

**19TH MEETING OF THE SOUTH WEST PACIFIC HYDROGRAPHIC
COMMISSION (SWPHC19)
VTC, 23-25 February 2022**

NATIONAL REPORT FROM COOKISLANDS TO THE SWPHC19

References:

- A. IHO Resolution 2/1997 as amended (see doc. C3-04.2A, [Appendix to Annex A](#))
- B. IHO Circular Letter 20/2019, The IHO Online Form System for responses to Circular Letters and input to IHO Publications (P-5 and C-55): [link](#)
Online system for P-5 (Yearbook): [link](#)
Online system for C-55 (Status of Surveys and Charting Worldwide): [link](#)
- C. IHO Strategic Plan: [link](#)
- D. IHO IRCC CL 01/2021 IHO Strategic Plan for 2021-2026 – Procedure for measuring the Strategic Performance Indicator (SPI) allocated to IRCC: [link](#)

Executive summary

1. Hydrographic Office / Service:

- a) Name of the institution: Infrastructure Cook Islands (ICI) – National Hydrographic & Geoscience
- b) Description: The National Hydrographic and Geoscience division established under Infrastructure Cook Islands (ICI) in 2016 as per government directive to provide support and collate hydrography survey data for the purpose of updating the Cook Islands current paper charts and the modernisation of charts to ENC's. The office will continue to collaborate closely with our primary charting authority (LINZ) in providing them with new hydrographic survey data from contractors undertaking hydrographic survey in our waters for the purpose of updating the Cook Islands charts. The national hydrographic and Geoscience office continue to provide support to all government agencies and the private sector with the distribution of updated charts provided by LINZ to support their maritime safety requirements and for the safety of navigation in our international waters.
The director of the division remain the Chair for the Cook Islands National Hydrographic Coordinating Committee and the committee meets quarterly to report the activities and pending issues surrounding the safety of navigation and the maritime rules to avoid future accidents in our waters particularly the shipping and the cruise industry and local boat owners.
- c) Submitted by: Vaipo Mataora, Director of Hydrography and Geoscience, vaipo.mataora@cookislands.gov.ck

Detailed information to update IHO Publication P-5 (*Yearbook*) is submitted in Annex A (alternatively, use the online system, reference B). Please indicate "no change" in Annex A if this is the case.

2. Surveys:

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

- a) Coverage of new surveys: (No Change due Covid-19 pandemic)
- b) New technologies and /or equipment (No Change due Covid-19 pandemic)

- c) New ships (No Change due Covid-19 pandemic)
- d) Crowdsourced and satellite-derived bathymetry - national policy (No Change due Covid-19 pandemic)
- e) Challenges and achievements
 - Border lockdown due to Covid-19 pandemic

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 (alternatively, use the online system, reference B). Please indicate "no change" in Annexes A and B if this is the case.

3. New charts & updates:

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

- a) ENC coverage, gaps and overlaps

Southern Cook Islands and Rarotonga ENCs

<u>Withdrawn</u>	<u>Replaced</u>	<u>Summary of Changes</u>	<u>NtM Editon and Date</u>
NZ409551	CK401421 South Pacific Ocean - Cook Islands - Mauke	<ul style="list-style-type: none"> • Rebranded with a new number and the nations two-digit country code. 	Ed 2, 21 Jan 2022
NZ409552	CK401422 South Pacific Ocean - Cook Islands - Mangaia	<ul style="list-style-type: none"> • Rebranded with a new number and the nations two-digit country code. 	Ed 2, 21 Jan 2022
NZ409553	CK401423 South Pacific Ocean - Cook Islands - Atiu	<ul style="list-style-type: none"> • Rebranded with a new number and the nations two-digit country code. • Includes new Satellite Derived bathymetry (SDB) 	Ed 2, 21 Jan 2022
NZ409554	CK401424 South Pacific Ocean - Cook Islands - Takutea	<ul style="list-style-type: none"> • Rebranded with a new number and the nations two-digit country code. 	Ed 2, 21 Jan 2022
NZ409555	CK401425 South Pacific Ocean - Cook Islands - Manuae	<ul style="list-style-type: none"> • Rebranded with a new number and the nations two-digit country code. 	Ed 2, 21 Jan 2022

NZ409556	CK401426 South Pacific Ocean - Cook Islands - Palmerston	<ul style="list-style-type: none"> Rebranded with a new number and the nations two-digit country code. 	Ed 2, 21 Jan 2022
NZ409557	CK401427 South Pacific Ocean - Cook Islands - Mitiaro	<ul style="list-style-type: none"> Rebranded with a new number and the nations two-digit country code. 	Ed 2, 21 Jan 2022
NZ400955	CK400142 South Pacific Ocean - Cook Islands - Aitutaki	<ul style="list-style-type: none"> Rebranded with a new number and the nations two-digit country code. 	Ed 2, 21 Jan 2022
NZ500955	CK500142 South Pacific Ocean - Cook Islands - Arutanga Anchorage	<ul style="list-style-type: none"> Rebranded with a new number and the nations two-digit country code. 	Ed 2, 21 Jan 2022

Rarotonga

<u>Withdrawn</u>	<u>Replaced</u>	<u>Summary of Changes</u>	<u>Published Date</u>
NZ409558	CK400242 South Pacific Ocean - Cook Islands - Rarotonga	<ul style="list-style-type: none"> Rebranded with a new number and the nations two-digit country code. 	Ed 2, 21 Jan 2022
NZ509558	CK500242 South Pacific Ocean - Cook Islands - Rarotonga - Approaches to Avatiu and Avarua Harbours	<ul style="list-style-type: none"> Rebranded with a new number and the nations two-digit country code. 	Ed 2, 21 Jan 2022
NZ609558	CK602421 South Pacific Ocean - Cook Islands - Rarotonga - Avatiu Harbour	<ul style="list-style-type: none"> Rebranded with a new number and the nations two-digit country code. 	Ed 2, 21 Jan 2022

NZ695581	CK602422 South Pacific Ocean - Cook Islands - Rarotonga - Arorangi Reef Passage	<ul style="list-style-type: none"> Rebranded with a new number and the nations two-digit country code. 	Ed 2, 21 Jan 2022
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Northern Cook Islands

<u>Withdrawn</u>	<u>Replaced</u>	<u>Summary of Changes</u>	<u>Indicative Date</u>
NZ309451	CK301411 South Pacific Ocean - Cook Islands - Pukapuka	<ul style="list-style-type: none"> Rebranded with a new number and the nations two-digit country code. Includes new Satellite Derived bathymetry (SDB) 	Ed 3, 4 Feb 2022
NZ509451	CK501412 South Pacific Ocean - Cook Islands - Suvarrow - Lagoon Entrance	<ul style="list-style-type: none"> Rebranded with a new number and the nations two-digit country code. Includes new Satellite Derived bathymetry (SDB) 	Ed 3, 4 Feb 2022
NZ309452	CK301412 South Pacific Ocean - Cook Islands - Suvarrow	<ul style="list-style-type: none"> Rebranded with a new number and the nations two-digit country code. Includes new Satellite Derived bathymetry (SDB) 	Ed 3, 4 Feb 2022
NZ409451	CK401412 South Pacific Ocean - Cook Islands - Nassau	<ul style="list-style-type: none"> Rebranded with a new number and the nations two-digit country code. 	Ed 2, 21 Jan 2022
NZ409452	CK401413 South Pacific Ocean - Cook Islands - Manihiki	<ul style="list-style-type: none"> Rebranded with a new number and the nations two-digit country code. 	Ed 2, 21 Jan 2022
NZ409453	CK401414 South Pacific Ocean -	<ul style="list-style-type: none"> Rebranded with a new number and 	Ed 2, 21 Jan 2022

	Cook Islands - Rakahanga	the nations two- digit country code.	
NZ409454	CK401411 South Pacific Ocean - Cook Islands - Penrhyn	<ul style="list-style-type: none"> Rebranded with a new number and the nations two-digit country code. 	Ed 2, 21 Jan 2022
NZ600945	CK600141 South Pacific Ocean - Cook Islands - Penrhyn - Taruia Passage	<ul style="list-style-type: none"> Rebranded with a new number and the nations two-digit country code. 	Ed 2, 21 Jan 2022
NZ509453	CK501411 South Pacific Ocean - Cook Islands - Penrhyn - Taruia Passage to Gudgeon Bay	<ul style="list-style-type: none"> Rebranded with a new number and the nations two-digit country code. 	Ed 2, 21 Jan 2022

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

<u>Withdrawn</u>	<u>Replaced</u>	<u>Summary of Changes</u>	<u>Indicative Date</u>
NZ 945	CK 141 Plans of the Cook Islands - Northern Sheet	<ul style="list-style-type: none"> Rebranded with a new number and the nations two-digit country code and the Cook Island logo/crest. Includes new Satellite Derived bathymetry (SDB) on Pukapuka and Suvarrow Plans 	Ed 3, 4 Feb 2022

NZ 955	CK 142 Plans of the Cook Islands - Southern Sheet	<ul style="list-style-type: none"> • Rebranded with a new number and the nations two-digit country code and the Cook Island logo/crest. • Includes new Satellite Derived bathymetry (SDB) on Atiu plan 	Ed 3, 4 Feb 2022
NZ 9558	CK 242 Rarotonga	<ul style="list-style-type: none"> • Rebranded with a new number and the nations two-digit country code and the Cook Island logo/crest. 	Ed 3, 4 Feb 2022

- f) Other charts, e.g. for pleasure craft
- g) Challenges and achievements

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 (alternatively, use the online system, reference B). Please indicate "no change" in Annexes A and B if this is the case.

4. New publications & updates:

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

- a) New Publications
- b) Updated publications
- c) Means of delivery, e.g. paper, digital
- d) Challenges and achievements

Detailed information to update IHO Publication P-5 (*Yearbook*) is submitted in Annex A (alternatively, use the online system, reference B). Please indicate "no change" in Annex A if this is the case.

5. MSI

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

- a) Existing infrastructure for MSI dissemination
 - 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	Transport@cookislands.gov.ck

- MSI officer position currently vacant previous officer have moved to another position within MOT structure.
- b) Statistics on work of the National Coordinator
- c) New infrastructure in accordance with GMDSS Master Plan
- d) Challenges and achievements
- High turn over of staff retiring and moving to other position within the ministry
 - Appointing a dedicated MSI officer to focus more on the MSI roles and responsibilities.

Detailed information about MSI to update IHO Publication C-55 (*Status of Hydrographic Surveying and Charting Worldwide*) is submitted in Annex B (alternatively, use the online system, reference B). The national self-assessment of MSI is submitted in Annex C. Please indicate "no change" in Annexes B and C if this is the case.

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 (alternatively, use the online system, reference B). Please indicate "no change" in Annex B if this is the case.

Please provide a table of navigationally significant areas (e.g., Charted traffic separation schemes, anchorages and channels) within your area of jurisdiction. Please reference geographical locations as per largest scale chart. This information will be used to derive an estimate % figure for the Region. Examples are provided in the table below.

Ref. IHO Strategic Plan, Goal 1, Target 1.2, SPI 1.2.2.

Navigationally significant area	Location	Chart
Avatiu and Avarua Harbours	Rarotonga Island	NZ 9558
Arorangi Reef Passage (Jetty)	Rarotonga Island	NZ 9558
Arutanga Anchorage	Aitutaki Island	NZ 955
Lagoon Entrance	Suwarrow Island	NZ 945
Taruia Passage to Gudgeon Bay	Penrhyn Island	NZ 945

7. Capacity Building

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

a) Offer of and/or demand for Capacity Building

- Cook Islands in its current position required capacity building offer by the SWPHC/IHO and IMO

- b) Training received, needed, offered
 - No training were undertaken by the Cook Islands due to the Covid-19 pandemic, however the Cook Islands will participate to any form of training programme offered by national and regional maritime institutions.
- c) Status of national, bilateral, multilateral or regional development projects with a hydrographic component. (In progress, planned, under evaluation or study)
 - SPC - Pacific Safety of Navigation project new Phase III (2021-2024) International Foundation for Aids to Navigation (IFAN) has kindly agreed to extend the project for a Phase III (August 2021 – July 2024).
 - Rarotonga Coastal and Flood Mitigation data Collection (LiDAR) Project: The LiDAR project is to capture information from 12 islands, both northern and southern Cook Islands. LINZ was engaged by Infrastructure Cook Islands to undertake the technical review of the received tender bids to aid the final Tender Evaluation. The LiDAR project will also assist the Cook Islands with updates of the Cook Islands Nautical Charts and will be available to the Cook Islands Primary Charting Authority LINZ.
- d) Description of proposals and requests to the IHO CBSC

8. Oceanographic activities

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

- a) General (No Change)
- b) GEBCO & Seabed 2030 (No Change)
- c) Crowdsourced Bathymetry Activities (No Change)
- d) Tide gauge network (No Change)
- e) New equipment (No Change)
- f) Challenges and achievements (No Change)

9. Spatial data infrastructures

a) Status of MSDI

- The Cook Islands CookGeo portal a repository of marine spatial data has been further delayed due to the ongoing border lockdown Covid-19 pandemic and consultant from SPC unable to travel to the Cook Islands to undertake the updates of the current version of the portal.

b) Relationship with the NSDI

- The National Hydrography & Geoscience division continue to work in partnership with government agencies and the private sector providing the necessary spatial data to support their ongoing marine activities and decision making. The division also ensured that acquisition of spatial data sets must meet the spatial data standards and accuracy required to be added into the geoportal.

c) Involvement in regional or global MSDI efforts

- d) National implementation of the [UN Statement of Shared Guiding Principles for Geospatial Information Management](#) – including any national data policy and impact on marine data. Ref: IHO Strategic Plan, Goal 2, Target 2.3, SPI 2.3.1 Number of HOs reporting success applying the principles in their national contexts.

- The Cook Islands Geospatial Users committee have developed a national policy on data sharing which the government of the Cook Islands have endorsed in

2019 and policy have been made available to members of the Pacific Geospatial and Surveyor Council.

- e) MSDI national portal
 - The CookGeo portal once launched will become a repository for all Cook Islands marine spatial data and will be available for any one to access.
- f) Best practices and lessons learned
 - Standardisation and accuracy must be maintained.
- g) Challenges and achievements
 - Taking too long for government to realise the important of such portal to assist with the economic development of the Cook Islands.

10. Innovation

- a) Use of new technologies
- b) Risk assessment
- c) Policy matters

11. Other activities

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

- a) Participation in IHO meetings
- b) Meteorological data collection
- c) Geospatial studies
- d) Preparation for responses to disasters
- e) Environmental protection
- f) Engagement with the Maritime Administration
- g) Aids to Navigation matters
- h) Magnetic and gravity surveys
- i) International engagements
- j) Others

12. Conclusions

[Provide a short summary statement that highlights any of the following:

- a) *Areas of significant achievement*
 - Rebranded of the Cook Islands ENC's and replacement of the current ENC's with a new number and the nation's two-digit country code and the Cook Island logo/crest.
- b) *Areas of particular concern*
 - Areas recommended by the Cook Islands under the Risk Assessment report by Marico Marine New Zealand Ltd is still pending for survey to update the Cook Islands Nautical Charts.
- c) *Any other matters of interest to the SWPHC]*
 - The Cook Islands National Hydrographic and Geoscience unit require capacity building to build capacity in country to enable the Cook Islands to achieve its international obligations. The Cook Islands in its quest to become a full member of IHO is in progress with our government.

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

Country: Cook Islands
Organization: Infrastructure Cook Islands

(Please provide the information in English. Consider using the IHO Online Form System, see reference B)

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 Hydrography & GeoScience 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: Director Hydrography & GeoScience Name: Vaipo Mataora Postal address: PO Box 102, Rarotonga, Cook Islands Tel: +682 20321 Fax: +682 24321 Email: vaipo.mataora@cookislands.gov.ck
-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: Tonnage: 1,895,800.53 – 639 vessels registered Date: 4/02/2021 provided by Maritime Cook Islands the Cook Islands shipping registry agent. Date:
-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), National Hydrographic & GeoScience
-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	3
-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	3			
-Number of ENC cells published -Nombres de cellules ENC publiées -Número de células ENC publicadas	22			
-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: _____

(Please provide the information in English. Consider using the IHO Online Form System, see reference B)

C-55 Summary for:				Comments on Charts:
Country:	Cook Islands			
Country Iso Code:	CK			
Country SubCode:				
INT Region:	L			
Country/Depend:	C			
Last updated:				
Provided by:	CooK Islands			
Chart coverage	Passage (%)	Coastal (%)	Port (%)	Comments on Surveys:
INT	100	100	0	
RNC	100	100	100	
ENC	100	100	100	
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	71	29	0	
> 200m	0	20	80	

MSI	Y/N	Comments on MSI:
Local warning	Partial	Provided by Ministry of Transport
Coastal warning	N	
Nav warning	Y	Through our NAVAREA XIV
Port warning	Partial	Changed passed to charting authority (NZ)
GMDSS	Y/N	Comments on GMDSS:
Master Plan	N	
Area A1	N	
Area A2	N	
Area A3	N	
NAVTEX	N	
SafetyNet	N	Trough NAVAREA

National MSI Self-Assessment

Country: Cook Islands
Organization: Ministry of Transport

(Please provide the information in English)

1. Maritime area

RCC New Zealand covers the Cook Islands waters including the 200 nautical mile Exclusive Economic Zone (EEZ)

2. Operational Points of Contact for the National Coordinator

INSTITUTION	TELEPHONE	FACSIMILE	EMAIL
Ministry of Transport	+682 28810	+682 28816	Transport@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]:

2020		2021		2022	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
0	2 Mins	3	xx.x Mins	xx	xx.x Mins

4. NAVTEX Coverage:

Cook Islands does not broadcast coastal warnings via NAVTEX

5. Operational Issues:

Receiving and transmitting becomes difficult the further you are away from the main islands, sometime very difficult to hear.

6. Contingency Planning

Navigational warning affecting SOLAS ships are sent to the NAVAREA XIV Coordinator.

7. Capacity Building

Ministry of Transport, as well as members of the Cook Islands Hydrographic Office have participated in the past MSI training courses in SWP region. Assistance is required for the continuation of this training.

8. Other Activities

Ministry of Transport (MSI) provide assistance and supports the Cook Islands Rescue Coordination Centre (RCC) for Search and Rescue (SAR) purpose.

9. National Maritime Website

www.transport.gov.ck

10. Recommendations

It is strongly recommended that the Capacity Building Fund provides assistance in dispatching necessary experts to Cook Islands for conducting a feasibility study for the provision of GMDSS equipment for broadcasting of MSI under NZ guidance.

11. Summary

This self-assessment report highlights the MSI activities for the year 2019. Cook Islands is very actively involved in providing MSI services to the maritime industry locally including local operations and RCC New Zealand and LINZ