



IHO Capacity Building Programme

Regional Awareness Seminar on Maritime Geospatial Knowledge “The provision of hydrographic services” & “New IT technologies: MSI & MSDI”

REPORT



Nigeria – Lagos – Radisson Blue hotel
15 and 16 October 2018

Hosted by:



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Abbreviations

CBSC	Capacity Building Sub-Committee
CBWP	Capacity Building Work Programme
CSE	Centre de suivi écologique - Sénégal
DHOC	Division Hydrographie Océanographie Cartographie - Marine royale du Maroc
DNA	Danish Maritime Authority
EAtHC	Eastern Atlantic Hydrographic Commission
GIS	Geographic Information System
GMA	Ghana Maritime Authority
GMDSS	Global Maritime Distress and Safety System
IALA	International Association of Marine Aids to Navigation and Lighthouse Authorities
IHO	International Hydrographic Organization
IMO	International Maritime Organization
IOC	Intergovernmental Oceanographic Commission
MSDI	Maritime Spatial Data Infrastructure
MSI	Maritime Safety Information
NHS	Nigerian Hydrographic Society
NIMASA	Nigerian Maritime Administration and Safety Agency
NIWA	Nigerian Inland Waterways Authority
NN	Nigerian Navy
NNHO	Nigerian Navy Hydrographic Office
NPA	Nigerian Ports Authority
PCA	Primary Charting Authority
Shom	Service hydrographique et océanographique de la marine France
SOLAS	[United Nations] Convention for the Safety of Life at Sea
UKHO	United Kingdom Hydrographic Office
WWNWS	Worldwide Navigational Warning Service

1 - INTRODUCTION

1.1 Background –Objectives (CBWP)

The capacity building work programme of the International Hydrographic Organization (IHO) aims to co-ordinate the development of hydrographic services within the different Regional Hydrographic Commissions. The Capacity Building Sub-Committee approved during its 15th session the submission from the CB Coordinator (Shom – France) to organize for the Eastern Atlantic Hydrographic Commission (EAtHC) a “Regional awareness seminar on maritime geospatial knowledge” on October 2018 (15-16). [CBWP 2018: Action P-04].

The seminar has been organized in conjunction with the 15th EAtHC conference in Lagos (17 – 19 October 2018).

This report deals with:

- the results of the seminar without giving details of the presentations (they are available on the Internet :<https://www.nnho.ng/eathcdocumentation.html>) (planned on <https://www.iho.int>)
- the organization (logistics) of the seminar, mostly in order to facilitate the organization of similar events such as the next workshop scheduled in the EAtHC region in 2019.

1.2 Organization

The organization Team was composed of:

Shom (France)

- Captain (Rtd) Henri Dolou
- Commander Vincent Lamarre

NNHO (Nigeria)

- Commander AB Mahmud
- NNHO's staff
- All under the supervision of Commodore Chukwuemeka Ebenezer Okafor (Hydrographer of the Navy, NNHO).

IHO

- Alberto Costa Neves / Yves Guillam
- Sandrine Brunel

The visit of the NNHO Hydrographic School (CBWP 2018 / Action A-01 “Training Center Visit”), carried out in March 2018 (Henri Dolou – Shom and Jeff Bryant –UKHO), made it possible to initiate the preparation of the seminar.

Ref: https://www.iho.int/mtg_docs/CB/CBA/Technical%20visits/TV18/2018-A01-TV-Nigeria-Report.pdf

1.3 Seminar effectiveness

The seminar was attended by many people:

- very large participation of Nigeria;

- most of African countries of the EAtHC (Morocco, Senegal, The Gambia, Guinea, Liberia, Ivory Coast, Ghana, Togo, Benin, Cameroun, Guinea Equatorial, Gabon, Congo, RDC), thanks to the support from the capacity building funds.

Number of participants to the seminar	
European countries (Not sponsored)	5
African countries other than Nigeria (Not sponsored)	13
International organizations or institutions (Not sponsored)	7
Industry (Not sponsored)	1
African countries other than Nigeria (Sponsored)	14
Nigeria (other than Navy)	11
Nigeria (senior naval officers)	23
Nigeria (Hydro personnel)	43
TOTAL	117

The programme of the seminar (see Annex) was supported by experts from:

- Hydrographic offices: United Kingdom (UKHO), France (Shom), Morocco (DHOC), Nigeria (NNHO);
- Maritime offices or organizations: Denmark (DMA), Nigeria (NHS, NIWA, NPA, NIMASA ...);
- The associative and academic world: CSE (Dakar);
- International or intergovernmental organization: IMO, IHO, IALA, IOC.

Participants sponsored by the CB Fund were expected to also participate in the EAtHC conference to represent their country, including through the presentation of their national report to the Commission. That has been done for most countries: https://www.iho.int/mtg_docs/rhc/EAtHC/EAtHC15/EAtHC15_Docs.html

Even if not totally achieved, contact lists have been updated for:

- EAtHC members, associated members and observers:
https://www.iho.int/mtg_docs/rhc/EAtHC/EAtHC_Misc/EAtHC-CHAtO_Contacts.pdf
- IHO's yearbook: https://www.iho.int/iho_pubs/periodical/P5YEARBOOK_ANNUAIRE.pdf

2 - PROGRAMME

The development of the seminar programme (including the research of the various speakers) was carried out by the Shom (CB Coordinator for the EAtHC) in close collaboration with the NNHO (Host nation), with the support of the IHO Secretariat.

See :

- Annex C: Programme
- Annex D : List of presentations - Contents

3 - ORGANIZATION & LOGISTICS

3.1 Key actions - Responsibilities

The main actions were led and carried out by:

- Programme, speakers: France/Shom (Capacity Building coordinator for EAtHC)
- Registration: France/Shom
- Host for both the seminar and conference: Nigeria/NNHO
- Resources, flights and hotel reservations and payments for sponsored people: IHO secretariat, with the support of Nigeria/NNHO [IHO CBWP 2018 P-04 EAtHC]
- Venue at Radisson Blu Victoria Island, Lagos, Nigeria: Nigeria/NNHO (supported by the IHO CB fund)
- Interpreters: Nigeria/NNHO

Object	Responsible	Observation
Invitation	Spain / IHM (prepared by NNHO and Shom)	EAtHC CIRCULAR LETTER N° 01/2018 (Spain Cádiz, April 16th 2018)
Specific registration for the seminar (Excel files)	France / Shom	
Programme -agenda	France / Shom	Annex
Venue at Radisson Blu (meeting room, drink, meals-lunch, translation French/English) Transfers/transportation (airport/hotels/conference)	Nigeria / NNHO	See next paragraph for expenditures
Speakers (invitations)	France / Shom	Annex

Object	Responsible
Flights (sponsored)	Booking and payment by IHO secretariat
Flights (not sponsored)	Managed directly by the participants
Hotel (sponsored)	Booking by NNHO - Payment by IHO secretariat
Hotel (not sponsored)	Managed directly by the participants

Nota: two hotels were proposed for the conference (EAtHC 15)

1. Radisson Blu [\$ 152]
2. Best Western [\$ 72]

Only the second one was proposed to sponsored people to maximize the number of people supported (due to limited CB funds). A bus was provided by NNHO for transport to and from the Radisson Blu.

3.2 Financial details, breakdown expenditures

The contribution comes from the Capacity building Work Programme 2018 (P0-4 ROK), which was initially divided as follow (the budget finally consumed is detailed in the table below) :

- 8 000 € to support the NNHO for the logistics of the seminar (meeting room, translation, lunches ...);
- 12 000 € to support the participation of representatives of coastal states in the region. This sum:

- was not intended to support the experts coming from Europe invited to speak at the seminar (Shom, IALA ...). Most of them had to attend the conference anyway and only had to extend their mission to speak at the seminar preceding the conference ;
- was not intended to IHO members who are usually able to assist the EAHC;
- was intended for IHO non members who need the benefit of the seminar and may be more willing to come to both the seminar and the conference with the contribution of IHO for flights and hotel. The people attending the seminar were supposed to stay at the conference; the contribution covering both the seminar and the conference: that has been the case but more people than expected answered to the invitation (extra budget was needed;
- It was expected to have more than one person per country to attend both the seminar and the conference but the CB fund only allowed one participant per country to be supported. This was the case with the exception of a few countries for which 2 participants were supported

FINANCIAL DETAILS

Resources	Requested/ Allocated	Comments and final spending's
Contribution by countries involved		Comment: France, Nigeria partly in kind
Contribution from other parties		
Contribution from CBSC Fund	20 000	Spent final: 26 141,01 €

BREAKDOWN OF EXPENDITURES

Item description	Charged to CB Fund (IHO Secretariat)
Meeting room, translation, lunches (limited contribution of IHO to NNHO)	Initial 8 000 € / Final 8 288,42€
Flights bought by IHO Secretariat (only for sponsored participants)	Initial 7 200 € / Final 11 669,00€ (more people than expected)
Accommodation paid by IHO Secretariat (only for sponsored participants)	Initial 4 800 € / Final= 6 063,59 € (more people and longer than expected,)
Transfers	NO
Per diem	NO
Training	NO
Miscellaneous	Initial : 0 € / Final = 120,00€

4 - LESSONS LEARNED

- ❖ The organization of such a seminar meets a real need of the coastal states of the region and **should be renewed if possible**.
- ❖ The organization of this type of seminar, with the support provided by the CB funds to help a large number of EAHC African countries to participate, allowed a broad attendance at the 15th EAHC conference. It is certain that African countries would have been much underrepresented at the EAHC conference without the organization of the sponsored seminar. **The organisation of a seminar/workshop before the plenary conference should be renewed**, in particular for this region where many coastal states are facing budgetary difficulties to participate in the conference.
- ❖ A very large audience participated in the seminar, which required the use of a large room. While it is legitimate for the host nation to participate widely in the seminar and to take advantage of the opportunity to mobilize the various national hydrographic stakeholders, **the number of participants in**

the seminar (excluding the inaugural session) **should be limited to a maximum of 30 / 40 people** in order to promote exchanges and participation. It is preferable to schedule the inaugural session during the plenary conference and not during the seminar.

- ❖ The difficulty of contacting and mobilizing potential participants should not be underestimated, especially in this region. A long and significant effort had to be made to have such a high level of participation. It is important to **send out invitations with sufficient notice and to follow up regularly by various means** (email, telephone...).
- ❖ The separation of participants in two different and remote hotels (impossible to walk easily from one to the other) severely limited the possibilities for interaction outside the seminar and conference slots. This solution should not be repeated and **it is imperative to accommodate all participants in a single hotel** in the future to facilitate exchanges outside the formal sessions (especially in the evening).
- ❖ It is tempting to want to cover as many topics as possible during the seminar with many interventions. However, **sufficient time must be allowed for exchanges**, and there should be no hesitation in reducing the size of the program and limiting the number of participants.

Editors

Henri DOLOU and Vincent LAMARRE

France/Shom

ANNEX

Annex A: List of contacts (Organization – Technical speakers)

Organisation

Name	Responsibility	Phone	E_mail
NNHO: Nigerian Navy Hydrographic Office			
Commodore Chukwuemeka Ebenezer OKAFOR	Hydrographer of the Nigerian Navy DSS psc+ fdc fcis MSc	Tel: +234 08032677567	info@nnho.ng emyokafor@yahoo.com
Commodore Ayodehi OLUGBODE	Nigerian Navy	+234 80330 46208	a_olugbode@yahoo.co.uk
Commander A Bappa MAHMUD	Team coordinator 1 for Seminar/Conference	+2348033403514	abm2000ng@yahoo.com
Cdr Mahmud Abubakar FANA	Nigerian MSI Coordinator msi@nnho.ng Team coordinator 2 for Seminar/Conference	+234 803 3395 207	mahmudfana@nnho.ng fanama2000@yahoo.com
Shom	Service hydrographique et	océanographique	de la marine France
Henri Dolou	Senior adviser	+33 (0) 6 86 15 14 82	henri.dolou@shom.fr henri.dolou@wanadoo.fr
Vincent Lamarre	Head of External Relations Division	Tél. +33 (0) 2 56 31 97 81 Mob. +33 (0)64631 12 37	dmi-rex-d@shom.fr vincent.lamarre@shom.fr
IHO	International	Hydrographic	Organization
Alberto P. COSTA NEVES	Assistant director	+377 93 10 81 07	alberto.neves@iho.int
Sandrine BRUNEL	Capacity Building Assistant	+377 93 108 105	cba@iho.int
Yves Guillam	Assistant director		adcs@iho.int

Addresses:

- NNHO: 5, Point Road Apapa, Lagos, Nigeria. [<https://www.nnho.ng/>]
- IHO-OHI : 4b Quai Antoine 1er - BP 445 - MC98011 Monaco Cedex - Principauté de Monaco (www.iho.int)
- Shom: 13 rue du Chatellier 29 200 Brest France (www.shom.fr)

Technical speakers (international and intergovernmental organizations other than IHO)

Name	Organization	
MANCHARD Jacques	IALA	jacques.manchard@iala-aism.org
Capt. Dallas LARYEA	IMO	dlaryea@imo.org
Dr Adesina ADEGBIE	IOC	adeadegbie@yahoo.com ; sadegbie@gmail.com

Annex B: List of sponsored people to the seminar

N°	Pays (IHO)	Given name	Family Name	Mail	Tel	Job title	Short description of duties
1.	SENEGAL (A) CSE	Ousmane	BATHIERY	ousmane.bathiery@cse.sn	(+221) 77 847 35 37	GEOMATICIEN / RESPONSABLE FORMATION ET STAGES	Chargé projet 1) Systèmes d'Information Géographiques (SIG) 2) Cartographie de la vulnérabilité au Changements Climatique 3) Formateur aux outils et logiciels SIG 4)
2.	THE GAMBIA (O)	Dominic	Correa	correadominic@yahoo.co.uk dominic.correa@eagles.usm.edu	00220 4227266 – Mob : 00220 9962853	Hydrographic Engineer	Planning and executing hydrographic survey in support on navigation and port development. Monitoring dredging operations by conducting pre and post dredged surveys.
3.	GUINEE (A)	Oumar	CAMARA	oumardamikollet@gmail.com	(+224) 620 211 010	Hydrographe	Hydrographie du port de Conakry
4.	LIBERIA (O)	Ms Grace Maweaha	Vaye NUHN	grace.vaye@lima-liberia.com mommylove84@yahoo.com	Mob : 23188865364 3	Director of Policy, Compliance and International Relations	Ensure the effective implementation and enforcement of the IMO's Instrument Implementation (III) Code, ILO Maritime Labor Convention and other national and international instruments.
5.	IVORY COAST (A)	NCHO RICHARD	DEGBUN	degbin_richard@yahoo.fr	Mob : 22507191958	CHIEF OF HYDROGRAPHY SERVICE	Guarantee the quality and availability of information describing the marine, coastal and oceanic physical environment
6.	GHANA (O)	ISAAC KORANTENG	YIRENKYI	ykoranteng@ghanaports.net ikeyirenyki@yahoo.com	23330322458 7 –	PORT HYDROGRAPHIC SURVEYOR	Hydrographic survey of the Ports of Tema and Takoradi in Ghana. Maintaining and managing hydrographic data for the ports.
7.	TOGO (A) – 1	Piyalo Abire	Bilabina D Almeida	rbilabina@yahoo.fr jojo_blez@yahoo.fr	Tél 00228900749 64	ingénieur Génie civil chef du service étude et développement à la direction technique (PAL)	chargée de suivi des diverses études (bathymétrie, dragage, levés topographique, érosion-ensablement, environnement, système d'information géographique, gestion du domaine portuaire,
8.	TOGO (A) – 2	Salamatou	Sidi Mamadou Tebi	sidi.annemarie@yahoo.fr	Gsm : (228) 90 14 08 35 / 97 15 76 76	Chef Division Transport Maritime	participe aux réunions du comité national d'hydrographie, d'océanographie et de la cartographie marine (CNHOC), participe à

N°	Pays (IHO)	Given name	Family Name	Mail	Tel	Job title	Short description of duties
						Gestionnaire des aides à la navigation, chargée des transports maritimes,	la gestion du domaine publique maritime et à l'élaboration des règlements et projets de loi, suivre les statistiques et l'évolution des transports maritimes, suivre les activités portuaires ...
9.	BENIN (A)	Fatimatou	MAMA SAMBO	fatousambo@yahoo.fr FMAMASAMBO@pac.bj	22921315280 Mob : 22995810702	chef service des études topographiques, hydrographiques et océanographiques	Port Autonome de Cotonou Sondage bathymétrique du bassin et du chenal d'accès, suivi des travaux de dragage, suivi de l'érosion côtière
10.	GUINEA EQUATORIAL (O)	Antonio Ngomo	Ekiri Eseng	Ngomoekir@yahoo.com	222 27 86 46	Mistry Of Transport, Post and Telecommunication	Jenour Director Shipe Registration & Navigation Company, Ministry of Transport Post
11.	CAMEROUN (M)	Gregoire	Toga Fotso	fotsotoga@yahoo	23769965066 65	Cdt de l'école d'application des officiers de la Marine	Formation au brevet d'officier chef du quart - à la sécurité maritime - connaissance du milieu marin - etc,
12.	GABON (O)	Honorat	OPAPE AMBOUROUE	opambourat7@gmail.com opampourat@yahoo.fr		Chef de Service des Opérations Maritimes	Gestion des Opérations Maritimes
13.	CONGO (A)	Winther Grenier	TCHISSAMBOU AMBANA	ambanawinther@gmail.com	00 242 06 622 97 39	Port autonome de Pointe-Noire	Levés bathymétriques
14.	RDC (O)	PATRICK	MUSITUMBU ITAKALA	patrickmusitumbu2@gmail.com	24381366335 7	CHEF DE BUREAU EN CHARGE DE L'HYDROGRAPHIE A LA DMVN	ETUDES ET TRAVAUX HYDROGRAPHIQUES FACILITANT LA NAVIGATION

Annex C: Programme

Day 1 – Monday 15 October 2018			
Awareness – The provision of hydrographic services			
Time	Event	Content	Chair/Presenter
09 : 00 - 10 : 00	Registration		
10 : 00 10 : 10 10 : 20 10 : 25 10 : 30 10 : 35 10 : 40 10 : 50	Opening Session	Hydrographer's Welcome Address Objectives of the Seminar Goodwill Message Goodwill Message Goodwill Message Goodwill Message CNS Opening Remark/ Declaration Seminar Open Opening of Exhibition Stand	Cdre CE Okafor Cdr Vincent Lamarre Vice President NHS MD NIWA MD NPA DG NIMASA Chief of the Naval Staff Chief of the Naval Staff
11 : 00 - 11 : 30	Coffee break	Group photograph	
11 : 30 - 13 : 15	Session 1	International Organizations and Safety of Navigation Governance	
		IMO (International Maritime Organization) - Coastal State Responsibilities and Obligations SOLAS - IMO Member State Audit Scheme (IMSAS)	IMO (Cpt Dallas Laryea)
		IHO (International Hydrographic Organization) – SOLAS Chapter V under the UN "Delivering as One" banner	IHO (Alberto Costa Neves)
		IALA (International Association of Marine Aids to Navigation and Lighthouse Authorities) - Governance of the delivery of AtoN and International compliance IALA World-Wide Academy (capacity building programme)	IALA (Jacques Manchard)
13 : 15 - 14 : 30	Lunch		
14 : 30 - 15 : 15	Session 2	Meeting National Hydrographic Obligations IHO CB Strategy and the importance of accurate nautical information (Phase 1 - MSI)	IHO (Alberto Costa Neves)
15 : 15 - 15 : 45	Session 3	Hydrographic Awareness and its economic benefits	IHO Alberto Costa Neves)
15 : 45 - 16 : 15	Session 4	The need for National Hydrographic Committees	IHO (Alberto Costa Neves)
16 : 15 - 16 : 45	Tea break		
16 : 45 - 17 : 00	Session 5	Hydrographic Service Delivery in Nigeria : Stakeholders Contributions	NPA (Florence Babalola Smith)
17 : 00 - 17 : 30	Session 6	Working with your Primary Charting Authority and NAVAREA II	UKHO (Cathy Tunks) Shom (Cdr Vincent Lamarre)
19 : 00	Reception	By host nation Venue: Admiralty Conference Centre, Naval Dockyard, Victoria Island, Lagos. Dress: Suit without tie or National dress without cap	

Day 2 – Tuesday 16 October 2018 New IT technologies: MSI – MSDI			
		MSI: collection, process and circulation of maritime safety information	
09 : 00 - 10 : 30	Session 7	Organization: <ul style="list-style-type: none"> • GMDSS: Global Maritime Distress and Safety System • WWNWS: World-Wide Navigational Warning Service • IHO Publication S-53 - Joint IMO/IHO/WMO Manual on Maritime Safety Information 	Shom
		Currents Tools: <ul style="list-style-type: none"> • NAVTEX • SafetyNET as a substitute to NAVTEX • Communication with Inmarsat (Webserver) 	Shom
10 : 30 - 11 : 00	Coffee break		
11 : 00 - 12 : 30	Session 8	Feedback from countries, Overview of new tools – Perspectives <ul style="list-style-type: none"> • Structure and Functions of Nigeria’s MSI Portal • MSI management process in the Kingdom of Morocco • Niord (producing and promulgating “standardized navigational warning and NtMs) and the Ghanaian experience. • PING (France) 	NNHO (MSI coordinator: Cdr Ma Fana) DHOC (CV K. Loudiyi) DMA (C. Saarnak) GMA (M. Eghan) Shom (Nathalie Leidinger)
12 :30 – 13 :45	Lunch		
		Portals and data management - MSDI	
13 :45 – 14 :45	Session 9	From GIS to Marine Spatial Data Infrastructure (MSDI) <ul style="list-style-type: none"> • Theoretical aspects • Focus on webGIS, service-oriented architecture • Application fields 	Shom (Nathalie Leidinger)
		<ul style="list-style-type: none"> • IHO Publication C-17 – Spatial Data Infrastructures “The marine dimension” Guidance for HOs” • The work of the IHO/MSDIWG 	IHO (Alberto Costa Neves)
14 :45 – 16 :00	Session 10	Current initiatives – Perspectives <ul style="list-style-type: none"> • Example of “data.shom.fr” • Examples in Oceanography • Example of « mission d’observation du littoral Ouest Africain (MOLOA) » • Nigeria’s National Geo-spatial Data Infrastructure 	Shom (Nathalie Leidinger) IOC (Adesina Adegbie) CSE (Ousmane Bathiery) NASRDA (Prof L.M. Ojigi)
16 :00 – 16 :30	Tea break		

		Miscellaneous - Information	
16 :30 – 17 :30	Session 11	Seminars to be organized in 2019 (CBWP): MSI, procurement (survey specification), risk assessment	EAtHC CB Coordinator (Vincent Lamarre)
		Other opportunities <ul style="list-style-type: none"> • “journées REFMAR” 	EAtHC CB coordinator (Vincent Lamarre)
		Round-table discussion	
		Conclusions/ Vote of Thanks	NNHO EAtHC CB coordinator (Vincent Lamarre)

Annex D: List of presentations - Contents

<https://www.nnho.ng/eathcdocumentation.html>

<https://www.iho.int> (planned)

Session-1_Governance_IMO-IHO-IALA	Content
1.1-EAtHC15-Seminar-Session1_IMO_Costal State Responsibility-Hydrography	<ul style="list-style-type: none"> • 1982 United Nations Convention on the Law of the Sea (UNCLOS) –Coastal State’s legislative Jurisdiction <i>vis a vi</i> safety of Navigation • Coastal State Responsibility under IMO -International Convention for the Safety of Life at Sea as amended (SOLAS)
1.2-EAtHC15-Seminar-Session1_IMO_IMSAS	<ul style="list-style-type: none"> • Why to be audited • Evolution of audit Scheme (IMSAS) • Verification of coastal State obligations (Mandatory IMO instruments) • Hydrographic services: obligation of contracting Governments
1.3-EAtHC15-Seminar-Session1_IHO-Introduction	<ul style="list-style-type: none"> • what is hydrography ? • how is it done ? • what do we do in Monaco ?
1.4-EAtHC15-Seminar-Session1_IALA_Actions in Africa_	<ul style="list-style-type: none"> • Coastal States International obligations • Risk management • AtoN provision • AtoN Management • Maritime Safety Information • IALA, The future, IALA World Wide Academy • Coastal States in need • Capacity Building within Africa • Training within Africa • Delivering as one • Recommendations
Session-2_Governance_IHO_CB Strategy	
2.1-EAtHC15-Seminar-Session2_IHO-Meeting_Obligations	SOLAS Convention UNCLOS

2.2-EAtHC15-Seminar-Session2_IHO-CB_Strategy	<ul style="list-style-type: none"> • what is Capacity Building? • process by which the Organization assesses and assists in sustainable development and improvement of the States, • to ensure the optimum contribution to safety of life at sea, to the protection of the environment, and to national economic development
Session-3_Governance_IHO_Awareness-Eco benefits	
3.1-EAtHC15-Seminar-Session3_Awareness_and_benefits	<ul style="list-style-type: none"> • Hydrography provides the fundamental backdrop for almost everything that happens in, on or under the sea • without hydrography: <ul style="list-style-type: none"> ○ no ship sails ○ no port is built ○ no offshore infrastructure is developed no environmental plan is implemented no environmental plan is implemented ○ no rescue is attempted ○ no maritime boundary is delimited
Session-4_Governance_National committees	
4.1-EAtHC15-Seminar-Session4_IHO-NHCC	National Hydrographic Coordinating Committee (NHCC) <ul style="list-style-type: none"> • Why have an NHCC? • Who makes up the NHCC? • The role of the NHCC
Session-5_Governance_Nigeria_NPA-NIMASA	
5-1_EAtHC15-Seminar-Session5_Presentation by Amb Florence_NPA	THE NIGERIAN PORTS AUTHORITY Who we are with regards to Hydrographic survey! WHERE AND HOW? AIDS TO NAVIGATION
	THE NIGERIAN MARITIME ADMINISTRATION AND SAFETY AGENCY (NIMASA)
Session-6_Governance_Primary chart authority	
6-1- EAtHC15-Seminar-Session6_Primary Charting_v2	The Role of a Primary Charting Authority <ul style="list-style-type: none"> • What is a Primary Charting Authority (PCA) • Who are the EAtHC PCAs? • Framework for the PCA • What can a PCA do for you?

	<ul style="list-style-type: none"> • What can you do for a PCA? • Case Study - Soyo LNG Terminal, Angola • Conclusions
Session-7_MSI_Shom	
7.1-EAtHC15-Seminar-Session7_MSI	<p>Maritime safety information : principles, organisation and tools</p> <ul style="list-style-type: none"> • Global Maritime Distress and Safety System <ul style="list-style-type: none"> ○ Distress alert ○ Maritime Safety Information (MSI) ○ Search and Rescue (SAR) • World-Wide Navigation Warning Service • SMAN: internationally and nationally coordinated service for the dissemination of navigational warnings as defined in IMO Resolution A.706 (17). • An integral part of the Global Maritime Distress and Safety System (GMDSS). <p>NAVAREA Warnings Information, for ocean-going mariners, required for safe navigation</p>
Session-8_MSI_NNHO_DHOC_DMA-Niord_GHA-Shom-PING	
8.1-EAtHC15-Seminar_Session8_MSI Nigeria PPT_MF	<p>Nigeria Maritime Safety information Brief Introduction</p> <ul style="list-style-type: none"> • Navigating through the Nigeria's MSI Portal • Roles of the MSI National Coordinator • Mariners' Responsibilities • Immediate Future Plans
8.2-EAtHC15-Seminar-Session8_Nautical Information in Morocco_DHOC_021018	<p>Gestion de l'information nautique au Royaume du Maroc</p> <ul style="list-style-type: none"> • Base juridique • Dispositif d'échange et de partage des données HOC (Hydrographie, Océanographie, Cartographie) • procédure de gestion de l'information nautique
8.3-EAtHC15-Seminar-Session8_Niord_DMA	<ul style="list-style-type: none"> • Navigational Warnings and Notices to Mariners at the Ghana Maritime Authority • Part of a government-to-government cooperation between Denmark and Ghana • Furthering a maritime regulatory and enforcement environment which is in compliance with international standards and regulation. • Furthering Ghanaian use of technology in the maritime domain, through a project on e-navigation https://niord.ghananautical.info

	<ul style="list-style-type: none"> • Prior to Niord: Promulgation by Broadcast (voice transmission) of Navigational Warnings via the Vessel Traffic Management Information System • Challenge: Information could not be sent via SafetyNet, NAVTEX • Benefits <ul style="list-style-type: none"> ○ Standardized system of promulgating navigational warnings and notices to mariners online via SafetyNet, NAVTEX, Twitter or email ○ Capacity building/Knowledge transfer ○ No need to maintain in-house server infrastructure to run the system
8.4-EAtHC15-Seminar-Session8_Ping_Shom	<ul style="list-style-type: none"> • Ping is a project for an information system for nautical information. • The goal is the modernization of the French scheme for nautical information in the perspective of e-navigation and GMDSS modernization. • French scheme for nautical information is defined by an instruction from the prime minister. • In this scheme maritime administrations, harbours, and users provide nautical information producers with source information. • Nautical information producers are our regional coordinators who produce coastal and local warnings, the Shom as NAVAREA II coordinator, the Shom for the charts maintenance.
Session-9_MSDI_Shom_IHO	
9.1-EAtHC15-Seminar-Session9_MSDI_Shom_FR_EN	<p>From GIS to Marine Spatial Data Infrastructure (MSDI)</p> <ul style="list-style-type: none"> • GIS / SDI – Theoretical aspects • Focus on WebGIS, service oriented architecture • Applications fields <p>A GIS is a system designed to manage geospatial databases and therefore able to :</p> <ul style="list-style-type: none"> • Acquisition (capture) • Archive (store) • Analyse (methods and models, statistical analysis) • Access (cartography, ...) • Abstraction (exploitation, take decision , ...)
9.2-EAtHC15-Seminar-Session1_Publication_C-17	<p>Marine Spatial Data Infrastructure (MSDI) IHO Publication C-17 SPATIAL DATA INFRASTRUCTURES - "THE MARINE DIMENSION" Guidance for Hydrographic Offices Publication C-17</p> <ul style="list-style-type: none"> • The need for greater access and sharing of public data; open data initiatives;

	<ul style="list-style-type: none"> the development of new and potentially disruptive technologies and the advent of the power of "place" driven by the expectations of users viewing, analysing and using spatial data This means increased communication and data exchange between maritime/hydrographic agencies and the stakeholders (both ways)
C-17_Ed2.0.0	https://www.iho.int/iho_pubs/CB/C-17_Ed2.0.0_EN.pdf
Session-10_MSDI_IOC_CSE_NGDI	
10.1_EAtHC15-Seminar-Session10_IOCAFRICA for Lagos 15th EAtHC	<p>Intergovernmental Oceanographic Commission of UNESCO IOC Sub Commission for Africa and the Adjacent Island States (IOCAFRICA)</p> <ul style="list-style-type: none"> Ocean Observations and Monitoring Ocean Sciences and Assessments Ocean Data and Information Management <ul style="list-style-type: none"> Improving access to ocean data and information Updating the African Coastal and Marine Atlases Developing a marine biodiversity and biogeography programme Preparation of ocean data and information products for Sustainable Development of the Ocean and Coastal regions Updating of the databases created (experts, institutions, and projects) Developing and African Ocean Data portal Capacity Development in Marine Science and Technology Public Awareness and Science-Policy Interface
10.2-EAtHC15-Seminar-Session10_CSE_Ousmane BATHIER	<p>MOLOA : Mission Observation du Littoral Ouest Africain CSE : Centre de Suivi Ecologique</p> <ul style="list-style-type: none"> la collecte, la saisie, l'analyse et la diffusion des données et des informations sur le territoire, sur les ressources naturelles et les infrastructures en vue de l'amélioration de la gestion des ressources et de l'environnement, à tous les niveaux de décisions » La base de données MOLOA Produits cartographiques
10.3-EAtHC15-Seminar-Session10_IHO-NGDI Seminar 2018-Agbaje-Nigeria-F	<p>National Geospatial Data Infrastructure (NGDI) Development in Nigeria: Issues and Lessons Learnt So far</p> <ul style="list-style-type: none"> Consequences of Underdevelopment Some Root Causes of Underdevelopment Global Agenda in support of Sustainable Development

	<ul style="list-style-type: none"> •Africa in Context <p>National Geospatial Data Infrastructure [NGDI] Development</p> <ul style="list-style-type: none"> • Access & Retrieval • Implementation Phases • Road Map • Road Map Building Blocks • Pilot Project • Data Search • Lessons Learnt • Finally the Way to Go!
Session-11_Miscellaneous-Information	
11.1-EAtHC15-Seminar-2019Seminar	<p>Objectives :</p> <ul style="list-style-type: none"> • Hydrographic Risk Assessment • Survey Specifications <p>Discussions on-going for a joint IALA-IHO seminar 3 days / October 2019</p>
11.2-EAtHC15-Seminar-Session11_REFMAR	<p>Journées sur les observations du niveau de la mer pour l'ingénierie et la recherche</p> <ul style="list-style-type: none"> • Où ? Au ministère de la transition écologique et solidaire – La Défense Paris • Quand ? Du 27 au 29 mars 2019 • Où s'inscrire ? http://refmar.shom.fr/journees-refmar-2019/inscription (Inscription gratuite mais obligatoire – nb de places limité) • Quels participants ? http://refmar.shom.fr/journees-refmar-2019/participants (déjà + de 60 personnes inscrites, déjà 6 pays représentés) • Où s'informer ? <ul style="list-style-type: none"> ○ Site Internet : http://refmar.shom.fr/journees-refmar-2019 ○ Mail : refmar2019@shom.fr - Twitter : @refmarshom - Hashtag : #JR2019
11.3-EAtHC15-Seminar-Conclusion	<ul style="list-style-type: none"> • Feedback on the seminar • Outcomes and Outlooks

Annex E: Photos: Host – Nigeria







Annex F: Photos: Presenters - Participants

Countries from North to South:



Denmark (DMA) (Christopher Saarnak)



United Kingdom (Cathy Tunks)



United Kingdom (Cathy Tunks) and France (Vincent Lamarre) for Primary Chart Authorities



France (Vincent Lamarre) with Alberto Costa (IHO)



France (Nathalie Leidinger)



Morocco (CV K Loudiyi)



Senegal (Ousmane Bathiery)



The Gambia (Dominic Correa)



Guinea
(Souleymane BAH, Oumar CAMARA)



Grace
Souleymane



Liberia
(Grace Maweaha Vaye- Nuhn)



Ivory Coast
(Seydou Sangaré, Ncho Richard Degbun)



Ghana
(Isaac Korenteng Yirenky)



Togo (Reine Pilayo Abire Bilabina)



Benin (Fatimatou Mama Sambo)



BENIN (Fatimatou Mama Sambo) and TOGO (Salamatou Sidi Mamadou Tébíé, Pilote maritime de Lomé, Reine Pilayo Abire Bilabina, Nawouri Kakabou) together with Abri Kamfer IHO's director



Nigeria (Cdr Fana)



Cameroun (Cdr Grégoire Toga Foto)



Gabon (Ludovic Edgard Moundounga)



Gabon (Honorat Opape Ambouroué)



**Guinea Equatorial
(Antonio Ngomo Eriki Eseng)**



**Congo
(Winther Grenier Tchissambou Ambana)**



Congo RDC (Patrick Mutsitumbu Itakala)



IALA (Jacques Manchard)



IHO (Alberto Costa Nevez)



IMO (Cpt Dallas Laryea)



IOC (Adesina Adegie)



NIMA – NPA (Florence Babalola –Smith)



Nigeria's National Geo-spatial Data Infrastructure (Dr Gamy Aglosje)