



**MINISTÈRE DE LA DÉFENSE
ET DES ANCIENS COMBATTANTS**



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SERVICE HYDROGRAPHIQUE
ET OcéANOGRAPHIQUE
DE LA MARINE

DIRECTION DE LA STRATÉGIE,
DE LA PLANIFICATION ET
DES RELATIONS EXTÉRIEURES

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Subject : Report of the 10th Conference of the South West Pacific Hydrographic Commission of the International Hydrographic Organization.

Reference : SWPHC CL 03/2010 dated 13 July 2010.

Enclosures : Annex 1: List of participants to the 10th SWPHC Conference.
Annex 2: CBSC submissions identified during the 10th SWPHC Conference (draft version).
Annex 3: Action list resulting from the 10th SWPHC Conference.

The 10th Conference of the South West Pacific Hydrographic Commission (SWPHC) took place in Honiara, Solomon Islands, from 9 to 10 November 2010. The meeting was hosted and organized by the Solomon Islands Maritime Safety Agency (SIMSA). Six of the eight Member States were represented at the meeting, plus observers from Solomon Islands, SOPAC and survey companies. In total, 17 delegates were in attendance.

Participants

Member States: Cdre Rod Nairn and Mr Jasbir Randhawa (Australia), Ing gen Bruno Frachon and Ing Gwladys Theuillon (France), Mr Adam Greenland (New Zealand), Mr Joseph Kunda (Papua New Guinea), Mr Christopher Thorne (UK), Mr James Braud (USA).

Observers: Capt Robert Ward (IHB), Mr John Ta'aru, Mr Michael Ahikau, Mr Jeremy Brown, Capt Pascal Ohoau, Mr Starling Daefa, Mr Jackson Vaikota, Mr Vitale Tangisi, Mr Elliot Cortez (Solomon Islands), Mr Jens Krüger (SOPAC), Mr Kevin Smith (L3 Communications Nautronix).

The list of attendees including all participants' details is attached in annex 1.



In addition to the files posted on the IHO website before the Conference (http://www.ihoohi.net/mtg_docs/rhc/SWPHC/SWPHC10/SWPHC10_Docs.htm), the documents distributed during the Conference were added on the website.

1. Welcome and opening remarks

After addressing thanks for the outstanding welcome dinner hosted by the Minister of Infrastructures and Development, Mr Jackson Fiulaua, held the day before, Ingénieur général Bruno Frachon, Chairman of the SWPHC, opened the Conference with a short report on the activities conducted since the last meeting and proposed some objectives to the Conference. He emphasized the complexity of hydrography and the size of the maritime stakes in the region. In consequence, SWPHC activities need to be prioritized. This has to be done pragmatically according to three main objectives:

- the assessment and clear understanding of the situation in this area in terms of hydrographic services to be provided in compliance with SOLAS, Chap V, Reg. 9 against maritime requirements;
- the development of adequate hydrographic capabilities so that Pacific island States can fulfill their obligations and establish their own capability to provide at least updated hydrographic information to a charting authority; this can only be achieved only through the IHO Capacity Building, regional and bilateral cooperation;
- the implementation of an adequate ENC coverage.

Participants were then welcomed by John Ta'aru, Permanent Secretary to the Ministry of Infrastructure and Development. He emphasized the importance for Solomon Islands to host this Conference in order to raise government awareness on hydrographic issues. The establishment of SIMSA reveals the national progress made in order to fulfil their international obligations against maritime requirements.

On behalf of IHB, Captain Robert Ward mentioned the support IHB can provide in order to establish or improve hydrographic capabilities.

2. Approval of the agenda

The Commission approved unanimously the agenda, which was provided before the Conference.

3. Review of action items from the 9th SWPHC Conference

The SWPHC Secretary, Gwladys Theuillon (France), reviewed the status of the actions and decisions resulting from the last Conference. Action Items 9.1, 9.3, 9.4, 9.5, 9.6, 9.7, 9.10, 9.11, 9.13 are complete and the remaining actions were covered later under the relevant agenda item: action 9.2 → item 6, action 9.8 → item 6, action 9.9 → item 7, action 9.12 → item 10 and action 9.14 → item 11.

4. Exchange of information through national reports

The following participants briefly presented their national reports: Australia, France, New Zealand, Papua New Guinea, Solomon, United Kingdom and USA. The following points were highlighted (see national reports for more details).

Australia – The Australian Hydrographic Service (AHS) has focused on completing the initial ENC coverage by end 2010. Information was given about Print On Demand technology, new surveys coverage (including laser airborne measurements), charts production status, Capacity Building activities in the region.

France – The activities of the two last years (paper charts and ENC production, development of a tsunami alert system, MSDI...) were reviewed. SHOM's first targets and objective contract (period 2010 to 2012) was signed by the ministry of defence in July 2010.

New Zealand – The recent change of roles and responsibilities with respect to hydrography in LINZ was explained together with the main activities in recent years (prioritized national survey plan, charts production, oceanographic projects).

Papua New Guinea – The organization and core missions of NMSA were presented. The hydrographic plan 2011 to 2015 was highlighted. Capacity building actions and training of NMSA personnel were reviewed.

Solomon Islands – National maritime context and SIMSA organization were described. The transformation of the older marine division into SIMSA is characterized by an extension of its core missions including hydrography in order to meet international maritime obligations. Outcomes of the IHO technical visit conducted in October 2009 are developed at item 7.

United Kingdom – Paper charts, ENC and publications production, C-55 updates and Capacity Building activities were reviewed. UKHO provides accredited training courses in hydrographic data processing and nautical cartography; training organized by UKHO since the last Conference or to be organized in 2011 were described.

USA – US mapping and charting responsibilities were explained. Surveys related to the research of potential sea mounts and Print On Demand technologies were mentioned.

5. Reports from other international, regional agencies and observers

South Pacific Islands Applied Geoscience Commission (SOPAC) and Secretariat of Pacific Community (SPC)

From 1 January 2011, SOPAC will transfer and integrate its core work programme into the Secretariat of Pacific Community as a new Applied Geoscience and Technology division. In consequence, the MoU concluded in 2004 between the IHO and SOPAC, whose purpose is to provide a framework for a continuing liaison between the IHO and SOPAC, has to be reviewed and transferred into a broader agreement not limited at technical purposes but enlarged to all hydrographic concerns.

IHB to contact SPC Director General and IHB/France to pursue the formalization (e.g. MoU) of a SPC-IHO relationship.

Post meeting note: Capt Robert Ward, Director of the IHB, met Dr Jimmie Rogers, Director-General SPC in January 2011. It was agreed that the appropriate level of recognition of issues related to hydrography and nautical charting services by governments in the region would be best achieved through a Memorandum of Understanding between the IHO and SPC. IHB have submitted a draft text to SPC.

Mr Jens Krüger presented SOPAC report on marine surveys and mapping activities. SOPAC is mandated to provide technical assistance in the South West Pacific Region in terms of maritime boundaries delimitation, coordination in sea level monitoring including climate impact and data management through a GeoNetwork server. Four SOPAC staff members are involved in collecting hydrographic data with various survey equipments. Therefore, SOPAC is in the position of providing hydrographic surveys in the region.

In compliance with M-3 Resolution 1/1937 – A1.15 § 2 as amended, survey results should be automatically communicated to the IHO recognized charting authority. Charting authorities also have to ensure that the quality of data collected by SOPAC is suitable for safe navigation and charting (especially in shallow waters). If the quality of data collected by SOPAC needs to be improved with this respect, a connection of SOPAC together with the SWPHC activities could be beneficial in terms of hydrographic Capacity Building matters. In short terms, hydrographers could assist SOPAC survey team about international survey standards, and train SOPAC personnel. In longer terms, SOPAC personnel could benefit by SWPHC Capacity Building actions (cf. chapter 7) or recruit qualified hydrographic personnel.

SWPHC Chair to write to the Director of SOPAC encouraging SOPAC to include personnel with internationally recognized hydrographic qualifications.

Post meeting note: A letter from the IHB (dated 12 November 2010) was sent to Dr Jimmy Rogers, Director General of the Secretariat of Pacific Community, to organize a meeting in Noumea to explore how the IHO and SPC might cooperate more closely and to achieve formally the mutual aims of the two organizations.

- SOPAC to inform charting authorities as early as possible of future survey intentions in order to allow the involvement of charting authorities in the preparation or in the execution of the surveys, in order to enhance the quality of data.
- SOPAC to provide charting authorities with existing survey data.
- Charting authorities to provide feedback on the quality of SOPAC surveys.

SOPAC to compare LINZ survey data with the SOPAC data to be acquired in Tonga, in order to evaluate the quality of the SOPAC data.

Pacific Islands Maritime Association (PacMA)

Mr Starling Daefa, Solomon Islands representative to PacMA Executive Committee informed that the 15th PacMA should be organized in April 2011, in Madang (Papua New Guinea) where regional maritime transport ministers and SPC members will meet. Chair reported that New Zealand and Fiji represented the SWPHC and gave briefs on the IHO SWPHC activities at the occasion of the 13th and 14th PacMA meetings respectively.

6. Reports on IHO meetings

IHB report

Captain Robert Ward, Director of the IHB, gave a general overview of IHB activities since the last meeting (reference document: SWPHC10-6C available on the website).

Status of approval of amendments to the IHO Convention and approval of new Member States to the IHO were reviewed. Fiji, New Zealand and Tonga have not yet ratified the protocol of amendments to the IHO Convention. Member States were invited to contact Fiji, New Zealand and Tonga through diplomatic channels in order to accelerate the ratification of amendments to the IHO Convention.

Member States who have not yet ratified the protocol of amendments to the IHO Convention to ensure that the process is under way, to request assistance from the IHB if necessary and to ask their administration to accelerate the process.

Fiji, Papua New Guinea and Tonga had not yet ratified the approval for Montenegro application for IHO membership. Fiji and Tonga had not yet ratified the approval for Haiti application.

Regarding IMO regulations on ECDIS carriage requirements for 2010, it can be considered that the ENC coverage in the region is compliant; IHO will report to IMO in June 2011 to advise on the status of ENC coverage. Implication regarding IMO activities (as well as working groups related to e-Navigation and the e-Navigation committee of the International Association of Marine Aids to Navigation and Lighthouse Authorities - IALA) becomes more and more important. Increasing interest is being shown by non-IHO bodies to use the S-100 geospatial information registry as one of the fundamental building blocks for the data requirements of e-Navigation.

The creation of the Arctic Regional Hydrographic Commission and its first meeting was

mentioned.

Mr Ian Halls is nominated as the new editor of the International Hydrographic Review from 1 January 2011. The SWPHC representative to the IHR Editorial Board is not up-to-date (currently represented by Ingénieur général Gilles Bessero).

France (IGA Bruno Frachon) to represent SWPHC on the IHR editorial board.

A brief report announcing recently recruited IHB staff was made.

The IHB representative also introduced IHO meetings giving a comprehensive overview of IRCC and HSSC objectives.

Inter Regional Coordination Committee - IRCC

Captain Robert Ward mentioned the key points (capacity building programme, regional INT charts and ENC coordination...) tackled during the 2nd IRCC meeting which was held in New Orleans, USA, in June 2010. He invited the SWPHC to report at the appropriate agenda items on the action IRCC2/5.

“Report to IRCC3 on:

- a. the methodology used for assessing and displaying survey status, taking into account navigational and MSDI requirements;
- b. the implementation of the guidance for the preparation and maintenance of International chart schemes (CL 23/2010 of 3 March 2010);
- c. their experience in dealing with marine disasters in relation with IHO guidelines (TR 1/2005);
- d. strategies to involve non-IHO Member States in Regional Hydrographic Commission activities.”

Participants attention to IHO Circular Letter 36/2006 seeking shallow water bathymetry to improve the IHO/IOC GEBCO grid and in particular data extracted from ENC was drawn. SWPHC members, invited to consider the provision of relevant shallow water bathymetry in response to the GEBCO programme (cf. action SWPHC 9.8 identified during the 9th SWPHC Conference: “SWPHC members are invited to consider the provision of relevant shallow water bathymetry in response to the GEBCO program as requested in IHO Circular Letter 36/2006.”), expressed concerns regarding the use of GEBCO bathymetric data released outside the IHO and reservations concerning shallow water bathymetry derived from nautical charts (the automatic extraction of depths from ENC does not seem to be the optimal solution to compile the GEBCO data base, especially for the prevention of marine disasters that needs high resolution bathymetric modelling). In consequence, it was decided to close the action SWPHC 9.8.

Hydrographic Services and Standards Committee - HSSC

The IHB reported on the 2nd HSSC meeting which took place in Rostock, Germany in October 2010. Of particular note was the endorsement of S-99 (management rules and procedures for the operation of the S-100 geospatial information registry). As a result, the HSSC decided to recommend that the IHO Member States adopt S-99 as an active standard from 1 January 2011. Other notable topics discussed included proposals concerning the HSSC input to the IHO Strategic Planning Process, and in particular ways to reduce the number of recommended Performance Indicators to a more manageable level. The Marine Spatial Data Infrastructures WG (MSDIWG) presented the IHO C-17 publication (Spatial Data Infrastructures: “The Marine Dimension”, Guidance for Hydrographic Offices).

7. Capacity Building

Australia, acting as the SWPHC focal point for Capacity Building matters, gave a general overview of the 8th CBSC meeting. The Capacity Building work program / budget for 2011 and requests expressed during the 9th SWPHC Conference were reviewed.

CBSC request	Status
Attendance at the PacMA meeting in Tonga in May 2009.	Done, see chapter 5.
Organization of a technical visit in Solomon in 2009 with the assistance of IHB.	Done in October 2009, see the report of IHO technical visit to the Solomon Islands.
Organization of a technical visit in Cook Islands in 2009 with the assistance of New Zealand.	Action registered in CBSC WP 2010 (see annex B of CBSC8 minutes): postponed to 2011.
Organization of a technical visit in Kiribati in 2009 with the assistance of United Kingdom.	Action registered in CBSC WP 2011 (see annex C of CBSC8 minutes): postponed to 2011.
Organization by Australia of a MSI workshop in 2010.	Done in August 2010, see chapter 9.
Organization of a regional nautical cartography course.	Proposal modified for a 8-week regional course to a 2-week course on 'Introduction to Hydrographic Surveying and Introduction to Chart Production'. Conducted in Port Moresby, Papua New Guinea from 11 to 21 October 2010.
Organization of a nautical cartographic training course (category B) in 2010-11 for Fiji.	Two representatives from Fiji attended the course organized by PNG. A Fiji representative also attended the first 5-week module of the UK category B course in marine cartography conducted in Singapore from 22 February to 26 March 2010.

Some difficulties noticed in terms of Capacity Building were stressed by the SWPHC CB coordinator, Chairman and IHB representative.

- Progress and follow-up reports on proposals and suggestions made at the occasion of technical visits or CB actions are requested from Regional Hydrographic Commissions and IHB. The lack of feedback received by the Commission is very concerning about the way CB Funds beneficiaries carry out an adequate monitoring of these CB actions.
- Standard of application for request is often poor and insufficient detail is provided.
- Following to action SWPHC 9.11 ("Members to consider application for CBSC assistance in future years (out to 2015) and submit applications to AU for coordination and processing in consultation with the Chair before the 1st of March 2010."), no applications were received while CB Funds are available (to support technical visits to assess hydrographic surveying, nautical charting and nautical information status, to provide guidelines for the development of local hydrographic capabilities, to discuss and advise on technical matters pertaining to hydrographic projects).
- There is no public/historical record of the approved applications.
- Regrets were expressed on the absence of application of CB procedures 2 to 5 (procedure 2: procedure to be followed by Regional Hydrographic Commission before submitting requests of support to the CBSC / procedure 3: reviewing process to be followed by the CBSC secretary prior to include request in the draft management plan / procedure 4:

CBSC evaluation procedure of submissions presented by Regional Hydrographic Commission / procedure 5: performance assessment).

In response to the technical visit conducted by IHB in Solomon Islands in October 2010, Mr Jeremy Brown, SIMSA Project Manager, presented an information paper on the establishment of SIMSA and its role in terms of hydrography (reference document: SWPHC10-6C now available on the website). The level of SIMSA activities has to be determined in accordance with the level of membership in the IHO. Recommendations formulated by the IHB following to the visit were analyzed and Solomon Islands proposed a draft action plan.

- SI government formally agrees to the transfer of responsibility for hydrographic services from the Ministry of Land, Housing & Survey, Department of Lands and Survey, to the Ministry of Infrastructures and Development.
- SIMSA sets up a hydrographic unit which may comprise two staffs but may require less than two additional persons as the lead role may be absorbed within another senior position.
- The unit could be equipped with survey equipment but only if specific funding can be secured. Additional staffing may be required if the unit becomes so equipped. The equipment will be capable of being used on vessels of opportunity.
- SIMSA explores all possible avenues for funding and assistance in kind, by training and by mentoring within the region.
- SI government will assist and facilitate SIMSA in meeting national obligations under its membership of IHO bodies, including continuing funding of representation at regional meetings, and accepting liability for any outstanding debts incurred in its behalf previous to transfer of responsibility to SIMSA.
- After establishment of SIMSA and the SIHU, SIMSA seeks on behalf of SI government associate membership of the regional body SWPHC.
- SI government only considers full IHO membership at a later date if justified by developments (such as major economic development or major increase in vessel registry activities, e.g., through a second or supplementary register).

Solomon Islands will organize in April 2011 a meeting with different national maritime stakeholders. Hopefully, the organization of the 10th SWPHC Conference in Honiara threw light on the benefits for Solomon Islands of involvement in IHO and will facilitate the approbation by the SI government of the draft action plan presented above.

A round of table discussion identified various applications for CBSC assistance in future years (out to 2015). Requests are essentially related to phases 1 and 2 of the Capacity Building process (awareness - education campaign and collection - circulation of information to maintain existing charts and publications) because countries are faced to a lack of human resources. The requests (draft version) for SWPHC CBSC Funds formulated during the Conference are posted in annex 2. The list of submissions indicates the projects objectives, the beneficiary countries and lead nations, priorities....

Australia with the assistance of designated Member States to finalize the applications for CBSC funding discussed during the Conference for submission at CBSC9.

8. Review of the INT chart scheme for area L, International Chart Coordination Working Group

The IHO S-11 publication was reviewed by Australia, the SWPHC INT charts coordinator, with the updates provided by Member States before the Conference. Australia asked participants to update yearly this document.

In relation with chapter 5, as SOPAC is in the position of providing hydrographic surveys in the region, the following action was identified.

Charting authorities to include SOPAC in their list of information providers when preparing new charts.

In compliance with the IHO CL 23/2010, a formal correspondence working group, the ICCWG, chaired by Australia, was formed to coordinate the limits and production of INT charts and ENC for the SWPHC region. The Chair was invited to consider using the generic ToR's contained in Annex C to S-11 Part A, to establish the Region L International Charting Coordination Working Group (ICCWG).

Australia to coordinate (by correspondence) the Region L INT chart scheme and the ENC production boundaries and to propose the ToR's for a Region L ICCWG to the members. Charting authorities to designate a national point of contact by November 2010.

9. Report on GMDSS, MSI and NAVAREA coordination

The annual (period July 2009 to June 2010) MSI self-assessment reports for NAVAREA X and XIV, highlighting the MSI activities (in liaison with the WWNWS Sub-Committee), were reviewed by Australia and New Zealand respectively. Australia mentioned the very limited number of NAVAREA X warnings issued. Hopefully, the MSI training to countries in the South West Pacific region provided by Australia in Sydney, in August 2010, will boost the MSI activity. Australia also hosted the second WWNWS Sub-Committee meeting, 9 to 13 August 2010 in Sydney.

Documents on MSI (including IMO Regulations, IHO guidance, Inmarsat, SafetyNet, NAVAREA information) were circulated during the Conference: a CD-ROM provided by the IHB representative and Accra MSI course files (Ghana, September 2009) provided by France (NAVAREA II coordinator).

10. IHO publication C-55

The SWPHC sections of IHO C-55 publication status of hydrographic surveying and nautical charting worldwide was reviewed. It showed that many countries' data are not up-to-date and the action SWPHC 9.12 identified during the 9th SWPHC (asking Member States to complete and keep data up-to-date the C-55 publication) has not improved the situation markedly. The IHB representative stressed the importance of publishing up-to-date information. Member States expressed concerns about the relevance of the C-55 publication. They mentioned that its content

is not adapted to reflect hydrographic offices activities and the difficulties for charting authorities to obtain the information to update the document. Captain Robert Ward mentioned he has been making preliminary enquiries regarding the development of IHO publication C-55 to make it more useful in identifying areas or regions where hydrography and charting is significantly deficient. In complement to this analysis, Member States were invited to provide IRCC with proposals to improve and revise the content of the IHO C-55 publication. This can be achieved by reporting to IRCC through the SWPHC report, written annually. In short term, Member States were invited to confirm the validity of figures, even no change has occurred since the last update.

Charting Authorities to review and confirm the validity of IHO Publication C-55 on an annual basis - even if no change has occurred.

11. Progress with production and distribution of ENC

Australia presented the regional ENC schemes for usage codes 1 and 2. In order to finalize these schemes by March 2011 (deconfliction of overlaps), overlaps between ENC within the region should be addressed by Australia, as region L ICCWG coordinator.

France to provide diagrams showing the coverage of French ENC (band 1 & 2).

Post meeting note: Done.

Australia to finalize the SWPHC ENC scheme (band 1 & 2).

IRCC should address the issue of overlap between different Regional Hydrographic Commission.

Participants were also invited to make their ENC available through the RENC, in compliance with WEND principles. The current status of ENC coverage is in line with meeting the objectives fixed for 2010. In order to progress on the large scale scheme, actions SWPHC 9.13 and 9.14 identified during the last SWPHC Conference were reviewed.

In response to action SWPHC 9.14, charting authorities who have not provided details of their ENC large scale scheme (band 3 to 6) in their respective areas, to provide the other members of ICCWG with their plan in a GIS compatible format.

12. Maritime Spatial Data Infrastructures - MSDI

In complement to the information given in the national reports, most of participants expressed their concern about the pressure put at national level on the hydrographic services for the establishment of maritime spatial data infrastructures because of an increasing community interested in accessing coastal bathymetric data in a context of climate change and multi-hazard risks mitigation. For example, in European Union, directives oblige hydrographic offices to make geospatial data available, without taking into account existing maritime data standards.

In the South West Pacific region, the organization of MSDI from a country to another is various. Some hydrographic offices are tasked to collect all geospatial metadata to establish a geoportal (for example Australia). At national level, MSDI can also be an inter-administration cataloguing portal to share the metadata/data or in-house projects like INFRAGEOS and Litto3D® (example of France). At a supra-national level, SOPAC representative mentioned the GeoNetwork server project, funded by the European Commission and supported by the IOC, that aims at installing map servers in the regional countries designated to be a national hub for geospatial information. The corresponding website is an online searchable digital library designed as a geographic metadata catalogue, based on open source application (<http://geonetwork-opensource.org>). In order to clarify the MSDI situation in the South West Pacific region, the following actions were identified.

In response to action IRCC02/5a, Member States and SOPAC to provide a brief report about their experience on MSDI by December 2010 and France to provide a synthesis to IRCC in due time.

France to forward information about Litto3D® and INFRAGEOS projects to SWPHC Member States and SOPAC.

Post meeting note: Done.

It was also suggested to propose to MSDI WG to develop an efficient data storage structure that will enable high density bathymetric data to be stored, searched and retrieved. This proposal could be addressed by a SWPHC Member State, member of the HSSC-MSDI WG.

13. Other Business

Preparation of the World Hydrography Day 2011

The Chairman referred to the IHO CL 42/2010 announcing the World Hydrography Day 2011. The subject is “Human resources – The important element to the success of Hydrography”. Member States mentioned that they have not yet prepared any national contribution.

Procedures in response to marine disasters

Through its contribution to ocean modelling, hydrography is a key part of the prevention or mitigation of marine disasters. Technical response survey unit (deployment of an equipped survey team) and disaster risk management project were mentioned. Most of participants shared their views about what is expected from hydrographic offices and from their regional

cooperation, compared to the national inter-administration coordination which is generally prevailing. Moreover, SOPAC seems to have the regional mandate for disaster management planning and scientific investigations coordination afterwards but does not get involved in the operations relief. The representative from IHB insisted on the necessity to establish a regional action plan. Regional Hydrographic Commission shall report to IRCC3 on their experience in dealing with marine disasters.

In response to action IRCC02/5c, Member States and SOPAC to provide a brief report about their experience in terms of response to marine disasters by December 2010 and France to provide a synthesis to IRCC.

The US experience of Haiti shall also be considered by Member States.

14. Election of Chair and Vice Chair

Joseph Kunda (Papua New Guinea) and Rod Nairn (Australia) were unanimously elected as Chairman and Vice-Chairman respectively.

15. Date and venue of next Conference

To determine the venue of the next Conference, several options were explored:

- to join the SWPHC Conference with the annual PacMA meeting,
- to join the SWPHC Conference with a technical workshop and/or international conference.

It was decided to organize the next Conference in February 2012 back to back to a hydrographic survey conference. This option seems to be the most judicious in order to prepare the CBSC10 and 18th IHC/ IHO Assembly. Brisbane is an air transport hub so an easily accessible destination for most Pacific island States. Moreover, joining the Conference with a technical workshop sponsored by CB Funds will facilitate the participation of Pacific island States.

Australia to confirm by correspondence the venue of the 11th SWPHC Conference and of an associated technical workshop, scheduled in Brisbane 13-16 February 2012.

16. Summary of resolutions, decisions, recommendations and actions

Decisions taken during the Conference are given in annex 3.

17. Closing remarks

Ingénieur général Bruno Frachon closed the Conference by expressing the appreciation of the Commission to the Solomon Islands Maritime Safety Administration for its hospitality and organization. He also thanked the delegates for the excellent insights provided during this fruitful Conference. He emphasized the fundamental role of Capacity Building in the region and the cooperation with SOPAC.

L'ingénieur de l'armement Gwladys Theuillon
secretary of the SWPHC
Signé: Gwladys Theuillon

Annex 1
Details of the 10th SWPHC Conference and technical workshop participants

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Annex 2
CBSC submissions identified during the 10th SWPHC Conference (draft version)

Year of execution	Priority	Project Name	Project Objective / Comments	Lead	Beneficiaries	Assistance Required	Cost
2011/12	2	MBES training - 6 course positions for regional attendees	To enable educated customer, improve quality of hydrographic data collected in the region	NZ	SOPAC, NZ, AUS, FIJI, PNG	Funding	36,000E
2011	1	Technical visit to SPC by IHB Director	To establish liaison with the parent agency for PacMA and SOPAC, possible MoU enabling SOPAC utilisation for hydrographic survey support to SWPHC members	dir IHB	SWPHC States		6,000E
2012	1	SI national hydrographic requirements facilitation (follow up advice and hydrographic requirements facilitation by contractor)	To develop a prioritised hydrographic surveying and charting plan	UK	SI	Consultant	20,000E
2012	2	Module 2 cartographic course - 10 students	To provide ongoing cartographic skills development	NZ	EAHC and SWPHC		
2012	1	Design and develop a 3-4 week « cat C » course including MSI and hydrographic surveying - pilot course to be delivered in the SWPHC - course materials made publicly available	To formalise basic level of hydrographic training aimed at level 2 capacity building	UK/NZ	All IHO Coastal States		40,000E
2013	2	MSI course	Level 1 CB education	AUS	Coastal States		
	4	Hydrographic training cat A/B for SPC	Options for provision of training of SOPAC personnel who can contribute hydrographically to the region. Initial letter from CHAIR SWPHC to Dir SOPAC.	NZ / AUS	Coastal States		

2012	2	PNG national hydrographic requirements facilitation (follow up advice)		PNG	PNG		
	1	Ports and shallow water bathymetry technical workshop in junction with regional conference		AUS / PNG	Coastal States		
2014	4	Cook Islands national hydrographic requirements facilitation (follow up advice)		NZ	Cook Islands		
2014	4	Kiribati national hydrographic requirements facilitation (follow up advice)		UK	Kirabati		
2011/12	1	Technical visit in Vanuatu	Kevin Smith has contact in Vanuatu <i>Post meeting note: Contact details for Vanuatu Hydrographic Department confirmed and provided to R.Nairn by K.Smith, Nov 2010.</i>	AUS	Vanuatu		
2013	1	Technical visit in Samoa		NZ	Samao		
2013	1	Technical visit in Tonga		NZ	Tonga		
Ongoing	3	SWPHC represent to annual PacMA meeting	Need to find an action focussed for this presentation and recommended actions for PacMA to take.	AUS	SWPHC States		1500E

Annex 3
Actions list resulting from the 10th SWPHC Conference

9.2	Member States who have not yet ratified the protocol of amendments to the IHO Convention to ensure that the process is under way, to request assistance from the IHB if necessary and to ask their administration to accelerate the process.	Fiji, New Zealand, Tonga	asap
10.1	IHB to contact SPC DG and IHB/France to pursue the formalization (e.g. MoU) of a SPC-IHO relationship.	IHB (coop. SOPAC and France)	2011
10.2	SWPHC Chair to write to the Director of SOPAC encouraging SOPAC to include personnel with internationally recognized hydrographic qualifications.	Chair (coop. Australia)	Done
10.3	- SOPAC to inform charting authorities (CA) as early as possible of future survey intentions in order to allow the involvement of CA's in the preparation or in the execution of the surveys, in order to enhance the quality of data. - SOPAC to provide charting authorities with existing survey data. - Charting authorities to provide feedback on the quality of SOPAC surveys.	SOPAC and CA	Permanent
10.4	SOPAC to compare LINZ survey data with the SOPAC data to be acquired in Tonga, in order to evaluate the quality of the SOPAC data.	SOPAC	January 2011
10.5	France (IGA Bruno Frachon) to represent SWPHC on the IHR editorial board.	France	until next Conference
9.8	SWPHC members are invited to consider the provision of relevant shallow water bathymetry in response to the GEBCO program as requested in IHO Circular Letter 36/2006.	All members	Permanent Closed
9.12	NZ and US to provide updates to IHO S-55 publication as soon as possible.	NZ, US	asap Closed
10.6	Charting Authorities to review and confirm the validity of IHO Publication C-55 on an annual basis - even if no change has occurred.	All CA	December 2010
9.9	Australia to act as the SWPHC focal point for Capacity Building matters.	Australia	Permanent
10.7	Australia with the assistance of designated Member States to finalize the applications for CBSC funding discussed during the Conference for submission at CBSC9.	Australia (coop. all)	1 st February 2011
10.8	Charting authorities to include SOPAC in their list of information providers when preparing new charts.	CA	Permanent
10.9	Australia to coordinate (by correspondence) the Region L INT chart scheme and the ENC production boundaries and to propose the ToR's for a Region L ICCWG to the members. Charting authorities to designate a national point of contact by November 2010.	AUS All CA	Permanent
10.10	France to provide diagrams showing the coverage of French ENC (band 1 & 2).	France	Done

10.11	Australia to finalize the SWPHC ENC scheme (band 1 & 2).	Australia	March 2011
10.12	In response to action SWPHC 9.14, charting authorities who have not provided details of their ENC large scale scheme (band 3 to 6) in their respective areas, to provide the other members of ICCWG with their plan in a GIS compatible format.	AU, UK, NZ, USA, (FR)	February 2011
10.13	France to forward information about Litto3D® and INFRAGEOS projects to SWPHC Member States and SOPAC.	France	Done
10.14	In response to action IRCC02/5a, Member States and SOPAC to provide a brief report about their experience on MSDI by December 2010 and France to provide a synthesis to IRCC in due time.	All Member States and France	December 2010
10.15	In response to action IRCC02/5c, Member States and SOPAC to provide a brief report about their experience in terms of response to marine disasters by December 2010 and France to provide a synthesis to IRCC.	All Member States and France	December 2010
10.16	Australia to confirm by correspondence the venue of the 11 th SWPHC Conference and of an associated technical workshop, scheduled in Brisbane 13-16 February 2012.	Australia	asap

Destinataire(s) : SWPHC Member States and observers - IHB - Pacific Islands Applied Geoscience Commission (SOPAC) - Secretariat of the Pacific Community (SPC) - Pacific Islands Maritime Association (PacMA) - SPTO

Copie(s) extérieure(s) : SHOM's rep. in the Pacific (Head of the Pacific Oceanographic Group)

Copie(s) intérieure(s) : DG - DSPRE - DO - NAU - Archives générales - DSPRE/2.007