritania [Marine Nationale]
- Senegal [Service de Sécurité Maritime du Sénégal]
- Cabo Verde (hôte) [Instituto Marítimo Portuario and other organizations listed in Annex B-2]
- Gambia [Gambia Port Authority]
- Guinée-Bissau [Administração dos Portos da Guiné-Bissau]
- Guinea [Port Autonome de Conakry]
- Côte d'Ivoire [Port Autonome d'Abidjan]
- Ghana [Maritime Authority, Port of Tema]
- Togo [Port Autonome de Lomé, Haut Conseil pour la Mer, Affaires Maritimes]
- Gabon [Port de Owendo/ Libreville, Gabon Port Management]
- Congo [Port Autonome de Pointe-Noire]
- Angola [Agência Marítima Nacional]

Other countries, in particular Nigeria [Nigeria Navy Hydrographic Office], were able to follow the seminar remotely (VTC).

4.4 Logistical organization

This organization was essentially based on the host country represented by the IMP (Raúl Jorge Vitória Soulé).

- Transport of personnel between the airport and the places of accommodation;
- Provision of an equipped conference room;
- Simultaneous translation in the two official languages of the IHO, namely French and English;
- Presence of a logistics manager in charge of audio-visual equipment
- Videoconference (VTC)

5 Feedback

- The organization of such a seminar responds to a real need of the coastal States of the region and should be renewed each year, at least every two years in person. It is desirable to systematize the organization of this type of seminar sponsored by the IHO on the occasion of the EAtHC conferences in order to support the participation of the coastal States of West and Central Africa (next conference, in face-to-face, of EAtHC in 2024 in Casablanca, Morocco);
- Regional cooperation constitutes a real opportunity to develop hydrographic capacities in the region, the actions of the CBWP must support the development of this regional cooperation. This is only possible if people meet to decide together;
- The examples of Morocco and Nigeria, which have succeeded in remarkably developing their hydrographic and cartographic capacities, testify to the possible progress and point the way to the coastal states of Central and West Africa. Progress may take time, but it is possible and it is important to persevere;

- The exchanges between those in charge of hydrography (they are often also in charge of aids to navigation) have been very fruitful and have enabled the players to get to know each other better in order to work better together, as is often suggested through the constitution of national hydrographic committees;
- The involvement of the participants beyond the seminar is encouraging for the development of their hydrographic capacities (even their sharing at least for training and training purposes) and militates for a continuation of the actions of reinforcement of the IHO in this domain;
- The seminar and the exchanges that continued during the EAtHC conference underlined the importance of broadening the debate to organizational and even political issues. There is a consensus to address decision-makers with arguments that go beyond technical issues: the economic and environmental aspects must be put forward through risk analyzes (navigation, environment). It is also essential to strongly encourage African coastal States that have not yet done so to develop national hydrographic committees at the inter-ministerial level to bring together all the actors and decision-makers and identify the needs and the means to meet them on a national level. This deserves to be highlighted during IHO technical or high-level visits;
- It remains important to emphasize the economic benefits (return on investment) of hydrographic services in order to consolidate the arguments intended for decision-makers, in addition to the legal aspects (SOLAS commitment). This is in order to have the interest of investing in the country recognized or to initiate requests from international donors;
- As has already been pointed out several times, the difficulty of contacting and mobilizing participants should not be underestimated. It is important to send invitations (often personalized) with sufficient notice and to follow up regularly to ensure a good level of participation;
- Finally, Cape Verde was a very high-quality host allowing the seminar to run smoothly. In particular, its responsiveness to the various contingencies largely linked to the air traffic controllers' strike allowed the participation of a maximum number of people, limiting absences to the most delicate cases. This last recognition also goes to the IHO Secretariat and Monte Carlo Travel.

Editors:



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This report was written thanks to the presentations of the speakers, in addition to its editors: Amandine Lefrançois, Cathy Tunks, João Paulo Delgado Vicente, Carlos Marques and Paula Sanches. They are warmly thanked.

ANNEXES

Annex A : Abbreviations

CBSC	<i>Capacity Building Sub-Committee (IHO)</i> Sous-comité de renforcement des capacités (OHI)
CBWP	<i>Capacity Building Work Programme (IHO)</i> Programme de travail de renforcement des capacités (OHI)
EAtHC CHAtO	<i>Eastern Atlantic Hydrographic Commission (IHO)</i> Commission Hydrographique de l'Atlantique orientale (OHI)
GMDSS SMDSM	<i>Global Maritime Distress and Safety System</i> Système Mondial de Détresse et de Sécurité en Mer
IALA AISM	<i>International Association of Marine Aids to Navigation and Lighthouse Authorities</i> Association Internationale de Signalisation Maritime
IHO OHI	<i>International Hydrographic Organization</i> Organisation Hydrographique Internationale
IHPT	<i>Instituto Hidrográfico de la Marina Portugal</i>
IMO OMI	<i>International Maritime Organization</i> Organisation Maritime Internationale
IMP	<i>Instituto Marítimo e Portuário - Cabo Verde</i>
MSI RSM	<i>Maritime Safety Information</i> Renseignement de Sécurité Maritime
MRCC	<i>Maritime Rescue Coordination Centre</i>
MSDI	<i>Maritime Spatial Data Infrastructure</i> Infrastructures de données spatiales maritimes
NC CM	<u><i>Nautical Charts</i></u> Carte marine
NtMs	<i>Notice to Mariners</i> Avis aux navigateurs
PCA	<i>Primary Charting Authority</i> Autorité cartographique principale
RHC CHR	<i>Regional Hydrographic Commission (EAtHC)</i> Commission Hydrographique Régionale (CHAtO)
Shom	Service hydrographique et océanographique de la marine (France) <i>French Hydrographic and Oceanographic Service (French national hydrographic office)</i>
SMAN	Système mondial d'avertissement de navigation <i>Worldwide Navigational Warning Service (WWNWS)</i>
SMDSM	Système mondial de détresse et de sécurité en mer <i>Global Maritime Distress and Safety System (GMDSS)</i>
SOLAS	<i>[United Nations] Convention for the Safety of Life at Sea</i> Convention pour la sauvegarde de la vie humaine en mer
UKHO	<i>United Kingdom Hydrographic Office</i>

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ENAPOR (Port Administration)

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Annex C : Programme

Regional Awareness Seminar Working with NAVAREA II and your Primary Charting Authority 26 and 27 September 2022 Action P-44 of the CBWP 2022

Day 1: Monday 26 September 2022			
Time	Event	Content	Presenter - Responsible
09: 00	Opening	Opening of the seminar	
	Opening	Objectives Organization	Julien Smeekaert - Shom (IHO capacity building coordinator)
09: 15		Introduction of participants	Participants
		Working with NAVAREA II (MSI)	
09: 30	Session 1	Introduction to GMDSS Introduction to EGC System	Amandine Lefrançois – Shom – NAVAREA II Coordinator
10: 30	Coffee break		IMP
11: 00	Session 2	Introduction to NAVTEX system Introduction to WWNWS	Amandine Lefrançois
12: 30	Lunch		IMP
14: 00	Session 3	Introduction to MSI National coordinator: responsibilities and requirements	Amandine Lefrançois
15: 30	Coffee break		IMP
16: 00	Session 4	National coordinator: responsibilities and requirements (cont.)	Amandine Lefrançois
17: 00	End first day		
Day 2: Tuesday 27 September 2022			
09: 00	Session 5	Joint IMO/IHO/WMO Manual Practical exercise	Amandine Lefrançois
10: 30		Lessons learned (sessions 1-5) Closing remarks (NAVAREA)	Participants
11: 00	Coffee break		IMP
		Working with your PCA (Data exchange) [Risk Assessment -Survey Specification HO's portal]	
11: 30	Session 6	France	Shom: Julien Smeekaert – Henri Dolou
12: 30	Lunch		IMP
14: 00	Session 7	United Kingdom	UKHO: Cathy Tunks
15: 00	Coffee break		IMP
15: 30 -	Session 8	Portugal	IHPT: CDr João Vicente, CDr Marques, and Mrs. Paula Sanches.
16: 30		Lessons learned (sessions 6-8) Closing remarks (Working with PCA)	Participants
17: 00	End second day - seminar		

Annex D : Working with NAVAREA II (MSI) [Amandine Lefrançois NAVAREA II – France]

[in French only]

1. Introduction

2. SMAN et SMDSM

3. Introduction aux renseignements de sécurité maritime

4. Service International AGA

5. NAVTEX (NAVigational TELeX)

6. National Coordinator Requirements

Objectifs	Lien Internet
<ul style="list-style-type: none">• Comprendre l'importance de ce cours• Programme• Organisation Hydrographique Internationale• Résultats attendus	https://iho.int/uploads/user/Inter-Regional%20Coordination/RHC/EAtHC/EAtHC17/1.%20Introduction%20FR.pdf
<ul style="list-style-type: none">• Développement du Service Mondial d'Avertissements de Navigation (SMAN)• Développement et mise en place du Service Mondial de Détresse et de Sauvetage en Mer (SMDSM)• Comment le SMDSM a permis l'évolution du SMAN• Mots clés du SMAN – le cadre• Responsabilités des coordonnateurs• Types d'avertissements de navigation• Les rôles du sous-comité SMAN	https://iho.int/uploads/user/Inter-Regional%20Coordination/RHC/EAtHC/EAtHC17/2.%20WWNWS-GMDSS-FR.pdf
<ul style="list-style-type: none">• Que sont les RSM?• Pourquoi les RSM sont-ils importants ?• Comment diffuser les RSM?• Fourniture de RSM<ul style="list-style-type: none">– Avertissements de navigation• Catégories d'avertissements<ul style="list-style-type: none">– Prévisions météorologiques– Information SAR	https://iho.int/uploads/user/Inter-Regional%20Coordination/RHC/EAtHC/EAtHC17/3.%20Intro%20to%20MSI_07092_1_2-FR1.pdf

<ul style="list-style-type: none"> • Ce que ne sont pas les RSM • Cycle de vie des RSM • Documentation 	
<ul style="list-style-type: none"> • Qu'est-ce que le Service International AGA ? • Fournisseurs de service mobile satellitaire reconnus <ul style="list-style-type: none"> – Inmarsat – Iridium • Schémas de couverture • Équipement • Comment les RSM deviennent des avertissements AGA ? 	https://iho.int/uploads/user/Inter-Regional%20Coordination/RHC/EAtHC/EAtHC17/4.%20EGC%20Services_080520-FR.pdf
<ul style="list-style-type: none"> • Développement de NAVTEX • Message : structure et format • NAVTEX System • Couverture NAVTEX et zones de service • Encodage — que signifient les lettres ? • Priorités de transmission 	https://iho.int/uploads/user/Inter-Regional%20Coordination/RHC/EAtHC/EAtHC17/5.%20NAVTEX_New-FR.pdf
<ul style="list-style-type: none"> • Les différents types d'avertissements de navigation • Que faut-il pour être coordonnateur national <ul style="list-style-type: none"> – Connaissances – Responsabilités – Devoirs • Autorité 	https://iho.int/uploads/user/Inter-Regional%20Coordination/RHC/EAtHC/EAtHC17/6.%20National%20Coordinator%20Responsibilities_100120-FR.pdf

Annex E-1 : Working with your PCA (Data exchange) (Risk Assessment -Survey Specification - HO's portal) [Julien Smeekaert, Henri Dolou– France]

[in French only]

Objectifs	Lien Internet
<ul style="list-style-type: none"> • Échanger avec d'autres services hydrographiques : pourquoi ? • Convention SOLAS : <ul style="list-style-type: none"> • que veut-on faire ensemble ? La sécurité de la navigation • Comment ? • Que veut-on aussi faire d'autre ensemble ? Développement économique • Comment : exécuter des levés hydrographiques : <ul style="list-style-type: none"> • des données mais aussi des métadonnées • management, objectifs • analyse de risques en lien avec le trafic maritime (commun avec les aides à la navigation) • se doter de capacités • spécifier techniquement, norme OHI pour les levés hydrographiques > Publication S-44 • Cartes : co-éditer ou co-produire en coopération, produire de manière autonome 	<p>https://iho.int/uploads/user/Inter-Regional%20Coordination/RHC/EAtHC/EAtHC17/OHI_CV22_Seminar_Session-6_Working-PCA_France_V2.1.pdf</p> <p>Portails :</p> <p>https://data.shom.fr/</p> <p>https://diffusion.shom.fr/pro/informations_nautiques</p>

Annex E-2 : Working with your PCA (Port development) [Cathy Tunks – United Kingdom]

Objectifs	Lien Internet
<ul style="list-style-type: none"> • Port Development • Why do ports change? • How your PCA can help before work starts • Why do ports change? • Timeline for a Significant Development • New Location, New Port - Lekki Deep Sea Port • Other types of 'ports' • After the commercial traffic leaves • Data needed to update our products • Bathymetric Data • Hydrographic Notes • ALRS Information • Lights List • Communication 	<p>https://iho.int/uploads/user/Inter-Regional%20Coordination/RHC/EAtHC/EAtHC17/EAtHC%202022%20Working%20with%20you%20PCA%20UKHO.pdf</p> <p>Useful Links</p> <ul style="list-style-type: none"> ➤ Bathymetric data https://datahub.admiralty.co.uk/portal/apps/sites/#/marine-data-portal/pages/seabed-mapping-services H275: Guidance and metadata report for delivering bathymetric data to the UK Hydrographic Office ➤ Hydrographic Notes Used to inform us of any navigationally significant information. This information could include new or suspected dangers, changes to navigational aids, amendments to details included in publications. https://www.admiralty.co.uk/maritime-safety-information/hydrographic-notes

Annex E-3 : Working with your PCA 1-2 (Hydrography – INTernational Cartography) [Cdr Carlos Marques, Paula Sanches – Portugal]

Objectifs	Lien Internet
<ul style="list-style-type: none"> • Introduction • Purpose of Hydrography • Measuring Equipment • Survey Platforms • Survey Standards • Hydrographic Surveys • Final Thoughts 	<p>https://iho.int/uploads/user/Inter-Regional%20Coordination/RHC/EAtHC/EAtHC17/Working-with-pca_1_Portugal.pdf</p>
<ul style="list-style-type: none"> • Regulations and Standards • Nautical Charts versus PCA Role • Examples 	<p>https://iho.int/uploads/user/Inter-Regional%20Coordination/RHC/EAtHC/EAtHC17/Working-with-pca_2_INT-charts_Portugal_2.pdf</p>

Annex F : Photos



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Côte d'Ivoire



Congo



Sénégal et Maroc



Gambie et Gabon



Guinée Bissau et Guinée



Mauritanie et AISM



Cap Vert



Cap Vert



Portugal



Angola



**Maroc au centre
Surrounded by good people**



Ghana avec secrétariat de l'OHI



Togo



Mauritanie



Royaume-Uni