



INTERNATIONAL HYDROGRAPHIC ORGANIZATION

NATIONAL REPORT FROM COOK ISLANDS TO THE SWPHC15

Reference: IHO Resolution 2/1997 as amended

Executive summary

1. Hydrographic Office / Service:

- a) Name of the institution: Infrastructure Cook Islands (ICI)
Description:

Vaipo Mataora the Cook Islands National Hydrographer and also the chairman of the Cook Islands National Hydrographic Coordinating Committee. The National Hydrographic office is also established under Infrastructure Cook Islands which the Cook Islands government gave its approval on Tuesday 14th June 2016.

The establishment of the CIHS included the agreement to appoint a Maritime Safety Information (MSI) Coordinator; Stephen Simpson have also appointed as the MSI Coordinator which this roles sit under Ministry of Transport.

- b) Submitted by: Vaipo Mataora, Director of Civil Works & Hydrography,
vaipo.mataora@cookislands.gov.ck

Detailed information to update IHO Publication P-5 (*Yearbook*) is submitted in Annex A.

2. Surveys:

[Describe any significant developments since the last RHC meeting in surveys related to the items below]

- a) Coverage of new surveys:

Survey Number	Area	Completed
P1 (25m grid)	Penrhyn Atoll – Taruia Passage to Omoka Harbour	28 May 2017
P2 (25m grid)	Penrhyn Atoll -	28 May 2017
P3 (25m grid)	Penrhyn Atoll – boat sea lane from Omoka – Te Tautua	28 May 2017
P4 (50m grid)	Penrhyn Atoll – SBES coverage area of the route to Omoka Harbour	28 May 2017

R1 (100m grid)	Rarotonga Island – SBES coverage of the North East of the Rarotonga (Nikao Area) offshore.	28 May 2017
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The Cook Islands Survey, OPERATION CALYPSO 01/17, was conducted over the period 9-28 May 17. The purpose of the deployment was to conduct SBES and SSS survey of the areas of priority in Penrhyn and Rarotonga as designated by LINZ at reference B. In addition to this, MHG undertook a task requested by GNZ for a series of secchi disc observations to assist with ongoing development of satellite derived bathymetry capability. The survey in Penrhyn was divided into four areas: P1, P2, P3 & P4. Survey in Rarotonga fell in one designated area: R1.

b) New technologies and /or equipment

The Cook Islands do not have any surveying equipment to carry out hydrographic surveying, we collaborate with our primary charting authority, LINZ, who assist us with hydrographic surveying.

c) New ships

The Cook Islands do not own or operate survey vessels, we collaborate with our primary charting authority (LINZ) and SPC and outsource hydrographic surveying to private companies.

d) Problems encountered

1. Lack of survey equipment and training.
2. Opportunities related to local staff participating in surveying expeditions to gain experience and build in-country capability are very limited.
3. Lack of promotion or awareness in-country to encourage interested students at the secondary school level who may be interested to pursue a career as a hydrographic surveyor.

Detailed information about surveys to update IHO Publications P-5 (*Yearbook*) and C-55 (*Status of Hydrographic Surveying and Charting Worldwide*) is submitted in Annexes A and B, respectively.

3. New charts & updates:

[Describe any significant developments since the last RHC meeting in charting related to the items below]

a) ENCs

Chart	Plan	ENC Number	Distribution Date
NZ 945	Pukapuka	NZ309451	13/7/17
	Penrhyn	NZ409454	27/7/17
	Penrhyn: Taruia Passage to Gudgeon Bay	NZ509453	27/7/17
	Penrhyn: Taruia Passage	NZ600945	27/7/17
NZ 955	Aitutaki	NZ400955	27/6/17
	Arutanga Anchorage	NZ500955	27/6/17
NZ 9558	Approaches to Avatiu & Avaura Harbours	NZ509558	13/7/17
	Avatiu Harbour	NZ609558	13/7/17

Since the last RHC meeting the work undertaken included, updating the positional accuracies of the ENCs and incorporating new survey data. In the case of the 2 plans for NZ 9558, this also involved a small extension to the Avatiu Harbour plan to include the green lateral buoy that sits just outside the harbour entrance.

LINZ currently working on getting the paper chart for NZ 955 Plans of the Cook Islands- Southern Sheet, published in September.

LINZ also have plans in place to see the remaining charted plans on NZ 945, NZ 955 and NZ 9558 updated and the ENCs distributed. Following the ENC releases, LINZ will be publishing the paper charts.

b) ENC Distribution method

Detailed information of Cook Islands ENC folio can be found on the LINZ website at <http://www.linz.govt.nz/sea/charts/electronic-navigational-charts-encs> and in the ENC Coverage Catalogue available on the IHO website www.iho.int.

c) RNCs

- d) INT charts
- e) National paper charts
- f) Other charts, e.g. for pleasure craft
- g) Problems encountered

Detailed information about charting to update IHO Publications P-5 (*Yearbook*) and C-55 (*Status of Hydrographic Surveying and Charting Worldwide*) is submitted in Annexes A and B, respectively.

4. New publications & updates:

[Describe any significant developments since the last RHC meeting in nautical publications related to the items below]

- a) New Publications
- b) Updated publications
- c) Means of delivery, e.g. paper, digital
- d) Problems encountered

Detailed information to update IHO Publication P-5 (*Yearbook*) is submitted in Annex A.

5. MSI

[Describe the status of Maritime Safety Information (MSI) related to the items below]

- a) Existing infrastructure for transmission

LINZ on behalf of the Cook Islands publishes Annual Notices to Mariners (available in the Nautical Almanac and online) and fortnightly Notices to Mariners (NtM) distributed via an email subscription service (<http://www.linz.govt.nz/sea/maritime-safety/noticesmariners/> subscribe-fortnightly-edition-notices-mariners) and available online at <http://www.linz.govt.nz/sea/maritime-safety/notices-mariners>.

LINZ is the NAVAREA XIV Coordinator navareaxiv@linz.govt.nz. The Cook Islands National Coordinator contact below:

COUNTRY	TELEPHONE	FACSIMILE	E-MAIL
Cook Islands	+682 28810	+682 28816	stephen.simpson@cookislands.gov.ck

- b) New infrastructure in accordance with GMDSS Master Plan
- c) Problems encountered

Detailed information about MSI to update IHO Publication C-55 (*Status of Hydrographic Surveying and Charting Worldwide*) is submitted in Annex B. The national self-assessment of MSI is submitted in Annex C.

6. C-55

The table with the latest information to update IHO Publication C-55 (*Status of Hydrographic Surveying and Charting Worldwide*) is provided in Annex B.

7. Capacity Building Offer of and/or demand for Capacity Building

[Describe the need for or ability to offer Capacity Building in relation to the items below]

- a) Training received, needed, offered

The Cook Islands under the SWPHC/IHO/LINZ capacity building program in collaboration with SPC, have funded capacity building training programs on Maritime Safety Information (MSI), Tides and Water Levels which the Cook Islands have attended to build on its in-country capability and capacity to assist the Cook Islands hydrographic requirements.

The Pacific Regional Navigation Initiative (PRNI), through MFAT NZ Aid Programme in partnership with SPC have also provided regional capacity building training to support Pacific Islands countries within the scope of the (PRNI).

- b) Status of national, bilateral, multilateral or regional development projects with a hydrographic component. (In progress, planned, under evaluation or study)

In 2016 the Cook Islands and LINZ (Primary Charting Authority) signed a bilateral arrangement.

- c) Description of requests to be considered by the IHO/CBSC

8. Oceanographic activities

[Describe any significant developments in oceanographic activity since the last RHC meeting related to the items below]

- a) General
- b) GEBCO/IBC's activities
- c) Tide gauge network
- d) New equipment
- e) Problems encountered

9. Other activities

[Describe any other significant developments of interest to the RHC since the last RHC meeting related to the items below]

- a) Participation in IHO Working Groups
- b) Meteorological data collection
- c) Geospatial studies
- d) Disaster prevention
- e) Environmental protection
- f) Astronomical observations
- g) Magnetic/Gravity surveys
- h) MSDI Progress
- i) International
- j) Etc.

10. Conclusions

The Cook Islands will continue to collaborate with LINZ (the Cook Islands Primary Charting Authority) to ensure that the PRNI funded Aid Programme will be a success in achieving our hydrographic requirements by meeting our international obligations under the SOLAS convention.

The updating of our current paper charts and the ongoing data collection of existing bathymetric data for science purposes will greatly assist LINZ in converting paper charts to ENCs and will improve the confidence of the maritime community navigating in our international waters particularly the cruise and shipping industries and other sectors such as environment, coastal including other environmentally sensitive areas.

Input to the IHO Publication P-5 (*Yearbook*)

Country: Cook Islands
Organization: Infrastructure Cook Islands

Contact information/ Informations de contact / Información de contacto	
-National Hydrographer or equivalent -Directeur du service hydrographique ou équivalent -Director del Servicio Hidrográfico o equivalente	Post: Director of Civil Works & Hydrography Name: Vaipo Mataora Postal address: PO Box 102, Rarotonga, Cook Islands Tel: +682 20321 Fax: +682 24321 Email: vaipo.mataora@cookislands.gov.ck
-Head of the Hydrographic Office (if different from the person indicated above) -Directeur du Service Hydrographique (si différent de la personne indiquée ci-dessus) -Director del Servicio Hidrográfico (si diferente de la persona indicada anteriormente)	Post: Name: Postal address: Tel: Fax: Email:
-Other point(s) of contact -Autre(s) point(s) de contact -Otros punto(s) de contacto	
-Web site -site web -sitio web	
Country information / Informations sur le pays/ Información sobre el país	
-Declared National Tonnage -Tonnage national déclaré -Tonelaje Nacional Declarado	Tonnage: 1,761,784.39 – 560 vessels registered Date: 16/11/2016
-National day -Fête nationale -Fiesta nacional	
-Date of establishment and Relevant National Legislation -Date de mise en place et législation nationale pertinente -Fecha de constitución y legislación nacional pertinente	

-Date first joined IHO -Date d'adhésion à l'OHI -Fecha de adhesión a la OHI	
-Date ratification Convention -Date de ratification de la Convention -Fecha de ratificación de la Convención	
-Remarks on membership -Remarques sur l'adhésion -Comentarios sobre la adhesión	
Agency information/ Information sur l'agence/ Información sobre la agencia	
-Top level parent organisation -Organisme mère -Organización asociada de nivel superior	Infrastructure Cook Islands (ICI)
-Principal functions of the organisation or the department -Attribution principales de l'organisme ou du département -Principales funciones de la Organización o departamento	<ul style="list-style-type: none"> • Coordinate hydrographic surveys • Reviewing and verifying charted information is correct and up to date; • Reviewing and verifying information in notices to mariners, sailing directions, lists or lights, etc. related to the Cook Islands is correct and up to date; • Verifying processes and procedures for MSI are implemented effectively;
-Annual operating budget -Budget annuel -presupuesto anual	
-Total number of staff employed -Effectifs totaux -Número total de personal empleado	2
-Number of INT charts published -Nombres de cartes INT publiées -Número de cartas INT publicadas	
-Total number of paper charts published-Nombre total de cartes papier	

publiées-Número total de cartas de papel publicadas				
-Number of ENC cells published -Nombres de cellules ENC publiées -Número de células ENC publicadas				
-Number of Other charts -Nombre d'Autres cartes -Número de Otras cartas				
-Type of publications produced -Type d'ouvrages produits -Tipo de publicaciones producidas				
-Detail of surveying vessels/ aircraft -Détail des bâtiments hydrographiques / aéronefs -Detalle de los buques hidrográficos / aeronaves	-Name -Nom -Nombre	-Displacement -Déplacement -Desplazamiento	-Date Launched -Date de mise en service -Fecha de botado	-Number of crew -Nombre de l'équipage -Tripulación
-Other information of interest -Autres informations utiles -Otra información de interés				

Input to the IHO Publication C-55 (*Status of Hydrographic Surveying and Charting Worldwide*)

Country: COOK ISLANDS

C-55 Summary for:				Comments on Charts:
Country:	Cook Islands			
Country Iso Code:				
Country SubCode:				
INT Region:	L			
Country/Depend:				
Last updated:	IHB November 2016			
Provided by:				
Chart coverage	Passage (%)	Coastal (%)	Port (%)	Comments on Surveys:
INT	100	100	30	
RNC	100	0	30	
ENC	100	0	30	
Status of Paper Charts				
Paper charts with depths in meters (%)				
Paper charts referenced to a satellite datum (%)				
Status of surveys	Adequate (%)	Resurvey (%)	No survey (%)	
0-200m	5	95	0	
> 200m	0	20	80	

MSI	Y/N	Comments on MSI:
Local warning	Portal	Passed to NZ
Coastal warning	Portal	Passed to NZ
Nav warning	Yes	Provided by New Zealand, NAVAREA XIV
Port warning	NO	
GMDSS	Y/N	Comments on GMDSS:
Master Plan	No	
Area A1	No	
Area A2	No	
Area A3	No	
NAVTEX	No	
SafetyNet	Yes	NAVAREA XIV messages broadcast via SafetyNET

National MSI Self-Assessment

Country: Cook Islands
Organization: Ministry of Transport

1. Maritime area

[Describe maritime area including details of the geographic boundaries]

2. Operational Points of Contact for the National Coordinator

INSTITUTION	TELEPHONE	FACSIMILE	EMAIL
Ministry of Transport	+682 28810	+68228816	Stephen.simpson@cookislands.gov.ck

3. GMDSS Master Plan

[Report on the status of the GMDSS Master Plan: Is it up to date? When was the last update?]

[Specifics of equipment used and software version with date up-dated]

Equipment Type for Ports and Local Area	Software Version	Date of Up-date

[Detail the number of warnings identified as immediate priority (requiring transmission within 30 minutes) and the average elapsed time for passing to NAVAREA coordinator, as reported to the last RHC meeting]:

Year Y-2		Year Y-1		Year Y	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
xx	xx.x Mins	xx	xx.x Mins	xx	xx.x Mins

4. NAVTEX Coverage:

[Diagram of NAVTEX stations and service areas within maritime area; Contact details for NAVTEX Stations; Confirm operational status has been validated.]

5. Operational Issues:

[New infrastructure in accordance with GMDSS Master Plan; Problems encountered?]

6. Contingency Planning

[Provide information regarding contingency plans that have been established and future plans where appropriate. Also report on any testing of the plan that has been conducted]

7. Capacity Building

[Demands for Capacity Building, Training requested or received, any offered, status of national, bilateral, multilateral or regional development projects with MSI component]

22-24 August 2016, Cook Islands attended a MSI training course hosted by LINZ and funded through the South West Pacific Hydrographic Commission (SWPHC) Capacity Building Committee work programme and other Pacific Island countries under New Zealand (NAVAREA XIV) also attended this MSI training.

8. Other Activities

[Participation in other IHO or IMO Working Groups, Regional Hydrographic Commissions, regional conferences related to MSI over past year]

The Cook Islands in the past year have not participated in regional conferences and was not invited.

9. National Maritime Website

[(Address, statistics (if permitted by national legislation; how often is the information on your web site updated? Do you display the date and time of the last update on your web site?)]

10. Recommendations

[If any]

11. Summary

[Please provide a short summary of this paper which will be included in the final report of the meeting.]