

# **UPDATED MANAGEMENT PLAN 2013**

Updated Draft Management Plan version with analysis from CBSC10

**EAST ASIA HYDROGRAPHIC COMMISSION**  
Contact Point: Thailand, EAHC CB Coordinator ([hydrotech@navy.mi.th](mailto:hydrotech@navy.mi.th))

Nº	Year	Countries	Priority	Project name	Project objective	Benefits	Assistance required	Cost €	Allocation	Contact
1	EA	Brunei Darussalen & DPRK	3	Technical assessment and advisory visit				13 000	1	
2	EA	All (9 students)	2	MSDI and Database management				19 200	3	
3	EA	All (9 students)	5	Seabed classification workshop				19 200		
4	EA	All (9 students)	1	Seminar on S-100				14 000 3.5.6	3	
5	EA	All (9 students)	6	Module I Marine Cartography Cat B				80 100		
6	EA	All (9 students)	7	Module II Hydrographic data processing Cat B				80 100		
7	EA	All (9 students)	8	Module III ENC Cat B				80 100		
8	EA	All (9 students)	4	Train for the trainers - Cat C basic Hydrography and Cartography				41 400		
								343800 46 200		

Updated from the 5-year IHO CB Work Programme

**MESO-AMERICAN AND CARIBBEAN HYDROGRAPHIC COMMISSION**

Contact Point: Jeff Bryant, MACHC CB Coordinator ([jeff.bryant@ukho.gov.uk](mailto:jeff.bryant@ukho.gov.uk))

Nº	Year	Countries	Priority	Project name	Project objective	Benefits	Assistance required	Cost €	Allocation	Contact
1	MA C	Dominica, St Kitts & Nevis, St Vincent & the Grenadines	1	Technical Assessment & Advice Visit – Dominica, St Kitts & Nevis and St Vincent & the Grenadines	Technical and Advisory visit to inform, assess current status and note requirements	Promote in-country hydrographic services and active national coordinator for MSI; Improved data supply to charting authority; Potential IHO membership	Fund Travel & subsistence for 2 persons (IHB + MACHC Chair) to undertake the visit	9 000	1	1
2	MA C	El Salvador, Honduras and Nicaragua	2	Gulf of Fonseca survey and charting planning meeting	Convene a meeting of the bordering states and other states and agencies willing to participate and contribute to developing a plan of action to address a multi-national survey and charting effort in the Gulf of Fonseca.	A multi national plan to cooperate in survey operations and coordinate chart production	Fund Travel & subsistence for 2 persons (IHB + MACHC Chair) to attend this meeting +2 000 from GSDI	10 000		1
3	MA C	Costa Rica, Dominica, Dominican Republic, Haiti, Nicaragua, Panama, St Vincent & Grenadines (plus other MACHC members as required)	3	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 and subsistence for 12 students = €9,600 together with €3000 for Lecturers	12 600 3.5.1	1	1
4	MA C	MACHC Member States	4	Introduction to Hydrographic Surveying and Nautical Charting	To train survey operations personnel in accordance with Phase 2 of IHO's Capacity Building procedures	To train a group of professionals in the basics of hydrography to be capable of understanding basic hydrographic services	Fund Travel & subsistence for up to 14 students, together with x1 UKHO trainer	22 200		1
5	MA C	MACHC Member States	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		1
6	MA C	MACHC Member States	6	Technical aspects of Maritime boundaries, baselines and the	To teach participants the basic technical principles applicable to maritime	Increased understanding of the importance of technical aspects in the delimitation process, the legal	Fund Travel & subsistence for up to 12 students, together with	20 120		1

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N°	Year	Countries	Priority	Project name	Project objective	Benefits	Assistance required	Cost €	Allocation	Contact
				extended continental shelf (5 days)	boundary delimitation.	principles behind boundary delimitation, and to give students the ability to play their role in a boundary team alongside lawyers, politicians and other experts.	accommodation only for x2 UKHO trainers (UKHO will cover the costs of international flights and trainer fees)			
							MACHC Subtotal:	100 020 21 600		

Contact 1 = Jeff Bryant, MACHC CB Coordinator ([jeff.bryant@ukho.gov.uk](mailto:jeff.bryant@ukho.gov.uk))

**NORTH INDIAN OCEAN HYDROGRAPHIC COMMISSION**  
Contact Point: Jeff Bryant, NIOHC CB Coordinator ([jeff.bryant@ukho.gov.uk](mailto:jeff.bryant@ukho.gov.uk))

N°	Year	Countries	Priority	Project name	Project objective	Benefits	Assistance required	Cost €	Allocation	Contact
1	NIO	Eritrea and Sudan	1	Technical Visit to Government high authorities - Eritrea and Sudan	Raise the profile of hydrography at the highest level in Eritrea and Sudan	Greater understanding at the highest levels and continued funding	Fund Travel & subsistence for 2 persons (IHB + NIOHC Chair) to undertake the visit	6 000 3.4.3	1	1
2	NIO	NIOHC member states	2	Basic ENC & ENC Production	To provide the delegates with an understanding of the navigational chart (paper and digital) and to enable the transition from paper to ENC to be understood and placed in context	Improved knowledge of ENC	Fund travel & subsistence for 11 students together with same for x2 UKHO instructors	28 330 IMO funded type of RoS		1
3	NIO	NIOHC member states	3	MBES Processing workshop	To train a group of nations who are (or will be) using MBES to process the resulting data efficiently and accurately	The participants will complete the course with the knowledge, skills and confidence to process MBES data	Fund travel & subsistence for 6 students together with same for x2 UKHO instructors	15 450		1
4	NIO	Sri Lanka	4	Advanced Chart Production	To train the whole cartographic production team in the use of the new systems as well as defining workflow from receipt of data from the survey vessel into the chart production workflow	Better and more efficient outputs from the production system which will mean better and safer charts	Fund travel & subsistence for x1 trainer	6 800 3.5.2	3	1
							NIOHC Subtotal:	56 580 12 800		

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**ROPME SEA AREA HYDROGRAPHIC COMMISSION**

Contact Point: Jeff Bryant, RSAHC CB Coordinator ([jeff.bryant@ukho.gov.uk](mailto:jeff.bryant@ukho.gov.uk))

N <sup>o</sup>	Year	Countries	Priority	Project name	Project objective	Benefits	Assistance required	Cost €	Allocation	Contact
1	RSA	Iraq		Technical visit type 1 (Visit to Government high authorities)	Raise the profile of hydrography at the highest levels in Iraq	To promote greater understanding at the highest levels and continued funding	Fund travel & subsistence for 2 persons (IHB + RSAHC Chair) to undertake the visit	8 000	1	1
2	RSA	RSAHC member states		Basic ENC & ENC Production	To provide the delegates with an understanding of the navigational chart (paper and digital) and to enable the transition from paper to ENC to be understood and placed in context	Improved knowledge of ENC	Fund travel & subsistence for 8 students together with same for x2 UKHO instructors	20 880	3	1
3	RSA	RSAHC member states		Workshop on Port & Shallow Water Surveys	To enlighten attendees of the different factors influencing Port and Shallow water surveys	Improved understanding of survey requirements and the operation of basic equipment in the shallow water environment	Fund travel & subsistence for 8 students	10 400 3.5.5	2	1
							RSAHC Subtotal:	39 280		

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**SOUTHERN AFRICA AND ISLANDS HYDROGRAPHIC COMMISSION**

Contact Point: Jeff Bryant, SAIHC CB Coordinator ([jeff.bryant@ukho.gov.uk](mailto:jeff.bryant@ukho.gov.uk))

N <sup>o</sup>	Year	Countries	Priority	Project name	Project objective	Benefits	Assistance required	Cost €	Allocation	Contact
1	SAI	Mozambique, Angola, Brazil <b>Remove Angola</b>	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 software and methodology and to enhance the Nautical Charts quality.	€12 415 from CB Fund	12 415 4 200 3.5.3	3	1
2	SAI	Mozambique, Angola, Brazil	Lower	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	12 415 Included in this category in the meeting		1
3	SAI	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	2	2
4	SAI	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		2
5	SAI	SAIHC Member States	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		2

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Nº	Year	Countries	Priority	Project name	Project objective	Benefits	Assistance required	Cost €	Allocation	Contact
6	SAI	SAIHC Member States	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 3.54	1	2
							SEPHC Subtotal:	91 310 25 400		

Contact 1 = Lt. Cmd. Sebastião Simões de Oliveira (DHN)

Contact 2 = Jeff Bryant SAIHC CB Coordinator



**SOUTH EAST PACIFIC HYDROGRAPHIC COMMISSION**

Contact Point: Captain José Gianella SEPHC CB Coordinator ([jgianella@dhn.mil.pe](mailto:jgianella@dhn.mil.pe))

Nº	Year	Countries	Priority	Project name	Project objective	Benefits	Assistance required	Cost €	Allocation	Contact
1	SEP	Chile, Colombia, Ecuador, Peru		Regional Workshop in Hydrographic Production Database (HPD) <b>combine with SWAtHC</b>	Conduct regional harmonization to use Caris HPD	Standardization of procedures of cartographic production using Caris HPD	Training from Caris and support to 6 students 32 000 Euros	26 000 <b>29 000</b> 3.5.7	3	1
2	SEP	Chile, Colombia, Ecuador, Peru		S-100 for Exchange of Information Workshop	Exchange of information between Commission countries		Professors guests (3) participants 10 421 Euros	5 108 <b>8 500</b>	3	2
							SEPHC Subtotal:	31 108		

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**SOUTH WEST ATLANTIC HYDROGRAPHIC COMMISSION**

Contact Point: Captain Wesley Cavaleiro SWAtHC CB Coordinator ([wesley.cavaleiro@gmail.com](mailto:wesley.cavaleiro@gmail.com))

Nº	Year	Countries	Priority	Project name	Project objective	Benefits	Assistance required	Cost €	Allocation	Contact
1	SWA	Paraguay	High	Technical Visit to Paraguay	Raise de profile of hydrography in this State	Promote in country hydrographic services and active national coordinator for MSI	€15 000 from CBSC	15 000 7 500	1	1
2	SWA	Argentina, Brazil, Uruguay (other 4 Latin American countries could be invited)	Low	Print on Demand workshop	To increase the SWAtHC members' capacity to properly produce Paper Charts on Demand according to the new available technologies	More qualified Hydrographers would benefit the final quality of their Paper Charts. The main purpose is to improve capacity on producing Paper Charts on Demand in order to enhance Nautical Paper Charts quality	€23 000 from CBSC	23 000		2
3	SWA	Argentina, Brazil, Uruguay (other 4 Latin American countries could be invited)	High	HPD Workshop and HPD SWAtHC User Group Meeting coordinate with SEPHC	To increase the SWAtHC members capacity to properly produce ENC's and Paper Charts according to the new available technologies	More qualified Hydrographers would benefit the final quality of ENC's. The main purpose is to meet the spatial database basic needs in order to enhance Nautical Charts quality	€19 000 from CBSCD <b>COVERED BY SEPHC</b>	19 000		2
4	SWA	Paraguay	High	High level Visit to Paraguay	Raise de profile of hydrography in this State	Promote in-country hydrographic services and active national coordinator for MSI	€10 000 from CBSC???	10 000 7 500	1	3
							Subtotal SWAtHC	67 000 15 000		

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**SOUTH WEST PACIFIC HYDROGRAPHIC COMMISSION**

Contact Point: Cdre Rod Nairn, SWPHC CB Coordinator ([international.relations@hydro.gov.au](mailto:international.relations@hydro.gov.au))

N <sup>o</sup>	Year	Countries	Priority	Project name	Project objective	Benefits	Assistance required	Cost €	Allocation	Contact
1	SWP	Tonga	1	Technical Assessment & Advice - Tonga	To inform, assess current status and note requirements	Increase participation and awareness from Tonga	Funding for travel and subsistence form IHB Director and regional representative	5 500 3.4.1	1	1
1A	SWP	Cook Is. Moved from 2012	1	Same	Same	Same	Same	7 000 3.4.2	1	
2	SWP	Samoa	2	Technical Assessment & Advice - Samoa	Technical and advisory visit to inform, assess current status and note requirements	Understanding of SOLAS obligations and ways in which to meet them. A robust MSI promulgation process. Improved charting of the region.	Funding for travel and subsistence form IHB Director and regional representative	6 000	1	1
3	SWP	Solomon Is, Tuvalu, Cook Is, Fiji, Samoa, Tonga, Kiribati, Palau, PNG, Tokelau, New Caledonia, Niue, Vanuatu, French Polynesia, SOPAC	3	Chart Quality Technical Workshop	To improve the supply of data to the chart producers in the region. To improve the quality of the charts as a result.	Improved understanding of the navigational chart, its content, compilation and maintenance, with a particular focus on quality issues.	Fund travel and per diem costs for 14 persons from region to attend workshop	35 000	3	2
4	SWP	All MSs	4	Module 3 of the recognized UK Category B Programme - Electronic Navigational Charts (ENC)	To further develop and promote human capacity building in marine cartography within SWPHC	Improved Maritime Safety and charting in the region.	Fund travel and per diem of trainers + courses delivery costs + travel and subsistence for 9 students	95 000		1
5	SWP	Australia, Solomon Is.	5	Solomon Is. National Hydrographic Capability Development	To develop skills of cartographic staff	1. Increased skills for Solomon Is. Hydrographic Unit. 2. National contribution to updating charts	Fund travel and per diem for 2 persons to attend training and work experience at Australian Hydro Office	9 000	3	3
6	SWP	Cook Is., New Zealand	6	Hydrographic Administration & Technical Training	On the job experience and exposure to senior managers working in National	Increased efficiencies in developing hydrographic administrations and develop	Fund travel and per diem costs for one person to attend	5 200		1

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N°	Year	Countries	Priority	Project name	Project objective	Benefits	Assistance required	Cost €	Allocation	Contact
				Placements with Regional HO Move to 2014	Hydrographic Authority. Cook Islands	knowledge in related technical matters	Training and Supervision at LINZ			
7	SWP	SWPHC Member States	7	SWPHC representation at PacMA Meeting 2013	Maintain regional government focus on hydrography, SOLAS requirements and status of charting in SWPHC.	Provision of enduring MSI, awareness of maritime issues and obligations, improved relationship between regional charting authorities.	Fund Travel & Per Diem for SWPHC Vice Chair or representative to attend the 2011 PacMA Meeting.	3 000	1	4
8	SWP	Solomon Is, Tuvalu, Cook Is, Fiji, Samoa, Tonga, Kiribati, PNG, Tokelau, New Caledonia, Niue, Vanuatu, French Polynesia, Federated States of Micronesia, Marshall Is., Nauru, Palau	8	Regional Training in Surveying, Cartography and MSI Moved to 2014	Provide training in basic techniques of hydrographic surveying and nautical charting to establish capacity in the mentioned fields so that Maritime Authorities can provide high quality products and services to fulfill basic requirements for safety in navigation in the area. Establish a reliable flow of MSI from SWP Islands	Effective and enduring Surveying, Charting Planning and MSI input to NAVAREA X and XIV Coordinators and Hydrographic Charting Authorities	Fund travel and per diem for 15 persons (trainers+participants) from SWP region to attend Workshop	50 100		3
9	SWP	Kiribati, Australia	9	Hydrographic Administration & Technical Training Placements with Regional HO	On the job experience and exposure to senior manager working in National Hydrographic Authority, Kiribati	Increased efficiencies in developing hydrographic administrations and develop knowledge in related technical matters	Fund travel and per diem for one person to attend Training and Supervision at Australian Hydro Office	5 200	1	3
							Subtotal SWPHC	214 000		

Contact 1 = Mr. Adam Greenland, Hydrographer of New Zealand

Contact 2 = Mr. Tim Sewell, UKHO

Contact 3 = Commodore Rod Nairn, Hydrographer of Australia

Contact 4 = Mr. Nicholas Pion, SWPHC Vice Chair

**CB FUND TOTAL EXPENDITURE REQUESTED**

REGIONAL HYDROGRAPHIC COMMISSION	NUMBER OF PROJECTS SUBMITTED / CBSC10	TOTAL AMOUNT REQUESTED
EAHC	8 3	343 800 € 46 200 €
MACHC	6 2	100 020 € 21 600 €
NIOHC	4 2	56 580 € 12 800 €
RSAHC	3 3	39 280 € 39 280 €
SAIHC	6 2	91 310 € 25 400 €
SEPHC	2 2	31 108 € 31 108 €
SWAtHC	4 2	67 000 € 15 000 €
SWPHC	9 8	214 000 € 70 700
<b>TOTAL</b>	<b>36</b> <b>23</b>	<b>943 098 €</b> <b>338 718 €</b>

Color code:

<b>Group 1</b>	<b>106,500.00 €</b>	Phase1/Priority/RHCs
<b>Group 2</b>	<b>70,615.00 €</b>	Phase1/Priority/RHCs
<b>Group 3</b>	<b>28,700.00 €</b>	Rest of Phase 1
<b>Group 4</b>	<b>14,400.00 €</b>	Rest of Phase 2
<b>Group 5</b>	<b>64,880.00 €</b>	Other RoS

Note: only Group 1 was funded