

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

NATIONAL REPORT FROM PAPUA NEW GUINEA 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

The National Maritime Safety Authority (NMSA) is responsible for maritime safety, search and rescue and marine pollution prevention in Papua New Guinea. NMSA is also responsible for hydrographic surveying and charting working in collaboration with the Australian Hydrographic Office (AHO).

1. Surveys:

- a) Coverage of new surveys:
Kitava Island surveyed by RAN Survey Motor Launch MERMAID upon request by NMSA to support cruise ship anchorage.
- b) Crowdsourced and satellite-derived bathymetry - national policy
NMSA engaged with EOMAP to conduct satellite-derived bathymetry (SDB) and seafloor classification of Nukumanu Islands and Tauu Islands. This is the first time NMSA has utilised SDB technology and we have identified challenges that we need to address and establish some guidelines in this area.
- c) Challenges and achievements
Due to lack of staff, NMSA is not yet able to progress any capability to conduct hydrographic surveys on its own.

2. New charts & updates:

- a) ENC coverage, gaps and overlaps
PNG has full ENC coverage as published by the AHO
- b) ENC distribution method
Under arrangement of the AHO through Australian distribution service and IC-ENC.
For more information link provided below;
<http://hydro.gov.au/prodserv/digital/ausENC/enc.htm>
- c) INT charts
As published by the AHO
- d) National paper charts

In 2019 the AHO began rebranding of all PNG paper charts from 'AUS' prefix 'PNG'.

e) 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.

3. New publications & updates:

The rebranding by the AHO also incorporated surveys from Fugro (ADB) resulting in numerous updates and editions of PNG charts. As of December 2019, 29 new charts have been published out of a total 78.

a) New Publications

Chart #	Title
PNG 378	Daru Roads to Kerema Bay
PNG 506	Hood Point to Table Bay
PNG 507	Table Bay to Brumer Islands
PNG 508	Brumer Islands to Goschen Strait
PNG 509	Long Reef to Normanby Island
PNG 515	Woodlark Island to Trobriand Islands Including Egum Atoll
PNG 518	Goschen Strait to Ward Hunt Strait
PNG 520	Cape Nelson to Dyke Ackland Bay
PNG 624	Plans in Papua New Guinea (Sheet 3)
PNG 628	Nuakata Passage
PNG 631	Approaches to Sewa Bay
PNG 642	Port of Lae
PNG 643	Approaches to Lae
PNG 644	Plans in Papua New Guinea (Sheet 2)
PNG 646	Approaches to Madang
PNG 647	Approaches to Caution Bay
PNG 648	Caution Bay
PNG 653	Plans in Papua New Guinea (Sheet 7)
PNG 664	Kumuli Islands
PNG 666	Approaches to Kavieng Harbour
PNG 669	Plans in Papua New Guinea (Sheet 11)
PNG 671	Plans in Papua New Guinea (Sheet 6)
PNG 672	Tavanatangir Harbour
PNG 674	Approaches To Kimbe including Buluma
PNG 677	Plans in New Britain (Sheet 1)
PNG 679	Duke of York Group
PNG 680	Approaches to Blanche Bay
PNG 683	Plans on East Coast Bougainville Island
PNG 684	Plans on West Coast Bougainville Island

- b) Updated publications
- c) Means of delivery, e.g. paper, digital
 NMSA as a distribution agent for the AHO resells paper charts from its Port Moresby Office for PNG users. To support increased demand improvements in paper chart storage began in 2019 with new storage cabinets acquired, capable of storing the full series of charts.



- d) Challenges and achievements
 The rebranding PNG charts once completed will be a significant achievement for PNG and Australia. Papua New Guinea is delighted with this development and looks forward to continued cooperation with the AHO.

4. MSI

- a) **Existing infrastructure for MSI dissemination**
 PNGs notice to mariners are available on the AHO website hydro.gov.au/n2m/about-notices.htm#about

NMSA is the national coordinator in Papua New Guinea.

	Telephone	Facsimile	Email
PNGMRCC	+675 321 2969 +675 7351 7017	+675 321 0873 +675 321 0484	PNGMRCC@nmsa.gov.pg

- b) **Statistics on work of the National Coordinator**

Coastal Warnings: 44
 Hydrographic Notes: 5

NMSA collects information through field trips conducted regularly at major ports and through third party sources. Depending on the type of information either a hydro note is prepared and passed on to the AHO via datacentre@hydro.gov.au or if needed navigation warning issued through NAVAREA X Coordinator rccaus@amsa.gov.au.

- c) New infrastructure in accordance with GMDSS Master Plan
 None
- d) Challenges and achievements

5. 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.

6. Capacity Building

- a) Offer of and/or demand for Capacity Building
None

b) **Training received**

- Tides Training

One officer attended Australian Tides Workshop in 20-23 May 2019 in Adelaide, Australia. The workshop conducted by the Australian Bureau of Meteorology supports in raising level of awareness.

- CME Hydrographic Awareness Seminar

Two officers attended the Hydrographic Awareness Seminar under CSSF funded Commonwealth Marine Economies (CME) Programme, hosted by UKHO in Taunton, 11-15 November 2019. The seminar was very informative and provided useful guidances to support hydrographic governance.

c) **Hydrographic Development Plan**

NMSA started working on a development plan for hydrography, commencing with visits by three senior officials to the AHO and the Australian Maritime Safety Authority (AMSA) in August 2019. Further consultation will take place with stakeholders and a technical review with industry partners in 2020 to support capacity building.

- d) Description of proposals and requests to the IHO/CBSC

7. 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
- d) New equipment
- e) Challenges and achievements

8. Spatial data infrastructures

- 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

9. Innovation

None

10. 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

11. Conclusions

The NMSA is currently undergoing organizational restructure and hydrography is one function considered for staffing increase to seven (7) and development plan focusing on building capacity in hydrographic surveying, hydrographic database and MSI.

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

Country: PAPUA NEW GUINEA
Organization: National Maritime Safety Authority

(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: Senior Hydrgrapher Name: Nicholas Pion P O Box 668, PORT MORESBY, NCD Tel: +675 321 1244 Fax: +675 321 0873 Email: hydro@nmsa.gov.pg
-Head of the Hydrographic Office (if different from the person indicated above)	Post: Name: Postal address: Tel: Fax: Email:
-Other point(s) of contact	hydro@nmsa.gov.pg
-Web site	http://nmsa.gov.pg/
Country information / Informations sur le pays/ Información sobre el país	
-Declared National Tonnage	Tonnage: 203 520 Date: 7 Nov 2019
-National day -Fête nationale -Fiesta nacional	16 th September
-Date of establishment and Relevant National Legislation	25 Nov 2003 National Maritime Safety Authority Act
-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	Department of Transport
-Principal functions of the organisation or the department -Attribution principales de l'organisme ou du département -Principales funciones de la Organización o departamento	Maritime Safety, Search & Rescue and Marine Pollution Prevention
-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	
-Total number of paper charts published-Nombre total de cartes papier publiées-Número total de cartas de papel publicadas	Under bilateral arrangement with Australia
-Number of ENC cells published -Nombres de cellules ENC publiées -Número de células ENC publicadas	Under bilateral arrangement with Australia

-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: PAPUA NEW GUINEA

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

C-55 Summary for:				Comments on Charts:
Country:	PAPUA NEW GUINEA			
Country Iso Code:	PG			
Country SubCode:				
INT Region:	L			
Country/Depend:				
Last updated:				
Provided by:	National Maritime Safety Authority			
Chart coverage	Passage (%)	Coastal (%)	Port (%)	Comments on Surveys:
INT				
RNC	0	0	0	
ENC				
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				
> 200m				

MSI	Y/N	Comments on MSI:
Local warning	No	
Coastal warning	Yes	
Nav warning	Yes	Via NAVAREA X Coordinator
Port warning	No	
GMDSS	Y/N	Comments on GMDSS:
Master Plan	No	
Area A1	No	
Area A2	No	
Area A3	No	
NAVTEX	No	
SafetyNet	No	

National MSI Self-Assessment

Country: PAPUA NEW GUINEA

Organization: NATIONAL MARITIME SAFETY AUTHORITY

(Please provide the information in English)

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
National Maritime Safety Authority	+675 321 1244	+675 321 0873	hydro@nmsa.gov.pg

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]

8. Other Activities

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

9. National Maritime Website

<http://nmsa.gov.pg/>

10. Recommendations

None

11. Summary

The PNG government is delighted with the rebranding of PNG charts and acknowledges the efforts of Australia, especially the AHO in managing significant updates and looks forward continued cooperation. In its efforts to continue building on that cooperation, NMSA is currently drafting a hydrographic development plan that will focus on recruitment and building capacity.