



INTERNATIONAL HYDROGRAPHIC ORGANIZATION  
MESO AMERICAN & CARIBBEAN SEA HYDROGRAPHIC COMMISSION



MACHC Letter 04 / 2010  
22 January 2010

To:  
Mr. Janis Krastins <Janis.Krastins@lhd.lv>  
Chair of the IHO Capacity Building Sub Committee

Subject: **MACHC Capacity Building Projects**

Reference: IHO CBSC Procedure 1

Dear Mr. Janis Krastins,

1. The Meso American and Caribbean Sea Hydrographic Commission, at its last meeting (Nov 2009, Bridgetown, Barbados), considering the IHO CBSC guidelines, approved a Capacity Building Plan which follows as Annex **A** to this letter. As may be seen, the MACHC CB Plan considers the IHO Objectives and Strategic Directions, and peculiarities of MACHC region. Therefore, the deriving projects focus on to achieve these foundations and are not simple requirements or desirable events.

2. Accordingly the referred procedures, I submit to IHO CBSC seven projects to be carry out during 2011 and 2012, which may be find enclosed to this letter as Annex **B**.

In this opportunity, in the name of all MACHC Members, I thank IHO CBSC for the continuous support to this Regional Hydrographic Commission and say that I'm at yours and the CBSC disposal for further required information.

LUIZ FERNANDO PALMER FONSECA  
Vice Admiral (Brazil)

Brazilian Director of Hydrography and Navigation - MACHC Chair

Copy:  
MACHC Member States  
IHB, Att. Capt Federico Bermejo <fbermejo@ihb.mc>

Annexes:  
A) MACHC Capacity Building Plan  
B) 7 (seven) CB Projects

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DIRETORIA DE HIDROGRAFIA E NAVEGAÇÃO, Rua Barão de Jaceguay, S/Nº, Ponta da Armação – Centro, CEP 24048-900 - Niterói, RJ, Tel. (+55 21) 2189-3014 - e-mail: <int.rel@mar.mar.mil.br>

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Note: To improve the Commission's effectiveness, this letter is provided only by e-mail.

Annex A: MACHC Capacity Building Plan

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**INTERNATIONAL HYDROGRAPHIC ORGANIZATION  
MESO AMERICAN & CARIBBEAN SEA HYDROGRAPHIC COMMISSION**



**CAPACITY BUILDING PLAN**  
Programme document for the period 2010-2012

1. INTRODUCTION

1.1. Rationale

It is estimated that over 30% of the world's crude oil passes through the Caribbean which is also home to over 50% of the world's cruise shipping during the North hemisphere winter. In addition, the Caribbean endures a hurricane season from June to November; the storms can and do leave a trail of devastation on the islands and their coasts. For these reasons, it is crucial that SOLAS Contracting Governments collect and disseminate all nautical information necessary for safe navigation, undertake hydrographic surveys as and when required, and arrange for the compilation and publication of hydrographic data.

The 4<sup>th</sup> Extraordinary International Hydrographic Conference held in Monaco 2-4 June 2009 approved the following Strategic Directions:

**Facilitate global coverage and use of official hydrographic data, products and services**

The IHO will strive to achieve global coverage and availability of high quality official hydrographic data, information, products and services necessary for safety of navigation at sea and for non-navigational uses, e.g. by means of the developing spatial data infrastructure, through:

- coordinating effectively Member State activities for the provision of coherent, standardized and well coordinated hydrographic services, in accordance with regulation 9, of Chapter V of the SOLAS Convention;
- enhancing and supporting cooperation on hydrographic activities among States on a regional basis under the aegis of the Regional Hydrographic Commissions;
- expanding membership of the IHO;
- encouraging and supporting the establishment of new Hydrographic Offices;
- encouraging and supporting the development and promotion of integrated navigation systems and geospatial data infrastructures;
- promoting the use of new technologies and the opportunities offered by globalization and international cooperation.

**Raise global awareness of the importance of hydrography**

The IHO will champion the awareness at national, regional and global levels of the importance and benefits of hydrography and the provision of hydrographic services for all marine activities, through:

- ensuring that the role and responsibilities of national Hydrographic Offices are clearly understood at all levels in the marine and public communities;
- supporting and promoting the benefits of national Hydrographic Offices and hydrographic programmes;
- bringing the importance of hydrography on issues affecting safety of navigation at sea, protection of the marine environment, maritime security and economic development to the attention of International Organizations, funding agencies, national governments, maritime stakeholders and others;
- preparing and promoting education and outreach programmes which involve fostering a well informed citizenry and creation of a public awareness of the

importance of hydrography and its role in daily life.

The Strategic Paper of the IHO Capacity Building Sub-Committee classifies Hydrographic Services into three types:

- those which are in Phase 1: Collection and circulation of nautical information, necessary to maintain existing charts and publications up to date;
- those which are in Phase 2: Creation of a surveying capability to conduct coastal and offshore projects; and
- those which are in Phase 3: Produce charts and publications independently.

Rapidly evolving technology has made a considerable impact on navigational techniques and demands continuous investment in education and training so that the Hydrographic Services can continue to provide high quality products and services to satisfy new demands of the maritime community.

MACHC is determined to provide suitable products and services to the international maritime community to contribute to the safety and security of navigation and safety of life at sea as well as the protection of the marine environment in its Region and, as part of the IHO community, to meet the objectives and directions of the Organization.

## 1.2. Long term aims and objectives

The aims of the Plan are:

- a) to train officers, at various levels, at least to ensure a much needed capability on hydrography and nautical cartography, particularly after natural disaster or other incidents which could affect water depths in harbors and approaches; and
- b) to comply with the IHO resolutions and guidelines regarding hydrographic and nautical cartography activities.

The long term objectives of this Plan are:

- a) to instruct officers in the region to understand the importance of, and disseminate MSI, to carry out or manage hydrographic surveys, and the principles used to scheme nautical charts;
- b) to promote the establishment of Hydrographic Services (HS) in developing nations and enhance the capability of those nations with established services.

## 1.3. Priorities

Despite the gamut of need existing in the Region, for the period of 2010 to 2012, priorities should be set in the sequence of the following list, the first of which are the highest:

- activities which may promote the establishment of HS;
- activities which may improve the capacity of existing HS in Phase 1;
- activities which may concur with the IHO commitment with ENC “adequate coverage”;
- activities which may improve the capacity of existing HS in Phase 2; and
- activities which may improve the capacity of existing HS in Phase 3.

The current hydrographic capacity status of Countries / Territories of the Region is in Annex **A**.

## 1.4. Methodology and Procedures

This Plan should be reviewed each year, and adjustments made as necessary.

Each year the Commission will decide responsibilities for the programmed events of the subsequent year.

The nominated events coordinators will send to the Chair, no later than January 31<sup>st</sup> of each year the detailed event project. The projects must be written in the standards established by the IHO CBSC (see Annex **B**).

Projects supported by IHO CB Fund must follow the IHO CBSC procedures published at the IHO website.

The Chair will check the proposed projects and, if requesting IHO CB Fund support, will send them to the IHO CBSC Chair and Secretary no later than MARCH 15<sup>th</sup>, otherwise, will take the appropriate action.

**2. Activities**

	<b>Activity</b>	<b>Expected output</b>	<b>Objectives</b>
2.1.	<u>Technical visits Type 1</u> Visit to government high authorities	To mobilise high governmental authorities to give importance to hydrographic activities.	To <b>establish</b> a Hydrographic Service in those countries where there was no responsible organ for hydrography activities.
2.2.	<u>Technical visits Type 2</u> Visit to maritime / port authorities	To mobilize 2 <sup>nd</sup> and 3 <sup>rd</sup> staff governmental authorities to develop hydrographic activities.	To <b>establish</b> a Phase 1 Hydrographic Service.
2.3.	<u>MSI Type 1</u> Training on establishment of MSI structure and basic MSI procedures.	To establish a core group of trained persons to deal with MSI.	To <b>establish</b> capacity in MSI so that Maritime Authorities can provide high quality services to comply with the <b>basic</b> requirements for safety of navigation in the area.
2.4.	<u>MSI Type 2</u> Training on update MSI procedures and organizational management.	To improve the skills of a group of professionals in MSI	To <b>improve</b> management capacity on MSI and to promote mutual assistance in the region.
2.5.	<u>Hydrography Type 1</u> Training on the establishment of a hydrography sector and basic hydrographic theory (single beam).	To train a group of professionals in the basics of hydrography theory and management for hiring hydrographic services.	To <b>establish</b> capacity in the mentioned fields so that Maritime authorities can provide the necessary quality products and services to comply with the <b>basic</b> requirements for safety of navigation in the area.
2.6.	<u>Hydrography Type 2</u> Training on basic hydrographic practice (single beam) and data processing.	To train a group of professionals in the basics of hydrography to be capable to produce basic hydrographic services.	To <b>establish</b> capacity in the mentioned fields so that Maritime authorities can provide <b>high quality</b> products and services to comply with the requirements for safety of navigation in the area.
2.7.	<u>Hydrography Type 3</u> Training on advanced hydrographic practice (multibeam, acquisition and processing) and management skills.	To train a group of professionals in advanced hydrography to be capable to produce advanced hydrographic services	To <b>improve</b> the capacity in the mentioned fields so that Maritime authorities can provide <b>high quality</b> products and services for

	Activity	Expected output	Objectives
		(multibeam).	safety of navigation in the area.
2.8.	<u>Cartography Type 1</u> Training on basic nautical cartography (paper chart production).	To train a group of professionals in basic of nautical cartography to be capable to produce basic cartographic documents.	To provide the elements necessary to the <b>progress</b> in the provision of standardized products and services to comply with the request of safety of navigation and international conventions signed.
2.9.	<u>Cartography Type 2</u> Training on advanced nautical cartography (digital charts).	To train a group of professionals in basic techniques of electronic navigational charting.	To provide the elements necessary to the <b>progress</b> in the provision of standardized products and services to comply with the request of safety of navigation and international conventions signed.
2.10.	<u>Cartography Type 3</u> Training on nautical chart production using the Hydrographic Production Database (HPD)	To train a group of professionals in advanced techniques of electronic navigational charting.	To provide the elements necessary to the <b>progress</b> in the provision of standardized products and services to comply, in a high level, with the request of safety of navigation and international conventions signed.

### 3. Capacity Building Program

The program of capacity building activities for the period 2011 – 2012 is detailed in Annex C.

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**Annex A to CB Plan****MACHC Counties / Territories Capacity Building Phase Stage**Reference: [http://www.iho-ohi.net/mtg\\_docs/CB/CBA\\_TechnicalVisits.htm](http://www.iho-ohi.net/mtg_docs/CB/CBA_TechnicalVisits.htm)

	<b>Country / Territory</b>	<b>CB Phase*</b>	<b>Last TV</b>	<b>Obs.</b>
1	Antigua & Barbuda	0	2006	Phase 3 provided by UKHO
2	Bahamas	0	2006	Phase 3 provided by UKHO
3	Barbados	1	2006	Phase 3 provided by UKHO
4	Belize	0	2006	Phase 1 status unknown Phase 3 provided by UKHO
5	Brazil	3	2008	
6	Colombia	3		
7	Costa Rica	?		
8	Cuba	3		
9	Dominica	?	2006	Phase 3 provided by UKHO
10	Dominican Republic	?		Phase 2 provided by US/UKHO Phase 3 provided by US/UKHO
11	El Salvador	?	2005	Phase 2 provided by US/UKHO Phase 3 provided by US/UKHO
12	France - French Guyana	3		All Phases provided by SHOM
13	France - Guadelupe & Martinica	3		All Phases provided by SHOM
14	Grenada	0	2006	Phase 3 provided by US/UKHO
15	Guatemala	1	2006	Phase 1 status unknown Phase 2 provided by US Phase 3 provided by UKHO
16	Guyana	0		Phase 3 provided by UKHO
17	Haiti	0	2009	Phase 2 provided by US Phase 3 provided by UKHO
18	Honduras	1	2006	Phase 1 status unknown Phase 3 provided by UKHO
19	Jamaica	1	2006	Phase 3 provided by UKHO
20	Mexico	3		
21	Netherlands - Antilles & Aruba (Leeward)			All Phases provided by NHO
22	Netherlands - Antilles (Windward)			All Phases provided by NHO
23	Nicaragua	?	2005	Phase 3 provided by US/UKHO
24	Panama	?	2005	Phase 2 provided by US Phase 3 provided by UKHO
25	St. Kitts & Nevis	1	2006	Phase 3 provided by UKHO
26	St. Lucia	1	2006	Phase 3 provided by UKHO
27	St. Vincent & Grenadines	0	2006	Phase 3 provided by UKHO
28	Suriname	2	2007	Phase 3 provided by NHO
29	Trinidad & Tobago	1	2006	Phase 3 provided by UKHO
30	UK - Anguilla	3	2006	All Phases provided by UKHO
31	UK - British Virgin	?	2006	Phase 3 provided by UKHO
32	UK - Cayman	2	2006	Phase 1 status unknown Phase 3 provided by UKHO

\* Phase 0 indicates no capacity on hydrography

33	UK - Monserrat	3	2006	All Phases provided by UKHO
34	UK - Turks & Caicos	?	2006	Phase 3 provided by UKHO
35	USA - Navassa	?		Phases 2 and 3 provided by US
36	USA - Puerto Rico & US Virgin	?		Phases 2 and 3 provided by US
37	United States of America	3		
38	Venezuela	3	-	



## Annex B to CB Plan

### PROJECT SUBMISSION MODEL

#### IDENTIFICATION

Project Number :

<b>Project Name:</b>	
<b>Submitting RHC/Country:</b>	
<b>Date:</b>	
<b>Institution executing the project:</b>	
<b>Name of responsible:</b>	
<b>Address:</b>	
<b>Telephone:</b>	
<b>Fax:</b>	
<b>e-mail:</b>	

#### GENERAL SPECIFICATIONS

(Please provide detailed information in Annex of no more than three pages)

<b>Background information</b>	
<i>Justification of the project</i>	

<i>Countries involved</i>	
<b>Exposition of the problem</b>	
<b>General objective</b>	
<b>Specific objectives</b>	
<b>Outputs/Products</b>	
<b>Other deliverables</b>	
<b>Achievements and awaited benefits</b>	

<b>Schedule of activities</b>	
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#### RESOURCES

<b>Contribution by countries</b>	
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<b>involved</b>	
<b>Contribution by other parties</b>	
<b>Contribution expected from CBCFund</b>	
<b>Total Cost (euros)</b>	
<b>Breakdown of costs</b>	

<b>From CBC Fund (item and amount)</b>	
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**PROJECT SUMMARY**

<b>Sponsor RHC</b>	<b>Year of Execution</b>	<b>Country/ Countries involved</b>	<b>Priority/ Status</b>	<b>Project Name</b>	<b>Project Objective</b>	<b>Benefits</b>	<b>Assistance required</b>	<b>Cost</b>	<b>Allocation and Priority (to be filled by CBC)</b>	<b>Contact Person</b>

**Name and Signature of the RHC Chairman .....**

**Annex C to CB Plan****Capacity Building Program for the period 2011 – 2012****2011**

<b>Activity</b>	<b>Beneficiaries Countries / Territories</b>	<b>Responsible</b>	<b>Period</b>	<b>Obs.</b>
Technical Visit Type 1	Costa Rica El Salvador Panama	TBD	TBD	
Technical Visit Type 2	Antigua & Barbuda Barbados Grenada St. Kitts & Nevis St. Lucia Trinidad & Tobago	TBD	TBD	All had visits in 2006 – no further action required
MSI Type 1	Antigua & Barbuda British Virgin Islands St Kitts & Nevis Grenada Honduras			
MSI Type 2	NAVAREA Coordinators, MSI providers, and British Virgin Islands, Colombia, Jamaica, Suriname	TBD	TBD	Project already submitted by the SWAtHC including participants of MACHC, SWAtHC, and SEPHC
Hydrography Type 1	Antigua Barbados British Virgin Islands Grenada St Kitts & Nevis			
Hydrography Type 2	Antigua Barbados British Virgin Islands Belize El Salvador Guatemala Grenada Honduras St Kitts & Nevis	TBD	TBD	
Hydrography Type 3	HS in Phase 3, Barbados British Virgin Islands Jamaica Suriname Venezuela	TBD	TBD	Project on “hydrographic database” already submitted by the SWAtHC including participants of MACHC, SWAtHC, and SEPHC
Cartography Type 1	Barbados	TBD	TBD	

	British Virgin Islands Cuba El Salvador Honduras Mexico Suriname St Kitts & Nevis			
Cartography Type 2	Barbados British Virgin Islands Cuba El Salvador Jamaica Honduras Mexico Venezuela St Kitts & Nevis Suriname	TBD	TBD	
Cartography Type 3	Colombia Venezuela	TBD	TBD	

**2012**

<b>Activity</b>	<b>Beneficiaries Countries / Territories</b>	<b>Responsible</b>	<b>Period</b>	<b>Obs.</b>
Technical Visit Type 1	Guyana Antigua & Barbuda Bahamas	TBD	TBD	Antigua & Barbuda and Bahamas had visit in 2006
Technical Visit Type 2	Dominica Dominican Republic Grenada	TBD	TBD	Dominica and Grenada had visit in 2006
MSI Type 1	All HS in Phase 1	TBD	TBD	
Hydrography Type 1	Haiti Jamaica Panama	TBD	TBD	
Hydrography Type 2	3 HS in Phase 2	TBD	TBD	
Cartography Type 1	3 HS in Phase 2			
Cartography Type 2	3 HS in Phase 3	TBD	TBD	
Cartography Type 3	All HS in phase 3	TBD	TBD	

Annex B: 7 (seven) MACHC Capacity Building Projects



## PROJECT SUBMISSION MODEL

### IDENTIFICATION

Project Number :

<b>Project Name:</b>	Technical Visit Type 1 (Visit to Government high authorities)
<b>Submitting RHC/Country:</b>	MACHC (as part of the approved MACHC CB Plan)
<b>Date:</b>	June 2011
<b>Institution executing the project:</b>	IHB
<b>Name of responsible:</b>	Captain Gorziglia
<b>Address:</b>	International Hydrographic Bureau BP 445 MC 98011 Monaco Cedex
<b>Telephone:</b>	+377 93108100
<b>Fax:</b>	+377 93108140
<b>e-mail:</b>	hgorziglia@ihb.mc

### GENERAL SPECIFICATIONS

(Please provide detailed information in Annex of no more than three pages)

<b>Background information</b>	Very limited engagement from Costa Rica and Panama in a) discharging their obligations to SOLAS and b) engaging with the Regional Hydrographic Commission (MACHC) Note El Salvador attended the recent 10 <sup>th</sup> MACHC and became an Associate member but a high level visit is still required
<b>Justification of the project</b>	To improve maritime safety and protection of the marine environment

<b>Countries involved</b>	Costa Rica, El Salvador, Panamá
<b>Exposition of the problem</b>	Little or no contact with these maritime states
<b>General objective</b>	Raise the profile of hydrography in these three states
<b>Specific objectives</b>	1. Technical Advisory and Assessment visit by IHB Director and Professional Assistant 2. Prepare a phased action plan to develop

	the necessary hydrographic infrastructure
<b>Outputs/Products</b>	<ol style="list-style-type: none"><li>1. Report on the status of hydrography and MSI in Costa Rica, El Salvador and Panama</li><li>2. Prioritized phased action plan to meet hydrographic responsibilities</li></ol>
<b>Other deliverables</b>	Nil
<b>Achievements and awaited benefits</b>	Promote in-country hydrographic services and active national coordinator for MSI

<b>Schedule of activities</b>	Request IHB visit to Costa Rica, El Salvador and Panama at earliest opportunity
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### **RESOURCES**

<b>Contribution by countries involved</b>	Nil
<b>Contribution by other parties</b>	IHB and UKHO (tbc)
<b>Contribution expected from CBCFund</b>	5,000 euros per person
<b>Total Cost (euros)</b>	5,000 euros per person
<b>Breakdown of costs</b>	Travel and accommodation = 5k

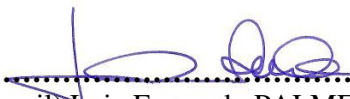
<b>From CBC Fund (item and amount)</b>	
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**PROJECT SUMMARY**

Sponsor RHC	Year of Execution	Country/ Countries involved	Priority/ Status	Project Name	Project Objective	Benefits	Assistance required	Cost	Allocation and Priority (to be filled by CBC)	Contact Person

Name and Signature of the RHC Chairman  .....  
Vice Admiral (Brazil) Luiz Fernando PALMER Fonseca



## PROJECT SUBMISSION MODEL

### IDENTIFICATION

Project Number :

<b>Project Name:</b>	MSI Type 1 (training on establishment of MSI structure and basic MSI procedures)
<b>Submitting RHC/Country:</b>	MACHC (as part of the approved MACHC CB Plan)
<b>Date:</b>	2011
<b>Institution executing the project:</b>	IHB/WWNWS
<b>Name of responsible:</b>	Mr Peter M Doherty
<b>Address:</b>	US NAVAREA Coordinator Maritime Safety Information Division NGA 4600 Sangamore Road Mail Stop D-44 Bethesda Maryland 20816-5003 United States of America
<b>Telephone:</b>	+1 (301) 227 7646
<b>Fax:</b>	+1 (301) 227 3731
<b>e-mail:</b>	Peter.M.Doherty@nga.mil

### GENERAL SPECIFICATIONS

(Please provide detailed information in Annex of no more than three pages)

<b>Background information</b>	MSI awareness has been identified to be lacking in the region
<b>Justification of the project</b>	Regional requirement

<b>Countries involved</b>	Antigua & Barbuda, British Virgin Islands, St Kitts & Nevis, Grenada, Honduras
<b>Exposition of the problem</b>	Majority of countries in the region have no MSI capability although personnel and structures are available
<b>General objective</b>	To establish capacity in MSI so that Maritime Authorities can provide high quality services to comply with the basic requirements for safety of navigation in the area
<b>Specific objectives</b>	Train personnel in accordance with Phase 1 of IHO's capacity building procedures
<b>Outputs/Products</b>	To establish a core group of trained persons to



	deal with MSI
<b>Other deliverables</b>	Supply of information to charting authorities to assist with chart maintenance
<b>Achievements and awaited benefits</b>	Improving maritime safety and compliance with SOLAS

<b>Schedule of activities</b>	3 day course
<b>Past and/or current related projects supported by CBSC or other sources</b>	CPRNW (now WWNWS) Training course for MACHC held in Jamaica in 2007

### **RESOURCES**

<b>Contribution by countries involved</b>	Training facilities to be identified but British Virgin Islands has offered to host
<b>Contribution by other parties</b>	Lecturers provided by WWNWS
<b>Contribution expected from CBCFund</b>	Yes
<b>Total Cost (euros)</b>	7000 euros
<b>Breakdown of costs</b>	4000 euros (Hotel, flights and local expenses for 5 students @ 800 euros each) 3000 euros (Hotel, flights and local expenses for lecturers)

<b>From CBC Fund (item and amount)</b>	
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(Cont. MACHC Letter 04 / 2010 .....).

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**PROJECT SUMMARY**

Sponsor RHC	Year of Execution	Country/ Countries involved	Priority/ Status	Project Name	Project Objective	Benefits	Assistance required	Cost	Allocation and Priority (to be filled by CBC)	Contact Person

Name and Signature of the RHC Chairman .....  
Vice Admiral (Brazil) Luiz Fernando PALMER Fonseca



## PROJECT SUBMISSION MODEL

### IDENTIFICATION

Project Number :

<b>Project Name:</b>	Hydrography Type 1 (training on the establishment of a hydrography sector and basic hydrographic theory (single beam))
<b>Submitting RHC/Country:</b>	MACHC (as part of the approved MACHC CB Plan)
<b>Date:</b>	Early 2011
<b>Institution executing the project:</b>	UKHO
<b>Name of responsible:</b>	J Bryant (Sponsor)
<b>Address:</b>	United Kingdom Hydrographic Office Admiralty Way Taunton TA1 2DN UK
<b>Telephone:</b>	+44 1823 337900 x 3821
<b>Fax:</b>	+44 1823 284077
<b>e-mail:</b>	jeff.bryant@ukho.gov.uk

### GENERAL SPECIFICATIONS

(Please provide detailed information in Annex of no more than three pages)

<b>Background information</b>	There is extremely limited capacity within many MACHC nations to take responsibility for, or effectively contribute to the surveying or management of survey projects of their waters.
<b>Justification of the project</b>	Regional requirement

<b>Countries involved</b>	Antigua & Barbuda, Barbados, British Virgin Islands, Grenada, St Kitts & Nevis
<b>Exposition of the problem</b>	Individual MACHC nations cannot fund appropriate staff to undertake any recognized course
<b>General objective</b>	To establish capacity so that maritime authorities can provide the necessary quality products and services to comply with the basic requirements for safety of navigation in the area
<b>Specific objectives</b>	Train survey operations personnel (or equivalent) in accordance with Phase 2 of IHO's capacity building procedures

<b>Outputs/Products</b>	To train a group of professionals in the basics of hydrography theory and management for hiring hydrographic services
<b>Other deliverables</b>	Improve the supply of survey and related hydrographic information to regional charting authorities
<b>Achievements and awaited benefits</b>	Improved understanding of survey requirements and the operation of basic equipment
<b>Schedule of activities</b>	5 day course

### **RESOURCES**

<b>Contribution by countries involved</b>	Training facilities to be identified. UKHO will provide assistance in organizing and managing the training if required.
<b>Contribution by other parties</b>	UKHO will provide appropriately qualified lecturer(s)
<b>Contribution expected from CBCFund</b>	Yes
<b>Total Cost (euros)</b>	9,200 euros
<b>Breakdown of costs</b>	1300 euros per student to include hotel, flights and local expenses (four in total) 4,000 euros for UKHO trainer (to include hotel, flights and local expenses)
<b>From CBC Fund (item and amount)</b>	

(Cont. MACHC Letter 04 / 2010 .....).

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**PROJECT SUMMARY**

Sponsor RHC	Year of Execution	Country/ Countries involved	Priority/ Status	Project Name	Project Objective	Benefits	Assistance required	Cost	Allocation and Priority (to be filled by CBC)	Contact Person

Name and Signature of the RHC Chairman .....  
Vice Admiral (Brazil) Luiz Fernando PALMER Fonseca



## PROJECT SUBMISSION MODEL

### IDENTIFICATION

Project Number :

<b>Project Name:</b>	Hydrography Type 2 (training on basic hydrographic practice (single beam) and data processing)
<b>Submitting RHC/Country:</b>	MACHC (as part of the approved MACHC CB Plan)
<b>Date:</b>	Late 2011
<b>Institution executing the project:</b>	UKHO
<b>Name of responsible:</b>	J Bryant (Sponsor)
<b>Address:</b>	United Kingdom Hydrographic Office Admiralty Way Taunton TA1 2DN UK
<b>Telephone:</b>	+44 1823 337900 x 3821
<b>Fax:</b>	+44 1823 284077
<b>e-mail:</b>	jeff.bryant@ukho.gov.uk

### GENERAL SPECIFICATIONS

(Please provide detailed information in Annex of no more than three pages)

<b>Background information</b>	There is extremely limited capacity within many MACHC nations to take responsibility for, or effectively contribute to the surveying or management of survey projects of their waters.
<b>Justification of the project</b>	Regional requirement

<b>Countries involved</b>	Antigua & Barbuda, Barbados, British Virgin Islands, Belize, El Salvador, Guatemala, Grenada, Honduras, St Kitts & Nevis
<b>Exposition of the problem</b>	Individual MACHC nations cannot fund appropriate staff to undertake any recognized course
<b>General objective</b>	To establish capacity so that maritime authorities can provide high quality products and services to comply with the requirements for safety navigation in the area
<b>Specific objectives</b>	To train survey operations personnel in accordance with Phase 2 of IHO's Capacity Building procedures

<b>Outputs/Products</b>	To train a group of professionals in the basics of hydrography to be capable of producing basic hydrographic services
<b>Other deliverables</b>	Improve the supply of survey and related hydrographic information to regional charting authorities
<b>Achievements and awaited benefits</b>	Improved understanding of survey requirements and the operation of basic equipment

<b>Schedule of activities</b>	5 day course
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### **RESOURCES**

<b>Contribution by countries involved</b>	Training facilities to be identified. UKHO will provide assistance in organizing and managing the training if required.
<b>Contribution by other parties</b>	UKHO will provide appropriately qualified lecturer(s)
<b>Contribution expected from CBCFund</b>	Yes
<b>Total Cost (euros)</b>	15,700 euros
<b>Breakdown of costs</b>	1300 euros per student to include hotel, flights and local expenses (nine in total) 4,000 euros for UKHO trainer (to include hotel, flights and local expenses)

<b>From CBC Fund (item and amount)</b>	
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(Cont. MACHC Letter 04 / 2010 .....).

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**PROJECT SUMMARY**

Sponsor RHC	Year of Execution	Country/ Countries involved	Priority/ Status	Project Name	Project Objective	Benefits	Assistance required	Cost	Allocation and Priority (to be filled by CBC)	Contact Person

Name and Signature of the RHC Chairman .....  
Vice Admiral (Brazil) Luiz Fernando PALMER Fonseca





## PROJECT SUBMISSION MODEL

### IDENTIFICATION

Project Number :

<b>Project Name:</b>	Technical Visit Type 1 (Visit to Government high authorities)
<b>Submitting RHC/Country:</b>	MACHC (as part of the approved MACHC CB Plan)
<b>Date:</b>	June 2012
<b>Institution executing the project:</b>	IHB
<b>Name of responsible:</b>	Captain Hugo Gorziglia
<b>Address:</b>	International Hydrographic Bureau BP 445 MC 98011 Monaco Cedex
<b>Telephone:</b>	+377 93108100
<b>Fax:</b>	+377 93108140
<b>e-mail:</b>	hgorziglia@ihb.mc

### GENERAL SPECIFICATIONS

(Please provide detailed information in Annex of no more than three pages)

<b>Background information</b>	Very limited engagement from Guyana in a) discharging their obligations to SOLAS and b) engaging with the Regional Hydrographic Commission (MACHC)
<b>Justification of the project</b>	To improve maritime safety and protection of the marine environment

<b>Countries involved</b>	Guyana
<b>Exposition of the problem</b>	Little or no contact with this maritime state
<b>General objective</b>	Raise the profile of hydrography
<b>Specific objectives</b>	3. Technical Advisory and Assessment visit by IHB Director and Professional Assistant 4. Prepare a phased action plan to develop the necessary hydrographic infrastructure
<b>Outputs/Products</b>	3. Report on the status of hydrography and MSI in Guyana 4. Prioritized phased action plan to meet hydrographic responsibilities
<b>Other deliverables</b>	Nil
<b>Achievements and awaited</b>	Promote in-country hydrographic services and

<b>benefits</b>	active national coordinator for MSI
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<b>Schedule of activities</b>	Request IHB visit to Guyana at earliest opportunity
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**RESOURCES**

<b>Contribution by countries involved</b>	Nil
<b>Contribution by other parties</b>	IHB
<b>Contribution expected from CBCFund</b>	5,000 euros per person
<b>Total Cost (euros)</b>	5,000 euros per person ( <b><u>suggest combining with Dominican Republic Type 2 visit to economize on cost</u></b> )
<b>Breakdown of costs</b>	Travel and accommodation = 5k

<b>From CBC Fund (item and amount)</b>	
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(Cont. MACHC Letter 04 / 2010 .....).

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**PROJECT SUMMARY**

Sponsor RHC	Year of Execution	Country/ Countries involved	Priority/ Status	Project Name	Project Objective	Benefits	Assistance required	Cost	Allocation and Priority (to be filled by CBC)	Contact Person

Name and Signature of the RHC Chairman .....  
Vice Admiral (Brazil) Luiz Fernando PALMER Fonseca



## PROJECT SUBMISSION MODEL

### IDENTIFICATION

Project Number :

<b>Project Name:</b>	Technical Visit Type 2 (Visit to maritime/port authorities)
<b>Submitting RHC/Country:</b>	MACHC (as part of the approved MACHC CB Plan)
<b>Date:</b>	June 2012
<b>Institution executing the project:</b>	IHB
<b>Name of responsible:</b>	Captain Hugo Gorziglia
<b>Address:</b>	International Hydrographic Bureau BP 445 MC 98011 Monaco Cedex
<b>Telephone:</b>	+377 93108100
<b>Fax:</b>	+377 93108140
<b>e-mail:</b>	hgorziglia@ihb.mc

### GENERAL SPECIFICATIONS

(Please provide detailed information in Annex of no more than three pages)

<b>Background information</b>	Very limited engagement from Dominican Republic in a) discharging their obligations to SOLAS and b) engaging with the Regional Hydrographic Commission (MACHC)
<b>Justification of the project</b>	To improve maritime safety and protection of the marine environment

<b>Countries involved</b>	Dominican Republic
<b>Exposition of the problem</b>	Little or no contact with this maritime state
<b>General objective</b>	Raise the profile of hydrography
<b>Specific objectives</b>	5. Technical Advisory and Assessment visit by IHB Director and Professional Assistant 6. Prepare a phased action plan to develop the necessary hydrographic infrastructure
<b>Outputs/Products</b>	5. Report on the status of hydrography and MSI in the Dominican Republic 6. Prioritized phased action plan to meet hydrographic responsibilities
<b>Other deliverables</b>	Nil
<b>Achievements and awaited</b>	Promote in-country hydrographic services and

<b>benefits</b>	active national coordinator for MSI
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<b>Schedule of activities</b>	Request IHB visit to Dominican Republic at earliest opportunity
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**RESOURCES**

<b>Contribution by countries involved</b>	Nil
<b>Contribution by other parties</b>	IHB
<b>Contribution expected from CBCFund</b>	5,000 euros per person
<b>Total Cost (euros)</b>	5,000 euros per person ( <b><u>suggest combining with Guyana Type 1 visit to economize on cost</u></b> )
<b>Breakdown of costs</b>	Travel and accommodation = 5k

<b>From CBC Fund (item and amount)</b>	
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(Cont. MACHC Letter 04 / 2010 .....).

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**PROJECT SUMMARY**

Sponsor RHC	Year of Execution	Country/ Countries involved	Priority/ Status	Project Name	Project Objective	Benefits	Assistance required	Cost	Allocation and Priority (to be filled by CBC)	Contact Person

Name and Signature of the RHC Chairman .....  
Vice Admiral (Brazil) Luiz Fernando PALMER Fonseca



## PROJECT SUBMISSION MODEL

### IDENTIFICATION

Project Number :

<b>Project Name:</b>	Hydrography Type 1 (training on the establishment of a hydrography sector and basic hydrographic theory (single beam))
<b>Submitting RHC/Country:</b>	MACHC (as part of the approved MACHC CB Plan)
<b>Date:</b>	Mid 2012
<b>Institution executing the project:</b>	UKHO
<b>Name of responsible:</b>	J Bryant (Sponsor)
<b>Address:</b>	United Kingdom Hydrographic Office Admiralty Way Taunton TA1 2DN UK
<b>Telephone:</b>	+44 1823 337900 x 3821
<b>Fax:</b>	+44 1823 284077
<b>e-mail:</b>	jeff.bryant@ukho.gov.uk

### GENERAL SPECIFICATIONS

(Please provide detailed information in Annex of no more than three pages)

<b>Background information</b>	There is extremely limited capacity within many MACHC nations to take responsibility for, or effectively contribute to the surveying or management of survey projects of their waters.
<b>Justification of the project</b>	Regional requirement

<b>Countries involved</b>	Haiti, Jamaica, Panama
<b>Exposition of the problem</b>	Individual MACHC nations cannot fund appropriate staff to undertake any recognized course
<b>General objective</b>	To establish capacity so that maritime authorities can provide the necessary quality products and services to comply with the basic requirements for safety of navigation in the area
<b>Specific objectives</b>	Train survey operations personnel (or equivalent) in accordance with Phase 2 of IHO's capacity building procedures

<b>Outputs/Products</b>	To train a group of professionals in the basics of hydrography theory and management for hiring hydrographic services
<b>Other deliverables</b>	Improve the supply of survey and related hydrographic information to regional charting authorities
<b>Achievements and awaited benefits</b>	Improved understanding of survey requirements and the operation of basic equipment
<b>Schedule of activities</b>	5 day course

### **RESOURCES**

<b>Contribution by countries involved</b>	Training facilities to be identified. UKHO will provide assistance in organizing and managing the training if required.
<b>Contribution by other parties</b>	UKHO will provide appropriately qualified lecturer(s)
<b>Contribution expected from CBCFund</b>	Yes
<b>Total Cost (euros)</b>	7,900 euros
<b>Breakdown of costs</b>	1300 euros per student to include hotel, flights and local expenses (three in total) 4,000 euros for UKHO trainer (to include hotel, flights and local expenses)
<b>From CBC Fund (item and amount)</b>	



(Cont. MACHC Letter 04 / 2010 .....).

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**PROJECT SUMMARY**

Sponsor RHC	Year of Execution	Country/ Countries involved	Priority/ Status	Project Name	Project Objective	Benefits	Assistance required	Cost	Allocation and Priority (to be filled by CBC)	Contact Person

Name and Signature of the RHC Chairman .....  
Vice Admiral (Brazil) Luiz Fernando PALMER Fonseca