

# **INTERNATIONAL HYDROGRAPHIC ORGANIZATION (IHO)**

## **MESO-AMERICAN AND CARIBBEAN SEA HYDROGRAPHIC COMMISSION (MACHC)**

### **Capacity Building Programme**

## **HIGH LEVEL / TECHNICAL VISIT REPORT TO THE REPUBLIC OF HAITI**

**Port au Prince, Haiti, 19 - 23 June 2017**

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## Table of Contents

Contents.....	2
Introduction.....	3
Background.....	3
Relationship with IHO.....	4
Relationship with Brazil.....	4
Relationship with United States.....	5
Relationship with France.....	5
Existing Chart Coverage.....	6
Development of the High Level / Technical Visit.....	8
Visit to SEMANAH.....	8
Visit to MTPTC.....	9
Visit to APN.....	10
Visit to Prime Minister’s Office.....	11
Visit to G-Cd’H.....	12
World Hydrography Day Reception.....	13
Follow Up Visit to SEMANAH.....	14
Visit to CNIGS.....	16
Findings.....	16
Conclusions.....	18
Recommendations.....	18
Annex A – IHO Visit Agenda.....	20
Annex B – List of Contacts.....	21
Annex C – IHO Year Book Template.....	22
Annex D – National Hydrographic Committee Example.....	25
Annex E – Sample Letter of Accession for joining the IHO.....	28



# Report: IHO High Level / Technical Assessment Visit to Haiti

## 19-23 June 2017

James Rogers, Technical Executive, from the United States of America National Geospatial Intelligence Agency (NGA) Maritime Safety Office; Eric Langlois, Head of External Relations Division, at the French Hydrographic and Oceanographic Office (SHOM); and Paulo Pereira Oliveira Matos, Head of the Planning Division, at the Brazilian Directorate of Hydrography and Navigation (DHN), undertook a high level / technical assessment visit to Haiti from 19 - 23 June 2017 on behalf of the International Hydrographic Organization (IHO).

### Introduction

The IHO is an intergovernmental technical organization, comprising of 87 Member States. The IHO seeks to ensure that all States with coastlines and maritime interests provide adequate and timely hydrographic data, products and services, thereby advancing maritime safety and efficiency in support of the protection and sustainable use of the marine environment. The IHO is the recognized competent authority of the United Nations for hydrography and nautical charting.

### Background

The Republic of Haiti is a country located on the island of Hispaniola, in the Greater Antilles archipelago of the Caribbean Sea. It occupies the western three-eighths of the island, which it shares with the Dominican Republic. With a land area of 27,750 km<sup>2</sup>, and an estimated population of 10.6 million people, it is the most populous country in the Caribbean Community (CARICOM) and the second-most populous country in the Caribbean region.

The government of Haiti is a semi-presidential republic, a multiparty system wherein the President of Haiti (Jovenel Moïse, elected on 2 November 2016) is the Head of the State, elected directly by popular elections. The Prime Minister (Jack Guy Lafontant, appointed on 21 March 2017) acts as the Head of government and is appointed by the President, chosen from the majority party in the National Assembly. Executive power is exercised by the President and Prime Minister who together constitute the government. In 2013, the annual budget was US\$1 billion. Legislative power is vested in both the government and the two chambers of the National Assembly of Haiti. The government is organized unitarily, thus the central government delegates powers to the departments without a constitutional need for consent.

Haiti has a large maritime interest in the region with a coastline of 1,772 km in length. As for its maritime traffic, Haiti currently has four major seaports: Cap-Haitien, Gonaïves, Jacmel, and Port-au-Prince. Through a Decree signed on 6 April 1972, Haiti has territorial sea claims to 12 NM, contiguous zone claims to 24 NM, and an exclusive economic zone claim to 200 NM. Haiti's sea boundaries comprise about 82% of their total boundary. Besides, the international maritime boundaries with neighboring countries have not been formally established and therefore not published.

Haiti is the most mountainous nation in the Caribbean. Its terrain consists mainly of them interspersed with small coastal



plains and river valleys. The climate is tropical, with some variation depending on altitude (Haiti's highest point: Pic la Selle, at 2,680m). Besides, Haiti lies in the middle of the hurricane belt and therefore is subject to severe storms, occasional floods and a permanent threat from earthquakes and tsunamis.

As a maritime country, Haiti is one of the founding members of the United Nations (24 October 1945) and party to the United Nations Convention on the Law of the Sea; the International Convention for Safety of Life at Sea (SOLAS); the International Convention for the Prevention of Pollution from Ships (MARPOL) and has obligations in Maritime Search and Rescue (SAR). Haiti is also member of the International Maritime Organization (IMO), the Intergovernmental Oceanographic Commission (IOC) and the World Meteorological Organization (WMO), among other related international and regional bodies.

### **Relationship with IHO**

In 2008, the Government of the Principality of Monaco received the application for IHO membership from the Government of the Republic of Haiti (cf. CL50/2008 dated 10 June 2008). In the meantime, Haiti keeps on interacting with the IHO Community as an Associate Member to the Meso-American and Caribbean Sea Hydrographic Commission (MACHC). The *Service Maritime et de Navigation d'Haiti* (SEMANA) is, as national maritime authority, the official representative of Haiti within the IHO Community.

Conscious of its maritime strategic position in the center of the Caribbean, and aware of its strong limitations in terms of hydrographic capabilities, nautical cartography, marine safety information and oceanography, the Ministry of Foreign Affairs of the Republic of Haiti requested the IHO for a Technical Visit that took place in October 2008 with the objective of assessing the hydrographic and oceanographic situation and contributing to the preparation of a national and regional hydrographic development project that would establish a Hydrographic and Oceanographic Service in Haiti (SHOH). Consequently, an IHO Technical visit took place from 19 to 23 October 2008. A follow up visit was paid in January 2009, at which time the progress of the project to establish SHOH was reviewed. The SEMANA, the national agency under which the SHOH is being established, has continued working on the definition of the project, developing a programme which has been used as a roadmap to follow up on its development.

In January 2010, a severe earthquake hit the country, killing more than 100,000 people and generated equivalent to 120% of GDP losses. This reinforced the previous view of the Haitian authorities for a national hydrographic and oceanographic service able to contribute to Haiti's development. As a result of this devastating earthquake, several countries allocated or committed support to Haiti's reconstruction. Therefore, SEMANA suggested the IHO to organize a "donors' meeting" to coordinate and assist in the establishment of the SHOH using some of the resources and support offered. The required support included an advisory on the organization, the donation of equipment and vessels, and the capacity of the personnel. This "Haiti donors meeting" took place alongside to the 11th MACHC meeting (2010) in Suriname with the countries that offered to support Haiti (Brazil, Canada, Chile, France, Japan, Peru, The Netherlands UK, USA, and Venezuela) and the IHB as a coordinator. This meeting resulted in a 2-week training course sponsored by the Capacity Building Fund (with an extraordinary contribution from Korea and the support of SHOM) in 2011.

Although Haiti did receive the approval of 2/3 of the IHO Member States required to complete its IHO Membership procedure in 2012, it is not a full Member of the International Hydrographic Organization (IHO) yet: indeed, the deposition of its instrument of accession required to ratify the IHO convention is still pending.

### **Relationship with Brazil**

The first bilateral agreement between both countries was signed in Washington, United States, in 1910. These relations strengthened with the Brazilian decision to join the United Nations Mission for Haiti Stabilization (MINUSTAH), in 2004. The earthquake in 2010, which killed more than 100,000 people and generated equivalent to 120% of GDP losses, demanded the intensification of Brazilian cooperation for Haiti's development.

There are bilateral initiatives in several areas, among them the following: safety, both in regard to the MINUSTAH's mission and the cooperation for strengthening the Haitian National Police (PNH); economic, within the framework of the Haiti Reconstruction Fund and other aid initiatives; social, through humanitarian

assistance and cooperation programs in the areas of food security, health and education; and political / institutional, through the exchange of experiences between Brazilian and Haitian Judiciary and support to the electoral process and to the facilitation of dialogue between the constituted Powers.

Since the entering into force of their bilateral cooperation agreement in 2004, around fifteen Brazilian cooperation projects have been carried out in Haiti. It is also worth mentioning the trilateral cooperation Brazil-Cuba-Haiti in healthcare, which includes the construction of epidemiological surveillance laboratories and community hospitals with resources from Brazilian contribution.

Since 2012, Brazil and Haiti have developed capacity building cooperation in Hydrography through the Directorate of Hydrography and Navigation (DHN) of the Brazilian Navy and SEMANAH. This led to the graduation of two SEMANAH civilian engineers to the DHN Category A Hydrography Course in 2014. In 2016, bilateral discussions addressed the possibility of formalizing this cooperation through a technical bilateral agreement between DHN and SEMANAH, which could be signed by the middle of 2019.

### **Relationship with United States**

The United States has served as the Primary Charting Authority for Haiti for most of the 20<sup>th</sup> Century and continues to do so into the 21<sup>st</sup> Century. The US has conducted Hydrographic Surveys, produced Standard Nautical Charts, produced Publications, and maintained Notice to Mariners for Haitian waters. These products are publicly available to support Safety of Navigation in and around Haiti.

In 2014 both Haiti and the United States formalized their Hydrographic relationship with the establishment of a Memorandum of Understanding (MOU). This MOU established proper avenues of communication between the two Hydrographic organizations through various points of contact. This MOU created an environment to form a closer relationship in the area of Maritime Safety cooperation. Processes for sharing Maritime Safety Information (MSI) were also created to ensure safe navigation for the mariner in Haitian waters.

With the upcoming digital chart carriage requirements by the IHO / IMO the US has been producing ENC to support digital navigation within Haitian waters. This effort has been in work since the formal establishment of the MOU between Haiti and the US in 2014. All the harbors and approaches now have ENC coverage. The Coastal ENC is in production now and will soon be available.

The US supported Haiti with an Internship program for two of SEMANAH's Category A Trained Hydrographers in 2015. This Internship was supported by NOAA, NGA, and the US Navy over the course of a one-month period. The program provided these hydrographers an opportunity to practice the skills they had learned while attending the Category A Hydrography programme in Brazil in 2014.

### **Relationship with France**

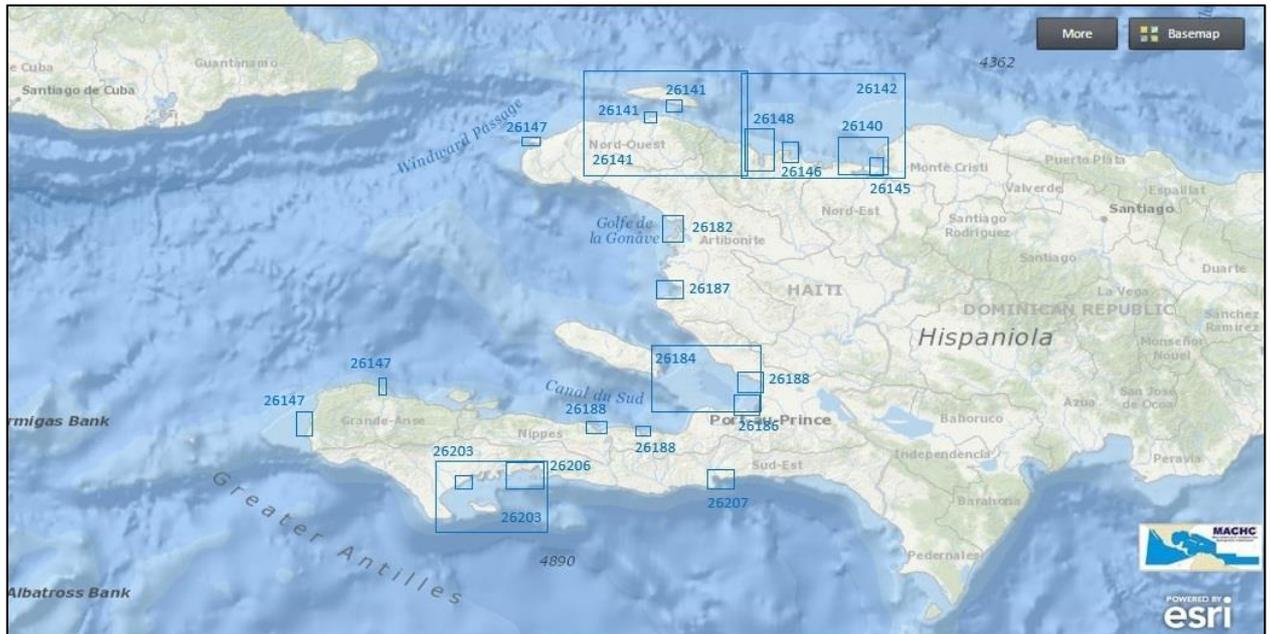
Although there is no specific and formal agreement between Haiti and France in terms of hydrography yet, SHOM and SEMANAH have maintained good relationships with the purpose of fostering the cooperation between the two services in terms of capacity building. Therefore, SHOM has committed in assisting Haiti on the implementation of its national hydrographic and oceanographic capability.

Particularly, in the frame of the 2011 Haiti Donor's meeting that took place under the aegis of the IHO after the 2010 earthquake, SHOM provided a couple of instructors in hydrography and nautical cartography and preparing course materials in French language, followed by an on-site basic training to SEMANAH staff in partnership with the PAIGH, which took place in September 2011.

Besides, in order to ensure a comprehensive involvement of Haiti to the IHO Community work, France has made sure that all reference materials and documentations be available in French, as one of IHO's official language.

## Existing Chart Coverage

Paper Standard Nautical Chart (SNC) coverage:

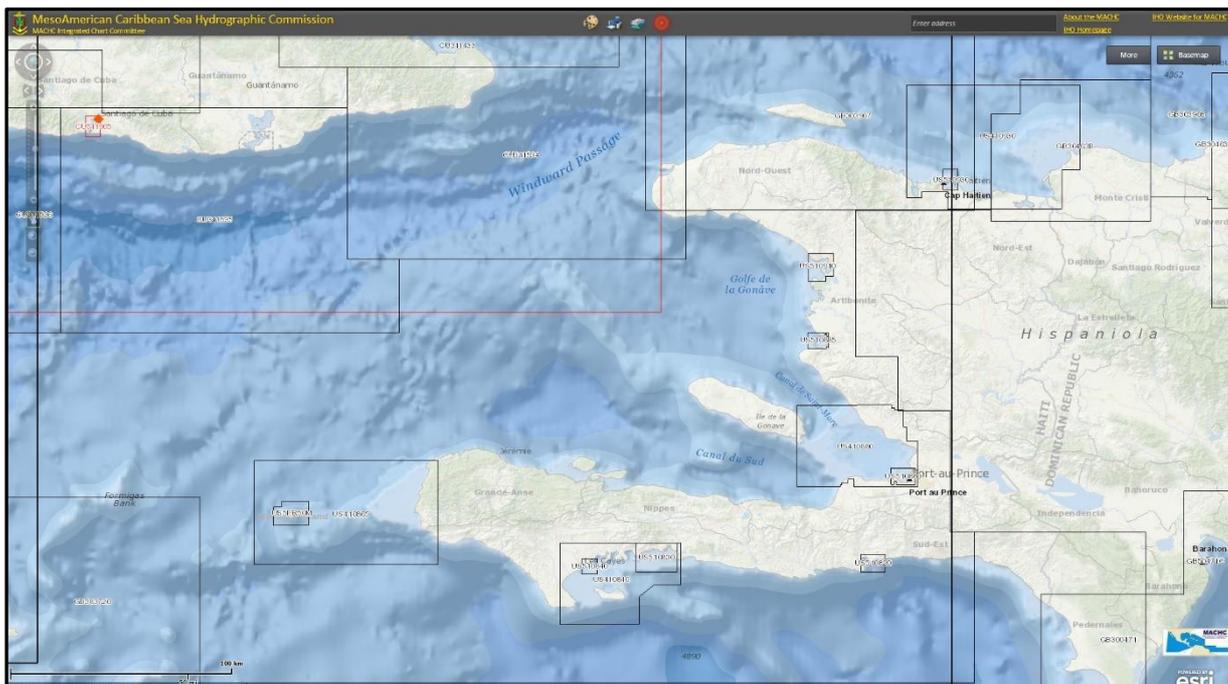


Haiti SNC Charts						
#	Series	Chart	Title Description	Scale	Published	Comments
1	26XHA	26140	Approaches to Manzanillo Bay	1:25,000	1-Jul-95	
2	26XHA	26141	Canal de la Tortue - Plan A: Port de Paix & Plan B: Rade de la Basse Terre	1:15,000	9-Sep-95	
3	26XHA	26145	Fort Liberte and Manzanillo - Plan A: Manzanillo & Plan B: Fort	1:10,000 & 1:20,000	20-May-95	
4	26BHA	26146	Cap Haitien	1:10,000	22-May-10	
5	26AHA	26147	Plans in Haiti - Plan A: Mole Saint Nicolas; Plan B: Anse d'Hainault; & Plan C: Jeremie	1:12,500, 1:15,000, & 1:20,000	29-Apr-95	
6	26XHA	26148	Baie de l'Acul and Approaches	1:20,000	4-Feb-95	
7	26BHA	26182	Gonaives	1:12,500	6-Feb-10	
8	26AHA	26184	Approaches to Port-au-Prince	1:50,000	27-Mar-10	
9	26AHA	26186	Port-au-Prince	1:10,000	15-Jan-11	
10	26BHA	26187	Baie de Saint Marc	1:10,000	30-Jan-10	
11	26BHA	26188	Plans in the Golfe de la Gonave - Plan B: Lafiteau; Plan C: Miragoane; & Plan D: Petit Goave	1:12,500, & 1:20,000	3-Jun-95	
12	26BHA	26203	Pointe l'Abacouto Baie d'Aquin; & Plan: Cayes	1:20,000, & 1:50,000	1-Apr-95	
13	26XHA	26206	Aquin	1:20,000	21-May-11	
14	26BHA	26207	Jacmel	1:12,500	6-Mar-10	
15	26XHA	26141	Canal de la Tortue	1:75,000	9-Sep-95	
16	26XHA	26142	Approaches to Cap Haitien and Bahia de Monte Cristi	1:75,000	1-Apr-95	
17	26ACO	26100	Morant Cays to Cabo Maisi	1:300,000	19-Aug-95	
18	26AHA	26181	Golfo de la Gonave	1:200,000	10-Oct-10	
19	26XCO	26190	Windward Passage	1:300,000	23-Mar-96	
20	26ACO	26210	Navassa Island to Cabo Beata - Inset: Navassa Island to Cap Tiburon	1:150,000, & 1:300,000	10-Feb-07	
21	26XCO	26260	Passages between Acklins Island, Haiti and the Caicos Islands	1:300,000	27-Feb-88	

The SNC coverage for Haiti is currently produced by NGA in the United States of America as the Primary Charting Authority. These NGA SNC's are available for print from various Print on Demand (POD) vendors. The listing of POD vendors for NGA Charts can be found at the following link:

<https://www.nauticalcharts.noaa.gov/publications/print-agents.html#nga-paper-charts>

Electronic Navigational Charts (ENC) coverage:



<b>Haiti ENC Cells</b>					
<b>Sep-17</b>					
<b>#</b>	<b>Country</b>	<b>Cell Name</b>	<b>Title Description</b>	<b>Published</b>	<b>Comments</b>
1	Haiti	US3HT101	Haiti Coast		In Work
2	Haiti	US410840	Approaches to Les Cayes and Aquin	3/4/2015	
3	US - Haiti	US410865	Navassa Island (US) to Cap Tiburon (HT)	3/4/2015	
4	Haiti	US410880	Port-au-Prince Approach	9/12/2014	
5	Haiti	US410915	Canal De La Tortue		Completed
6	Haiti	US410930	Approaches to Cap-Haitien	9/19/2014	
7	Haiti	US510820	Jacmel	9/12/2014	
8	Haiti	US510830	Aquin	3/4/2015	
9	Haiti	US510840	Les Cayes	3/4/2015	
10	Haiti	US510860	Miragoane		Completed
11	Haiti	US510870	Petit Goave		Completed
12	Haiti	US510880	Port-au-Prince Harbor	11/28/2015	
13	Haiti	US510885	Baie de Saint-Marc	9/12/2014	
14	Haiti	US510890	LaFiteau		Completed
15	Haiti	US510910	Gonaives	9/12/2014	
16	Haiti	US510918	Mole Saint Nicolas		Completed
17	Haiti	US510920	Port de Paix		Completed
18	Haiti	US510922	Rada De La Basse Terre		Completed
19	Haiti	US510925	Baie de L'Acul		Completed
20	Haiti	US510930	Cap-Haitien	11/28/2015	
21	Haiti - Dominica	US510960	Pepillo Salcedo		Completed

The ENC coverage for Haiti is currently produced by NGA in the United States of America as the Primary Charting Authority. These ENC Cells are available from the NOAA ENC website for download. The NOAA ENC website can be found at the following address:

<http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml>

Additionally, the NGA ENC for Haiti is available via the various RENC's to include Primar and IC-ENC. The ENC RENC's can be found at the following addresses:

IC-ENC:

<http://www.ic-enc.org/>

PRIMAR:

<https://www.primar.org/>

### **Development of the High Level / Technical Visit**

The High Level / Technical Visit timetable, developed by SEMANAH, is provided in the annex of the present report.

The following government departments and agencies with an interest in the maritime domain were included in the Visit Programme:

- *Service Maritime et de Navigation d’Haïti* (SEMANTAH)  
<http://semanah.com/>
- *Ministère des Travaux Publics, Transport et Communications* (MTPTC) - SEMANTAH’s line Ministry  
<http://www.mtptc.gouv.ht>
- *Autorité Portuaire Nationale* (APN) - National Port Authority  
<http://apn.gouv.ht/>
- *Primature* – Haiti’s Prime Ministry Office  
<http://primature.gouv.ht/>
- *Commissariat des Gardes-Côtes d’Haïti* (G-Cd’H) – Haiti’s Coast Guard

Moreover, the IHO visiting team requested an additional visit to the *Centre Nationale de l’Information Géophysique* (CNIGS), as the National Geospatial Agency.

### **20 JUN 2017 - Visit to Service Maritime et de Navigation d’Haïti (SEMANTAH)**



Created in 1982 under the aegis of the *Ministère des Travaux Publics et des Télécommunications*, the *Service Maritime et de Navigation d’Haïti* (SEMANTAH) is the national maritime agency in charge of the maritime domain activity and environment of Haiti. SEMANTAH is in charge of marine environment protection, handled by its Directorate of hydrography and oceanography. SEMANTAH’s area of responsibility is made of 1772 km of coastline, 72 coastal towns and 5 islands.

Regarding Maritime transport, SEMANTAH’s activity encompasses vessel inspection and certification, maritime activity regulation within Haitian Waters, naval construction norms and regulations, and personnel training and qualification. Lastly, Maritime Safety Information, weather Forecasts (tsunami, storm surge and cyclone warning broadcast) and Haitian coasts Search and Rescue are also among SEMANTAH’s missions.

Under the *Direction Générale* (Executive Management) lies five Thematic Directorates: the *Direction Administrative* (finance and human resources), the *Unité de Coordination* (Vessel Port control), the *Direction de la Sécurité Maritime* (Maritime Safety Information), the *Direction de la coopération et des Affaires Maritimes* (Maritime Affairs and cooperation) and the *Direction de la Protection du Milieu Marin* (Marine Environment Protection), which actually encompasses the hydrographic expertise.

On the first day of the visit, the IHO delegation was welcomed at SEMANTAH by its Director, M. Dieudonné BRUNO, followed up by an introductory meeting with all SEMANTAH Directors chaired by M. Dédé WILBERT, SEMANTAH Directeur’s Chief of Staff. M. WILBERT welcomed the IHO Delegation and described the role and missions of SEMANTAH (see paragraphs above), emphasizing on SEMANTAH’s expectations to this IHO visit:

- finalizing Haiti's application for IHO membership initiated in 2008,
- raise awareness on the need of a national hydrographic capability in order to develop Blue Growth in Haitian Waters.

He also reported SEMANAH is currently working on the approval of the following crucial documents:

- A new version of SEMANAH's organic law in order to be officially named as the national maritime geospatial information expert agency and therefore to extend the scope of its missions accordingly,
- A national maritime code, pending for the approval of the Parliament. The national maritime code has since been approved by the Parliament.

The IHO Delegation thanked SEMANAH for their welcome and swift organization of that visit. The Visiting Team indeed recalled the dual purpose of that visit, being considered a high level visit as well as a technical visit.



**20 JUN 2017 - Visit to the *Ministère des Travaux Publics, Transports et Communications* (MTPTC - Ministry of Public Works, Transport and Communications)**



After the introductory meeting with SEMANAH, the IHO Delegation visited SEMANAH's line Ministry, the ***Ministère des Travaux Publics, Transport et Communications*** (MTPTC). After an introductory address by the MTPTC Minister, Monsieur l'ingénieur Fritz CAILLOT, discussions took place with M. Franz JOSEPH, expert from the Minister's Office, the Director of SEMANAH, M. BRUNO and some SEMANAH Directors such as M. MITTON, Director of Marine Environment Protection, M. JABOUIN, Director of Maritime Safety, Ms SENATUS, Head of Cooperation at SEMANAH and M. METAYER, in charge of the Tsunami warning watch Center in Haiti. M. JOSEPH first raised the issue of the IHO Membership. He reported on the confusion experienced by the Haitian Government on the way to complete the IHO membership process, pointing at the fact that any ratification of an international convention needs to be approved by the Parliament. Though political instability experienced by Haiti for the last few years has prevented such ratification of the IHO Convention.

The IHO visiting team then provided some ways forwards to address this issue. Although the new IHO Convention, approved on November 8<sup>th</sup> 2016, does simplify the Membership application process, it does not change anything in Haiti's case as the endorsement by at least 2/3 of the IHO Member States is no longer requested. From now, Governments of States that are Member States of the United Nations may join the IHO

by submitting a Letter of Accession<sup>1</sup> to the Convention on the IHO through diplomatic channels, to the Government of the Principality of Monaco. The letter should indicate the tonnage of the State's registered (flag) fleet requested to estimate Haiti's shares and votes such as its annual fees. The tonnage figure is obtained by adding 6/7 of the displacement tonnage of warships of greater than 100 tons to the gross tonnage of all other vessels greater than 100 tons. The Department of External Relations and Cooperation of the Government of Monaco, upon receipt of the application, will notify all IHO Member Governments. According to previous IHO visit report (2008) Haiti's tonnage is estimated at around 6,000 tons. Therefore, according to IHO's table of tonnage, Haiti's annual fees for would not exceed the cost of two shares (16,000€ - 8,000€ a share). The IHO Delegation invited SEMANAH to provide an updated estimation of its national tonnage. Since the High Level / Technical Visit it was determined that Haiti would be responsible for one share or 8,000€ for the annual IHO fee.

The Convention that rules the IHO should not be mistaken with Major International Convention such UNCLOS, or SOLAS that does affect a State's governance. Besides, IHO's membership application process offers a simplified way to Governments of States that are Member States of the United Nations, of which Haiti already is. Therefore, the ratification process of the IHO Convention by the Parliament of Haiti, if considered mandatory, should address the Accession of this Convention as the formal endorsement of Haiti to the reference document ruling one of United Nations' sister Organizations.

Secondly, M. JOSEPH addressed the lack of administration of Aids to Navigation in Haiti. Haiti has an "Aids to Navigation" department which has been established to support anything regarding the subject. This group is also a good fit for supporting the larger IHO Maritime Safety Information (MSI) efforts in Haiti. M. JOSEPH also expressed Haiti's concern about the damage inflicted on most of Aids to Navigation in Haitian Waters as a result of Hurricane Matthew which struck this country in 2016. M. JOSEPH indicated that Haiti seeks assistance in getting these Aids to Navigation fixed in order to improve maritime routes safety in its Waters and bring back a consolidated level of maritime traffic in the country.

In response, the IHO Visiting Team emphasized on the role of IALA to assist Haiti on any matters regarding Aids to Navigation (AtoN) management and governance. Indeed, Haiti is already on IALA's priority list. Although IHO and IALA are pretty much in phase while addressing Capacity Building matters, the IALA agenda did not allow any of its AtoN experts to take part of this IHO Visit. Consequently, the Delegation agreed to provide some IALA points of contact to support their Aids to Navigation efforts. IALA plans to visit Haiti in 2018 for a Technical Visit.

M. JOSEPH also confirmed that the national Maritime Code project being considered is a high priority for the MTPTC Minister and Haiti's Government with the support of IMO.

On the other hand, The Ministry emphasized on Haiti's interest to design and conduct a project to support Tsunami Evacuation Routes development from the low-lying areas of their coastal zone. Consequently, there is an interest for any funding opportunities (World Bank ...) to support this project.

The IHO Delegation indicated that it is important to coordinate these projects through the IHO / MACHC to investigate on any available regional projects or initiatives that might be beneficial for Haiti's case.

Haiti is also looking to establish a Maritime Training Center to support the future need for technicians and experts within their Maritime focused organizations. There are currently no Maritime Training facilities in Haiti despite Haiti's large Maritime interest within the region.

## 20 JUN 2017 - Visit to the *Autorité Portuaire Nationale* (APN)



The APN is a public administrative establishment, placed under the authority of the *Ministère de l'Economie et des Finances*. Its main function is to ensure the provision of port services to all kind of operators (vessels, agents, ...) within Haiti's harbours.

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<sup>1</sup> An example of a Note verbale for a Member State of the United Nations to submit its Letter of Accession to the Convention on the IHO is provided in annex E to the current report.

The IHO delegation was welcomed by APN's Director General, Monsieur l'Ingénieur Hervé Eveillard. The IHO delegation received a detailed presentation on the role of the APN, including its structure, obligations, responsibilities, and the relations with other national institutions, in the operational component of its mission. National Port Authority representatives were then briefed on the purpose of this IHO High Level / Technical Visit.

The first topic to be raised by APN was the follow-up on Haiti's IHO Membership application. Likewise APN was under the impression that the Haitian Government had to ratify the IHO Conventions to formally join the IHO. The IHO Delegation made them aware that this was not necessary for the IHO process and all Haiti needs to do is formally submit the letter. In the end Haiti submitted the IHO Conventions to the Parliament to be ratified to satisfy their governmental process.

APN then addressed the efforts made to improve port facilities, especially on dredging projects. APN pointed out Haiti's need to get access on updated and reliable bathymetric information and a national body capable of providing professional advice in the field of hydrography. There is currently no institution capable of providing technical expertise and advice for to control dredging activities.

Besides, APN mentioned the various hydrographic survey efforts achieved to support the Port Authority development initiatives, like an upcoming survey operation to be performed in Cap Haitian as well. The IHO Delegation took the opportunity to emphasize on the importance of increasing hydrographic data access, so it can be exploited by the whole Haitian maritime community including SEMANAH, and not to be narrowed to dredging operations support. In that scope, Haiti should pass a national legislation to formalize this requirement to share the hydrographic data with SEMANAH and any other pertinent administrations or organizations. Ultimately, Haiti needs to designate a national authority to serve as a repository for all hydrographic survey data collected within Haitian waters. SEMANAH, as the only national maritime agency with hydrographic expertise should be entitled to play that national referent role.

Lastly, the IHO Delegation asked if APN was responsible for managing Cruise Ship Ports. APN indicated that Cruise Ship Ports are managed by special agreement with the Ministry of Tourism. One example discussed was the Labadee Cruise Ship Port which is directly managed by the Ministry of Tourism, without any intervention by the APN or SEMANAH. The visiting team took this opportunity to recommend that guidelines on hydrographic survey specifications may be disseminated to all Haitian administrations and Ministries to be able to collect and safeguard maritime geospatial data acquired according to the IHO Standards.

## **21 JUN 2017 - Visit to the *Primature* (Prime Minister's Office)**



The IHO Delegation was introduced to the new Haiti Prime Minister, Dr. Jack Guy LAFONTANT and Ms Désiré JASMIN, Prime Minister's legal Adviser, by Mr. Dieudonné BRUNO, and Mr. Serge MITTON from SEMANAH. They provided the Prime Minister with an overview of the purpose for the IHO High Level / Technical Visit. Mr. Eric LANGLOIS from the IHO Delegation then gave a verbal presentation to the Prime Minister about the IHO, particularly its capacity building strategy and the importance of membership within the organization given Haiti's large Maritime footprint in the region. During his presentation, he addressed the finalization process for Haiti to complete the application for a membership within the IHO. The IHO Delegation presented the Prime Minister a copy of the template letter necessary to join the organization since Haiti is already a full United Nations Member State. The delegation also made sure that the Prime Minister understood that the letter was all that was necessary for Haiti to become a full IHO Member State.

The Prime Minister thanked the IHO Delegation for their time, and recalled that maritime development has been set as one of the main priorities of his Government. In that scope, he announced the forthcoming creation of a National Maritime Surveillance Command Center.

The IHO Delegation also recalled the usefulness of the Marine Disaster Plan of the IHO Meso-American and Caribbean and Hydrographic Commission (MACHC) after the hurricane Matthew struck the Country in 2016. This plan did contribute to coordinating allied hydrographic means to restore maritime safety and a safe

passage towards Haitian Ports. Additionally, The IHO visiting team pointed at the need for the Haitian Government to include Hydrographic capacity assistance in their emergency priority list to the international Community when struck by such severe weather phenomena.

After a good discussion with the Prime Minister, the IHO Delegation presented him with a copy of an 18<sup>th</sup> Century French Nautical Chart of Haiti. The Prime Minister was appreciative of the gift presented by the IHO Delegation.



### Visit to Commissariat des Gardes-Côtes d'Haïti (G-Cd'H)



In the afternoon, the IHO Delegation proceeded to the Port-au-Prince Harbor where they boarded one of the Coast Guard vessels to head over to the Killick Coast Guard Base for the meeting with the Coast Guard. The ride across the harbor gave the delegation an opportunity to see the efforts to rebuild the Port-au-Prince Port facility since the 2010 Earthquake. It appears that major work has been performed on the North Pier in the last few years. There were also several large commercial vessels pier side at the port facilities when the delegation visited the area. The Coast Guard vessel dropped the IHO Delegation off at one of the piers at the Killick Coast Guard Base. The trip by boat apparently saved the delegation a great deal of time in Port-au-Prince traffic.





During the visit to the Coast Guard facility the IHO Delegation was introduced by Mr. Serge MITTON from SEMANAH. The delegation gave an overview about the IHO and the purposes of the High Level / Technical Visit to Haiti. Commandant Joseph Jean Mary WAGNAC of the Haiti Coast Guard also provided an overview of the *Commissariat des Gardes-Côtes d’Haïti* (G-Cd’H) organization. He expressed that the Haiti Coast Guard has a great interest in being part of the larger Haiti Maritime Community. He said it was important for Haiti leadership to understand the Haiti Coast Guard contribution to the overall maritime mission. Commandant Wagnac said that they need higher resolution hydrography in some areas to allow them to safely complete their mission because the current coverage is not adequate. From discussion with the various officers present, it appeared that their current Standard Nautical Chart (SNC) portfolio was somewhat dated. A set of the current edition SNC’s were provided to the Haiti Coast Guard to update their current portfolio.

Haiti maintains Coast Guard Bases at the following locations:

- Port-au-Prince
- Cap Haitian
- Les Cayes
- Port-de-Paix

The Haitian Coast Guard has 3 boats in Port-au-Prince, 1 in Cap Haitian, and 1 in Les Cayes.

There was some discussion of the possibility of both SEMANAH and the Coast Guard working together as part of that larger maritime mission. The Coast Guard vessels could potentially provide a platform for SEMANAH to do small port hydrographic surveys in the absence of a dedicated survey vessel. The Haiti Coast Guard expressed an interest in supporting this joint effort with SEMANAH. The Coast Guard bases could also provide a stable location for the placement of tide gauges throughout Haiti. These tide gauges would be important for supporting future hydrographic survey work in Haiti.

### World Hydrography Day Reception



The World Hydrography Day Reception was held at the El Rancho Hotel in Petion-ville, Haiti. Various Dignitaries, Embassy staff, Hydrographic Partners, and the Press were invited to attend / participate in the event that evening. The 2017 World Hydrography Day theme was:

*“Mapping our seas, oceans and waterways - more important than ever”.*

The SEMANAH Director General opened the Reception with a speech about World Hydrography Day and the importance of hydrography to Haiti. His speech was followed up by Mr. Eric Langlois from the IHO Delegation about the importance of World Hydrography Day and being an active member of the IHO. He

discussed the various benefits of being a full member of the IHO and also the importance of hydrography in the development of Haiti's future. Later, Mr. Matthieu POLYTE from SEMANAH provided a presentation about some of the ongoing efforts to build capacity in SEMANAH. To close out the formal part of the session a video about the importance of hydrography was played for the Reception participants. It helped tie the hydrographic message together for the various participants. This event provided a great opportunity for the various hydrographic partners in Haiti to better understand the importance of hydrography and also full membership within the IHO.

During the informal part of the Reception, there were opportunities for the various hydrographic partners to further discuss the night's speeches and presentations. Participants from the local University in Haiti expressed an interest in possible Capacity Building opportunities for the future.



## 22 JUN 2017 - Follow up visit to SEMANAH

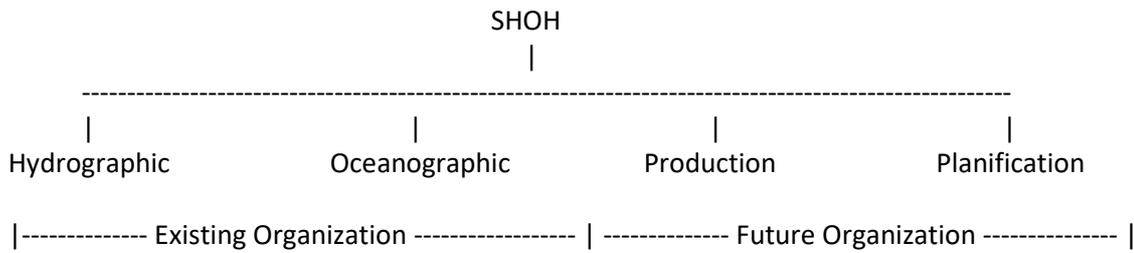


The IHO Delegation had a follow up visit to SEMANAH to address the place of hydrography in SEMANAH's organizations and eventually answer some questions that had come up during the visit. During this time, the delegation was provided more in-depth information about SEMANAH's re-organizational project of its *Direction de la Protection du Milieu Marin* (Marine Environment Protection) organization, which actually encompasses the hydrographic expertise.

Components of the SEMANAH Organization:

- SHOH – Service Hydrographic et Oceanographic Haiti
- CFM – Formation Maritime Center
- CROSS – Search and Rescue
- Promulgation of Maritime Code
- Coastal Risk
- Education

Concerning SEMANAH's organization, the IHO Delegation was presented with more detailed information about the restructuring of its Marine Environment Protection Directorate into a *Service Hydrographique et Oceanographique d'Haiti* (SHOH). See below for more details:



Currently two parts of the Organization exist (i.e. Hydrographic & Oceanographic). Two additional areas are planned for the future in the SHOH organization (i.e. Production & Planification). The IHO Delegation also understood from the discussions that there is an increasing pressure on the Marine Environment Protection Directorate to demonstrate its hydrographic expertise, especially after several staff personnel came back from academic and training sessions from Brazil and the United States. Consequently, SHOH detailed their intention to acquire second hand hydrographic equipment from various partners in order to start as soon as possible to perform hydrographic surveys.

In response to that initiative, the IHO Visiting Team pointed back to the IHO Capacity Building Principles. The Delegation exposed the key aspects that need to be handled first by Haiti and SHOH, as part of the IHO Capacity Building Phase 1:

- The first priority Haiti must take care of is to organize the collection and dissemination of Maritime Safety Information (MSI) regarding Haitian Waters. This can be supported by a project where they build a library of hydrographic coverage showing the quality of the hydrography in Haitian waters. In that perspective, the IHO Delegation mentioned several IHO opportunities to train SEMANAH staff on MSI, indicating the recent development of an e-learning francophone platform to provide 24/7 reference materials and basic knowledge on MSI. The Visiting Team also indicated that MSI francophone academic courses are regularly scheduled in other IHO regions, and that Haiti is more than welcomed to take benefit from.
- The second key project should be to collect all Hydrographic information contained in the Source Diagrams / Source Listings found on the Standard Nautical Charts (SNC), instead of urgently trying to acquire survey equipment. The United States, represented by NGA, as Primary Charting Authority (PCA) is fully ready to assist Haiti in achieving such an inventory. The copies of the current edition charts they received during the visit should help with this project. This information will be used as reference materials to determine hydrographic survey priorities within Haiti Waters and to design a national hydrographic programme. Priorities should be set based on two factors: the Maritime activity potential and/or importance, as determined by Haiti's National Hydrographic Commission, and the variability of hydrographic parameters (sea bottom and bathymetry mainly) established by SEMANAH hydrographic experts.

During the follow up visit, there was discussion about the need for Haiti to enact a law establishing an organization as the repository for all hydrographic information collected in Haiti. SEMANAH as the National Hydrographic Office in Haiti would be the logical choice to be this repository. Essentially, any hydrographic survey conducted in Haitian waters regardless of which organization collected it, should be made available to SEMANAH to store for future hydrographic needs. SEMANAH would serve as the library for this hydrographic information within the Haiti Government. This information could come from a variety of government and private organizations. For example, dredging surveys from APN could be placed in this library. Additionally, a hydrographic survey performed by a Cruise Ship Company should be made available to this library to support future chart updates. This legislation could also include language requiring a centralized authorization process for conducting hydrographic surveys. This coordination could potentially eliminate the potential for duplication of hydrographic survey efforts by different organizations in the future.

Current Tide Stations in Haiti:

- Cap Haitian
- Carrefour
- Les Cayes

SEMANAH has secured a boat capable of mounting a single beam sonar as well as a side scan sonar. They have put in a request with the US Navy to secure some of their old excess hydrographic survey equipment to use on this boat in the interim. This will provide SEMANAH some initial hydrographic survey capability especially in their near shore / port areas.

SEMANAH also expressed interest in a future Internship for their Hydrographers similar to what they did at NOAA the other year. This helps keep their skills up after completing their Category A or Category B Hydrography training. This is an interim solution until they get some hydrographic equipment in place.

### Visit to Centre National de l'Information Géo-Spatiale (CNIGS)



SEMANAH was able to arrange a meeting with CNIGS later that day for the IHO Delegation. Mr. Boby Emmanuel Piard, the Director General of CNIGS, gave the delegation an overview of the organization and talked about their capabilities. CNIGS has a geospatial database where they store all of their information. They also make much of this information available to the user via the website.

CNIGS could potentially also make ENC available for SEMANAH via this web portal as well. CNIGS sometimes does receive hydrographic data that SEMANAH has not received. This information is stored in the database and could be made available via the web as well.

During discussion, it was stated that CNIGS has complete LIDAR coverage of the land portion of Haiti available in their database. SEMANAH likewise has the US Navy LIDAR data collected after the earthquake in 2010. These two datasets could be brought together and compared as part of a nationwide shoreline study project. This project could be worked jointly between the two organizations to complete it in a timely manner.

The Haiti CNIGS organization can be found online at the following web address:

<https://www.cnigs.ht/>



### Findings

In September 2014, the IHO Secretariat sent a letter to SEMANAH, asking them to provide a status report regarding how the CB training received so far had been used, and in particular how the recommendations from the previous IHO technical visits had been implemented.

The table below lists Haiti's attendance at workshops and courses, funded through IHO and IMO capacity building programmes.

Year	Type	Event	Where	Who
2009	Technical Workshop	Hydrographic and Cartographic Training for MACHC	Venezuela	Francois Mitton
2010	Training Course	2-weeks Regional Training Course on basic ENC and ENC Production in joint cooperation with IMO	Jamaica	Francois Mitton
2011	Training Course	Support Training for Haiti	Haiti	Marie Yvrose Jean
2011	Training Course	Support Training for Haiti	Haiti	Azad Belfort
2011	Training Course	Support Training for Haiti	Haiti	Serge Mitton
2011	Training Course	Support Training for Haiti	Haiti	Ronald Laforest
2011	Training Course	Support Training for Haiti	Haiti	Georges Daniel
2011	Training Course	Support Training for Haiti	Haiti	Adam Kesly Auguste
2011	Training Course	Support Training for Haiti	Haiti	Gérard Metayer
2011	Training Course	Support Training for Haiti	Haiti	Ronald Jabouin
2011	Training Course	Support Training for Haiti	Haiti	Getho Bazelais
2011	Training Course	Support Training for Haiti	Haiti	Marc Harry Phanord
2011	Training Course	Support Training for Haiti	Haiti	Erold Champagne
2011	Training Course	Support Training for Haiti	Haiti	Francisque Bernardin
2011	Training Course	Support Training for Haiti	Haiti	Fortuné E. Bens Dalge
2011	Training Course	Support Training for Haiti	Haiti	Jean-Louis Silencieux
2011	Training Course	Support Training for Haiti	Haiti	Eston Pierre
2011	Training Course	Support Training for Haiti	Haiti	Samuel Genea
2011	Training Course	Support Training for Haiti	Haiti	Junior Charles
2011	Training Course	Support Training for Haiti	Haiti	Daniel Simonvil
2012	Training Course	2-weeks Regional Training Course on Basic ENC and ENC Production	Mexico	Getho Bazelais
2014	Course	Category A Hydrography Course	Brazil	Matthieu Polyte Frenold Cheristin
2014	Seminar	MACHC Seminar on Raising Awareness of Hydrography	Mexico	Serge Mitton
2015	Seminar	MACHC Seminar on Raising Awareness of Hydrography	Antigua	Matthieu Polyte
2016	Seminar	MACHC Seminar on Raising Awareness of Hydrography	Brazil	Serge Mitton

Correlated subjects (mapping/charting) falls under different ministries. There is an urgent need to establish discussions between organizations to do joint work, avoiding duplicated efforts.

There is no legislation establishing an official repository for hydrographic data collected. SEMANAH would be the likely candidate to do that for Haiti (CNIGS plays the role for land).

There is an excellent environment for cooperation among Institutions (SEMANAH – Gd°C – APN – CNIGS).

The Government was made aware about the importance of hydrography and also about the importance and advantages of being a Member State of IHO. Government and Institutions related to hydrography are committed to do efforts in the direction of Haiti joining the IHO.

Haiti is interested in designing and conducting a project to support Tsunami Evacuation Routes development

from the low-lying areas of their coastal zone and also in development of a Maritime Training Center.

Despite having a boat and possible cooperation with Haiti Gd'C to use their boats, SEMANAH has no hydrographic capability, as there is no hydrographic equipment currently available for their hydrographers.

## Conclusions

The fact that the Government of Haiti has made Haiti's maritime development one of their priorities is clearly a positive sign. SEMANAH should take this opportunity to consolidate a long-term capacity-building project and, in line with its partners (CNIGS, APN, Gd'C) to start implementing it with respect of the principles outlined in IHO's Capacity Building Strategy.

The Visiting Team has already identified key areas of improvement that should be addressed straight away by Haitian Authorities: Maritime Safety Information, and Maritime Geospatial data management. In the meantime, Haiti should take advantage of the dynamic created by the visit of this IHO delegation to finalize the IHO membership application by submitting their Letter of Accession to Monaco.

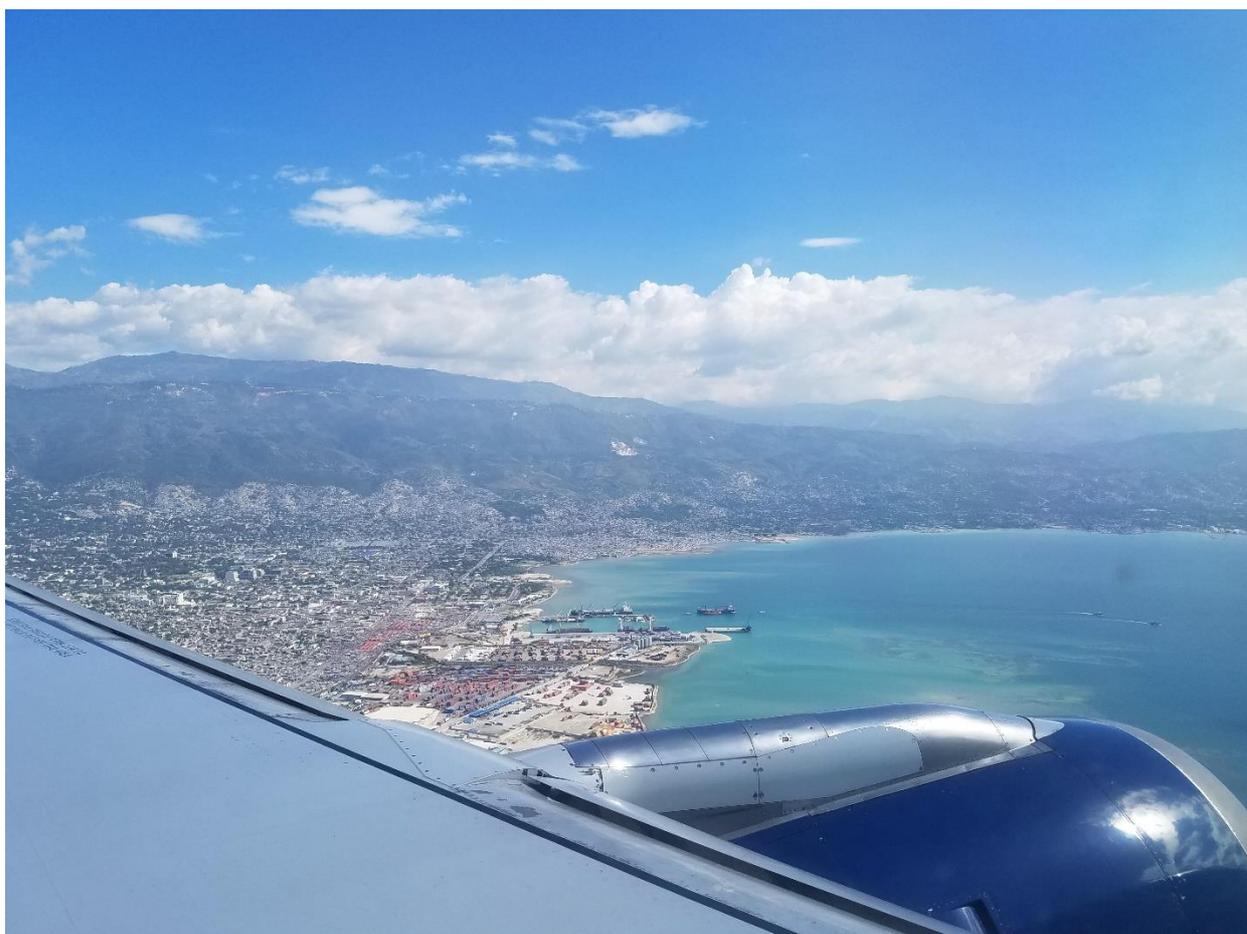
Haiti authorities should focus on building based on the long-term roadmap to develop a national hydrographic capability and expertise. This roadmap will focus and prioritize the various maritime organizations efforts in building a fully functional hydrographic capability and expertise. The roadmap would establish logical timelines for taking advantage of training opportunities and also provisioning things like survey equipment. This roadmap provides for a measured step-by-step plan from which the Haiti authorities can set goals for the development of their national hydrographic capability.

## Recommendations

Based on the discussions held and from the information provided, the relevant Haiti authorities should consider the following actions:

- a. **The Government of Haiti** to submit the Letter of Accession to formally join the IHO as a full member. Additionally, they should establish the mechanism to pay the IHO Dues of 8,000€ annually calculated based on Haiti's ship tonnage.
- b. **The Government of Haiti** to form a National Hydrographic Committee to coordinate national hydrographic requirements. This committee should include representation from all stakeholder groups, including but not limited to: SEMANAH, APN, the *Gardes-Côtes d'Haiti*, CNIGS, the Ministry of Tourism, the ministry of Foreign Affairs, the Ministry of Economy, etc.
- c. **The Government of Haiti** to enact a law establishing a national authority as the repository for all hydrographic information and maritime geospatial data collected in Haiti Waters. This legislation could also include language guidance requiring a centralized authorization process for conducting hydrographic surveys to reduce redundancy of survey operations by the various organizations and to ensure that hydrographic surveys are done according to international Standards.
- d. **The Government of Haiti** to make SEMANAH the reference service regarding maritime geospatial information, in line with what has previously been done with CNIGS for land geospatial information. SEMANAH currently serves as the service responsible for Maritime Safety Information (MSI) in Haiti. Based on that MSI responsibility they are the logical service to support maritime geospatial information.
- e. **SEMANAH** to establish a Point of Contact (PoC) to work together with CNIGS in order to verify existent hydrographic data, develop a hydrographic database, and identify needs to turn SEMANAH into the national repository of this kind of data, to play the same role CNIGS plays in land subjects.
- f. **SEMANAH** to instruct the skilled employees graduated from the Cat A Hydrography Course to develop a project identifying areas, by using GIS, that need Hydrographic survey on the Haitian coast (age of data + AIS traffic + nautical charts basemaps). Mentoring from IHO and BR/FR/US is available. To support this project SEMANAH needs to assign their Cat A trained Hydrographers the following tasks:
  1. Review all charts covering Haitian waters to assess their overall hydrographic status (in line

- with C-55's survey status), using GIS technology / expertise / tools that can be transferred / shared from CNIGS.
2. Liaise with ESRI and discuss ways to retrieve their maritime database of Haitian Waters (MACHC Meeting discussion).
  3. Liaise with CNIGS to publish maritime geospatial dataset on Haiti's geonode web platform [haitidata.org](http://haitidata.org) (World bank funded platform).
  4. Based on the results of their C-55 survey status project, develop a national hydrographic programme under the aegis of their future national hydrographic committee.
- g. **SEMANAHA** needs to consolidate the use of hydrographic capabilities to reach a national goal in developing the blue economy and fostering protection of the maritime environment. This effort should be worked in conjunction with the SEMANAHA roadmap that was previously put together for the long-term development of the organization and their hydrographic capability in Haiti.
- h. **SEMANAHA** to continue building a MSI section within their organization to better support their IHO Capacity Building Phase 1 responsibilities. They should continue disseminating Navigational Warnings referring to its jurisdictional waters through the NAVAREA IV Coordinator (NGA/USA). Four warnings were sent in 2017 and are currently in force.
- i. **SEMANAHA** to coordinate with Gd'C to establish possible joint operations for a future hydrographic survey based on the newly determined hydrographic survey priorities from the GIS project.



**MINISTERE DES TRAVAUX PUBLICS, TRANSPORTS ET  
COMMUNICATIONS**

**MTPTC**

	<p><b>IHO VISIT</b> June 19-23<sup>th</sup> 2017</p>	
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**Provisional Agenda**

<b>Monday 19<sup>th</sup></b>	Arrival of the delegation	Welcome at the airport. Transportation to the hotel
<b>Tuesday 20<sup>th</sup></b>		
9 :00 – 10 :30	<b>SEMAMAH</b>	SEMAMAH and the IHO Presentation
10 :30-12 :00	<b>MTPTC</b>	Work Session
12 :00 -13 :30	Lunch	
14 :00 -16 :00	<b>APN (Port Authority)</b>	Visit of places – Work Session
<b>Wednesday 21<sup>th</sup></b>		
10 :00 -11 :30	<b>Prime Minister Office or Defense Ministry</b>	Work Session
11:30-13 :30	Lunch	
14 :00-15:30	<b>Haitian Coast-Guard</b>	Visit of places – Work Session
<b>Thursday 22<sup>th</sup></b>		
9 :00-10:30	<b>SEMAMAH</b>	Work Session on cooperation SEMAMAH - NGA, DHN & SHOM
11 :00-12:00	<b>Presidency Office</b>	Work Session
12:00-13:30	Lunch	
14 :00-16 :00	<b>Parliament</b>	Work Session
<b>Friday 23<sup>th</sup></b>	Departure of the delegation	Farewell at the airport

**List of Contacts**

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IHO	Hydrographer	Eric Langlois	<a href="mailto:dmi-rex-d@shom.fr">dmi-rex-d@shom.fr</a>

## IHO Year Book Template

<b>IHO/OHI Yearbook/Annuaire/Anuario</b>	
Country name / nom du pays	Haiti / Haïti
Agency name / nom d'agence:	
<b>Contact information/ Informations de contact / Información de contacto</b>	
-National Hydrographer or equivalent -Directeur du service hydrographique ou équivalent -Director del Servicio Hidrográfico o equivalente	Post: Director General Name: Mr Dieudonne BRUNO Postal address: 2 rue Toussaint Louverture - Delmas 31 , PORT-AUPRINCE, Haiti Tel: +509 31702024 and +509 28192121 Fax: Email: dieudonnebruno51@gmail.com / semanahaiti@gmail.com
-Head of the Hydrographic Office (if different from the person indicated above) -Directeur du Service Hydrographique (si différent de la personne indiquée ci-dessus) -Director del Servicio Hidrográfico (si diferente de la persona indicada anteriormente)	Post: Name: Postal address: Tel: Fax: Email:
-Other point(s) of contact -Autre(s) point(s) de contact -Otros punto(s) de contacto	Directeur de l'Hydrographie et de l'Océanographie (SEMANAH/DHO), Mr Serge MITTON Tel: :+509 34410917 E-mail: s_mitton@hotmail.com  Chef de Cabinet (SEMANAH/CAB), Mr Dede WILBERT E-mail: wilbertdede@yahoo.fr  Directeur de la Sécurité Maritime (SEMANAH/DSM), Mr Ronald JABOUIN E-mail: ronjabouin13@hotmail.com
-Web site -site web -sitio web	
<b>Country information / Informations sur le pays/ Información sobre el país</b>	
-Declared National Tonnage -Tonnage national déclaré -Tonelaje Nacional Declarado	Tonnage: 6000 Date: 2008
-National day -Fête nationale -Fiesta nacional	
-Date of establishment and Relevant National Legislation -Date de mise en place et	Organic Law of 5 March 1982 establishing the SEMANAH.

législation nationale pertinente -Fecha de constitución y legislación nacional pertinente	
-Date first joined IHO -Date d'adhésion à l'OHI -Fecha de adhesión a la OHI	
-Date ratification Convention -Date de ratification de la Convention -Fecha de ratificación de la Convención	
-Remarks on membership -Remarques sur l'adhésion -Comentarios sobre la adhesión	
<b>Agency information/ Information sur l'agence/ Información sobre la agencia</b>	
-Top level parent organisation -Organisme mère -Organización asociada de nivel superior	Ministère des Travaux Publics, Transport et Télécommunication M. Franz Joseph, Membre du Cabinet du Ministre Email: gjgroupe@gmail.com
-Principal functions of the organisation or the department -Attribution principales de l'organisme ou du département -Principales funciones de la Organización o departamento	
-Annual operating budget -Budget annuel -presupuesto anual	Budget 2016-2017: 143 millions de Gourdes
-Total number of staff employed -Effectifs totaux -Número total de personal empleado	284
-Number of INT charts published -Nombres de cartes INT publiées -Número de cartas INT publicadas	
-Total number of paper charts published -Nombre total de cartes papier publiées -Número total de cartas de papel publicadas	
-Number of ENC cells published -Nombres de cellules ENC publiées	

-Número de células ENC publicadas			
-Number of Other charts -Nombre d'Autres cartes -Número de Otras cartas			
-Type of publications produced -Type d'ouvrages produits -Tipo de publicaciones producidas			
-Detail of surveying vessels/ aircraft -Détail des bâtiments hydrographiques / aéronefs -Detalle de los buques hidrográficos / aeronaves	-Name -Nom -Nombre	-Displacement -Déplacement - Desplazamiento	-Date Launched -Date de mise en service -Fecha de botado
-Other information of interest -Autres informations utiles -Otra información de interés	<p>M. Fritz ADRIEN - Chef de cabinet du Premier Ministre</p> <p>M. Désiré JASMIN - Conseillère Affaires Juridiques auprès du Premier Ministre (Primature) Email: naed.jasmin@primature.ht Tel: +503 34484465</p> <p>M. Boby Emmanuel PIARD - Directeur général du Centre National de l'Information Géospatiale (CNIGS) Email: bepiard@cnigs.ht / bepiard@yahoo.fr Tel: +509 2813 0412 / 2813 0596 Mob: +509 3822 8580</p>		
<p>In Haiti there is not yet an established Hydrographic Service. The Haiti Maritime and Navigation Service (SEMANAH), which comes under the Ministry of Public Works, Transport and Communications (MTPTC), is responsible for: Maritime administration, Maritime safety, Maritime training, Lighthouse services, Meteorological information, Inspection and registration of ships, Application of safety regulations for navigation in Haitian waters.</p> <p>The National Ports Authority (APN) is responsible for the control, administration and management of ports in the Republic of Haiti. It is part of the Ministry of Economy and Finance (MEF).</p> <p>The Haitian Coast Guard which is under the Ministry of Justice and Public Safety as part of the National Police Support Maritime Laws' Environment and contributes to SAR Operations.</p> <p>The Fisheries Service is part of the Ministry of Agriculture, Natural Resources and Rural Development (MARNDR).</p>			

**Organization of a National Hydrographic Committee**

**EXAMPLE**

**CONSIDERING**

That by (*Decree or Law etc*) XX of 19XX the (*name that corresponds*) is established, with the responsibility for producing (*all hydrographic surveying or nautical cartography or Maritime Safety etc....*)

That by (*Decree or Law etc*) XX of 19XX the Service (*name that corresponds*) is established with the principal mission to protect the sovereignty in the marine areas of (*Name of the Country*) and to ensure that the maritime laws in territorial and international waters are properly respected in accordance with the Marine Conventions and Treaties in force.

That the SOLAS Convention of the International Maritime Organization stipulates in its Rule 9, that Contracting Governments undertake to co-operate in carrying out, as far as possible, the following nautical and hydrographic services in accordance with the resolutions and recommendations of the International Hydrographic Organization

That, in addition to SOLAS Rule 9, Resolution N° A.958(23) of the International Maritime Organization Assembly invites Contracting Governments to establish hydrographic offices where they do not exist, in consultation with IHO

That Resolution A/RES/58/240 2003 of the United Nations Assembly, based on the UNICPOLOS recommendation, encourages intensified efforts to build capacity for developing countries to improve hydrographic services and production of nautical charts

That the International Hydrographic Organization supports the initiatives for the establishment and creation of the above-mentioned Committee and undertakes to offer technical support for the implementation of the programmes of the Committee.

**IT IS RESOLVED**

**FIRST** To establish the HYDROGRAPHIC AND OCEANOGRAPHIC COMMITTEE OF (*Name of the country*), formed by the following institutions:

1. xxxxxxxxxxxxxxxx
2. xxxxxxxxxxxxxxxx
3. xxxxxxxxxxxxxxxx
4. xxxxxxxxxxxxxxxx.

**SECOND:** Each institution member of the Commission will nominate a representative. These delegates will be elected within one month following the signature of the present Agreement.

**THIRD:** The Committee will elect its Chairperson and Vice-Chairperson, with a term that will be decided. A technical coordination meeting will be held annually.

**FOURTH:** Other public institutions stating in written their interest to participate and collaborate in the objectives of the Committee may join it. Their membership will be decided by agreement of the Committee members.

**FIFTH:** The Commission will be responsible for:

- a) developing the National Cartographic Scheme and for monitoring its execution and update.
- b) coordinating and planning the necessary hydrographic surveys for the development of this cartographic scheme.
- c) identifying and recommending the necessary action with respect to training of the staff and purchase of equipment for the execution of the programmes.
- d) coordinating the development of the national maritime safety.
- e) submitting an annual report to the parent organizations.

**SIXTH:** This Agreement will enter into force on the date of its signature.

xxxx of xxxx of 20xx

**Signature of the relevant authorities**

# TERMS OF REFERENCE FOR THE NATIONAL HYDROGRAPHIC COMMITTEE OF “ANYWHERE”

## INTRODUCTION

**Anywhere** recognises its obligations under SOLAS V/4&9 to make arrangements for the following hydrographic services:

- a. The timely collection and promulgation of urgent navigational safety information through navigational warnings (using MSI/GMDSS arrangements) and notices to mariners.
- b. The conduct of hydrographic surveys which are adequate to meet the requirements of safe navigation.
- c. The publication of nautical charts and associated publications.

## ROLE

The role of the National Hydrographic Committee is to assist the [appropriate Maritime Administration or Authority] to develop Anywhere’s policy and plans for the delivery of these hydrographic services.

## SECRETARIAT

[A department or authority with appropriate insight] will provide the secretariat for the NHC.

## MEMBERS

The following departments and authorities will provide representatives to attend the NHC:

- a. Ministry of Transport.
- b. Maritime Authority.
- c. Port Authority.
- d. Defence Force.
- e. Surveys Department.
- f. Fisheries Department.
- g. .....

## FREQUENCY

The committee will meet three times in a year, and for special purposes as deemed necessary.

## FUNCTIONS

To develop **Anywhere’s** policy for the delivery of hydrographic services, taking into account the requirements of all sectors of the maritime community.

To determine inter-departmental responsibilities, [including budgetary provision].

To review **Anywhere's** entry in the IHO S-55 data-base.

To review the arrangements for MSI:

- passage of information to ---HO for charting action;
- passage of information to NAVAREA ---;
- Local and Coastal Navigational Warnings;
- GMDSS/NAVTEX.

To assist in the development of a prioritised national survey plan.

To review arrangements with ---HO for the publication of charts and associated publications covering **Anywhere's** waters.

To make arrangements for **Anywhere's** representation at [the Regional Hydrographic Commission], including the preparation of the national report.

**TEXTE-TYPE POUR LE DEPOT DE L'INSTRUMENT D'APPROBATION DU PROTOCOLE VISANT A MODIFIER LA CONVENTION RELATIVE A L'OHI**

Le Secrétaire d'Etat aux / Ministre des Affaires étrangères de \_\_\_\_\_ présente ses compliments au Ministre d'Etat de la principauté de Monaco et a l'honneur de déclarer que le gouvernement de \_\_\_\_\_ approuve le protocole de 2005 visant à modifier la Convention relative à l'Organisation hydrographique internationale.

Le Secrétaire d'Etat aux / Ministre des Affaires étrangères de \_\_\_\_\_ serait reconnaissant si le Ministre d'Etat de la principauté de Monaco pouvait informer les Etats membres de l'Organisation hydrographique internationale de cette approbation.

En remerciant le Ministre d'Etat de Monaco, le Secrétaire d'Etat aux / Ministre des Affaires étrangères de \_\_\_\_\_ saisit cette occasion pour lui renouveler l'assurance de sa très haute considération.

**SAMPLE TEXT FOR DEPOSITING INSTRUMENT OF APPROVAL OF THE PROTOCOL OF AMENDMENTS TO THE CONVENTION ON THE IHO**

The Secretary of State / Minister for Foreign Affairs of \_\_\_\_\_ presents his compliments to the Minister of State of the Principality of Monaco and has the honour to declare that the Government of \_\_\_\_\_ approves the 2005 Protocol of Amendments to the Convention on the International Hydrographic Organization.

The Secretary of State / Minister for Foreign Affairs of \_\_\_\_\_ would be grateful if the Minister of State of the Principality of Monaco could inform the Member States of the International Hydrographic Organization of this approval.

In thanking the Minister of State of the Principality of Monaco, the Secretary of State / Minister for Foreign Affairs of \_\_\_\_\_ avails himself of this opportunity to renew to him the assurance of his highest consideration.