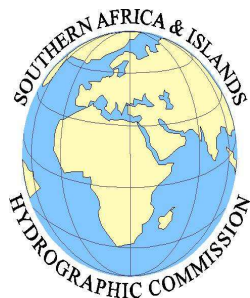


Tel: +27 21 7872412
Fax: +27 21 7872233
Email: hydrosan@iafrica.com



South African Navy
Hydrographic Office
Private Bag X1
Tokai
7966
REPUBLIC OF SOUTH AFRICA
19 March 2012

File ref: FOF/HYD/R/320/19/1

SAIHC Letter No. 1/2012

Mr Thomas Dehling Thomas.dehling@bsh.de
Chair of the IHO Capacity Building Sub Committee

Dear Mr Dehling

Subject: SAIHC Capacity Building Projects

The Southern Africa and Islands Hydrographic Commission at its last meeting (Sept 2011, Walvis Bay, Namibia), with due consideration of the IHO CBSC guidelines, approved a Capacity Building Plan which is enclosed to this letter. The SAIHC CB Plan considers the IHO Objectives and Strategic Directions in conjunction with the peculiarities of the SAIHC region. The derived projects therefore focus on achieving these objectives and are not just desirable events.

In accordance with the referred procedures, I submit to the IHO CBSC six projects to be carried out during 2013.

On behalf of the SAIHC membership, may I express my sincere appreciation to the IHO CBSC for the continued support to this Regional Hydrographic Commission.

Yours sincerely

Chairman Southern Africa & Islands Hydrographic Commission (SAIHC)

Copy:
SAIHC Member States
IHB, Att. Capt Alberto Costa Neves a.neves@ihb.mc

Enclosure 1: SAIHC Capacity Building Plan
2: SAIHC Capacity Building Projects



**INTERNATIONAL HYDROGRAPHIC ORGANIZATION
SOUTHERN AFRICA & ISLANDS HYDROGRAPHIC COMMISSION**



CAPACITY BUILDING PLAN
Programme document for the period 2013-2017

1. INTRODUCTION

1.1. Rationale

The Southern Africa & Islands (SAIHC) region contains three of the world's 64 major large marine ecosystems, the Benguela current, the Agulhas current and the Somali current. Some of the species and habitats of these currents are unique. The main traffic to the west of the region are the routes from ports in NW Africa to the Cape of Good Hope together with the transatlantic routes for traffic between North and South America and the ten ports in this area.

The shipping lanes along the East Africa coast carry over 30% of the world's crude oil supplies. This region contains thirteen important commercial ports serving as hubs for traffic emanating from, and destined for Europe, Asia, the Americas and the east and western coasts of Africa. In addition to the large cargo ships travelling internationally, many smaller boats serving local needs ply the coastal waters and harbours. Oil and gas exploration programmes operating throughout the region bring additional risks.

For these reasons, it is crucial that SOLAS contracting Governments undertake hydrographic surveys as and when required, that they arrange for the compilation and publication of hydrographic data, the dissemination and keeping up to date of all nautical information necessary for safe navigation.

The IHO Capacity Building Strategy classifies the development of hydrographic services into three phases:

- 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 paper charts, ENC and publications independently.

Coastal/maritime states have certain treaty obligations (SOLAS) placed on them and the IHO/SAIHC effort aims at assisting states in meeting these obligations. To achieve this a national understanding and coordination effort is required noting that:

- resources (human, time, finance etc) are limited, consequently prioritization is a fundamental issue;
- planning must be realistic;
- longer term training such as CAT A or B are not covered because such training is out of the scope of the IHO CB budget.

Nowadays, the rapidly evolving technology has replaced old navigation paradigms and demands continuous investments in education and training so that the Hydrographic Services can continue to provide high quality products and services which satisfy new demands of the maritime community.

SAIHC is aware of its Member States' efforts to provide quality service to the international maritime community in order to contribute to the safety and security of navigation and human life at sea as well as the preservation of the environment in its region and, as part of the IHO community, to contribute to the achievement of the objectives and directions of the Organization.

1.2. Aims and objectives

The aims of the Plan are:

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

The medium term objective of this Plan are:

- a) to ensure a basic level of MSI is established in all coastal states to, produce Local/Coastal/NAVAREA Warnings, communicate effectively with the charting authority and implement the MSI elements of GMDSS;

The longer term objectives are:

- a) to instruct staff in the region on the methods of carrying out hydrographic surveys, to improve safety of navigation through enhanced navigational products;
- b) to promote the establishment of Hydrographic Services (HS) and the evolution of CB Phases of the established ones.

1.3. Priorities

Despite the breadth of need existing in the Region, for the period of 2013 to 2017, priorities should be set in the sequence of the following list, the first of which are the highest:

- 0 - activities which may promote awareness of national hydrographic obligations;
- 1 - activities which may improve the capacity of existing HS in Phase 1;
- 2 - activities which may improve the capacity of existing HS in Phase 2; and
- 3 - activities which may improve the capability of existing HS in Phase 3.

Note the link between the training activities listed in paragraph 2. Activities below, and phases 0 to 3 listed above

The current hydrographic capacity status of countries/territories of the region is in Annex **A**.

1.4. Methodology and Procedures

This Plan will 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 SAIHC Capacity Building Coordinator will send to the Chair, no later than January 31st of each year details of all planned projects. 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 15th, otherwise, will take the appropriate action.

2. Activities

Phase	Activity	Project Objective	Target Audience
0.1	<u>Technical visits Type 1</u> High level technical visit to governmental authorities	To raise government awareness of their SOLAS treaty obligations	Related Ministries and Heads of National Agencies, particularly governmental decision makers

Phase	Activity	Project Objective	Target Audience
0.2	<u>Technical visits Type 2</u> Technical assessment and advice visit	Provide advice to identify how coastal states meet their hydrographic and MSI responsibilities	Maritime Sector National Agencies. Stakeholders and decision makers
1.1	<u>MSI Course (3 days)</u> Training on establishment of MSI structure and basic MSI procedures	To establish a core group of trained persons to deal with MSI	MSI Practitioners
1.2	<u>Phase 1 Skills (5 days)</u> An introduction to the assessment and promulgation of navigationally significant data	To provide a core group with the skills and knowledge to assess and promulgate navigationally significant information to the wider maritime community (this course supports the MSI course)	MSI Practitioners
2.1	<u>Basic Hydrographic Survey Course (10 days)</u>	To provide awareness of national hydrography, hydrographic surveying and nautical cartography	Maritime Sector Decision Makers
2.2	<u>Port and Shallow Water Survey Course (5 days)</u>	A workshop to aid exchange of information and ideas about the challenges faced by port and shallow water surveyors in the SAIHC region	Port Surveyors
2.3	<u>MBES Processing (5 days)</u>	To train a group of hydrographic surveyors the techniques required to post-process MBES data	Hydrographic Practitioners
2.4	<u>MSDI and Database Management (5 days)</u>	To give participants an understanding of spatial data infrastructures (SDI) including the importance and role of data management and databases	Government Planners
2.5	<u>Tides and Water Level Workshop (5 days)</u>	To provide fundamental knowledge and understanding of tides and water level, and their applications for hydrographic surveying and mapping activities	Hydrographic Practitioners
2.6	<u>Seabed Classification Workshop (5 days)</u>	To provide a group of professionals with the skill and knowledge to use acoustic techniques to map extensive seabed surfaces and to determine the products of seabed mapping	Hydrographic Practitioners
3.1	<u>Basic ENC and ENC Production course (10 days)</u>	To train a group of professionals with a practical introduction to S-57 data	Cartographic Practitioners
3.2	<u>ENC Production and QA (5 days)</u>	To train a group of professionals to verify and validate S-57 data	Cartographic Practitioners
3.3	<u>Module 1 – Marine Cartography of the CAT B Cartographic Course (5 weeks)</u>	To provide participants delegates with a practical understanding of nautical cartography and the necessary skills to carry out routine nautical cartographic skills	Cartographic Practitioners
3.4	<u>Module 2 – Hydrographic Data Processing of the CAT B</u>	To provide participants with a practical understanding of hydrographic data processing the	Cartographic Practitioners

Phase	Activity	Project Objective	Target Audience
	<u>Cartographic Course (5 weeks)</u>	skills to carry out accurate assessment and an appreciation of the issues surrounding chart maintenance	
3.5	<u>Module 3 – Electronic Navigational Charts (ENC) of the CAT B Cartographic Course (5 weeks)</u>	To provide a group of professionals with the skill and knowledge to produce ENCs	Cartographic Practitioners
3.6	<u>Law of the Sea Workshop (5 days)</u>	To teach participants the basic technical principles applicable to maritime boundary delimitation. The delegates should be from technical hydrographic or cartographic backgrounds	Maritime Sector Decision Makers
3.7	<u>Tsunami inundation mapping workshop (5 days)</u>	To improve the modelling and presentation of regional tsunami inundation maps	Maritime Sector and emergency planning

3. Capacity Building Program

The program of capacity building activities for the period 2013 – 2017 is detailed in Annex **C**.

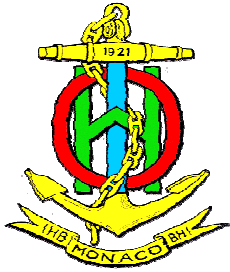
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SAIHC Counties/Territories Capacity Building Phase StageReference: http://www.iho-ohi.net/mtg_docs/CB/CBA_TechnicalVisits.htm

	Country / Territory	CB Phase 0	CB Phase 1	CB Phase 2	CB Phase 3	Last TV
1	Angola				UKHO	2008
2	France		Self	Self	Self	
3	Kenya				UKHO	2010
4	Madagascar				SHOM	2011
5	Malawi				Self	2011
6	Mauritius				UKHO/ India	
7	Mozambique					2007
8	Namibia				RSA	2011
9	Norway		Self	Self	Self	
10	Portugal		Self	Self	Self	
11	Republic of South Africa		Self	Self	Self	
12	Seychelles				UKHO	
13	Tanzania				UKHO	2007
14	United Kingdom		Self	Self	Self	
15	Comoros				SHOM	2011

KEY TO REQUIRED TRAINING ACTIVITY

	Technical visit
	MSI Training and development
	Hydrographic survey training and development
	Cartographic training and development



PROJECT SUBMISSION MODEL

IDENTIFICATION

Project Number :

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

GENERAL SPECIFICATIONS

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

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

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

Schedule of activities	
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RESOURCES

Contribution by countries involved	
Contribution	

by other parties	
Contribution expected from CBCFund	
Total Cost (euros)	
Breakdown of costs	

From CBC Fund (item and amount)	
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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

Annex C to CB Plan
Capacity Building Program for the period 2013 – 2017

2013

Activity	Beneficiaries Countries / Territories	Responsible	Period	Obs.
MSI Course (3 days)	For identified coastal states	SAIHC CB Coordinator		
Basic Hydrographic Survey Course (10 days)	For identified coastal states	SAIHC CB Coordinator		
Law of the Sea Workshop (5 days)	For identified coastal states	SAIHC CB Coordinator		
MSDI and Database Management (5 days)	For identified coastal states	SAIHC CB Coordinator		
Chart Production (on the job training) 10 days	For Portuguese speakers only	SAIHC CB Coordinator		Training venue = Mozambique Training provider = Brazil
Hydrographic Survey (on the job training) 10 days	For Portuguese speakers only	SAIHC CB Coordinator		Training venue = Mozambique Training provider = Brazil

2014

Activity	Beneficiaries Countries / Territories	Responsible	Period	Obs.
Technical and Advisory Visits	Repeat visits to selected coastal states	IHO and SAIHC		
Basic ENC and ENC Production Course (10 days)	For identified coastal states	SAIHC CB Coordinator		

2015

Activity	Beneficiaries Countries / Territories	Responsible	Period	Obs.

MSI Course (3 days)	For identified coastal states	SAIHC CB Coordinator		
Basic Hydrographic Survey Course (10 days)	For identified coastal states	SAIHC CB Coordinator		
MSDI and Database Management (5 days)	For identified coastal states	SAIHC CB Coordinator		

2016

Activity	Beneficiaries Countries / Territories	Responsible	Period	Obs.
Technical and Advisory Visits	Repeat visits to selected coastal states	IHO and SAIHC		
Basic ENC and ENC Production Course (10 days)	For identified coastal states	SAIHC CB Coordinator		

2017

Activity	Beneficiaries Countries / Territories	Responsible	Period	Obs.
MSI Course (3 days)	For identified coastal states	SAIHC CB Coordinator		
Basic Hydrographic Survey Course (10 days)	For identified coastal states	SAIHC CB Coordinator		
Law of the Sea Workshop (5 days)	For identified coastal states	SAIHC CB Coordinator		
MSDI and Database Management (5 days)	For identified coastal states	SAIHC CB Coordinator		



SUBMISSION MODEL

IDENTIFICATION

Project Number :

Project Name:	Chart Production - on the job training
Submitting RHC/Country:	SAIHC / Mozambique
Date:	2013
Institution executing the project:	Instituto Nacional de Hidrografia e Navegação (INAHINA), Mozambique
Name of responsible:	Humberto Raul Mutevuie
Address:	Av Karl Marx No. 153 P.O. Box No. 2089 MAPUTO
Telephone:	+ 258 2 1 430 186/8 – 428 670
Fax:	+ 258 2 1 430 185
e-mail:	hmutevuie@yahoo.com.br mutevuie@inahina.gov.mz

GENERAL SPECIFICATIONS

Background information	<p>There is extremely limited capacity within SAIHC to take responsibility for, or effectively contribute to the nautical charting of their waters. This includes the skills required to critically analyse data for its impact upon maritime safety. An improved level of capability is necessary to raise the profile of nautical charting and knowledge of what to ask for to improve access to data collected for other purposes or by other organizations, but which should be used to improve navigation safety.</p> <p>INAHINA, since 2006 is producing its own nautical paper charts. Technology is updating constantly demanding constant personnel training.</p> <p>Additionally, paper charts are the base for RASTER Charts and ENC, being necessary to optimize the production process.</p>
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<p>Justification of the project</p>	<ul style="list-style-type: none"> – Nautical cartographic skills and the ability to recognize and quantify data for its impact upon charting are essential pre-requisites to SAIHC / Mozambique taking a greater role in charting of their national waters, whether by proactively acquiring and assessing data for an acknowledged charting authority, or for inclusion in nationally produced charts. – INAHINA personnel have, basic, theoretical knowledge. – English language is already a problem (<u>the training will be held in Portuguese</u>). – On the job training provides training to the whole team at a similar cost to one person being trained abroad. – There will no expenditures other than air tickets, accommodation, and food. – The technology evolution demand from the Hydrographic Offices changes to ensure the maintenance of a Paper Chart product in accordance with the maritime community needs. This training would provide technical and practical lectures about possibilities and its correlation with ENC and paper Chart production improving the understating of them and their workflow by the involved Hydrographic Offices. As a consequence the ENC and Paper Chart production quality would be improved. The training will give particular emphasis on the main problems and aspects involving the software and workflow in Paper Chart and ENC production.
<p>Countries involved</p>	<p>Mozambique, Angola (2 students) and Brazil.</p>
<p>Exposition of the problem</p>	<p>Individual SAIHC nations / Mozambique cannot fund appropriate staff to undertake any recognized course.</p>
<p>General objective</p>	<p>Establish a base level of source data analysis and nautical cartographic skills to:</p> <ul style="list-style-type: none"> – promote a reliable flow of MSI information from Mozambique (INAHINA) to its NAVAREA to improve maritime safety; – establish credibility and an appropriate level of competency within Mozambique (INAHINA) when seeking and acquiring hydrographic data and other nautical information.
<p>Specific objectives</p>	<ul style="list-style-type: none"> – Training for 10 students.

	<ul style="list-style-type: none"> - To provide skills in identifying knowledge gaps, and their significance, within existing nautical charts and publications. - To increase the ability of Mozambique (INAHINA) to target potential suppliers of hydrographic and other nautical information.
Outputs/Products	Delivery of nautical cartography training course (2 weeks).
Other deliverables	Nil
Achievements and awaited benefits	Improved ability to manage charting information and conduct nautical cartography
Schedule of activities	<p>This course is due to be delivered in the first half of 2013 so planning will need to commence in 2012. It is intended to follow the lectures as described below:</p> <ul style="list-style-type: none"> - Exposition of Paper chart production methodology - Exposition of ENCs production methodology - Exposition of paper chart production software and methodology - Training with paper chart production software - Exposition of digital chart production software - Training with digital chart production software

RESOURCES

Contribution by countries involved	<ul style="list-style-type: none"> - Venue to be provided by Mozambique. - Brazil will provide instructors. 	
Contribution by other parties	Not programmed.	
Contribution expected from CBC Fund	Air tickets, hotels, transportation and class material for one instructor from Brazil and two students from Angola.	
Total Cost (Euros)	€ 12,415.00	
Breakdown of costs	Instructors	Air tickets: € 715.00 Per diem: € 3,500.00
	Students from Angola (two)	Air tickets: €1,200.00 Per diem: €7,000.00
From CBC Fund (item and amount)	Air tickets: € 1,915.00 Per diem: € 10,500	

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
SAIHC	2013	Mozambique Angola Brazil	High	Chart Production training course	To increase the Mozambique / INAHINA and Angola/ IHSMA capacity to properly produce digital and Paper Charts according to the new available technologies.	The more qualified hydrographers and cartographers greater would benefit the final quality of Nautical Charts. The main purpose is a better understanding of the current production softwares and methodology and to enhance the Nautical Charts quality.	€ 12,415 from CB Fund	Total cost of € 12,415 from CB Fund		Lt. Cmd. Sebastião Simões de Oliveira (DHN)

Name and Signature of the RHC Chairman ...



(A. KAMPFER)

HYDROGRAPHER SA NAVY: CAPTAIN



SUBMISSION MODEL

IDENTIFICATION

Project Number :

Project Name:	Hydrographic surveys on job training
Submitting RHC/Country:	SAIHC / Mozambique
Date:	2013
Institution executing the project:	Instituto Nacional de Hidrografia e Navegação (INAHINA), Mozambique
Name of responsible:	Humberto Raúl Mutevuie
Address:	Av Karl Marx No. 153 P.O. Box No. 2089 MAPUTO
Telephone:	+ 258 21 430 186/8 – 428 670
Fax:	+ 258 21 430 185
e-mail:	hmutevuie@yahoo.com.br mutevuie@inahina.gov.mz

GENERAL SPECIFICATIONS

Background information	There is extremely limited capacity within SAIHC nations to take responsibility for, or effectively contribute to the surveying or management of survey projects of their waters.
Justification of the project	<ul style="list-style-type: none"> – Regional requirement. – The S-44 (5th ed) standards requires better description of survey data quality. – INAHINA personnel have, basic, theoretical knowledge. – English language is already a problem (<u>the training will be held in Portuguese</u>). – On the job training provides training to the whole team at a similar cost to one person being trained abroad.

	<ul style="list-style-type: none"> – There will no expenditures other than air tickets, accommodation, and food.
Countries involved	Mozambique, Angola (two students) and Brazil.
Exposition of the problem	<p>Recently IHO delivered new standards for hydrographic surveys (S-44, 5th ed.), which detailed better the uncertainties issues. With this training course Mozambique (INAHINA) will have the opportunity to exchange experiences and enhance their knowledge about this issue.</p> <p>Individual SAIHC nations / Mozambique cannot fund appropriate staff to undertake any recognized course.</p>
General objective	<p>Establish a base level of hydrographic data collection, processing, and the production of elements to nautical chart production:</p> <ul style="list-style-type: none"> – promote a reliable flow of MSI information from Mozambique (INAHINA) to its NAVAREA to improve maritime safety. – establish credibility and an appropriate level of competency within Mozambique (INAHINA) when seeking and acquiring hydrographic data and other nautical information.
Specific objectives	<p>To train survey operations personnel in accordance with Phase 2 of IHO's Capacity Building procedures.</p> <ul style="list-style-type: none"> – Training for 10 students.
Outputs/Products	<p>To train a group of professionals in the basics of hydrography to be capable of producing basic hydrographic services.</p> <p>The more qualified hydrographers would benefit the final accuracy of hydrographic surveys. The main purpose is to meet the IHO-S44 standards and enhance the Nautical Charts quality.</p>
Other deliverables	Improve the supply of survey and related hydrographic information to regional charting authorities.
Achievements and awaited benefits	Improved understanding of survey requirements and the operation of basic equipment
Schedule of activities	<p>This course is due to be delivered in the first half of 2013 so planning will need to commence in 2012.</p> <p>It is intended to follow the lectures as described below:</p> <ul style="list-style-type: none"> – Exposition on the use of multibeam for hydrographic data collection; – Methodology on data processing, analyses and data

	quality control; – Data archiving and establishment of hydrographic database.
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RESOURCES

Contribution by countries involved	- Venue to be provided by Mozambique. - Brazil will provide instructors.	
Contribution by other parties	Not programmed.	
Contribution expected from CBC Fund	Air tickets, hotels, transportation and class material for one instructor from Brazil.	
Total Cost (euros)	€12,415	
Breakdown of costs	Instructors	Air tickets: € 715.00 Per diem: € 3,500.00
	Students from Angola (two)	Air tickets: € 1,200 Per diem: € 7,000
From CBC Fund (item and amount)	Air tickets: €1,915.00 Per diem: €10,500.00	

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
SAIHC	2013	Mozambique Angola Brazil	High	Hydrographic surveys on job training	To increase the Mozambique / INAHINA capacity to properly acquire and process hydrographic data according to the new available technologies.	The more qualified hydrographers would benefit the final accuracy of surveys. The main purpose is to meet the IHO-S44 standards and enhance Nautical Charts quality.	€12,415 from CB Fund	Total cost of €12,415 from CB Fund		Lt. Cmd. Sebastião Simões de Oliveira (DHN)

Name and Signature of the RHC Chairman ...



(A. KAMPFER)

HYDROGRAPHER SA NAVY: CAPTAIN



PROJECT SUBMISSION MODEL

IDENTIFICATION

Project Number :

Project Name:	Introduction to Hydrographic Surveying and Nautical Charting
Submitting RHC/Country:	SAIHC (as part of the approved SAIHC CB Plan)
Date:	Mid to late 2013
Institution executing the project:	UKHO
Name of responsible:	J Bryant (Sponsor)
Address:	United Kingdom Hydrographic Office Admiralty Way Taunton TA1 2DN UK
Telephone:	+44 1823 337900 x 3821
Fax:	+44 1823 284077
e-mail:	jeff.bryant@ukho.gov.uk

GENERAL SPECIFICATIONS

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

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

Countries involved	Madagascar, Malawi, Mauritius, Comoros, Kenya, Namibia, Seychelles and Tanzania
Exposition of the problem	Individual SAIHC nations cannot fund appropriate staff to undertake any recognized course
General objective	To establish capacity so that maritime authorities can provide high quality products and services to comply with the requirements for safety of navigation in the area
Specific objectives	To train survey operations personnel in accordance with Phase 2 of IHO's Capacity Building procedures
Outputs/Products	To train a group of professionals in the basics of hydrography to be capable of understanding basic hydrographic services
Other deliverables	Improve the supply of survey and related hydrographic information to regional charting authorities

Achievements and awaited benefits	Improved understanding of survey requirements and the operation of basic equipment
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Schedule of activities	10 day course
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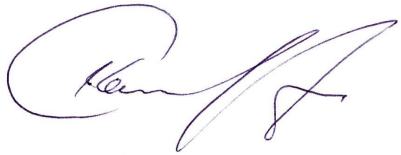
RESOURCES

Contribution by countries involved	Training facilities to be identified. UKHO will provide assistance in organizing and managing the training if required.
Contribution by other parties	UKHO will provide appropriately qualified lecturer(s)
Contribution expected from CBCFund	Yes
Total Cost (euros)	€14,400
Breakdown of costs	€1,300 per student to include hotel, flights and local expenses (eight in total) €4,000 for UKHO trainer (to include hotel, flights and local expenses)

From CBC Fund (item and amount)	
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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
SAIHC	2013	Madagascar, Malawi, Mauritius, Comoros, Kenya, Namibia, Seychelles and Tanzania		Introduction to Hydrographic Surveying and Nautical Charting	To train survey operations personnel in accordance with Phase 2 of IHO's Capacity Building procedures	Improved understanding of survey requirements and the operation of basic equipment		€14,400		J Bryant SAIHC CB Coordinator



Name and Signature of the RHC Chairman



PROJECT SUBMISSION MODEL

IDENTIFICATION

Project Number :

Project Name:	Technical aspects of Maritime boundaries, baselines and the extended continental shelf (5 days)
Submitting RHC/Country:	SAIHC (as part of the approved SAIHC CB Plan)
Date:	Between January and early June 2013
Institution executing the project:	UKHO LOS Team
Name of responsible:	Jeff Bryant, SAIHC CB Coordinator
Address:	UKHO, Taunton, Somerset TA1 2DN
Telephone:	+44 1823 337900 x3821
Fax:	+44 1823 284077
e-mail:	jeff.bryant@ukho.gov.uk

GENERAL SPECIFICATIONS

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

Background information	LOS awareness has been identified to be lacking in the region
Justification of the project	<p>Technical aspects of maritime boundaries, baselines and the extended continental shelf:</p> <ul style="list-style-type: none"> Hydrographic Offices of the SAIHC are getting more involved in advising their respective Governments on the technical aspects of maritime boundaries and baselines. SAIHC Member States (MS) have expressed a need for their officers to have a fundamental and common understanding of the technical aspects of maritime boundaries and their application to hydrography.

Countries involved	Angola, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Seychelles, Tanzania, Comoros, RSA
Exposition of the problem	No in-country expertise in this field
General objective	To teach participants the basic technical principles applicable to maritime boundary delimitation. The delegates should be from technical hydrographic or cartographic backgrounds.
Specific objectives	Providing a professional course to bridge the gap among MS in the basics of hydrography/cartography and its application to maritime baselines and the marine environment.
Outputs/Products	By the end of the week the students should be able to understand the importance of technical

	aspects in the delimitation process, the legal principles behind boundary delimitation, and play their role in a boundary team alongside lawyers, politicians and other experts.
Other deliverables	
Achievements and awaited benefits	To create greater awareness of the application of hydrography to the marine environment

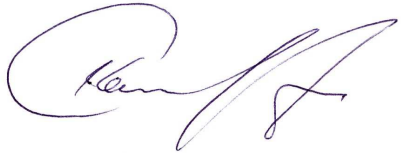
Schedule of activities	5 day workshop
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RESOURCES

Contribution by countries involved	Nil
Contribution by other parties	<u>UKHO will provide x 2 LOS experts to deliver the training course free of charge</u> <u>UKHO will cover the cost of the international flights for the trainers</u> Hosting nation (yet to be decided) to cover the cost of the training materials (mostly copying)
Contribution expected from CBCFund	14,980 euros
Total Cost (euros)	14,980 euros
Breakdown of costs	10 flights = 3500 euros 6 nights accommodation for 10 students = 9000 euros 6 nights accommodation for 2 trainers = 1800 euros Conference facilities = 680 euros
From CBC Fund (item and amount)	14,980 euros

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
SAIHC	2013	Angola, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Seychelles, Tanzania, Comoros, RSA		Technical aspects of Maritime boundaries, baselines and the extended continental shelf (5 days)	Providing a professional course to bridge the gap among MS in the basics of hydrography/ cartography and its application to maritime baselines and the marine environment	To create greater awareness of the application of hydrography to the marine environment		14,980 euros		J Bryant SAIHC CB Coordinator



Name and Signature of the RHC Chairman



PROJECT SUBMISSION MODEL

IDENTIFICATION

Project Number :

Project Name:	Development of a Regional Marine Spatial Data Infrastructure (MSDI) Workshop
Submitting RHC/Country:	SAIHC (as part of the approved SAIHC CB Plan)
Date:	Q1 or Q2 in 2013
Institution executing the project:	SAIHC/UKHO
Name of responsible:	Jeff Bryant, SAIHC CB Coordinator
Address:	UKHO, Taunton, Somerset TA1 2DN
Telephone:	+44 1823 337900 x3821
Fax:	+44 1823 284077
e-mail:	jeff.bryant@ukho.gov.uk

GENERAL SPECIFICATIONS

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

Background information	<p>The IHO definition of Hydrography supports "...marine activities including economic development, security and defence, scientific research and environmental protection". One of the objectives of the organization identifies the importance of the development of the sciences in the field of hydrography and the techniques employed in descriptive oceanography.</p> <p>Within the HO community, there remains an incomplete understanding of the interacting systems and sciences that operate in the world's oceans and coastal areas. Pressure is now growing globally to improve that understanding. This Workshop approach highlights the relevance of MSDI in the development of a framework for Coastal and Marine Spatial Planning programs (MSP) at the sub national, national and/or regional levels. It provides an approach to introduce and inform how MSDI inter reacts as a component within the framework of a National Spatial Data Infrastructure (NSDI) through the development and later delivery of a series of global workshops. The workshops will utilize a panel of recognized leaders and experts in the various components of MSDI development as well expertise and experience in developing NSDI. The workshops will build on the work undertaken by the MSDIWG by providing a practical platform of knowledge transfer to enable MS's to engage and actively participate in MSDI and MSP development. In this way the HO community will be able to inform and shape the way MSDI is delivered.</p>
Justification of the project	Regional and / or National requirement

Countries involved	SAIHC Member and Associate States will be beneficiaries of this workshop
Exposition of the problem	Individual Nations cannot fund appropriate staff to undertake any recognized course just at the time when they are required to respond to global challenges in the marine and coastal zone.
General objective	<p>There is a particular urgent need to address issues associated with MSDI in this region due to the conflicts in use of the regional sea space, dwindling resources, lack of up to date and reliable hydrographic and oceanographic data, the threats posed by climate change, coastal inundation and the need for parties to work more closely together to ensure long term economic and social sustainability.</p> <p>The workshop will enhance and increase understanding, confidence and provide practical insight to delegates as to what measures can be taken to develop and control this framework and what can be accomplished through development of a robust and active program of real time observations, data capture and evaluation, data management, data sharing, exchange and improved access to information to underpin modeling and visualization of the underwater and coastal environment. The workshop will develop the appreciation of what is needed and how to measure and understand interaction of systems and to monitor progress over time to reach defined goals.</p>
Specific objectives	Introduce MSDI to the attending delegates as the marine component of an SDI and provide practical assistance in developing capability at the regional and national level. MSDI encompasses all marine geographic and business information that supports decision making processes and asset management.
Outputs/Products	Increased and enhanced understanding of MSDI and its relevance to national, regional, and global development success through the provision of tools, solutions and case studies to engage and contribute to MSDI development.
Other deliverables	Creation of a new knowledge base within the IHO community which MS's can access and learn from. The workshop approach will be supported by FIG and IOC.
Achievements and awaited benefits	

Schedule of activities	5 day course
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RESOURCES

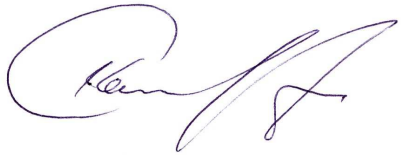
Contribution by countries involved	Venue to be decided at the next SAIHC meeting
Contribution by other parties	3 international subject matter experts plus regional representation will be assembled to provide content preparation, organization, presentation of lectures, sharing of best practice, delivery of case studies and factual information for the workshop across the spectrum of SDI subject areas including Marine Spatial Planning, Data Management, Sharing and Re-use, Environment and Conservation as well as COP-10 UNEP Strategic

	Plan 2010-15 on Biodiversity.
Contribution expected from CBCFund	Yes
Total Cost (euros)	€26,100
Breakdown of costs (subject to confirmation)	<p>Delegates (x10) Flights: 10 x €300 * €3000 Hotel: 6 nights x 10 x €120 per night * €7200 Per diem: 6 days x 10 x €48 per day * €2880</p> <p>Experts (x3) Flights: 3 x €1000 €3000 Hotel: 6 nights x 3 x €120 €2160</p> <p>Logistics Room: 5 days x €60 per day# €300 A/V and IT: 5 days x €120 per day# €600 Ground Transport: €480 Refreshments: €480</p> <p>Lecturer fees 5 days (x3) x €400 €6000</p> <hr/> <p>TOTAL €26,100</p> <p>* Cost excludes two in-country delegates # provided by host organisation</p>

From CBC Fund (item and amount)	Training and education €26,100
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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
SAIHC	2013	SAIHC Member States	Priority 5	Development of a Regional Marine Spatial Data Infrastructure (MSDI) Workshop	Introduce MSDI to the attending delegates as the marine component of an SDI and provide practical assistance in developing capability at the regional and national level	Increased and enhanced understanding of MSDI and its relevance to national, regional, and global development success through the provision of tools, solutions and case studies to engage and contribute to MSDI development.	Fund Travel & subsistence for up to 10 students, together with x3 MSDI Expert trainers	€ 26,100		Jeff Bryant (SAIHC CB Coordinator)



Name and Signature of the RHC Chairman



PROJECT SUBMISSION MODEL

IDENTIFICATION

Project Number :

Project Name:	MSI (training on establishment of MSI structure and basic MSI procedures)
Submitting RHC/Country:	SAIHC (as part of the approved SAIHC CB Plan)
Date:	2013
Institution executing the project:	IHB/WWNWS
Name of responsible:	Mr Peter M Doherty
Address:	US NAVAREA Coordinator Maritime Safety Information Division NGA 4600 Sangamore Road Mail Stop D-44 Bethesda Maryland 20816-5003 United States of America
Telephone:	+1 (301) 227 7646
Fax:	+1 (301) 227 3731
e-mail:	Peter.M.Doherty@nga.mil

GENERAL SPECIFICATIONS

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

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

Countries involved	Angola, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Seychelles, Comoros and Tanzania
Exposition of the problem	Majority of countries in the region have no MSI capability although personnel and structures are available
General objective	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
Specific objectives	Train personnel in accordance with Phase 1 of IHO's capacity building procedures
Outputs/Products	To establish a core group of trained persons to deal with MSI
Other deliverables	Supply of information to charting authorities to assist with chart maintenance
Achievements and awaited	Improving maritime safety and compliance with

benefits	SOLAS
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Schedule of activities	3 day course
Past and/or current related projects supported by CBSC or other sources	WWNWS Training course for SAIHC members

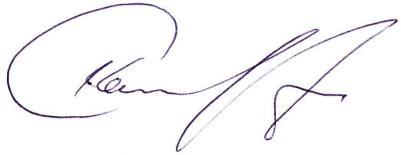
RESOURCES

Contribution by countries involved	Training facilities to be identified
Contribution by other parties	Lecturers provided by WWNWS
Contribution expected from CBCFund	Yes
Total Cost (euros)	11,000 euros
Breakdown of costs	8,000 euros (Hotel, flights and local expenses for 10 students @ 800 euros each) 3,000 euros (Hotel, flights and local expenses for lecturers)

From CBC Fund (item and amount)	
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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
SAIHC	2013 (second half)	SAIHC Member States	Priority 1	MSI (training on establishment of MSI structure and basic MSI procedures)	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	Improving maritime safety and compliance with SOLAS	Fund Travel & subsistence for up to 9 students, together with x2 MSI trainers	€ 11,000		Jeff Bryant (SAIHC CB Coordinator)



Name and Signature of the RHC Chairman