

**SPECIAL MEETING OF THE SOUTHERN AFRICA AND ISLANDS
HYDROGRAPHIC COMMISSION (SAIHC)
REPUBLIC OF MOZAMBIQUE, MAPUTO 6 JUNE 2006**

FINAL REPORT

1. Location and Venue

The special meeting of the SAIHC was held at the Hotel 'VIP Maputo', Republic of Mozambique, on 6th June 2006, under the chairmanship of Captain Abri Kampfer, South Africa, and hosted by the Instituto Nacional de Hidrografia e Navegaco (INAHINA) of the Republic of Mozambique. The special meeting followed the CBC Technical Workshop on 5th June, which was held at the same venue. The record of proceedings is attached as Annexure A. The following member countries, France, Norway, South Africa, Mauritius, United Kingdom and nine associated member countries, Angola, Kenya, Madagascar, Malawi, Mozambique, Namibia, Portugal, Seychelles and Tanzania were represented. Brazil attended as observer and was allowed an opportunity to give a presentation. A list of participants is attached as Annexure B.

2. Welcome and Introduction

The Chairman, Captain (SAN) Abri Kampfer, opened the special SAIHC meeting at 08:35 and welcomed all the delegates and invited observers from industry, RESON (Pty) Ltd (SA), C&C Technologies, HydroService (Norway) and CARIS (Netherlands).

3. Approval of the Agenda

The agenda was approved and accepted by all. There were no supplementary items.

The chairman informed members that minor editorial changes had been made to the commission's statutes following the last meeting, and he encouraged all delegates of countries represented to ensure that statutes were re-signed by their authorities as confirmation of association to SAIHC.

Captain Yves Guillam (France) suggested that the statutes be sent to all member states of the SAIHC to be signed by appropriate officials representing their country. All delegates agreed with the suggestion.

4. Progress since the last meeting. Review of action items

The chairman reviewed the list of action items from the 5th SAIHC meeting.

Item 3: Invitation to IALA CBC Technical Workshops. Rear Admiral Kenneth Barbor (IHB) announced that an invitation was extended to IALA to attend the special SAIHC meeting. Although IALA showed great interest they could not make it to the meeting because of the time period, but will consider future meetings.

Item 5.2 Providing update data on S-55. On-going. All member countries are encouraged to update their S-55 data.

- Item 5.3 Invitation to Brazil to attend Special SAIHC Meeting. Done. Brazil gave a presentation which covered their activity in Namibia.
- Item 5.4 Providing Malawi with information from the “Workshop on safety of navigation on the Great Rift Valley Lakes”. Mr John Paul Muindi will send Malawi a copy of the information.
- Item 7: Invite to Dr Chris Hardnady to present a Tsunami presentation to SAIHC Meeting in Maputo. An invitation was extended to Dr Hardnady but he could unfortunately not attend.
- Item 12: Date and location of next meeting. Malawi proposed to host the next SAIHC meeting in Monkey Bay. No alternative venues were proposed. Date still to be confirmed, but will probably be at the end of August 2007 or early in September 2007.

5. IHB report on Capacity Building initiatives

The chairman of the IHOCBC, Captain Hugo Gorziglia outlined the IHOCBC decisions and plans for carrying out its immediate goals. A capacity building fund (IHOCBF) has been established to facilitate capacity building through seed-corn activities such as technical workshops and visits, courses and training. Institutions willing to provide and support hydrographic training are encouraged to do so. A major objective was to utilise regional projects to facilitate the improvement of hydrography. It is vital that RHCs assist by identifying needs and spotting regional project opportunities.

6. Technical visits report discussion

The chairman presented a consolidated report on the findings and recommendations of the two Technical Visit Teams (Annexure C). All countries visited were invited to respond to their individual reports.

Upon opening the discussion of the technical visit reports of countries visited, Capt Yves Guillam brought to the fore the need for countries to establish contact and sensitize their governments about the importance of hydrography. They should make use and take advantage of all available means like inviting the media to their conferences in order to reach the attention of the government decision makers and politicians. He also informed the delegates that a proforma format for a generic bilateral agreement is available for those countries that are interested in entering into bilateral agreements. The proforma can be adopted to suit the specific situation of the countries involved.

Captains Kampfner and Barritt stressed the value of IHO/IMO partnership, and the importance of an opening round-table meeting in each country.

- 6.1 Malawi Report Discussion. Mr Michael Mzunzu highlighted the impact the technical visit had on raising the awareness of the state of hydrography and mentioned that the visit was received very well. He gave feedback on the issues raised in the technical report as follows:

- 1) The main problem they are facing is the lack of adaptability by their aged cartographic staff who are finding transition from manual to digital charting difficult. They have started training younger persons to reach their immediate goals.
- 2) He also mentioned that the issue of national coordinator for Maritime Safety (GMDSS) has been resolved and they have appointed someone who has assumed this responsibility.
- 3) He shed light on the issue of chart and publication production and distribution. The process is close to completion and distribution will be through the hydrographic office.
- 4) The other problem was the inactivity of trained personnel. He drew attention to the inactivity of members who are trained in hydrography but are not receiving practical experience. The suggestion was made of considering combined survey efforts by regional survey qualified members.

6.2 Tanzania Report Discussion. Mr Ignatious Nhyete indicated that the national hydrographic committee (NHC) is yet to meet and discuss the technical report. He nonetheless pointed out the developments since the last visit by the technical team as follows:

- 1) The survey launch, RV JUMUIYA, for the Lake Victoria project has been commissioned by the East African Community (EAC) but is not yet fully equipped with survey equipment. The next meeting of the EAC will discuss the means of procuring the financial support for the survey equipment of the boat.
- 2) The Priority Survey Plan has been devised and the ports are top of the priority and a detailed plan for the port surveys is in place.

6.3 Kenya Report Discussion. The technical visit report was received very well. The following developments were also discussed:

- 1) NHC is yet to meet.
- 2) Phase 1 has started with help from the IMO regional secretary Mr John Paul Muindi.
- 3) The Hydrographic section is still trying to gather information of the past surveys conducted in the region in order to devise a well-informed Priority Survey Plan. UKHO was requested to assist in obtaining information of past surveys conducted in the region.
- 4) Kenya is not aware of the latest developments concerning the Lake Victoria Survey Project. R Adm Barbor (IHB) will ensure that the Kenyan hydrographic section receives a copy of the latest documents regarding the project. (There is no soft copy of the documents, only hard copies).

6.4 Namibia Report Discussion. The NHC had held a second meeting to discuss the visit report. Capt Vladimir Gusev mentioned that “the report has changed the outlook of Hydrography in Namibia”. On other issues raised in the report the feedback was as follows:

- 1) NAMPORT will be responsible for hydrography in ports. Coastal Surveys and the production of charts and publications will be outsourced.

- 2) Working towards achieving IHO member status.
 - 3) Intent on maintaining the bilateral relationship with South Africa with regards to issues of training and development.
- 6.5 Seychelles report discussion. The report was well received and it served to sensitize the government on issues of the importance of Hydrography. The following points were also mentioned:
- 1) Foreign assistance. India is providing training and will continue assisting with surveys during ship deployments in the Indian Ocean. France and UKHO have provided data of previous surveys.
 - 2) Status of the Survey Unit. The unit continues to lose trained personnel to the commercial sector.
- 6.6 Madagascar Report discussion. Mr Victor Andriampanana explained that Madagascar does not have any policy on hydrography, but they are planning to establish a national hydrographic policy. . It is the intention to convene a workshop to establish a National Hydrographic Committee. The Hydrographic Unit is a very small organisation with only two(2) hydrographers and one(1) oceanographer. With this manpower capacity they can only conduct small inshore surveys.
- 6.7 Mauritius Report discussion. India and Mauritius have a bilateral agreement and India will assist with developing hydrography in Mauritius. At the moment there is no established NHC and measures are being taken to establish one.
- 6.8 Mozambique Report Discussion. The one issue that needs attention is the working relationship between INAHINA and other maritime role players within the country. INAHINA as the overall authority for the promulgation and transmission of MSI requires close co-operation of other role players.
- There is an intention to develop a priority survey plan and INAHINA needs assistance as far as this matter is concerned. The plan from INAHINA is to attempt acquiring side scan sonar and multi-beam equipment and arrange for the members to receive training in operating this equipment. At the moment personnel from INAHINA are involved in the Malawi (Nyasa) lake project in co-operation with Malawi.
- The cartography section is currently experiencing problems with their software and will welcome any assistance in this regard as most of the staff members are still new in the job and not experienced enough. Post-meeting Note: Support to resolve the problems was provided by the CARIS representatives who attended the meeting.
- 6.9 Angola Report Discussion. The Angolan delegation provided a national report.(Annexure D).
- 6.10 Portugal Presentation. Capt Carlos Nelson Lopez da Costa made a presentation on the cooperation of Portugal in the domains of hydrography, oceanography and navigation with SAIHC countries and future undertakings. (Annexure E).

7. Regional on going and/or planned projects

- 7.1 Western Indian Ocean Marine Highway. The vice chairman of SAIHC will provide feedback on the project as more information becomes available.
- 7.2 Lake Victoria Project. IHB and IMO were asked to clarify the status of this project.
- 7.3 Lake Nyasa/Malawi Survey. This is a combined effort of Mozambique and Malawi and is in progress.
- 7.4 Indian Ocean Oil Spill Project and South Western Indian Ocean Fisheries Project. These are projects to be conducted under auspices of the Indian Ocean Community (IOC).
- 7.5 Madagascar. The Madagascar delegation reported that a joint development project with France was underway.

8. Regional capacity building initiatives discussion

The Chairman opened the discussion on the way forward for SAIHC. He emphasised the importance of all member countries getting phase 1 completed to be able to move forward. The SAIHC capacity building management plan was formulated and is attached as Annexure F.

9. Action List

The following action list was compiled:

- 1) Statutes to be sent to all member states. Statutes to be signed by an appropriate official representing the country. **(SAIHC Chairman)**.
- 2) IALA to be invited to future SAIHC meetings. **(SAIHC Chairman/ IHB)**.
- 3) All member states are to update their S-55 data. **(All MS)**.
- 4) Date of next SAIHC meeting in Malawi as host country still to be confirmed. **(Malawi / SAIHC Chairman)**.
- 5) All member states are to identify their National Capacity Building requirements. **(All MS)**.
- 6) Member States are to develop a Priority Survey Plan. **(All MS)**.
- 7) Submit to IMO minor amendments to the GMDSS Master Plan of some MS details. **(SAIHC Chairman / IHB)**.

10. Closing

The Chairman thanked the delegates for their contributions, which would enable him to make a firm bid to the IHOCBC for assistance to maintain the momentum achieved during the technical visits. The Chairman then called on Rear Admiral Kenneth Barbor to close the meeting.

The meeting adjourned at 17:05 on 6 June 2006.

**RECORD OF PROCEEDINGS: CAPACITY BUILDING TECHNICAL WORKSHOP:
MAPUTO – MOZAMBIQUE 5 JUNE 2006**

1. Welcome and Introduction

The Chairman of the Capacity Building Committee, Captain Hugo Gorziglia (IHB) opened the Capacity Building Technical Workshop, introduced the chair group and provided the delegates with a brief overview of the objectives and expected outcomes of the workshop. He thanked all IHO Member States that have contributed with human as well as with financial resources to make the Workshop possible and also the hydrographic related private sector for their interest in participating in the event. The Director of the Mozambique National Institute of Hydrography and Navigation (INAHINA), Mr Select Mundlovo, welcomed the delegates to Mozambique and briefly discussed the domestic programme for the day.

2. Presentations

A series of presentations was delivered by various speakers to inform delegates on the importance of Hydrography, the phases of development of hydrographic surveying and nautical charting and its present status within the SAIHC region. Specific emphasis was placed on the need to establish a phase one (“Collection and circulation of nautical information necessary to maintain existing charts and publications up to date”) capability. Copies of all presentations were made available to delegates on a compact disc.

2.1. Importance of Hydrography: Captain Hugo Gorziglia (IHB)

Captain Gorziglia gave a very informative briefing covering the broader aspects of Hydrography and its uses. Notice should be taken of the following main conclusions:

- 1) All Maritime States should be aware of the social-economic benefits of having a specialized governmental agency to handle Hydro-Cartographic and Aids to Navigation matters. One authority is needed to coordinate this national effort. The establishment of a National Hydrographic Committee should be strongly considered as a matter of high priority.
- 2) National hydro-cartographic and aids to navigation planning and programming should be worked out with the participation of all end users of these products. The participation of the academia as well as the private sector is recommended.
- 3) Those Maritime States with a certain degree of hydro- cartographic and aids to navigation capabilities, should consider an in depth analysis to identify ways to improve the present situation. Those Maritime States without a national structure should consider developing one with the advice of both the IHO and IMO.

2.2. IHO Capacity IHO Capacity Building Strategy - The 3 Stages of Development of Hydrographic Capacities: Captain Yves Guillam (SHOM)

The briefing provided a better insight to the IHO Capacity Building Strategy with regards to the aim, the processes involved and the methodology of establishing priorities for intervention. A very

concise explanation of the three phases of Hydrography and the basic requirements and interventions needed for each phase was presented.

2.3. Maritime Safety Information (MSI) Global Maritime Distress and Safety Systems (GMDSS): Mr Malcolm Nelson (SANHO)

Maritime Information Service is an internationally coordinated network of radio broadcasts containing information which is necessary for safe navigation, received on all ships by equipment which automatically monitors the appropriate frequencies and prints out in simple English only that information which is relevant to the ship.

MSI is categorized under the Global Maritime Distress and Safety System (GMDSS). It is a global communication service based upon automated systems, both satellite based and terrestrial, to provide distress alerting and promulgation of MSI for mariners. GMDSS applies to all cargo ships of 300 gross tons and above on international voyages, and to all passenger ships, regardless of size, on international voyages.

Member countries were encouraged to make some start in MSI. It is an involved technical subject and advice from other national experts will have to be sought. Funding will be an essential requirement to establish a radio communication network in aid of MSI.

2.4 The Importance of Accurate Nautical Information. Liabilities: Ms Elizabeth Dunn (UKHO)

The briefing provided a very clear explanation of the term nautical information, the importance thereof, means of promulgation and the legal liabilities when ignored. The quote by **IGA J.N. Pasquay** regarding the obligations and professional conscience of the hydrographer is most apt:

“The obligation of the hydrographer resides in the care, the competence and the diligence he must show in the exercise of his profession. ... survey ...to the required professional standards ...changes ...brought to the attention of mariners in a reasonably short lapse of time.” “...all hydrographers are fully aware of the danger to which they might expose mariners as a result of any negligence ... their work is meticulous ...”

2.5. S-55 “Status of Hydrographic Surveying and Nautical Charting Worldwide”.
Objective – Content – Analysis - Use & Update: Captain Mike Barritt (Vice Chairman IHOCBC)

An overview of the IHO Special Publication S-55: “Status of Hydrographic Surveying and Nautical Charting Worldwide” was presented. It is now available as an online data-base (www.iho.int) and member countries were requested to keep the database up to date. The database is a very important tool and it is recognised as such by the UN and IMO. (IMO MSC Circular 1179 calls on all coastal states to address deficiencies)

S-55 provides strategic data to identify key deficiencies in survey, charting and MSI. The following main conclusions regarding the SAIHC region should be noted:

1.) Nautical charting

- Many charts are on local datums. Often transfer parameters to WGS 84 are unknown.
- Many charts are based on inadequate surveys.

2.) Hydrographic Surveying

- 52% of SAIHC coastal states have less than 25% of waters within the 200m contour adequately surveyed to modern standards.
- Routine re-survey programme required.
- Vigias to be disproved.

3.) MSI/GMDSS

- Urgent** steps are required to implement GMDSS. Full implementation in only 18% of SAIHC countries.
- Communication with NAVAREA co-ordinator and charting HOs must be improved.

3. **Discussions**

During the discussion period each member state (MS) was given the opportunity to provide general feedback on the status of Hydrographic Surveying, nautical charting and MSI/GMDSS and in particular if there were any new developments since the technical visits. It became clear from the forum that most MS are not fully GMDSS compliant and that MSI awareness is lacking. MSI is disseminated mostly via NAVTEX broadcasts and categorised under Sea Areas A1 and A2. The emphasis is on radio communication network equipment and training being the two most important elements that need to be considered. The landlocked states in particular need to be considered for training in GMDSS and possible incorporation into existing NAVAREAS. Minor amendments to the GMDSS Master Plan of some MS details were also identified. (**Action: SAIHC Chairman**)

MS are encouraged to identify a key person in the field of hydrography to lead the way in establishing National Hydrographic Committees (NHC) and to sensitise and get Government involved in hydrographic issues. IHO publication M-2 provides valuable information and guidelines and is available for free download from the IHO website (www.iho.shom.fr).The media is a good mechanism to disseminate hydrographic awareness at a national level.

The shortcoming in hydrographic survey capabilities were also identified. MS were advised to initiate a priority Survey Plan as a starting point and will be assisted by MS who have the expertise in such planning.

Some MS announced that over and above getting Phase 1 progressing, they are also involved with other important projects inter alia, Malawi with the Shire-Zambezi project.

4. **Conclusion**

The Chairman concluded by thanking all participants for their contribution and participation. The Chairman stated that the success of the technical workshop has laid the foundation for the Special SAIHC Meeting where capacity building initiatives for SAIHC must be formulated.

Annexure B

**TECHNICAL WORKSHOP AND SPECIAL SAIHC MEETING
MAPUTO, MOZAMBIQUE, 5 – 6 JUNE 2006**

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Annexure C

IHB Reference: S3/0127 & S3/3080/A
 SANHO Reference: FOF/HYD/R/320/19/1

3 June 2006

See Distribution

REPORT OF THE SAIHC TECHNICAL VISITS 2006

Reference:

A. SAIHC FOF/HYD/R/320/19/1 dated 15 December 2005

INTRODUCTION

1. Background. The visits arose from discussions in the Conferences of the Southern Africa and the Islands Hydrographic Commission (SAIHC), and proposals in the Work Programme of the IHO Capacity Building Committee (IHO CBC). The IHO was particularly keen that ongoing development of the Lake Victoria Safety of Navigation Project and the World Bank West Indian Ocean Marine Highway (WB WIO MH) Project should reflect a clear appreciation of the existing hydrographic capability and capacity building requirements of the SAIHC Member States (MS). The Terms of Reference for the visit teams are at Annex A.

2. Composition of Teams. The SAIHC Team which visited Malawi, Mozambique, Tanzania, Kenya, Namibia and Uganda comprised Captain Abri Kampfer SAN and Captain Mike Barritt RN. They were accompanied by Mr John Paul Muindi, IMO Regional Co-ordinator for Eastern and Southern Africa. In Mozambique they were joined by Capitão-de-Mar-e-Guerra Carlos Néelson Lopes da Costa of the Instituto Hidrográfico of Portugal. The team which visited the Seychelles, Mauritius and Madagascar comprised ICA Yves Guillam and Captain Antoine d' Audiffret FN from SHOM, M. Michel Huet of IHB, and M. Dmitri Travin of IOC.

3. Countries Visited. An outline of events is at Annex B. Individual Country Reports are also annexed. Each report has been seen by the authorities in country. A copy of this summary report, and their own country report, has been provided to each of the countries which has been visited.

OVERALL ASSESSMENT OF THE SITUATION IN REGION

4. Efficacy of the Visits. This is a difficult region within which to gain visibility and priority for hydrography amongst the many other challenges of governance. The success of this exercise depended on access to political decision-makers as well as technical practitioners. This aim was secured through partnership with other international organisations and the in country posts of IHO Member States. The mainland technical visits were conducted as a joint IHO/IMO undertaking. This teamwork sent a powerful message of intent to back up the ongoing liaison exemplified by IMO MSC Circular 1179 of 2005. Furthermore, without John Paul Muindi's network of contacts it would have been much more difficult to put the visit plan in place in the desired timescale. The visits to the island states in the Indian Ocean were co-ordinated through French diplomatic channels with IOC support. It is strongly recommended that a joint approach should be adopted whenever possible for future capacity building technical visits. In each of the countries visited the teams experienced a good reception and commitment to preparation, often including the drafting of written reports. In some instances press conferences and good media interest led to increased participation in discussions. Letters offering visits should emphasise that, to optimise the use of tight timetables, an early round table meeting of stakeholders should take place, with subsequent short courtesy calls to debrief Ministers and senior officials.

5. Co-operative Arrangements and Potential. Significant developments and project activity will require the engagement of the resources of the World Bank and other funding agencies, and continued bilateral arrangements with IHO MS, acting as lead nation for regional Hydrographic initiatives, and with spare survey and charting capacity. Meanwhile, there is ample scope to pool the slender national resources of the countries which were visited. Malawi and Mozambique are setting a good example during 2006 on Lake Malawi/Nyasa. The Visit Team considered that a firm and proactive lead by the EAC would be needed to pick up the necessary momentum with the long-needed survey and charting of Lake Victoria.

6. Country Summaries. The following Tables summarise the situation which the Team encountered.

Table 1: Assessment of National Hydrographic Capability.

Country	IHO Member	SAIHC Member	NHC	Phase 1 Capacity	Phase 2 Capacity	Phase 3 Capacity	Notes
Kenya	No	Associate	Yes	Partial	No	No	1
Madagascar	No	Associate	No	No	No	No	
Malawi	No	Associate	Yes	Partial	Partial	No	1
Mauritius	Yes	Associate	No	Partial	No	No	2
Mozambique	Yes	Yes	No	Partial	Partial	Partial	
Namibia	No	Associate	No	Partial	No	No	
Seychelles	No	Associate	No	Partial	No	No	1, 3
Tanzania	No	Associate	Yes	Partial	Partial	No	
Uganda	No	No	No	No	No	No	

Notes:

1. IHO membership application process proposed.
2. SAIHC statutes to be signed.
3. CG provides national co-ordination.

Table 2: Summary of Progress towards Implementation of GMDSS.

Country	Master Plan	A1 Area	A2 Area	A3 Area	NAVTEX	Safety NET	Notes
Kenya	No	No	No	No	No	No	1
Madagascar	No	No	No	No	No	No	
Malawi	No	No	No	No	No	No	
Mauritius	Yes	Yes	Yes	No	Yes	No	
Mozambique	No	Yes	No	No	No	No	1, 2
Namibia	No	No	No	No	Yes	No	2
Seychelles	Yes	No	No	No	No	No	
Tanzania	No	No	No	Planned	No	No	1
Uganda	No	No	No	No	No	No	

Notes:

1. Proposals for NAVTEX or SafetyNET should be clarified during establishment of the East African MRCC in Mombasa and MRSCs in Dar es Salaam, Maputo and Antananarivo.
2. NAVTEX cover for Namibia is provided by arrangement with South Africa, and SafetyNET coverage is available for Mozambique through the NAVAREA VII co-ordinator in South Africa.

CONCLUSIONS

7. Co-operative Opportunities. The Visit Team consider that SAIHC should encourage the countries to pursue the following opportunities:

- a. Use of regional training facilities e.g. Dar es Salaam Marine Institute or Escola Superior de Ciências Náuticas in Maputo for MSI/GMDSS training.
- b. Kenya, Seychelles and Tanzania should provide early feedback on prioritised national survey plans and staffing intentions so that CB benefits can be co-ordinated from WB WIO MH funding.
- c. Under the auspices of the EAC, the concept of a joint survey team on Lake Victoria, and possibly on other Great Lakes, should be fully explored.

8. National Hydrographic Committees. In all the countries visited the national authorities had found that the inter-departmental discussions prompted by the SAIHC Technical Visit were immensely beneficial to improve awareness of ongoing activities in the maritime sphere. This is a powerful argument for the establishment and regular convening of a NHC, not least to ensure that resources are applied to best effect. SAIHC should seek to encourage the NHCs by regular communication e.g. for update of S-55; for bids to the annual IHOCBC meeting.

9. Potential for Development of National Capability, or for Improved Liaison with Co-ordinating Authorities. Delegations of hydrographic responsibility must be matched with national budgetary allocations to enable appropriate and sustainable Phase 1 and 2 capabilities to be established. Where applicable, the countries should put their pragmatic arrangements with other countries for the delivery of Phase 3 output on a formal basis, through bilateral arrangements. The NHCs should be alert for major marine/environmental projects in their countries which should have a hydrographic component. Table 3 summarises the conclusions arising from the visits on the level of capability which is achievable and sustainable for each of the countries visited.

Table 3: Proposed National Hydrographic Capability.

Country	IHO Member	SAIHC Member	NHC in place	Phase 1 Capacity	Phase 2 Capacity	Phase 3 Capacity	Notes
Kenya	Recommended	Recommended	Yes	Full	Partial	N/A	1
Madagascar	Recommended	Recommended	Recommended	Full	Partial	N/A	1
Malawi	Recommended	Recommended	Proposed	Full	Partial	Partial	1
Mauritius	Is a member	Is a member	Recommended	Full	Partial	N/A	1
Mozambique	Is a member	Is a member	Recommended	Full	Partial	Partial	1, 2
Namibia	Recommended	Recommended	Recommended	Full	Partial	N/A	3
Seychelles	Recommended	Recommended	Recommended	Full	Partial	N/A	1
Tanzania	Recommended	Recommended	Yes	Full	Partial	N/A	1
Uganda	See Note 4	Recommended	Recommended	Full	Partial	N/A	1, 4

Notes:

1. Arrangements with other IHO MS for chart production and distribution should be formalised through a bilateral arrangement.
2. In the short to medium term, Mozambique should focus on consolidation of appropriate and sustainable capacity for data gathering, management, and dissemination through bilateral arrangements with charting HOs.
3. Existing pragmatic arrangements with South Africa should be continued.
4. In the short term, other EAC MS in SAIHC will communicate information from IHO to Uganda.

RECOMMENDATIONS

10. Urgent MSI/GMDSS Actions. The Visit Team consider that IHO CPRNW should provide early advice in the region, especially for the Mombasa MRCC. The IHOCBC should give high priority to funding a CPRNW training course in region if the bid is forwarded by SAIHC.

11. SAIHC/CBC Follow-up Actions.

- a. Assistance to and encouragement of NHCs. Provide advice to all countries on the development of their prioritised national survey plans
- b. Funding. In addition to any funds which are obtained from the IHOCBC, bilateral assistance should be sought from SAIHC members and other IHO MS to permit the countries visited to send participants to the regional conferences and to training courses in region. The countries themselves should also investigate how they can reduce costs by making facilities available for regional opportunities.
- c. Training. There is considerable scope to reduce costs and facilitate attendance at training sessions by using existing centres in the countries visited. Training of hydrographic surveyors for each country must be structured in accordance with a clear plan which takes subsequent employment, career

development and succession planning into account. The IHOCBC may consider an in region seminar on port/SW surveys within the next 2 years, and this would be of great benefit to all the countries visited.

12. Follow up opportunities. The SAIHC special meeting and technical workshop to be held before the next IHOCBC present a strategic opportunity to maintain momentum in the region, but clear and timely engagement by the individual states is essential.

A KAMPFER
Captain SAN
Chairman SAIHC
Annexes:

- A. Terms of Reference of the SAIHC Technical Visit Teams.
- B. Summary of Events.
- C. Country Report: Malawi.
- D. Country Report: Tanzania.
- E. Country Report: Kenya.
- F. Country Report: Namibia.
- G. Country Report: Uganda.
- H. Country Report: Mozambique.

Distribution:

Chairman CBC
Countries visited (Report, Annexes A and B, and Country Annex)

Information:

Mr John Paul Muindi IMO

ANNEX A TO
FOF/HYD/R/320/19/1
DATED 3 JUN 06

TERMS OF REFERENCE OF THE IHO SAIHC VISIT TEAM

1. The SAIHC Visit Team, comprising members of the staffs of the Hydrographic Services of [] and [], are to carry out visits to the nations which have indicated a willingness to discuss deficiencies in surveying, charting and WNWNS.

Work to be done

2. The Team is to:

- a. obtain access to decision making levels of government in each country visited and liaise with senior officials, emphasising the importance of hydrography and the requirements of SOLAS Chapter V (Regulations V2/2, V/4 and V/9) and the need to develop national plans to meet these obligations;
- b. review the status of host nation hydrographic services as shown in IHO S-55;
- c. advise on measures which can be taken to improve these services through viable and sustainable local arrangements and liaison with other Hydrographic Services;
- d. propose to the host nation draft implementation plans and milestones;
- e. note requirements for capacity building support which should be assessed by SAIHC for submission to the IHO Capacity Building Committee.

Report

3. A Report of the assessments and recommendations of the Team is to be submitted to the countries through the Chairman of SAIHC by 1 March 2006.

ANNEX B TO
FOF/HYD/R/320/19/1
DATED 3 JUN 06

SUMMARY OF EVENTS

<u>Date</u>	<u>Event</u>
	Visit to Malawi
19 Feb 06	Team arrived Lilongwe, Malawi.
20 Feb 06	<p>a. Meeting of Special Committee for Hydrography, chaired by Mr D.O.C. Gondwe, Surveyor General, with the following attendees: Captains A. G. K. Nkhoma and T. W. Kamanga of the Marine Department, Ministry of Transport and Public Works; Captain A. Nkhoma of Malawi Lake Services Ltd.; Superintendent N. Chonde of the Malawi Police Marine; Mr R. Kanjedza of the Environmental Affairs Department; Mr P. Kadewere of the Ministry of Water; and Mr M. Mzunzu, Head of the Hydrographic Survey Unit, Department of Surveys.</p> <p>b. Call on Mr G. C. Mkondiwa, Secretary for Lands, Housing and Survey.</p> <p>c. Reception attended by the Honourable Bazuka Mhango, Minister for Lands, Housing and Survey.</p>
21 Feb 06	Team departed Lilongwe, Malawi, and arrived Dar es Salaam, Tanzania.
	Visit to Tanzania
22 Feb 06	<p>a. Call on Mr C. S. Mwaijande, Acting Permanent Secretary, Ministry of Lands & Human Settlements Development, and Acting Director of Surveys & Mapping.</p> <p>b. Call on Mr O. Chambo, Deputy Permanent Secretary, Ministry of Infrastructure Development.</p> <p>c. Visit to Dar es Salaam Maritime Institute.</p> <p>d. Call on Director for Construction, Ministry of Defence.</p>
23 Feb 06	<p>a. Call on Mr G. F. Nanyaro, Director of Fisheries, and Mr D. B. Kasunga, Assistant Director of Tourism, Ministry of Nature Resources and Tourism.</p> <p>b. Call on Mr S. Salula, Deputy Permanent Secretary, Vice President's Office, Ministry of Environment.</p> <p>c. Meeting with the National Hydrographic Committee.</p> <p>d. Departed Tanzania and arrived Nairobi, Kenya.</p>
	Visit to Kenya
24 Feb 06	<p>a. Meeting at Ministry of Lands with Mr Kombo Mwero, Permanent Secretary (P. S.), Mr J. K. Mathenge, Director of Surveys, Survey of Kenya (SOK), and Chairman of the National Hydrographic Committee (NHC), and Mr J. G. Halake, Head of Hydrographic Unit, Survey of Kenya and Secretary of the NHC.</p> <p>b. Meeting with officials from Shipping and Marine Affairs Division of Ministry of Transport, Ministry of Environment & Natural Resources, National Oil Corporation, and Regional Centre for Mapping of Resources for Development.</p>
26 Feb 06	Team travelled from Nairobi to Mombasa.
27 Feb 06	Round table meeting chaired by Mr P. W. K. Mbiriri, of the Kenyan Ports Authority (KPA), attended by representatives of Kenya Navy, Kenya Marine & Fisheries

Research Institute (KMFRI), Kenya Ferry Services, and SOK officials from Nairobi and the coastal districts.

- 28 Feb 06
- a. Briefings at KMFRI.
 - b. Visit to KPA and MRCC.
 - c. Team departed Mombasa and arrived Nairobi.
- 1 Mar 06
- Debriefing for Mr K. Mweru, P. S. Ministry of Lands, Mr G. Ikiara, P. S. Ministry of Transport, Mr Z. Mwaura, P. S. Ministry of Defence, and other government officials.
- 2 Mar 06
- Team departed Nairobi, Kenya and arrived Windhoek, Namibia.

Visit to Namibia

- 3 Mar 06
- a. Round table meeting chaired by Mr M. M. Nangolo, Director Maritime Affairs, Ministry of Works, Transport and Communication, attended by representatives of the Ministry of Defence Naval Command, Ministry of Fisheries and Marine Resources, and NAMPORT.
 - b. Debriefing for Deputy P. S., Ministry of Works, Transport and Communication.
- 4 Mar 06
- Team departed Namibia.

Visit to Uganda

- 5 Mar 06
- Team arrived Entebbe, Uganda. Met by Mr P. Sanya, Commissioner for Transport Regulation.
- 6 Mar 06
- a. Meeting with Mr J. G. Itazi, Director of Transport and Communications, Ministry of Works, Housing and Communications (MOWHC).
 - b. Visit to Port Bell and meeting with Mr M. Eroju, Chief Marine Manager, Uganda Railways Corporation.
 - c. Meeting with Captain P. N. W. Musoke, Managing Director, Kampala Maritime Freight Services Ltd.
 - d. Meeting with Mr T. de Wet, CEO National Lake Rescue Institute, East Africa.
- 7 Mar 06
- a. Meeting at Water Resources Management Development Department, Entebbe, with Ms Florence Adongo, Assistant Commissioner.
 - b. Meeting with Civil Aviation Authority and Commandant Uganda Police Marine. Tour of airfield rescue craft stations.
 - c. Team departed Uganda on completion of mission.

Visit to Mozambique

- 1 Jun 06
- a. Round table meeting chaired by Mr S. Mundlovo, Director INAHINA, attended by representatives of the maritime sector.
 - b. Visit to Escola Superior de Ciências Náuticas.
 - c. Visit to INAMAR Maputo Control Centre.
 - d. Visit to INAHINA Cartographic Section.
- 2 Jun 06
- a. Discussions at INAMAR main offices.
 - b. Visit to Empresa Moçambicana de Dragagem (EMODRAGA).
 - c. Visit to CENOCARTA.
 - d. Visit to INAHINA Aids to Navigation Department, and Sales Office.
 - e. Call on Mr A. F. Munguambe, Minister of Transport and Communications.
 - f. Discussions with Director and Head of Hydrography Section INAHINA.



**REPUBLIC OF ANGOLA
MINISTRY OF TRANSPORTS**

**TECHNICAL WORKSHOP AND SPECIAL SAIHC MEETING
MAPUTO, 5-6 JUNE 2006**

NATIONAL REPORT

I-INTRODUCTION

Angola's 1.650 km coastline is considered one of Africa's richest. The cold Benguela current in the southern part of the coastline is particularly rich in fish and other marine species.

Offshore oil production is fundamental to the economy, contributing 45% of the Gross Domestic Product (GDP) and constituting around 90% of exports and over 80% of government revenue.

In order to diversify the local sources of revenue and reduce dependency on petroleum and mining industries the Government is now promoting other sectors of the economy, including fishing, agriculture and maritime transportation, actually there are six harbours (two major harbours and four minor ones along of the coastline).

Some politic-diplomatic and Institutional actions were taken, at internal and external levels, concerning Hydrographical and

Safety of the navigation matters aiming the revitalization of the Hydrographical activities with the creation of the future Hydrographic and Buoy age Institute of Angola.

II- ACTIONS DEVELOPED

2.0 – HYDROGRAPHY

Some actions were taken in this field, in Luanda Ports, in particular in the adjacent area to the new oil terminal, with the purpose to update the bathymetry in the area in order to mark the access channel as well as the marks of other dangers in the area, also to follow-up the activities of hydrographic, buoy age, dredging and navigation aids system of the river Congo.

Likewise, geographical and geophysical studies were accomplished in Cabinda Port in the sphere of action of its rehabilitation and re-equipment project.

Furthermore, with the purpose of laying down optical fiber cable in scope of SAT-3 project of which Angola Telecom is partner, hydrographic surveys have been done at oceanic, coastal and local levels, the latter in the mooring place of Cacuaço bay.

Regrettably, due to a lack of means, foreigner firms performed all these works, while Direction of National Maritime Merchant of Ports role was limited to follow-up and surveillance.

2.1-AIDS TO NAVIGATION

The navigation marks in Angola are concentrated at the Ports and placed to assist the navigator in making a safe landfall and his/her approach in to the Ports.

This field encloses the recovering of means and equipment program within the navigation aids system of the Coast and Port basins of Angola.

Rehabilitation of twelve (12) lighthouse, fifteen (15) lights and seventeen (17) buoys along of the Coastline.

Actually, a public bid is running for the recovery of seven (7) lighthouse and twenty five (25) lights in the province of Cabinda, Zaire and Namibe.

2.2-COOPERATION

The Direction of National Maritime Merchant and Ports, the Angolan state body responsible for the hydrographic and safety of navigation activities, has developed numerous contacts with a view to the re-establishment and strengthening of cooperation with the countries with whom has developed cooperation ties for a long time.

Interrupted contacts with the Portuguese Hydrographic Institute and with a private company of Portuguese law have been re-established with the purpose of launching the hydrographic and

buoying activities, also to create definitely National Hydrographic Institute.

2.3- RECOMMENDATION

Technical assistance and financial support to help in the implementation of National Hydrographic Institute.

Scholarship for Angolan technicians in the field of Hydrographic, nautical signalization and cartography.

Luanda 10th of June 2006

By the Angolan delegation

Filomeno H.C.M. da Silva

**Portuguese National Report to the Special SAIHC Meeting, Maputo, Mozambique, 6JUN06
(29thMAY06)**

In what concerns the cooperation of Portugal in the domains of hydrography, oceanography and navigation with SAIHC countries there have been progresses with Mozambique and Angola.

We will summarize the main activities, since 2003 and prospective for the future, with both countries.

Cooperation with Angola:

- IHPT diagnostic mission, on request of Direcção Nacional de Marinha Mercante e Portos de Angola, from Transportation Ministry, in the period of 22-28MAR03, at Luanda. Were visited or contacted entities such as the three departments of Direcção Nacional de Marinha Mercante e Portos de Angola (Harbours, Maritime Safety and Commercial Shipping), the Luanda Harbour Authority (Capitania do Porto de Luanda), Angola Cartographic and Geographic Institute, Port of Luanda (technical and commercial departments) and Luanda Pilots. Elaborated the Report with suggestions for the creation and development of hydrographic service (IHPT - REL.TF.DT 01/03, APR03).
- 5 students appointed by the Angolan authorities frequented the category A Hydrographic Course, in Portugal, during 2003/2004.
- In recent past there was an approach from Angolan Navy, via Portuguese Defence Ministry, for contacts with IHPT about the Continental Shelf Extension project.
- IHPT plans to build Angolan ENC cell corresponding to INT Chart 2050 (complete Angolan Coast), during 2008.

Cooperation with Mozambique:

- 1 student frequented the category A Hydrographic Course, in Portugal, during 2004/2005.
- Portugal – Mozambique bilateral meeting, 15JUN04, Lisbon, for balance and project future actions.
- On job training at the IHPT - Oceanography Division, of one INAHINA oceanographer, from 29JAN05 up to 01APR05.
- On job training at the Portuguese Navy Lighthouses Direction, of one INAHINA technician, from 29JAN05 up to 01APR05.
- Meeting IHPT, UKHO, INAHINA and SANHO, at margin of 3rd EIHC, Monaco, 14APR06 resulting clarification about the co-production of INT paper charts and ENC charts of Mozambique (see summary below).
- On job training at INAHINA, Maputo, about Computer Assisted Cartography (CARIS), during three weeks, in May 2005, by one IHPT cartographer. Eleven INAHINA motivated technicians or operators attended. The purpose of this training was to consolidate compilation and drawing techniques and the organization of Notices to Mariners. It was noticed that the INAHINA has developed the capacities for hydrographic surveys (DGPS, Hypack and single beam sounders), and its interest in the progress of cartography. It was also felt the desire to continue this Computer Assisted Cartography training for a more advanced level.
- On job training at INAHINA, Maputo, about Aanderaa current meter operation, during two weeks, May 2005, by two IHPT technicians. The training was about the equipment operation, mooring design, practical mooring and recover of the current meters at sea, near Maputo, and data transfer to computer processing. It was attended by five motivated INAHINA technicians.
- Portugal – Mozambique bilateral meeting, 31MAY05, Maputo, to plan future actions. The areas of interest for cooperation are: continuation of training of Mozambique technicians at IHPT category A Course; support by IHPT for the implementation of a category B Course at INAHINA; continuation of support for the computer assisted cartography; training at IHPT relative to the desk top study for the Continental Shelf Extension; IHPT support for deep water or coastal hydrographic surveys; edition of Tide Tables.
- IHPT plans to produce two ENC cells (PT20401A and PT20401B), corresponding to the Mozambique Channel (or INT nr. 7053 and 7054), during 2007, based on national paper chart 401 (from south of Nacala up to south of Maputo).

Charting of Mozambique:

A meeting was held at 3EIHC, Monaco on 14APR05, to discuss the charting of Mozambique.

The presents were:

Albano Gove – Mozambique

Estevão James – Mozambique
Abri Kampfner – South Africa
Carlos Lopes da Costa – Portugal
Peter Wright – UK
Paul Canham – UK

References: E-mails from IHPT, 19APR05; and UKHO, 29APR05.

Paper Charting:

INT Charts:

The three small scale INT charts for which Portugal is the assigned producer nation will be compiled and issued by the UKHO based on Portuguese historic charting and new survey and other data from Mozambique. The charts to be badged: UK, Portugal and Mozambique – and INT.

Medium and Large Scale Charts:

The same approach as for the INT charts. The charts to be triple badged. As capability in Mozambique is developed, charts would be handed over to Mozambique for their national series, and adopted by UK.

In both cases schedule will be produced by UKHO, to be issued to the three nations.

Notices to Mariners:

South Africa will continue to issue NMs.

ENC Charting:

INT Charts:

Portugal will produce ENCs of the two small scale INT charts when it has completed its own water's ENCs – which will take the next 4 or 5 years.

Medium and Large Scale Charts:

UKHO to produce a proposal on ENCs of the non INT charts.

Annexure F

SAIHC CAPACITY BUILDING MANAGEMENT PLAN(Compiled at SAIHC Special Meeting in Maputo, June 2006.)

Priority	Sponsor RHC	Countries	Assistance	Response	Cost	Allocation	Benefits
COMPLETE	SAIHC	States of the region	Technical Visit to 8 countries	<u>Funding</u> Travel and subsistence	€10k	€10k	Raise awareness at governmental level, and prepare way for Phase 1 Technical Workshop. Linked to WB GEF WIO MH Project.
Withdrawn from IHOCBC Management Plan.	SAIHC	Comoros, Kenya, Madagascar, Mauritius, Mozambique, Seychelles, S Africa, Tanzania	WB GEF West Indian Ocean Marine Highway Project	<u>Advice</u> a. Input to Project management on capacity building and training issues (MS input).	NO CBF INPUT AT THIS TIME		
COMPLETE	SAIHC	States of the region	Technical Workshop on Phase 1 Capacity in Maputo	<u>Funding</u> Travel and subsistence for 10 participants	MAPUTO June 2006 €10k	€10k	Phase 1 Capability increase Linked to WB GEF WIO MH Project.
Candidate Item for 2007 (last quarter)	SAIHC	Angola, Kenya, Malawi, Madagascar, Mauritius, Mozambique, Namibia, RSA, Seychelles, Tanzania, Uganda	CPRNW Training Course (5 days)	<u>Funding</u> a. Travel and subsistence for 11 students. Host country may take additional places. b. Lecturers to be provided by CPRNW. Funding may be required. c. Facilities available in Mozambique or Tanzania	T €25k S €1k €4-5k	€35k MOZ facilities - no cost.	Phase 1 Capability increase through empowerment of national co-ordinators. INCREASED SAFETY IN NATIONAL WATERS.

Priority	Sponsor RHC	Countries	Assistance	Response	Cost	Allocation	Benefits
Candidate Item for 2008 (To be developed).	SAIHC	Angola, Kenya, Malawi, Madagascar, Mauritius, Mozambique, Namibia, Seychelles, Tanzania, Uganda	Seminar for NHC Chairmen (3 days)	Funding Travel and subsistence for 10 attendees (Nominations to be received by SAIHC Chairman by next SAIHC meeting). Lecturers to be provided by MS? Facilities to be provided by ??	T €25k (To be covered by recipients). S €1k Participation of commercial companies to be investigated.		INCREASED AWARENESS IN GOVERNMENT.
Approved for 2007.	SAIHC	Kenya	Advice for development of prioritised national survey plan.	Funding Travel and subsistence for 2 week visit by Cat A surveyor with appropriate assistance. UK will investigate provision of expert, and possible contribution to costs.	T €2.5k S €2k	€4.5k	Phase 2 Capability increase.
Approved for 2007.	SAIHC	Madagascar	Advice for development of prioritised national survey plan.	Funding Travel and subsistence for 2 week visit by Cat A surveyor with appropriate assistance. France will investigate provision of expert, and possible contribution to costs.	T €2.5k S €2k	€4.5k	Phase 2 Capability increase.
Approved for 2007.	SAIHC	Mauritius	Advice for development of prioritised national survey plan.	Funding Travel and subsistence for 2 week visit by Cat A surveyor with appropriate assistance. France will investigate provision of expert, and possible contribution to costs.	T €2.5k S €2k	€4.5k	Phase 2 Capability increase.

Priority	Sponsor RHC	Countries	Assistance	Response	Cost	Allocation	Benefits
Approved for 2007.	SAIHC	Mozambique	Advice for development of prioritised national survey plan.	Funding Travel and subsistence for 2 week visit by Cat A surveyor with appropriate assistance. UK will investigate provision of expert, and possible contribution to costs.	T €2.5k S €2k	€4.5k	Phase 2 Capability increase.
Approved for 2007.	SAIHC	Tanzania	Advice for development of prioritised national survey plan.	Funding Travel and subsistence for 2 week visit by Cat A surveyor with appropriate assistance. UK will investigate provision of expert, and possible contribution to costs.	T €2.5k S €2k	€4.5k	Phase 2 Capability increase.
To be developed by SAIHC for 2008.	SAIHC	Malawi	Follow up advisory visit to consider management of national hydrographic unit, following end of ICEIDA project.	Funding Travel and subsistence for 1 week visit, possibly associated with SAIHC meeting in Malawi. Adviser from ??.			Phase 1, 2 and 3 Capability increase.
To be developed by SAIHC for 2008.	SAIHC	Angola	Advice for development of prioritised national survey plan.	Funding Travel and subsistence for 2 week visit by Cat A surveyor with appropriate assistance.			Phase 2 Capability increase.
To be developed by SAIHC for 2008.	SAIHC	Namibia	Advice for development of prioritised national survey plan.	Funding Travel and subsistence for 2 week visit by Cat A surveyor with appropriate assistance.			Phase 2 Capability increase.
To be developed by SAIHC.	SAIHC		Regional Mobile Survey Team	Funding			Phase 2 Capability increase. Prevents atrophy of skills. Encourages regional cooperation.

Priority	Sponsor RHC	Countries	Assistance	Response	Cost	Allocation	Benefits
To be handled at regional level.	SAIHC		Practical Field Experience				Phase 2 Capability increase.
To be handled at regional level.	SAIHC		Refresher Training Courses		Participation of commercial companies to be investigated.		Assists to prevent atrophy of skills.