

**17TH MEETING OF THE SOUTH WEST PACIFIC HYDROGRAPHIC
COMMISSION (SWPHC17)
Wollongong, 12-14 February 2020**

NATIONAL REPORTS FROM NIUE TO THE SWPHC17

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](#)

Executive summary

1. Hydrographic Office / Service:
 - a) Name of the institution: **The Ministry of Infrastructure is the Competent Authority to meet Niue's SOLAS obligations.**
 - b) Description: **Land Information New Zealand (LINZ) is Niue's Primary Charting Authority**
 - c) Submitted by: **Lynsey Talagi, Maritime Manager, Department of Transport, Ministry of Infrastructure (lynsey.talagi@mail.gov.nu)**

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:
 - b) New technologies and /or equipment
 - c) New ships
 - d) Crowdsourced and satellite-derived bathymetry - national policy
 - e) Challenges and achievements

Data from the 2018 LiDAR survey of Niue and Beveridge Reef was officially handed over in June 2019

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
- b) ENC distribution method
- c) RNCs
- d) INT charts
- e) National paper charts
- f) Other charts, e.g. for pleasure craft
- g) Challenges and achievements

Approval is being sought from Cabinet to produce an official paper chart for Beveridge Reef.

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: **N/A**

[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
 - i. Three telecommunications towers for VHF operated by Telecom Niue Limited, and one broadcasting tower operated by the Broadcasting Corporation of Niue.**
 - ii. Niue's marine radio is operated by Telecom Niue Limited.**
 - iii. 4G mobile network launched, however, better coverage is pending.**
 - iv. Local warnings are sent via email, VHF, radio and tv**
- b) Statistics on work of the National Coordinator
 - Two local warnings**
- c) New infrastructure in accordance with GMDSS Master Plan
- d) Challenges and achievements
 - No full VHF CH16 coverage around Niue, although anticipated in 2020. Delayed tender process.**
 - Marine radio operators require more training.**

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.

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

More training is required for staff operating the marine radio at Telecom Niue

b) Training received, needed, offered

February 2019 - SPC held a drafting H-Notes workshop in-country

June 2019 - The NAVAREA XIV Coordinator, LINZ and the National MSI

Coordinator for Fiji held a one-day MSI training in-country

August 2019 - The National MSI Coordinator successfully completed the IALA Level 1 Aids to Navigation Manager Course.

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

i. Bilateral Arrangement between Land Information New Zealand and the Government of Niue acting through the Department of Transport, Ministry of Infrastructure and the Department of Justice, Lands and Survey, Ministry of Social Services concerning Cooperation in the Field of Hydrography (Signed March 2017)

ii. Large Scale Marine Protected Area (LSMPA) – 40% of Niue’s EEZ

- The Maritime Zones Act was amended and passed in October 2019 to add an enabling provision for a Marine Spatial Management Plan (MSMP) and MPA regulations under that Act. The LSMPA and Beveridge Reef regulations are drafted and will be submitted to Cabinet for approval.

- The Compliance Strategy was approved by Cabinet in November 2019.

- The MSMP is ready to be submitted to Cabinet for approval and the regulations are being developed.

iii. Pacific Safety of Navigation Project Phase 1 – Implementing the recommendations of the Safety of Navigation gap analysis and needs assessment by SPC in November 2017

iv. Pacific Safety of Navigation Project Phase 2 - SPC carried out an AToN risk assessment of Avatele and Namukulu boat ramps in February 2019

v. Pacific Regional Navigation Initiative – Niue’s paper chart will be updated in 2020. Approval is being sought from Cabinet to produce a paper chart for Beveridge Reef.

- vi. **Manatua Cable Project - hydrographic survey carried out in May 2019; cable landing in December 2019; and official launch in June 2020. Gazetting the no anchoring and no bottom fishing zone around the cable is pending.**
 - vii. **Pacific Maritime Safety Programme Phase 3 (PMSP3) – consultations held for the draft Maritime Safety Bill, which includes sections on AToN and MSI.**
 - viii. **A pre-feasibility study on developing the international port, Avatele and Namukulu boat ramps was conducted in October 2019 under an Asian Development Bank Technical Assistance. The feasibility study to fully assess and determine the most adequate investment option is scheduled to start in July 2020.**
- d) Description of proposals and requests to the IHO/CBSC
N/A
8. Oceanographic activities
[Describe any significant developments in oceanographic activity since the last SWPHC meeting related to the items below]
- a) General
 - b) GEBCO/IBC's activities, GEBCO Seabed 2030 activities
 - c) Tide gauge network
Tide gauge damaged by Tropical Cyclone Tino in January 2020
 - d) New equipment
Long range hydrophone technology trialled in September 2019
 - e) Challenges and achievements
9. Spatial data infrastructures N/A
- a) Status of MSDI
 - b) Relationship with the NSDI
 - c) Involvement in regional or global MSDI efforts
 - d) National implementation of the Shared Data Principles – including any national data policy and impact on marine data.
 - e) MSDI national portal
 - f) Best practices and lessons learned
 - g) Challenges and achievements
10. Innovation
- a) Use of new technologies
Drone (rotor and fixed wing) and long range hydrophone trials in September 2019
 - 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
LiDAR topographic survey of Niue in January 2020

- d) Preparation for responses to disasters
Opening of the National Emergency Operations Centre in October 2019

- e) Environmental protection
Maritime lawyers have made recommendations to fully implement the IMO's liability conventions

- f) Engagement with the Maritime Administration
The Competent Authority is a part of the Maritime Administration

- g) Aids to Navigation matters
Aids to Navigation Risk Assessment of Avatele and Namukulu boat ramps in February 2019

The National MSI Coordinator successfully completed the IALA Level 1 Aids to Navigation Manager Course in August 2019

- h) Magnetic and gravity surveys
- i) International engagements
- j) Others

12. Conclusions

Niue's significant achievements include:

- i. Aids to Navigation Risk Assessment of Avatele and Namukulul channels**
- ii. Official handover of the LiDAR survey data (June 2019) under PRNI**
- iii. In-country MSI training (June 2019)**
- iv. IHO Technical Implementation Visit (June 2019)**
- v. Progress with the legislation and the compliance strategy giving effect to the Large Scale Marine Protected Area**
- vi. Drafting of the Maritime Safety Bill, which includes sections on MSI and Aids to Navigation**
- vii. Local MSI warnings promulgated**

Areas of concern:

- i. Operators of the marine radio require more training for MSI.**
- ii. No full VHF Ch16 coverage**

Niue's future focus is:

- i. Installing Aids to Navigation at Avatele and Namukulu**
- ii. Updated chart for Niue and new chart for Beveridge Reef**
- iii. Full VHF Channel 16 coverage**
- iv. Marine Spatial Plan, compliance and sustainable financing**
- v. Draft / amend legislation to implement the IMO conventions**

Input to the IHO Publication P-5 (*Yearbook*)*Country: NIUE**Organization: Ministry of Infrastructure*

(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: Land Information New Zealand is the Primary Charting Authority. Niue doesn't have a National Hydrographic Service established Name: Postal address: Tel: Fax: Email:
-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	Ministry of Infrastructure is the Competent Authority to meet Niue's SOLAS obligations.
-Web site -site web -sitio web	www.gov.nu
Country information / Informations sur le pays/ Información sobre el país	
-Declared National Tonnage -Tonnage national déclaré -Tonelaje Nacional Declarado	Tonnage: Date:
-National day -Fête nationale -Fiesta nacional	19 October
-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	
-Principal functions of the organisation or the department -Attribution principales de l'organisme ou du département -Principales funciones de la Organización o departamento	
-Annual operating budget -Budget annuel -presupuesto anual	
-Total number of staff employed -Effectifs totaux -Número total de personal empleado	
-Number of INT charts published -Nombres de cartes INT publiées -Número de cartas INT publicadas	2 (published by LINZ)
-Total number of paper charts published-Nombre total de cartes papier	1 (published by LINZ)

publiées-Número total de cartas de papel publicadas				
-Number of ENC cells published -Nombres de cellules ENC publiées -Número de células ENC publicadas	2 (published by LINZ)			
-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: NIUE

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

C-55 Summary for:				Comments on Charts: 1. In 2019 under the Pacific Regional Navigation Initiative (PRNI) a chart improvement programme got underway to incorporate existing and new survey data. New charts for Niue and Beveridge Reef are scheduled for publication Q1 2020. 2. All Niue charts will be renumbered and incorporate the two-digit country code
Country:	Niue			
Country Iso Code:	NU			
Country SubCode:				
INT Region:	L			
Country/Depend:	C			
Last updated:				
Provided by:	Niue			
Chart coverage	Passage (%)	Coastal (%)	Port (%)	Comments on Surveys: 1. In 2016 a hydrographic risk assessment was completed under PRNI. This identified priority areas for survey, agreed with the Government of Niue. 2. In 2017 and 2018 under PRNI two outlying reefs, Beveridge and Antiope, were covered by SDB. Beveridge Reef was further surveyed with ALB. 3. In general, depths >200m are attained very close to Niue's fringing reef and Beveridge Reef. A SPC MBES survey of 2008 around Niue is incorporated in the charts. There is no current priority to survey depths >200m around Beveridge Reef. 4. Data from NOAA cruise HS91 292/293 was identified
INT	100	100	0	
RNC	100	100	80	
ENC	100	100	80	
Status of Paper Charts				
Paper charts with depths in meters (%)			100	
Paper charts referenced to a satellite datum (%)			100	
Status of surveys	Adequate (%)	Resurvey (%)	No survey (%)	
0-200m	100	0	0	
> 200m	1	20	79	

			following SWPHC16 workshop on Data Discovery and will be incorporated in the charts as will the recent (2019) MBES survey for the Manatua submarine cable.
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MSI	Y/N	Comments on MSI:
Local warning	Partial	Provided by the National MSI Coordinator, Telecom Niue Ltd (TNL) and Broadcasting Corporation of Niue (BCN). Passed to NZ
Coastal warning	Y	Provided by TNL
Nav warning	N	Through NAVAREA XIV
Port warning	Partial	Changes passed to charting authority (NZ). Provided by the National MSI Coordinator, Telecom Niue Ltd (TNL) and Broadcasting Corporation of Niue (BCN).
GMDSS	Y/N	Comments on GMDSS:
Master Plan	N	
Area A1	N	
Area A2	N	
Area A3	N	
NAVTEX	N	
SafetyNet	N	Through NAVAREA XIV

National MSI Self-Assessment

*Country: NIUE**Organization: Ministry of Infrastructure*

(Please provide the information in English)

1. Maritime area

Niue's Coastal Navigational Warning area covers ~15 NM for broadcasting of navigational warnings via Niue's Marine Radio on VHF.

2. Operational Points of Contact for the National Coordinator

INSTITUTION	TELEPHONE	FACSIMILE	EMAIL
Ministry of Infrastructure	+683 888 6983 /+683 4047		lynsey.talagi@mail.gov.nu

3. GMDSS Master Plan

N/A

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

[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]:

2017		2018		2019	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
xx	xx.x Mins	0	xx.x Mins	2	xx.x Mins

4. NAVTEX Coverage:

Niue does not broadcast MSI via NAVTEX as this is not practiced in the SWP region.

5. Operational Issues:

*No full VHF Ch 16 coverage around Niue, although anticipated in 2020. Delayed tender process.**More training is required for staff operating the marine radio at Telecom Niue.*

6. Contingency Planning

MSI messages sent to the NAVAREA XIV Coordinator, RCCNZ by email to be promulgated.

It has been discussed that Telecom Niue be appointed the deputy National MSI Coordinator as they operate the marine radio 24/7. Standard operating procedures for staff are being worked on.

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]

SPC held a Drafting H-Notes half-day workshop in February 2019.

The NAVAREA XIV Coordinator, LINZ and the National MSI Coordinator for Fiji held a one-day MSI training in-country in June 2019.

The National MSI Coordinator successfully completed the IALA Level 1 Aids to Navigation Manager Course in August 2019.

Bilateral Arrangement between Land Information New Zealand and the Government of Niue acting through the Department of Transport, Ministry of Infrastructure and the Department of Justice, Lands and Survey, Ministry of Social Services concerning Cooperation in the Field of Hydrography (Signed March 2017)

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A pre-feasibility study on developing the international port, Avatele and Namukulu boat ramps was conducted in October 2019 under an Asian Development Bank Technical Assistance. The feasibility study to fully assess and determine the most adequate investment option is scheduled to start in July 2020.

8. Other Activities

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

Hosted the 16th South West Pacific Hydrographic Commission meeting and technical workshop (11 – 15 February 2019)

The Department of Transport requests updates from RCCNZ of its register of 406 MHz EPIRBs that are coded to Niue. This is important for SAR purposes.

Niue received data for the LiDAR survey completed in June 2018 under PRNI.

The National Emergency Operations Centre opened in October 2019.

9. National Maritime Website

None

10. Recommendations

More training is required for staff operating the marine radio at Telecom Niue

11. Summary

This self-assessment report highlights the MSI activities for the year 2019. Niue still needs to finalise its processes for receiving information from stakeholders and standard operating procedures for the marine radio. The National MSI Coordinator provides LINZ with information to update charts.