



## INTERNATIONAL HYDROGRAPHIC ORGANIZATION

### NATIONAL REPORTS FROM TUVALU TO THE SWPHC14

Reference: IHO Resolution 2/1997 as amended

#### Executive summary

##### 1. Hydrographic Office / Service:

- a) Name of the institution: [Department of Marine and Port Services.](#)
- b) Description: [Tuvalu has not yet established a hydrographic service or government agency. All hydrographic matters are referred to the Director of Marine and Port Services](#)
- c) Submitted by: [Captain Taasi Pitoi, Director, Department of Marine and Port Services.](#)

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

##### 2. Surveys:

- a) Coverage of new surveys: [Nil](#)
- b) New technologies and /or equipment: [Nil](#)
- c) New ships: [Nil](#)
- d) Problems encountered: [Tuvalu is a small country and it is highly likely it will never possess a hydrographic survey capability. In the short to medium term, efforts are being focussed on attaining IHO Maturity Level 1 – ie establish hydrographic governance and basic MSI capability require to fulfil SOLAS obligations relating to Chapter V.](#)

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:

- a) ENCs: [Nil](#)
- b) ENC Distribution method: [None](#)
- c) RNCs: [One NtM update issued in response to Hydrographic Note submitted in June 2016.](#)
- d) INT charts: [Nil](#)
- e) National paper charts: [No national charts – all produced by UKHO \(PCA\)](#)
- f) Other charts, e.g. for pleasure craft: [None – although some interest in production of these for small FV that operate from the main islands and find the standard nautical charts not suitable for their needs.](#)
- g) Problems encountered: [The relatively recent withdrawal of chart BA766 by the UKHO, whilst understandable from a liability perspective, has created a gap in the](#)

charting needs of mariners operating in and around Tuvalu. This was discussed with UKHO staff during a recent IHO technical Assessment Visit and it is hoped that, with the provision of modern bathymetric data obtained under NZ MFAT Pacific Regional Navigation Initiative (PRNI) that a fit for purpose, larger scale chart(s) of the outer islands will be reintroduced.

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:
  - a) New Publications Nil
  - b) Updated publications Nil
  - c) Means of delivery, e.g. paper, digital Nil
  - d) Problems encountered: Access to official nautical publications is costly resulting in practically no copies of the ATT or ALRS, both paper and digital, held in Tuvalu. All tide information required to support navigation is obtained by the tide tables produced by SPC (derived from the Australian operated sea level network tide gauges).

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

5. MSI
  - a) Existing infrastructure for transmission: No established MSI infrastructure. Limited met warnings broadcast on local AM radio
  - b) New infrastructure in accordance with GMDSS Master Plan. Nil
  - 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:
    - Capt Leupena Paueli, Maritime Officer, attended the week long MSI training course, funded through the IHO CB programme and delivered by LINZ in Wellington, NZ in August 2016;
    - Mr Taasi Pitoi, Director of Marine and Port Services, participated in Hydrographic Note compilation during PRNI Visit in May 2016;
    - Capt Leupena Paueli and Capt Nito Lipene (both Maritime Officers, currently employed as Masters of Tuvalu Government Vessels) received MSI and Hydrographic Note refresher training during PRNI visit November 2016.
  - b) Status of national, bilateral, multilateral or regional development projects with a hydrographic component. (In progress, planned, under evaluation or study):
    - Outer Islands Infrastructure Programme – construction of vessel landing and cargo handling areas. Hydrographic component – pre and post works surveys by contractor.

- Borrow Pit Project – NZ MFAT funded project to fill post WWII excavations on Funafuti. Hydrographic component in support of post-dredge operations acquired by Hall Dredging. Potential further hydrographic work in support of monitoring of seabed post reclamation.
- c) Description of requests to be considered by the IHO/CBSC
- Although past attendance on IHOI MSI courses by Tuvalu Maritime Officials has had minimal impact on the establishment of an effective MSI capability, it is requested that further MSI training opportunities are offered, which will be attended by a wider cross section of the maritime community to enable greater buy-in and sharing of resources.

## 8. Oceanographic activities

- a) General: Nil
- b) GEBCO/IBC's activities: Nil
- c) Tide gauge network: The PSLM Tide Gauge, operated by the Bureau of Meteorology in collaboration with SPC, continues to operate. Plans are in place for the relocation of the TG from its current position to the main wharf within the next 12 months.
- d) New equipment: Nil
- e) Problems encountered: NA

## 9. Other activities

- a) Participation in IHO Working Groups: Nil
- b) Meteorological data collection: Nil. It is the intention to work closer together with the Tuvalu Meteorological Office in the collection and promulgation of MSI.
- c) Geospatial studies: Nil
- d) Disaster prevention: Ongoing improvements as part of SPC Disaster and Risk Management programmes and NZ SAR Planning assistance.
- e) Environmental protection: Much activity in relation to climate change and dedicated office established in the Prime Ministers Department.
- f) Astronomical observations: Nil
- g) Magnetic/Gravity surveys: Not known
- h) MSDI Progress: Work continues to define and lodge Tuvalu Maritime Boundaries under UNCLOS; Tuvalu has been receiving assistance from Australian DFAT and GA, in collaboration with SPC as part of the SPC/GA Maritime Boundaries Project.
- i) International
- j) Etc.

## 10. Conclusions

### a) *Areas of significant achievement*

Recent assistance received under the PRNI during visits in May and November 2016 have enabled greater visibility, at the national and international level, of the issues faced by Tuvalu in meeting its hydrographic obligations under SOLAS. Achievement of IHO CB Maturity Model Level 1 – MSI – is still a way off but some progress has been made, particularly in the area of governance, which has benefited from a recent Maritime Institutional and Legislative review conducted as part of a NZ MFAT technical assistance project. The recent IHO Technical Assessment Visit, jointly conducted by a team from the UKHO and SPC, provided further exposure to shortcomings in current chart coverage and areas for future assistance.

Input to the IHO Publication P-5 (*Yearbook*)Country: TuvaluOrganization: Department of Marine and Port Services

<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	Post: Director of Marine and Port Services Name: Mr Taasi Pitoi Postal address: Funafuti, Tuvalu Tel: 688 20055/54 Fax: nil Email: taasi.pitoi@gmail.com, tpitoi@gov.com
-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: NIL Name: Postal address: Tel: Fax: Email:
-Other point(s) of contact -Autre(s) point(s) de contact -Otros punto(s) de contacto	Same as above
-Web site -site web -sitio web	Nil
<b>Country information / Informations sur le pays/ Información sobre el país</b>	
-Declared National Tonnage -Tonnage national déclaré -Tonelaje Nacional Declarado	Tonnage: Date:
-National day -Fête nationale -Fiesta nacional	Tuvalu Day
-Date of establishment and Relevant National Legislation -Date de mise en place et législation nationale pertinente -Fecha de constitución y legislación nacional pertinente	Hydrography and associated governance does not feature in current national legislation for Tuvalu.  An Institutional and Legislative Review of Tuvalu's Maritime governance and law is currently in progress. It is anticipated the recommendations of the review will include the establishment of a National Hydrographic Coordinating Committee and associated key roles such as the Maritime Safety Information (MSI) Coordinator.

-Date first joined IHO -Date d'adhésion à l'OHI -Fecha de adhesión a la OHI	Not a member of IHO
-Date ratification Convention -Date de ratification de la Convention -Fecha de ratificación de la Convención	Not a member of IHO
-Remarks on membership -Remarques sur l'adhésion -Comentarios sobre la adhesión	Membership of the IHO is under consideration by Tuvalu.
<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 Marine and Port Services.
-Principal functions of the organisation or the department -Attribution principales de l'organisme ou du département -Principales funciones de la Organización o departamento	Oversee the operation of the Port and Domestic Shipping Services to the other Islands and international ports.
-Annual operating budget -Budget annuel -presupuesto anual	3 million
-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	INT Chart coverage of Tuvalu is provided by the UKHO ( 3 )
-Total number of paper charts published-Nombre total de cartes papier publiées-Número total de cartas de papel publicadas	Chart coverage of Tuvalu comprises: BA4625 (1:1500000) BA2983 (Funafuti –1:50,000 with plans at 1:15,000) Note: Chart BA766 – plans of the outer islands at various large scales – has been withdrawn by the UKHO

-Number of ENC cells published -Nombres de cellules ENC publiées -Número de células ENC publicadas	Nil			
-Number of Other charts -Nombre d'Autres cartes -Número de Otras cartas	Nil			
-Type of publications produced -Type d'ouvrages produits -Tipo de publicaciones producidas	Nil, although sea level data recorded by the PSLM gauge at Funafuti is used to produce predictions for annual Tide Tables published by BoM in conjunction with SPC.			
-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
	Nil	Nil	Nil	Nil
-Other information of interest -Autres informations utiles -Otra información de interés	Nil			

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

Country: Tuvalu

C-55 Summary for:				Comments on Charts:
Country:	Tuvalu			
Country Iso Code:				
Country SubCode:				
INT Region:				
Country/Depend:				
Last updated:				
Provided by:	D.Mundy (SPC) on behalf of Government of Tuvalu			
<b>Chart coverage</b>	<b>Passage (%)</b>	<b>Coastal (%)</b>	<b>Port (%)</b>	Comments on Surveys:
INT				
RNC				
ENC				
<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	15%	15%	70%	
> 200m	60%		40%	

MSI	Y/N	Comments on MSI:
Local warning	Y	Infrequent weather warnings broadcast on local AM radion station
Coastal warning	N	
Nav warning	N	
Port warning	N	
GMDSS	Y/N	Comments on GMDSS:
Master Plan	N	

Area A1		
Area A2		
Area A3		
NAVTEX		
SafetyNet		



## National MSI Self-Assessment

Country: Tuvalu  
 Organization: Department of Ports and Marine

## 1. Maritime area

Not determined and working with NZ MFAT on future development on this.

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

INSTITUTION	TELEPHONE	FACSIMILE	EMAIL

A national MSI coordinator has not been appointed under any formal legislation / governance arrangements are expected to create new post for 2017 fiscal year.

## 3. GMDSS Master Plan

A GMDSS Master Plan for Tuvalu has not been developed, nor is it anticipated in the future.

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

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

There has been no NAVAREA or METAREA warnings initiated by Tuvalu in the previous 2 years.

## 4. NAVTEX Coverage:

N/A for Tuvalu

## 5. Operational Issues:

Currently all MSI responsibilities and functions rests solely with the Director of Marine and Port Services – Mr Taasi Pitoi. Apart from being under-resourced to undertake this role, it is better placed with a subordinate to enable appropriate oversight and accountability.

## 6. Contingency Planning

Nil

## 7. Capacity Building

Although past attendance on IHOI MSI courses by Tuvalu Maritime Officials has had minimal impact on the establishment of an effective MSI capability, it is requested that further MSI training opportunities are offered, which will be attended by a wider cross section of the maritime community to enable greater buy-in and sharing of resources.

## 8. Other Activities

Nil

## 9. National Maritime Website

No website for Tuvalu.

## 10. Recommendations

Recommendations cover two broad areas; governance and basic MSI Capability.

Governance:

- Review the results of the Draft Institutional and Legislative Maritime Review, currently being conducted by NZ MFAT, relating to provision of hydrographic services and navigation and meteorological forecasts and warnings;
- Based on the above review, implement appropriate hydrographic governance to enable the establishment of a National Hydrographic Service and associated Hydrographic Coordinating Committee with delegated power to appoint key positions;
- The NHCC, once established, appoint a MSI Coordinator and approve appropriate level of resourcing to enable discharge of responsibilities under SOLAS Ch 5, regulations 4 and 5

Basic MSI capability:

- Explore options for greater involvement of Meteorological Office and Police Maritime Wing in the provision of MSI functions and associated CB;
- Follow up with SPC the concept of a “MSI Resource Package”, comprising dedicated laptop enabling access to digital charts, pre-loaded MSI forms and fit for purpose communications capability.

## 11. Summary

There is currently no functioning MSI organisation in Tuvalu. Assistance is being provided by SPC through the NZMFAT PRNI and the IHO through the CB Workplan to develop a basic MSI capability and associated hydrographic governance.