

**16<sup>th</sup> MEETING OF THE IHO CAPACITY BUILDING SUB-COMMITTEE  
IHO-CBSC16  
Goa, India, 30 May-1 June2018**

**Paper for the Consideration by CBSC16**

**SWPHC Report**

<b>Submitted by:</b>	SWPHC CB Coordinator
<b>Executive Summary:</b>	This document provides a summary report of the CB activities at SWPHC
<b>Related Documents:</b>	SWPHC CB Plan 2018-2020
<b>Related Projects:</b>	NZ (PRNI)

## 1. Introduction / Background

Pacific Island Countries and Territories (PICTs) are geographically remote and fragmented; they face a major development challenge in achieving safe, reliable, and efficient connectivity within the region and with the rest of the world. The maritime sector plays a key role in supporting economic growth and development in PICTs by facilitating trade and commerce and by improving people's ability to travel for health, education, employment, and to interact with other communities.

## 2. Assessment of Capacity Building against IHO CB Strategy

The table in the **Annex** provides an assessment of Capacity Building for the Pacific Islands and Territories in the region, in accordance with the CB Procedure 11.

## 3 Activities completed since CBSC15

### 3.1 CBWP P-05 (Technical Workshop on Implementing Hydrographic Governance)

The workshop was held in Nadi, Fiji on 20 February 2018 in conjunction with SWPHC15. It was led by Land Information New Zealand (LINZ), with presenters from Australia, New Zealand, United Kingdom, IHO, IALA and SPC. The workshop was attended by 29 participants from Australia, Cook Islands, Fiji, France, Kiribati, Nauru, New Zealand, Niue, Palau, Papua New Guinea, Samoa, Tonga, Tuvalu, United Kingdom, United States of America, Vanuatu, IALA, IHO Secretariat, GEBCO, SPC and IIC Technologies.

The objective of the workshop was to provide representatives from the Pacific Island Countries and Territories (PICTs) with assistance in the development and strengthening of hydrographic capacity to meet their international obligations under SOLAS and to support economic growth and protection of the marine environment.

### 3.2 MFAT New Zealand Aid Programme - Pacific Regional Navigation Initiative (PRNI)

**Hydrographic Risk Assessments:** A hydrographic risk assessment for Samoa was completed in September 2017. Discussions with the Government of Samoa confirmed priority areas requiring further survey activities which are planned for 2019. The Samoa risk assessment report was shared with SPC in preparation for their March 2018 Safety of Navigation visit.

A traffic analysis for Tokelau was completed in October 2017 and shared with SPC to assist with their Safety of Navigation project.

Both reports are published on the IHO website.

**Bilateral Arrangements:** A bilateral arrangement between the Government of Samoa (Ministry of Works, Transport and Infrastructure) and New Zealand (Land Information New Zealand) was signed in May 2018. Signed bilateral arrangements are also in place with the Cook Islands and Niue.

**Capacity Building:** In October 2017 MSI training was provided in Samoa, attended by 15 representatives from a number stakeholders including Ministry of Works, Transport and Infrastructure; Ministry of Natural Resource and Environment; Maritime Police Unit; Samoa Port Authority; Ministry of Fisheries; and the Maritime School.

**Mitigation Measures:** In September 2017 ENC's and paper charts for Aitutaki, Penrhyn and Pukapuka (Cook Islands) were published incorporating data obtained from SPC. Similarly, in September 2017 and March 2018 ENC's and paper charts were published for Samoa incorporating ALB data collected by the Government of Samoa for climate change purposes.

Chart updates for Niue and the remaining Cook Islands are scheduled for publication June/July 2018.

An extensive programme of Satellite Derived Bathymetry for the Cook Islands, Niue, Tokelau and Tonga commenced November 2018. SDB for Tonga and Niue is under review by LINZ, and SDB for the Cook Islands and Tokelau is scheduled for delivery end of May 2018.

### 3.3 Commonwealth Marine Economies (CME) Programme

A hydrographic survey of critical navigation areas and marine habitats in the approaches to Nuku'alofa, Tonga was conducted as part of the United Kingdom's CME Programme. The data will be used for science & marine habitat mapping, nautical charting and capacity building activities. LINZ is awaiting receipt of the data for chart maintenance.

### 3.4 IHO - Nippon Foundation CHART Project Category B course

Mr Kelepi BAINIVALU from Fiji attended the 9th Course in Marine Cartography and Data Assessment - Sep-Dec 2017.

## 4. **Activities planned for 2018**

### 4.1 CBWP A-04 (Technical Implementation Visit – Samoa)

A follow-up of the Technical Assessment & Advice Visit carried out in August 2016. The visit is to ensure that Samoa fulfils its SOLAS V obligations (V/4 & V/9), by providing support to implement the recommendations of the technical visit.  
Note: LINZ wish to postpone this activity to the 2019 CBWP.

### 4.2 CBWP A-05 (Technical Implementation Visit – Niue)

A follow-up of the Technical Assessment & Advice Visit and the Hydrographic Risk Assessment carried out by LINZ in 2016. The visit is to ensure that Niue fulfils its SOLAS V obligations (V/4 & V/9), by providing support to implement the recommendations of the technical visit.

Note: LINZ wish to postpone this activity to 2019 CBWP.

### 4.3 CBWP P-05 (Technical Workshop on Implementing Hydrographic Governance)

See item 3.1 above.

#### 4.4 CBWP P-11 (MSI Regional Workshop)

The workshop is held every 2 years and provides MSI training to representatives from SWPHC coastal States. The workshop will be hosted by LINZ and Maritime New Zealand (NAVAREA XIV Coordinator) in Wellington, NZ in August 2018. (A potential instructor has been identified from SWPHC to attend the training and develop the skills and knowledge to become a MSI Trainer).

#### 4.5 CBWP P-32 (MBES Training in Fiji)

This training will enhance the knowledge of Fiji Navy Hydrographic Service to operate MBES and process MBES data to meet IHO standards. Fiji is liaising with UKHO for the activity to be carried out in 2018.

#### 4.6 MFAT New Zealand Aid Programme - Pacific Regional Navigation Initiative (PRNI)

In January 2018 an additional NZ\$2.2m was approved to extend PRNI to June 2021. The additional funding will cover extensive hydrographic surveys in the Cook Islands, Niue, Samoa, Tokelau and Tonga.

In mid 2018, Airborne Laser Bathymetry (ALB) is scheduled in Tonga (primarily the Ha'apai Group) and Niue, (including Beveridge Reef). During Q4 2018 an MBES survey is planned in Tonga which will focus on the main vessel traffic routes through the Ha'apai Group of islands. This will be conducted, in part, from an unmanned surface vessel.

Final datasets for SDB, ALB and MBES are scheduled to be delivered to LINZ in June 2018 for the Cook Islands and Tokelau; and in March 2019 for Tonga and Niue. Nautical charts will be updated and new charts produced with the new data. In Tonga this will mean new charts in the Ha'apai Group, replacing the current fathoms charts on undetermined datums. In total, 63 ENC's will be produced, including 19 new ENC's.

Further survey activities are planned for Samoa mid-2019.

A bilateral arrangement between Tonga and NZ is scheduled to be signed by end 2018.

#### 4.7 Tonga Navy representative attending USM Joint International Hydrographic Applied Science Program

Navy Commander Holokaukau Lakai of His Majesty's Armed Forces will attend the USM 42 week Category A Hydrographic Surveyor programme in the USA.

### 5. **Challenges faced in the region**

- Large geographical extent of SWPHC region
  - Cost of travel is high, opportunities for meetings limited.
- Capacity of the Capacity Builders.
  - More, potentially too much, is being asked of the RHCs and RHC Chairs; which then impacts delivery of their own HO and RHC based activities
- Engagement of coastal states
  - Coastal states are presented with numerous CB and development activities and

- programmes which can impact their ability to be able to engage meaningfully.
- Awareness, coordination and collaboration between CB/development activities in the region
  - Numerous CB and development activities/programmes are being planned or delivered in the region at any one time.

## 6. Achievements and lessons learned

There has been considerable progress in CB activities in the region since CBSC15.

- Vanuatu became an IHO Member in 2017 and Solomon Islands is in the process of becoming a Member.
- Indonesia, an IHO MS from the neighbouring East Asia Hydrographic Commission, has become an Associate Member of SWPHC to facilitate the harmonization of ENC's and to coordinate hydrographic surveys, capacity building activities, data sharing and exchange expertise.
- Australia became the Primary Charting Authority (PCA) for Solomon Islands and provided hydrographic training (Category B course) to Fiji and New Zealand.
- Fiji has made significant progress with the support from the Republic of Korea and other States in the region. New surveys were conducted and charts published. Plans are in place for expanding the hydrographic service to include support of data management and oceanographic operations.
- New Zealand has made substantial progress in the Pacific Regional Navigation Initiative (PRNI) programme of work. Additional funding will go towards extensive new hydrographic surveys.
- Papua New Guinea surveys were conducted in ports and coastal areas for updating relevant charts as part of the ADB Maritime and Waterways Safety Project.
- United States of America produced six ENC's covering the waters surrounding the Palau Islands and has made a CB submission to CBSC16 for a Phase 1 Technical Assessment and Advice visit to Palau.
- Vanuatu has established a National Hydrographic Committee and obtained Cabinet approval for survey of 10 priority areas. It is planned to build a new Hydrographic Survey Unit within the Lands and Survey Department
- Kiribati has appointed a National Coordinator for MSI and plans are underway to establish Hydrographic Services. Niue plans to establish a National Hydrographic Authority and a National Coordination Committee. Samoa has established a National Hydrographic Committee; appointed a National Coordinator for MSI; and is planning to establish a National Hydrographic Authority
- United Kingdom is making progress under its CME Programme for providing surveys, charting and capacity building in the region, with the ultimate goal to promote economic growth and prosperity.
- Pacific Community (SPC) – GeoScience, Energy and Maritime (GEM) Division - Oceans and Maritime Programme is contributing through its International Foundation for Aids to Navigation (IFAN) – funded Safety of Navigation programme and the NZ MFAT PRNI Phase II.

The strategy of preceding SWPHC meetings with a CB workshop has proved very beneficial, with the February 2018 workshop and meeting attended by approx. 40 persons, the large majority were from PICTs. All participants were extremely active and contributed to collective and own knowledge of hydrography.

## **7. Conclusion**

SWPHC, in collaboration with other international, regional and bi-lateral partners, is committed to carrying forward hydrographic, nautical cartographic and capacity building activities in close alignment with IHO objectives and goals.

## **8. Actions required of CBSC:**

The CBSC is invited to:

- a. note the report.
- b. note the value and effectiveness of preceding SWPHC meetings with CB related workshops.
- c. note SWPHC's commitment in carrying forward hydrographic, nautical cartographic and capacity building activities in close alignment with IHO objectives and goals
- d. take any action considered appropriate.

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Annex: Assessment of Capacity Building Phase Stage of Coastal States (Excel file)

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INTERNATIONAL HYDROGRAPHIC ORGANIZATION  
CAPACITY BUILDING SUB-COMMITTEE (CBSC)

draft CB Procedure 11  
Assessment of Capacity Building Phase Stage of Coastal States  
Input from **SWPHC**

1. The numerical grid below describes the status of the National Hydrographic Committee (NHC)/National Hydrographic Coordination Committee (NHCC):

Value	Assessment
-1	No information available
0	The country does not have a NHC/NHCC
1	The country is in the process to establish a NHC/NHCC
2	The country established a NHC/NHCC

2. The numerical grid below applies to the Phases:

Value	Assessment
-1	No information available
0	The country is unaware of its national obligations
1	The country is aware of its national obligations but does not have the means to do it
2	The country has the ability to fulfil national obligations
3	The country fulfils its national obligations through a third party
4	The country fulfils its national obligations in a sustainable manner

Note: the assessment represented by 3 is an alternative to 4 as explained in the IHO Capacity Building Strategy.

3. Those coastal States with a mature Hydrographic Service that does not need technical visits is marked as N/A (does not apply).

International Hydrographic Organization  
Assessment of Capacity Building Phase Stage of Coastal States

N.	Coastal State/Territory	NHC/NHCC	Phase 1	Phase 2	Phase 3	Last TV	SWPHC	PCA
9	Australia	N/A					SWPHC	
40	Cook Islands	2	2	1	3	2013	SWPHC	LINZ
60	Fiji	-1	2	2	3		SWPHC	UKHO
62	France	N/A					SWPHC	
91	Kiribati	1	1	1	3	2015	SWPHC	UKHO
109	Marshall Islands						SWPHC	? Nga
113	Micronesia (Federated States of)						SWPHC	? Nga
121	Nauru	-1	-1	-1	-1		SWPHC	UKHO
124	New Zealand	N/A					SWPHC	
128	Niue	1	1	1	3	2015	SWPHC	LINZ
132	Palau						SWPHC	NGA
134	Papua New Guinea	2	2	2	3		SWPHC	AHS
149	Samoa	1	1	1	3	2016	SWPHC	LINZ
160	Solomon Islands	2	2	2	3	2012	SWPHC	AHS
178	Tonga	2	2	1	3	2014	SWPHC	LINZ
187	United Kingdom	N/A					SWPHC	
189	United States of America	N/A					SWPHC	
192	Vanuatu	1	2	1	3	2015	SWPHC	UKHO
	Tokelau	0	-1	-1	3		SWPHC	LINZ
	American Samoa						SWPHC	NGA
	French Polynesia						SWPHC	SHOM
	Guam						SWPHC	NGA
	New Caledonia						SWPHC	SHOM
	Northern Mariana Is						SWPHC	? Nga
	Pitcairn Is						SWPHC	UKHO
	Tuvalu	-1	-1	-1	3		SWPHC	UKHO
	Wallis & Futuna						SWPHC	SHOM