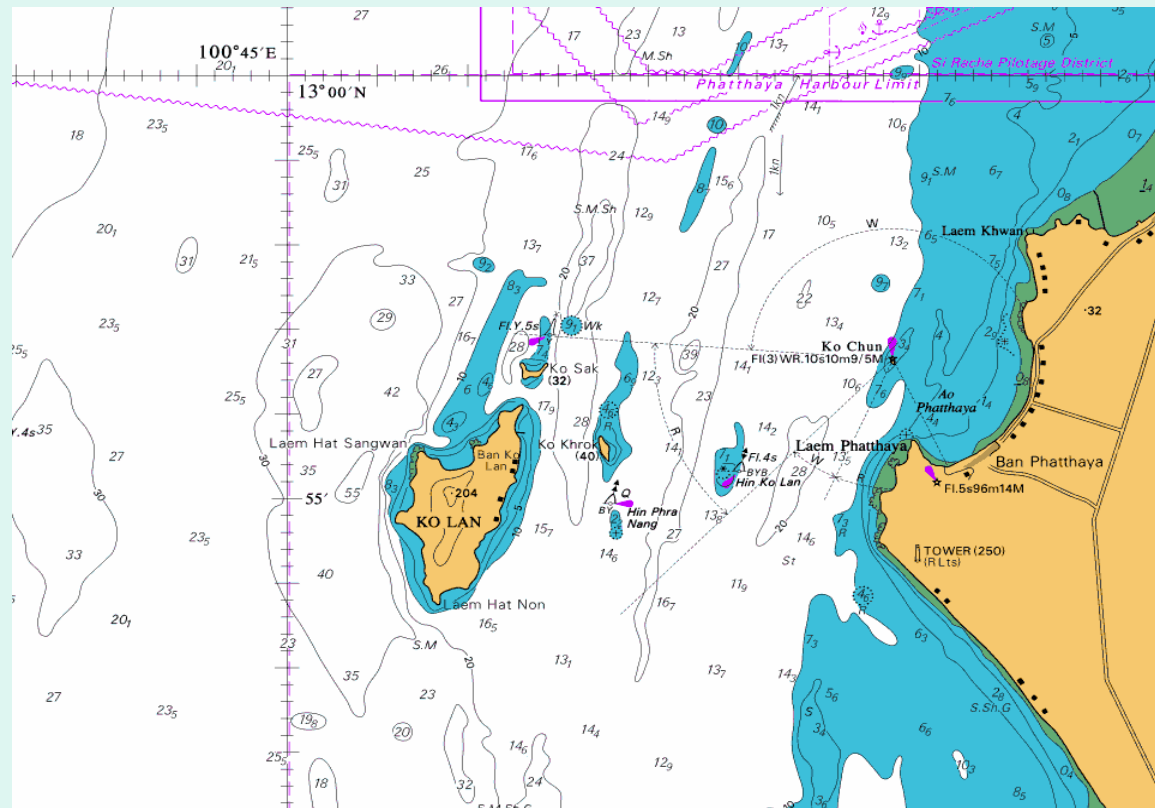


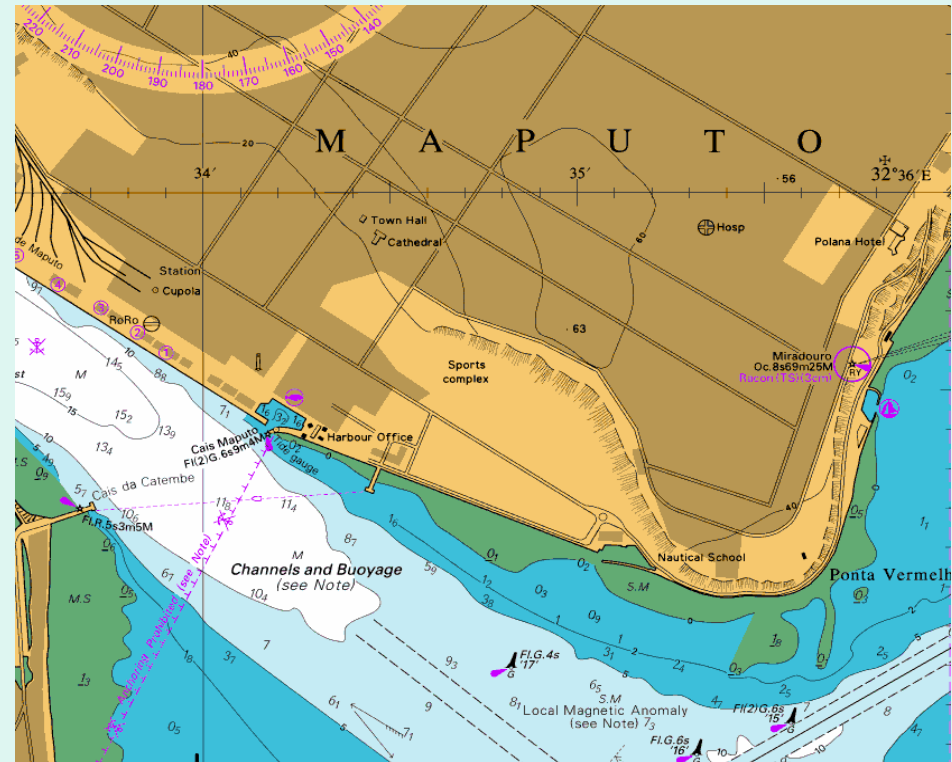
NIOHC AND THE IHOCBC

- **Captain M K Barritt RN**
Vice Chairman IHOCBC and Co-ordinator of review of S-55



IHO/CBC

- Full documentation available on IHO/CBC section of IHO website (www.who.int).
- Progress report in IHO CL 58/2006.
- New funding available.
- Challenges of human resources for proposed programme.



IHO Capacity Building: the role of IHOCBC and RHCs **Assess and Analyse**

- **Standard RHC Agendas and National Reports.**
- **Prototype RHC CB Management Plan in SAIHC.**
- **Bids to IHOCBC by 1 April each year.**



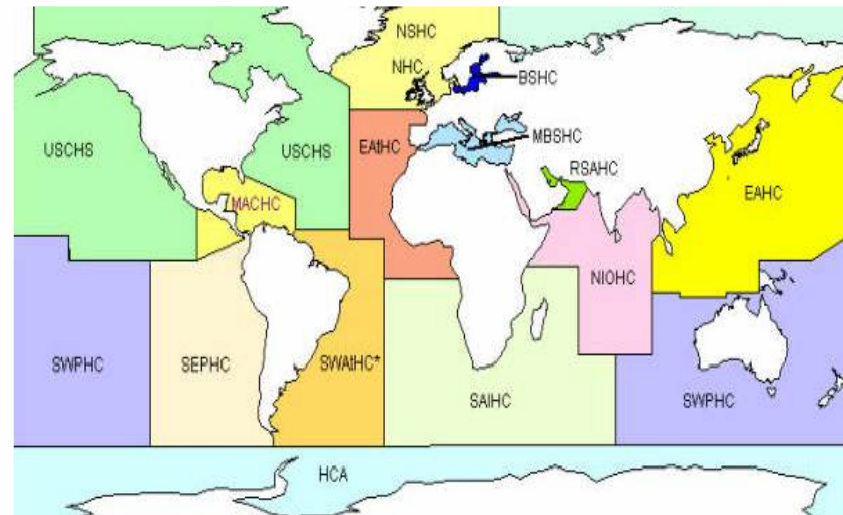
IHO/CBC Management Plan

Assess and Analyse > Action

- **Used to display bids from RHCs and to facilitate assessment and prioritisation in a systematic way.**
- **The tool for identification of the activities for inclusion in the IHO CB Work Programme.**

REGIONAL HYDROGRAPHIC COMMISSIONS

The IHO encourages the establishment of Regional Hydrographic Commissions (RHC), and offers advice on their formation. To date, 15 such Commissions, have been established, and meet at regular intervals to discuss issues mutual hydrographic interest. To access (RHC) meeting pages select the relevant commission on the map or list below.



Planning in progress	RSAHC EAHC	States of the regions (Pakistan, ROK)	MBES Course	Funding Travel and subsistence for 6 participants	€20k	€20k	Phase 2 Capability increase for conduct or oversight of MBES surveys.
Planning in progress	NIOHC RSAHC	Eritrea, Saudi Arabia and Yemen	Technical Visit, to include contact with PERSGA national representatives.	IHB visit.	Covered by IHO budget.		Raise awareness at governmental level, and prepare way for Phase 1 Technical Workshop.
Late application approved by CB4	SEPHC	Chile Colombia Ecuador Peru (Project also open to other countries.)	ENC Workshop hosted by the Servicio Hidrografico y Oceanografico de la Armada (SHOA) in Valparaiso, Chile	Funding a. Travel and subsistence funding (6 days in country) for 2 well know invited experts and one participant of each country with cartographic skills, working in ENC production. Plus logistics.	August 2006 € 7k	[CB Funds available, excluding ROK donation, €180k] € 7k	Opportunities + Increase ENC availability. + Improve standardization processes of validation and encryption + Possibilities of regional RENC establishment Risk reduction + Potential to reduce risk on regional routes and in approaches to ports.

ACTIVITIES APPROVED FOR 2007 BY CBC4

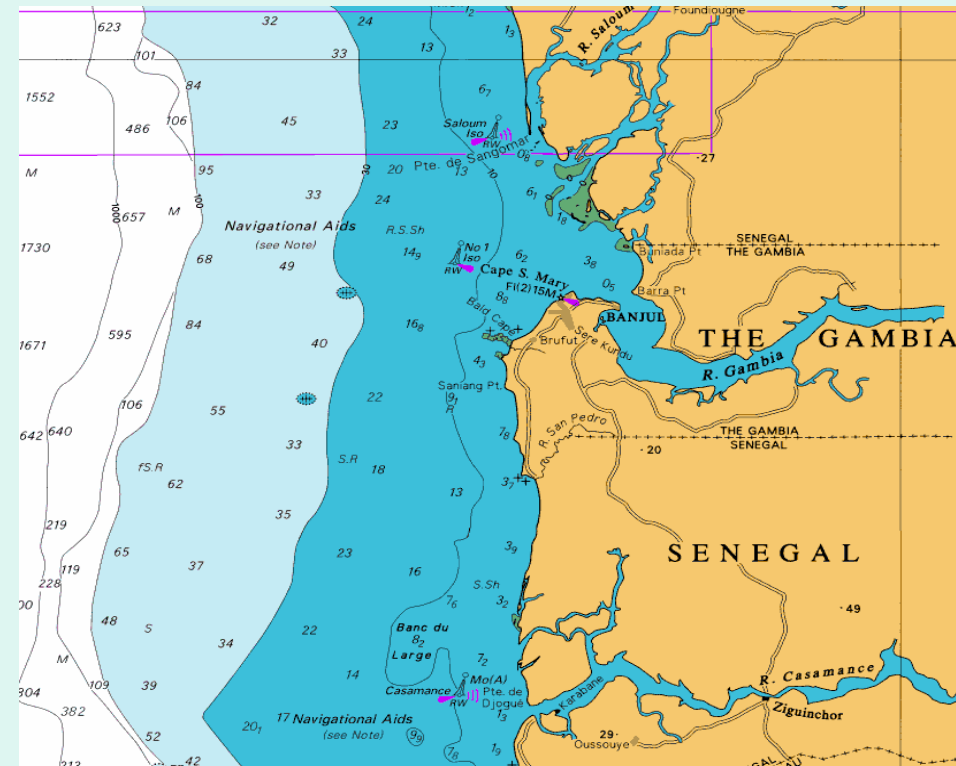
√	CBC	All MS	Develop TORs for consultant to produce guidelines for project development and submission. Consultancy hire.	Funding Travel and subsistence. Consultancy	AUS will produce TORs. € 5k € 7k	[€173k] € 13k	Facilitates IHOCBC efforts to secure substantial WB project funding.
Candidate Item for first quarter	MACHC	Antigua, Bahamas, Barbados, Dominica, Grenada, Jamaica, St Kitts, St Lucia	CPRNW Training Course (5 days)	Funding a. Travel and subsistence for 10 students.	a. T € 2k S €10k (UK to fund students from OTs)	[€160k] € 18.5k	Early follow up to Technical Visits and identification of national co-ordinators. Phase 1 Capability increase. Risk Reduction + Potential to reduce risk on international and regional routes

**APPROVED CAPACITY BUILDING WORK PROGRAMME FOR 2006
UPDATED AT THE 4TH CBC, 07-08 June 2006**

Action	Activity	Draft Financial implication and Planning Figures
1 Planning in progress	Technical Visits to be paid by IHB to: a) Baltic Sea countries (Estonia, Latvia and Lithuania) b) Red Sea countries (Eritrea, Saudi Arabia and Yemen to include contact with PERSGA national Representatives) c) Suriname	Covered by IHO normal approved operational budget.
2 DONE	4th Capacity Building Committee Meeting to be held in Maputo, Mozambique, 7-9 June.	Covered by IHO normal approved operational budget.
3 DONE	Technical Workshop on Phase I for SAIHC, to be held in conjunction with 4th CBC Meeting on the 5 th June in Maputo, Mozambique.	a) Speakers: contribution MS b) Location: hosting MS c) 10 Participants: 10.000 euros
4 DONE	SAIHC AT technical visit probably led by South Africa, UK, France and IHB, February/March. (Malawi, Kenya, Tanzania, Namibia, Uganda, Seychelles , Mauritius and Madagascar)	a) 8 countries (7) b) 2 Participants: 10.000 euros (FR 2,5 PT 2 SA 2,5 UK 3) IHB budget
5 Planning in progress	Three days Seminar for Chairmen of National Hydrographic Committees (or equivalent) of MACHC, to be held in Acapulco, Mexico, 2-4 October.	a) Speakers: contribution MS b) Location: Mexico c) 12 Participants:20.000 euros
6 Planning in progress	Support attendance of some participants from EAHC and RSAHC to assist Multibeam Course in Singapore, Nov 2006	6 participants: 20.000 euros
7 In progress	MACHC to brief CARICOM Meeting of Transport Ministers (date to be determined)	Travel and subsistence one person 2.000 euros
8 50% DONE 50% planning	MACHC to follow up visits to countries visited in 1998, and visits to other island states. (Antigua, Montserrat, Anguilla, Bahamas, Turks & Caicos, Cayman Is., Jamaica = = Trinidad & Tobago, Barbados, Grenada, St. Vincent & Grenadines, St Lucia, St Kitts & Nevis, Dominica) (25 Mar-12Apr and	Travel and subsistence 2 persons 13.000 euros (UK)

Outcome of IHO/CBC4

- Circa 80% of the available budget for 2007, excluding new money from ROK, was allocated. **Financial resources are adequate.**
 - **Human resources and pragmatic ideas are needed.**
- What comes next after technical advisory visits and training?**



F21 Seminar on Hydrography contribution to sustainable development. Socio-Economic perspectives

A	B	C	D	E	F	G	H
CAPACITY BUILDING WORK PROGRAMME 2008-2012							
RHC	CBWP2008	CBWP2009	CBWP2010	CBWP2011	CBWP2012	COMMENTS BASED ON 2006/2007 WP	
NHC	nil	nil	nil	nil	nil	nil	
NSHC	nil	nil	nil	nil	nil	nil	
EAHC	WB/MO/ MEH Project	Technical visits. Countries to be identified.	In region seminar on survey of South China Sea "Dangerous Grounds"	CPRNW Training Course on MSI and GMDSS		2006 MB Course 2007 MB Course	
USCHC	nil	nil	nil	nil	nil	nil	
MBSHC	CPRNW Training Course on MSI and GMDSS	Cooperative survey project IT/SLO	Technical Visit + Pilot phase fro BASWG Project	In region seminar on port & shallow water surveys	Technical Workshop on Automatic Data Collection, Data Processing and Data Management	2007 MB Course	
BSHC	nil	Technical Workshop on Shallow Water Automatic Data Collection, Data Processing and Data Management using MultiBeam.	nil	nil	nil	2006 Technical Visit Estonia, Latvia and Lithuania 2007 MB Course	
EAHC	Capacity building asesment and provision.	In region seminar on datums and requirements for transfer of charts to WGS datum	Capacity building asesment and provision. Follow-up technical visits.	In region seminar on port & shallow water surveys.	Capacity building asesment and provision.	nil	
SEPHC	Workshop on site development for publishing data	In region seminar on port & shallow water surveys.New	In region Technical Workshop on Automatic Data Collection, Data	Refreshing Seminar on ENC Production, Distribution and	Seminar on Hydrography contribution to sustainable development.	2006 ENC workshop 2007 Fluvial Hydrographic Survey	

F21 Seminar on Hydrography contribution to sustainable development. Socio-Economic perspectives

A	B	C	D	E	F	
MACHC	In region short refreshener nautical cartography course. Datums and requirements for transfer of charts to WGS datum.	In region seminar on port & shallow water surveys, specially oriented to areas of cruise ship activity.	Technical Workshop on Automatic Data Collection, Data Processing and Data Management	Technical Workshop on ENC Production, Distribution and Maintenance.	Seminar on Hydrography contribution to sustainable development. Socio-Economic perspectives	2006 seminar Visit to Caribbean Basic Training CPRNW Training and GMDSS
SAIHC	WB GEF West Indian Ocean Marine Highway Project + Advice to Angola, Malawi and Namibia.	Seminar for NHC Chairmen	In region seminar on port & shallow water surveys, specially oriented to rivers, lakes and areas of cruise ship activity. Regional Mobile Survey Team	Short refreshener nautical cartography course. Datums. + Follow-up technical visits, as necessary.	Technical Workshop on Automatic Data Collection, Data Processing and Data Management	2006 technical phase 1. CPRNW Training and GMDSS Madagascar Mozambique
NIOHC	CPRNW Training Course on MSI and GMDSS	Regional Survey Team Operations	In region seminar on survey of Red Sea, including port & shallow water surveys.	Technical Workshop on Automatic Data Collection, Data Processing and Data Management	Technical Workshop on ENC Production, Distribution and Maintenance.	2006 Technical 2007 Technical Workshop F
RSAHC	In region seminar on port & shallow water surveys projects including S-44, hydrographic boats and equipment.	CPRNW Training Course on MSI and GMDSS	Technical Workshop on Automatic Data Collection, Data Processing and Data Management	Seminar for NHC Chairmen	Technical Workshop on ENC Production, Distribution and Maintenance.	2006 MB Co 2007 Technical workshop P Workshop on (Cartography and Chart S
SWAHC	Workshop on Fluvial ENC production, distribution and maintenance + Experiences on Print on Demand.	In region seminar on port & shallow water surveys. New techniques. Data validation and Field Quality Control (S-44)	Technical Workshop on Automatic Data Collection, Data Processing and Data Management	Refreshing Seminar on ENC Production, Distribution and Maintenance. New applications.	Seminar on Hydrography contribution to sustainable development. Socio-Economic perspectives	nil

NIOHC Input to IHOCBC5

- Adopt table produced at NIOHC6 as NIOHC CB Management Plan.
- Review and update the Plan with information from National Reports and discussion in earlier Agenda Items.
- Confirm action in hand for items approved for 2007.
- Prioritise the bids in the plan, and select those to be taken forward to IHOCBC5.
- Task Chairman to submit to IHO CBC Chairman by 1 Apr 07.

Discussion Paper for 6th NIOHC Conference

DRAFT NIOHC SUBMISSIONS TO IHOCBC IN 2006

Text in red shows areas for discussion related to NIOHC candidate items submitted to IHOCBC3 in 2005.

Shaded lines indicate possible new submissions for consideration at this meeting.

Priority	Sponsor RHC	Countries	Assistance	Response	Cost		Benefits
Approved Item 2006	NIOHC RSAHC	Eritrea, Saudi Arabia, Yemen and Kuwait	Technical Visit, to include contact with PERSGA national representatives.	IHB visit.	Covered by IHO budget.		Raise awareness at governmental level, and prepare way for Phase 1 Technical Workshop.
Candidate item 2007 NIOHC Priority 1	NIOHC RSAHC	Egypt, Sudan, Djibouti and others to be determined	Technical Visit, to include contact with PERSGA national representatives.	IHB visit or team from NIOHC MS (UK and FR available).	Covered by IHO budget, additional €12k for extra visits.		Raise awareness at governmental level, and prepare way for Phase 1 Technical Workshop.
Candidate item 2007 NIOHC Priority 2	RSAHC NIOHC	Djibouti, Egypt, Eritrea, Saudi Arabia, Sudan	Technical Workshop on Phase 1 Capacity.	<u>Funding</u> a. Lecturers and facilities (tbc).	a. Met by MS contributions (UK, India		Phase 1 Capability increase. Risk Reduction + Potential to reduce risk on

