

**20<sup>TH</sup> MEETING OF THE SOUTH WEST PACIFIC HYDROGRAPHIC  
COMMISSION (SWPHC20)  
22-24 February 2023, Wellington, New Zealand**

**NATIONAL REPORT FROM PAPUA NEW GUINEA TO THE SWPHC20**

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: National Maritime Safety Authority  
The National Maritime Safety Authority (NMSA) is responsible for maritime safety, search and rescue and marine pollution prevention in Papua New Guinea. NMSA functions include hydrographic service responsibilities.

b) Submitted by: Nicholas Pion, [npion@nmsa.gov.pg](mailto:npion@nmsa.gov.pg)

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:

There has not been any new surveys undertaken since SWPHC19. Following the recent ADB funded surveys conducted by Fugro NMSA has been working on identifying new survey priorities through stakeholder workshops and meetings. Two stakeholder workshops were conducted in major ports of Lae and Kimbe, in 2022.

Workshop Outcomes: Identified hydrographic survey and charting priorities in the following areas;

- Dampier Strait (PNG67)
- Vitiaz Strait (PNG387)
- Southwest New Britain Island (PNG386)
- Inner Barrier reef, Port Moresby - Hood Point (PNG505)
- Inner Barrier reef, Cape Rodney – Ava Point (PNG506, PNG507)

a) Challenges and achievements

Challenges is a lack of formal national hydrographic survey plan. NMSA is planning two more stakeholder workshops in 2023 in Port Moresby and Rabaul. Through these workshops a national hydrographic survey plan is expected to be completed by end of 2023.

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:

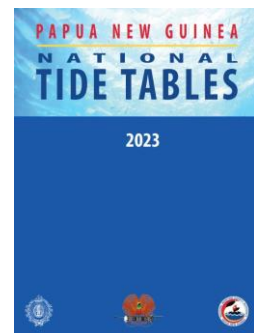
*[Describe any significant developments since the last RHC meeting in charting related to the items below]*

- 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

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:

- a) The Annual PNG National Tide Table is published under arrangement with the Australian Hydrographic Office.  
<https://www.hydro.gov.au/webapps/jsp/downloads/products.jsp>
- b) Working on process to initiate general updating of relevant chapters Admiralty Sailing Directions (NP15, NP60) covering PNG waters.
- 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
- b) Statistics on work of the National Coordinator  
Notice to Mariners: via the [eNotices](#) service of the Australian Hydrographic Office
- c) New infrastructure in accordance with GMDSS Master Plan

d) Challenges and achievements

Lack of awareness on hydrography remains the biggest challenge as PNG continues to see port developments and major coastal infrastructure projects proposed by government without consideration for hydrographic service.

Recognizing this challenge, NMSA conducted two stakeholder awareness workshops on hydrography and maritime safety information.

Lae Port 1 <sup>st</sup> – 2 <sup>nd</sup> Mar 2022	<ul style="list-style-type: none"> <li>• 2-day Workshop</li> <li>• 15 participants</li> <li>• Topics: Overview of Hydrography, Charts &amp; Publications and MSI, AtoN, Community Development Program</li> </ul>
Kimbe Port 28 <sup>th</sup> – 29 <sup>th</sup> Sep 2022	<ul style="list-style-type: none"> <li>• 2-day Workshop</li> <li>• 31 participants</li> <li>Topics: Overview of Hydrography, Charts &amp; Publications, MSI, AtoN, Community Development Program</li> </ul>



Findings:

- Based on survey undertaken after each workshop 80% of participants found MSI valuable and wanted similar workshops in future.

Outcomes:

- Identified hydrographic survey and charting priorities in the following areas;
  - Dampier Strait
  - Vitiaz Strait
  - Southwest New Britain Island
  - Inner Barrier reef, Port Moresby - Hood Point
  - Inner Barrier reef, Cape Rodney – Ava Point
- Proposed actions to undertake general updating of Chapter 6 and 7 of NP 60 Pacific Islands Pilot, 13<sup>th</sup> Edition 2018

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

### a) Demand for Capacity Building

NMSA is process of procuring Single-beam hydrographic survey kit in 2023. On demand is Category B Hydrographic Survey training for two newly recruited Hydrographic Surveyors.

### b) Training received

#### **IALA Level 1 AtoN Manager Course**

Two NMSA officers attended the IALA training through the IALA World-Wide Academy (WWA) distance learning. Rhonda Amos (Snr Hydrographic Data Officer) attended the SPC funded training which was held from Jun – Dec 2022. Justus Wayne (AtoN Technician) attended L1.1 AtoN Manager Course whilst and another by NMSA



### Training Needed

In 2021-2022 PNG proposed a few projects under the Transport Sector Support Program for review of MSI arrangements within NMSA. Due various reasons such as schedule fo TSSP and difficulty scoping this proposal could not be implemented.

Condideration is being made for NMSA to host a national MSI workshop/training in Port Moresby to raise awareness. A proposal for this workshop/training is being developed and further consultation with stakeholders expected and SWPHC.

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

- 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
  - b) GEBCO & Seabed 2030
  - c) Crowdsourced Bathymetry Activities
  - d) Tide gauge network
  - e) New equipment
  - f) Challenges and achievements
9. 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 [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.
  - e) MSDI national portal
  - f) Best practices and lessons learned
  - g) Challenges and achievements
10. Innovation
- a) Risk assessment  
Following risk assessment training by officers over the last two years NMSA looking at introducing risk assessment concept to support prioritisation of hydrographic surveying, charting and aids to navigation reviews.
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*
- b) Areas of particular concern*
- c) Any other matters of interest to the SWPHC]*

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

**Papua New Guinea**  
**National Maritime Safety Authority**

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

<b>Contact information/ Informations de contact / Información de contacto</b>	
-National Hydrographer or equivalent -Directeur du service hydrographique ou équivalent -Director del Servicio Hidrográfico o equivalente	<b>Hydrography Manager</b> Nicholas Pion PO Box 668, Port Moresby, NCD Papua New Guinea Tel: (675) 305 4600 Email: <a href="mailto:hydro@nmsa.gov.pg">hydro@nmsa.gov.pg</a>
-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)	<b>General Manager/CEO</b> National Maritime Safety Authority Paul. M. Unas PO Box 668, Port Moresby, NCD Papua New Guinea Tel: (675) 305 4600 Email: <a href="mailto:punas@nmsa.gov.pg">punas@nmsa.gov.pg</a>
-Other point(s) of contact -Autre(s) point(s) de contact -Otros punto(s) de contacto	<b>Executive Manager Maritime Operations</b> Capt. Krzysztof Orłowski PO Box 668, Port Moresby, NCD Papua New Guinea Tel: (675) 305 4600 Email: <a href="mailto:korlowski@nmsa.gov.pg">korlowski@nmsa.gov.pg</a>
-Web site -site web -sitio web	<a href="https://www.nmsa.gov.pg/">https://www.nmsa.gov.pg/</a>
<b>Country information / Informations sur le pays/ Información sobre el país</b>	
-Declared National Tonnage -Tonnage national déclaré -Tonelaje Nacional Declarado	Tonnage: 203520 Date: Nov 2019
-National day -Fête nationale -Fiesta nacional	16 September
-Date of establishment and Relevant National Legislation	NMSA Act 2003

-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	
<b>Agency information/ Information sur l'agence/ Información sobre la agencia</b>	
-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	Ship registration & inspection, seafarer certification, maritime safety, search and rescue, marine pollution prevention
-Annual operating budget -Budget annuel -presupuesto anual	
-Total number of staff employed -Effectifs totaux -Número total de personal empleado	200 staff in maritime administration (NMSA) with 7 staff in Hydrographic Department
-Number of INT charts published -Nombres de cartes INT publiées -Número de cartas INT publicadas	Through arrangements with Principle Charting Authority (PCA)



-Total number of paper charts published-Nombre total de cartes papier publiées-Número total de cartas de papel publicadas	81 paper charts published through the PCA <a href="https://hydro.gov.au/webapps/jsp/charts/PNGchartlist.jsp">https://hydro.gov.au/webapps/jsp/charts/PNGchartlist.jsp</a>			
-Number of ENC cells published -Nombres de cellules ENC publiées -Número de células ENC publicadas	168 ENCs published through the PCA			
-Number of Other charts -Nombre d'Autres cartes -Número de Otras cartas	2 Charts Indexes (Paper/ENC) published through the PCA			
-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)

<b>C-55 Summary for:</b>				<b>Comments on Charts:</b>
Country:	Papua New Guinea			
Country Iso Code:	PG			
Country SubCode:	121			
INT Region:				
Country/Depend:				
Last updated:				
Provided by:				
<b>Chart coverage</b>	<b>Passage (%)</b>	<b>Coastal (%)</b>	<b>Port (%)</b>	<b>Comments on Surveys:</b>
INT	100	100	100	
RNC	100	100	100	
ENC	100	100	99	
<b>Status of Paper Charts</b>				
Paper charts with depths in meters (%)			100	
Paper charts referenced to a satellite datum (%)			100	
<b>Status of surveys</b>	<b>Adequate (%)</b>	<b>Resurvey (%)</b>	<b>No survey (%)</b>	
0-200m	20	3	77	
> 200m	5	27	68	

<b>MSI</b>	<b>Y/N</b>	<b>Comments on MSI:</b>
Local warning		
Coastal warning		
Nav warning		
Port warning		
<b>GMDSS</b>	<b>Y/N</b>	<b>Comments on GMDSS:</b>
Master Plan		
Area A1		
Area A2		
Area A3		
NAVTEX		
SafetyNet		

## National MSI Self-Assessment

*Papua New Guinea  
National Maritime Safety Authority*

## 1. Maritime area

*[Describe maritime area including details of the geographic boundaries]*

## 2. Operational Points of Contact for the National Coordinator

<b>INSTITUTION</b>	<b>TELEPHONE</b>	<b>FACSIMILE</b>	<b>EMAIL</b>
PNG Maritime Rescue Coordination Center	+67573517017		<a href="mailto:PNGMRCC@nmsa.gov.pg">PNGMRCC@nmsa.gov.pg</a>

## 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]*

<b>Equipment Type for Ports and Local Area</b>	<b>Software Version</b>	<b>Date of Up-date</b>

*[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]:*

<b>Year Y-2</b>		<b>Year Y-1</b>		<b>Year Y</b>	
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

NMSA aims to raise awareness on MSI through national awareness

*[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

*[(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.]*