

Paper for Consideration by SWPHC
IHO Secretariat Report

Submitted by:	Secretariat of the IHO
Executive Summary:	This paper reports on activities of the IHO Secretariat that may impact the work of the SWPHC.

Entry into force of the Amendments to the IHO Convention and its supporting Basic Documents

1. The Amendments to the IHO Convention and its supporting Basic Documents entered into force on 8 November 2016. The most significant changes to the organization of the IHO are:

- the term International Hydrographic Bureau (IHB) used to describe the headquarters and the secretariat of the IHO is replaced by the term IHO Secretariat;
- the Directing Committee, comprising a President and two Directors ceases to lead the IHB (Secretariat of the IHO). Instead, the Secretariat of the IHO is now led by a Secretary-General assisted by two subordinate Directors;
- the term International Hydrographic Conference used to designate the principal organ of the Organization, composed of all Member States, is replaced by the term Assembly. The ordinary sessions of the Assembly will be held every three years instead of every five years for the Conference. The first session of the IHO Assembly (A-1) will be held in Monaco from 24 to 28 April 2017, at which time an IHO Council will be established. In order to provide a logical and sequential timetable for decision making, the Secretary-General anticipates that the first meeting of the Council (C-1) will take place in October 2017 and annually thereafter. The second session of the Assembly (A-2) should take place in April 2020;
- the subsidiary organs, including the Committees, of the IHO will report to the Council that will then refer endorsed proposals for adoption either to the Assembly or to the Member States through correspondence;
- the planning cycle for the IHO work programme and budget changes from a five-year to a three-year cycle. The next cycle will run from 2018 to 2020.
- for States wishing to join the IHO that are already Member States of the United Nations there is no requirement to seek the approval of existing Member States of the IHO;
- the strict eligibility requirements for candidates seeking election as the Secretary-General or a Director are relaxed; and
- in future, where voting by correspondence is required, through the Council, decisions will be taken based on a majority of the Member States that cast a vote, rather than the existing arrangements where a majority of all the Member States entitled to vote is required. A minimum number of at least one-third of all Member States eligible to vote must vote positively for the vote to stand

Status of Membership of the IHO

2. One of the main changes resulting from the entry into force of the revised IHO Convention is that, for States wishing to join the IHO that are already Member States of the United Nations, there is no requirement to seek the approval of existing Member States of the IHO. Accordingly, the following States : Bulgaria, Congo, Haiti, Malta, Mauritania, Sierra Leone, **Solomon Islands**, and **Vanuatu**, that have already applied for membership of the IHO, may now submit their instruments of accession to the Convention on the IHO and thereby become members immediately.

3. The following Associate members of the SWPHC have yet to apply to become members of the IHO: Cook Islands, Kiribati, Niue, Palau, and Samoa. All, except Cook Islands and Niue, are Member States of the UN. Cook Islands and Niue, as non-Member States of the UN, are required to seek the approval of the IHO Member States. The SWPHC is encouraged to engage with Nauru and Tuvalu (coastal States in the Region that are not Associate Members) and Marshall Islands and the Federated States of Micronesia (Members of the Pacific Community) the raise awareness on the

importance and value of hydrography.

INT Chart and ENC Production Coordination - Region L

4. The current web-based version of S-11 Part B for Region L is edition 3.0.0 dated January 2016. This new edition reports that 57 INT charts are available to date, out of 62 charts in the scheme. It is expected that a new edition will be released, in liaison with the regional INT Chart Coordinator, after the SWPHC-14.

5. The Region L Coordinator (Australia) was unable to participate in the 6th meeting (March 2016) of the WENDWG where WENDWG-6 invited:

- Regional Hydrographic Commissions to define and adopt ENC Schemes (as is already the case for INT Charts Schemes) and to provide basic metadata to the IHB,
- the IHB to consider including a layer of “Approved” ENC Schemes in the IHO ENC Catalogue or as an extension of the INT Web Chart Catalogue, and
- ENC Producers to distribute their ENCs through the RENCs in accordance with the WEND Principles and Guidelines. A chart describing the ENC dataflow is now available on the WENDWG Repository webpage.

6. A few ENC overlap issues in Region L were reported to WENDWG-6.

7. At WENDWG-6 it was identified that the Pacific Ocean is the only region of the world where several UB1 ENCs remain unavailable via the RENC system.

8. IHO CL 61/2015 dated 24 August 2015 informed Member States of the promulgation of Circular MSC.1/Circ.1503 of 24 July 2015 on *ECDIS - Guidance for Good Practice* by the Secretariat of the International Maritime Organization (IMO). Noting that the Circular refers to the IHO online ENC Catalogue and that the mention includes a reference to the provision of coastal State information on any requirements for ECDIS backup arrangements using paper charts, the Directing Committee reiterated its earlier request (see IHO CL 41/2014) that Member States ensure that the relevant information which has been posted on the IHO website since 2008 (see IHO CL 10/2008) is kept current and to provide the Secretariat with updates as appropriate. Member States were invited to provide updates before the end of 2015 and to provide subsequent updates, or confirmation of no change, at least once a year. Where relevant information has been provided by Member States, it is located at: *Home > ENCs & ECDIS > ENC Availability > Backup Paper Charts*, and - *Home > ENCs & ECDIS > ENC Availability > Online Chart Catalogues*. The latest information received from States in the SWPHC region is as follows:

Country	Last date that information on the requirements for ECDIS back-up arrangements using paper charts was provided to IHO Secretariat	Link to on-line chart catalogue
Australia	August 2016	Yes
Cook Islands	No information provided to IHO Secretariat	
Fiji	No information provided to IHO Secretariat	No
France	<u>March 2016</u>	Yes
Kiribati	No information provided to IHO Secretariat	
Marshall Islands	No information provided to IHO Secretariat	
Micronesia	No information provided to IHO Secretariat	
Nauru	No information provided to IHO Secretariat	
New Zealand	No information provided to IHO Secretariat	Yes
Niue	No information provided to IHO Secretariat	
Palau	No information provided to IHO Secretariat	

Country	Last date that information on the requirements for ECDIS back-up arrangements using paper charts was provided to IHO Secretariat	Link to on-line chart catalogue
Papua New Guinea	No information provided to IHO Secretariat	Yes (provided by AU)
Samoa	No information provided to IHO Secretariat	
Solomon Islands	No information provided to IHO Secretariat	
Timor Leste	No information provided to IHO Secretariat	
Tonga	No information provided to IHO Secretariat	No
Tuvalu	No information provided to IHO Secretariat	
United Kingdom	April 2007	Yes
United States of America	April 2007	Yes
Vanuatu	No information provided to IHO Secretariat	

9. **Requested Action:** SWPHC representatives to review the entries in the table above related to their countries and to provide additional information or updates to the IHO Secretariat, as applicable.

Regional Hydrographic Capability

10. The IHO President (now Secretary-General) provided a country-by-country status report on hydrographic capability to the 17th session of the Asia Pacific Heads of Maritime Safety Authorities (APHoMSA) in February. The President stressed the obligation for providing an appropriate national hydrographic service that is placed upon Maritime Administrations through SOLAS V/9 and the fact that this was an auditable obligation under the IMO Audit Scheme. A summary of the report is included at Annex A.

Maritime Safety Information Services

11. **MSI Capability and Supportability.** The IHO Capacity Building strategy lays particular emphasis on the fundamental capability for all coastal States to provide a maritime safety information (MSI) service in support of their international obligations. One area of concern is the apparent inability for countries to support the recipients of IHO MSI training. Based on reports to the IHO World-Wide Navigational Warning Service Sub Committee (WWNWS-SC), the following table indicates the MSI training received in the SWPHC region and the resultant assessed level of capability - measured by the number of relevant MSI reports received by the relevant regional MSI coordinator.

Country (NAVAREA)	Date(s) received MSI training	Reports issued 1 August 2015 - 31 July 2016	assessed effective MSI capability
Australia (X)		450	NAVAREA X Coordinator
British Overseas Territory - Pitcairn Is (XIV)		NK	Yes
Cook Is (XIV)	Aug 2016	0	National MSI Coordinator officially appointed Sept 2016. Good contact but little information received to-date

Country (NAVAREA)	Date(s) received MSI training	Reports issued 1 August 2015 - 31 July 2016	assessed effective MSI capability
Fiji (XIV)	Aug 2016	69	MSAF active and engaged. Regular contact maintained with National MSI Coordinator
French Polynesia (XIV)	Aug 2016	28	POR SafetyNET broadcasts to Area R.
Wallis & Futuna (XIV)	Aug 2016	0	POR SafetyNET broadcasts to Area D by MRCC New Caledonia
New Caledonia (X,XIV)	Aug 2016	20	POR SafetyNET broadcasts to Area N
Kiribati (XI,XII, XIV)	Aug 2016	0	No information/no contact
Marshall Islands (XIV)		NK	No information/no contact
Micronesia (X)		NK	No information/ no contact
Nauru (X)		NK	No information/ no contact
New Zealand (XIV)		528	NAVAREA XIV Coordinator
Niue (XIV)	Aug 2016	0	No recent information. No National MSI Coordinator appointed.
Palau (XI)		NK	No information/ no contact.
Papua New Guinea (X)	Aug 2016	NK	Yes
Samoa (XIV)	Aug 2016	0	No recent information. No National MSI Coordinator appointed.
Solomon Is (X)	Aug 2016	NK	Yes
Timor Leste (X)		NK	Assistance from Australia.

Country (NAVAREA)	Date(s) received MSI training	Reports issued 1 August 2015 - 31 July 2016	assessed effective MSI capability
Tokelau (XIV)	Aug 2014	0	No recent information. No National MSI Coordinator appointed.
Tonga (XIV)	Aug 2016	0	No recent information.
Tuvalu (XIV)	Aug 2016	0	No information/ no contact.
United States Insular Areas - N. Mariana Is (XI), Guam (XI), American Samoa (XIV)		NK	Yes
Vanuatu (X, XIV)	Aug 2016	0	No information/ no contact.

12. It should be noted that the majority of island States rely on NAVAREA Coordinators X and XIV for their MSI service. Both Australia and New Zealand have expended considerable resources in support and training - with mixed results, although recently NAVAREA XIV has indicated improvements in communication and stability in personnel.

13. **NAVTEX Services.** There are no NAVTEX services within NAVAREA X and XIV, all coastal warnings are transmitted via SafetyNET.

STATUS OF SHORE BASED FACILITIES FOR GMDSS

Country	A1 Area	A2 Area	A3/A4 Area	NAVTEX	SafetyNET	Notes
Australia	No	No	Yes	No	Yes	Coastal warnings broadcast by SafetyNet
British Overseas Territory - Pitcairn Is	No	No	No	No	Yes	No information/ no contact
Cook Is	No	No	Yes	No	NAVAREA XIV	Coastal warnings broadcast by SafetyNet
Fiji	No	Yes	Yes	No	NAVAREA XIV	MSAF broadcast CNW via MF and VHF

Country	A1 Area	A2 Area	A3/A4 Area	NAVTEX	SafetyNET	Notes
French Overseas Collectivities - New Caledonia. Wallis & Futuna, French Polynesia	No	No	Yes	No	Yes	Coastal warnings broadcast by SafetyNet
Kiribati	No	No	No	No	No	No information/ no contact
Marshall Islands	NI	NI	NI	No	NI	No information/ no contact
Micronesia	NI	NI	NI	No	NI	No information/ no contact
Nauru	NI	NI	NI	No	NI	No information/ no contact
New Zealand	No	No	Yes	No	Yes	Coastal warnings broadcast by SafetyNet
Nuie	No	No	Yes	No	NAVAREA XIV	Coastal warnings broadcast by SafetyNet
Palau	NI	NI	NI	No	NI	No information/ no contact
Papua New Guinea	No	No	No	No	Yes	Coastal warnings broadcast by SafetyNet
Samoa	No	No	Yes	No	NAVAREA XIV	Coastal warnings broadcast by SafetyNet
Solomon Is	No	No	No	No	No	No information/ no contact
Timor Leste	No	No	No	No	No	Coastal warnings broadcast by SafetyNet
Tokelau	No	No	Yes	No	NAVAREA XIV	Coastal warnings broadcast by SafetyNet

Country	A1 Area	A2 Area	A3/A4 Area	NAVTEX	SafetyNET	Notes
Tonga	No	No	Yes	No	NAVAREA XIV	Coastal warnings broadcast by SafetyNet
Tuvalu	No	No	Yes	No	NAVAREA XIV	No information/ no contact
United States Insular Areas - N. Mariana Is, Guam, American Samoa	No	No	Yes	No	Yes	Coastal warnings broadcast by SafetyNet
Vanuatu	No	No	No	No	No	No information/ no contact

Capacity Building Programme

14. The level of activity of the IHO Capacity Building (CB) Programme continued to increase. Expenditure in the IHO 2015 CB Work Programme (930,907 Euros) was 118% greater than the budget for the previous year. This was a result of the ongoing financial support provided by the Nippon Foundation of Japan and the Republic of Korea, supplemented by a contribution from the IHO budget and in-kind support from Member States and from industry. The Directing Committee is continuing its campaign to find additional donor States and funding organizations. In 2015, 86% of the budgeted work program was executed and paid for.
15. The SWPHC benefited from seven activities under the IHO CB Work Programme (CBWP) since the last meeting:
- Technical Implementation Visit to Vanuatu, led by UKHO, 09-13 November 2015
 - Technical Implementation Visit to Kiribati, led by UKHO, 02-05 November 2015
 - Mr. Abel Philip Ronald LAGIVOLA from Fiji attended the 2015 edition of the UKHO Category "B" programme (IHO - Nippon Foundation CHART Project)
 - Tides & Water Levels Technical Workshop, led by AHS in Wollongong, Australia, 26-30 October 2015
 - MSI Regional Workshop, led by LINZ in Wellington, New Zealand, 22-24 August 2016
 - Technical visit to Niue, led by LINZ, 1-5 February 2016 (in-kind contribution from New Zealand)
 - Technical Assessment & Advice Visit to Samoa, led by LINZ, 8-12 August 2016
16. The following activities that will benefit the SWPHC are included in the 2016 and 2017 CBWP.
- Technical Assessment & Advice Visit to Tuvalu, October/November 2016
 - Technical Workshop for PICTs in Formulating and Implementing Strategic Development Plans for Hydrography, Noumea, New Caledonia, 28 November-2 December 2016
 - SW Pacific Region Industry Survey Project (2017, beneficiary country to be selected)
 - MBES training for Fiji (2017)
 - Solomon Islands Nautical Cartographer Development (2017, waiting funding allocation)
 - PNG Hydrographic Risk Assessment (2017, waiting funding allocation)
17. **Master of Science Programme in Hydrographic Surveying at the University of Southern Mississippi (USA).** A call for applications was issued in CL 51/2016 for the 2017-2018 session of the Master of Science Programme in

Hydrographic Surveying at the University of Southern Mississippi (USA) sponsored by the Republic of Korea. Hydrographic Offices are invited to invest in the preparation of candidates especially with respect to proficiency in English.

Report on the Overall Status of the IHO Work Programme

18. As a result of discussion at EIHC-5 concerning the assessment of the IHO Work Programme, Conference Decision No. 3 reinforced the reporting requirements by introducing a six-monthly reporting regime for all IHO bodies. The outcome of the first three bi-annual assessments was submitted to Member States through IHO CL 17/2015, 66/2015 and 14/2016. Only six out of 15 Regional Hydrographic Commissions (RHCs) submitted a status report (EAthC, MACHC, NIOHC, NHC, NSHC, and SAIHC).

Crowd-Sourced Bathymetry

19. In accordance with Decision 8 of the EIHC-5, IRCC7 established the Crowd-Sourced Bathymetry Working Group (CSBWG) to provide guidelines on the collection and use of crowd-sourced bathymetry. Member States and other interested parties were invited to nominate representatives to participate in the CSBWG (see IHO CL 42/2015).

20. The web-based interface portal to the IHO Data Centre for Digital Bathymetry, hosted by the USA in Boulder, Colorado, as part of its commitment to the system of World Data Centres, is being upgraded to be compatible with the crowd-sourced bathymetry concept. This will enable an IHO-led CSB infrastructure to be established and promoted in the IMO and across the wider maritime community.

IHO GIS and Databases

21. Work has continued on the development of the IHO GIS which is composed of two main parts:

- a country information database, and
- a regional information database.

22. The country information database has been progressively upgraded to include additional administrative information and facilitate the maintenance of the IHO Yearbook (IHO Publication P-5) and related lists posted on the IHO website. Countries in the SWPHC Region are invited to review their entry in the Yearbook on an annual basis and provide the IHB with the appropriate updates or report no change. The status of the data in the IHO Country Information Database concerning the SWPHC Countries is as follows:

Country	P-5 -Yearbook - Last update received
Australia	June 2016
Cook Islands	No information provided
Fiji	January 2015
France	June 2015
Kiribati	February 2014
Marshall Islands	Unknown
Micronesia	No information provided
Nauru	February 2016
New Zealand	December 2013
Niue	No information provided
Palau	February 2015
Papua New Guinea	March 2015

Country	P-5 -Yearbook - Last update received
Samoa	No information provided
Solomon Islands	April 2015
Timor Leste	September 2016
Tonga	January 2015
Tuvalu	Unknown
United Kingdom	August 2015
United States of America	August 2016
Vanuatu	March 2016

23. An Esri-based GIS solution is being implemented to develop further the regional information database. This will enable access to various layers of information through the IHO website and through cloud-based on-line GIS options. The IHO ENC Catalogue and the IHO GIS for Antarctica have been transferred to this new environment.

24. Work has continued on developing a GIS database application to support C-55 - *Status of Hydrographic Surveying and Charting Worldwide* and the work of the IHO. In response to the request to complement C-55 composite data (percentage of areas adequately surveyed / requiring re-survey / not surveyed) with CATZOC information (see IHO CL 52/2015), CATZOC data was provided by PRIMAR - on behalf of IC-ENC, PRIMAR and Canada, Singapore, Sweden and Thailand. Useful options for visualising the data in the IHB C-55 GIS are being investigated.

25. The latest information in C-55 from SWPHC Countries is as follows:

Country	C-55 - Last update received
Australia	15/05/2016
Cook Islands	14/07/2014
Fiji	16/05/2007
France	21/09/2015
Kiribati	16/05/2007
Marshall Islands	16/05/2007
Micronesia	No information provided
Nauru	16/05/2007
New Zealand	07/03/2014
Niue	07/03/2014
Palau	Limited information provided
Papua New Guinea	Unknown
Samoa	07/03/2014
Solomon Islands	30/11/2012
Timor Leste	04/05/2016
Tonga	07/03/2014
Tuvalu	16/05/2007
United Kingdom	25/01/2010

Country	C-55 - Last update received
United States of America	10/04/2012
Vanuatu	01/03/2004

26. Countries in the SWPHC Region are invited to review their entry on an annual basis and to provide the IHB with the appropriate updates or to report no change.

27. Following the development of the regional database for Antarctica, the IHB, with support provided by the Republic of Korea, initiated an “INToGIS” project in order to move S-11 part B into an interactive GIS/S-100 compliant environment. The objective of the project is to provide the Regional International Charting Coordination WGs with relevant on-line updated information and the necessary tools to review and maintain INT chart schemes and monitor the implementation of the INT chart schemes. Extending the capability to include ENC scheming and coverage is also envisaged. As announced in IHO CL 89/2015, the new INT Chart Web Catalogue and the associated INT Chart on-line Web Manager services were made available in January 2016 through the IHO website at: www.iho.int > Standards & Publications > S-11 > Part B (link). The following SWPHC countries have not yet requested an ID and password for the maintenance of the S-11 database: New Zealand, Papua New Guinea, and Tonga. Those countries are invited to do so as indicated in IHO CL 89/2015, as the IHB discontinued the maintenance of the pdf version of the S-11 Part B -*Catalogue of INT Charts* on 1 April 2016.

28. Feedback and lessons learned from the initial use of the INTToGIS services and from the implementation of the experimental procedure for the review and monitoring of INT charts decided at IRCC-7 (IHO CL 64/2015 refers) were addressed during the workshop for Regional INT Chart / ENC Coordinators that was held at the IHB on 25 April 2016, just before the second meeting of the Nautical Cartography Working Group. The INT Chart / ENC Coordinators of 14 out of 15 charting regions were present or represented. Australia was represented by the Chair of the NCWG who provided a self-assessment report for Charting Region L. A comprehensive demonstration of the INTToGIS web-based INT chart scheme management tool was provided. The workshop confirmed the need to maintain the INT chart concept for the foreseeable future, at least for small scale charts.

29. **Requested Action:** Countries in the SWPHC Region are invited to review their entry in the IHO Year Book and C-55 and to provide the IHO Secretariat with the appropriate updates or to report no change.

Crowd-Sourced Bathymetry

30. In accordance with Decision 8 of the EIHC-5, IRCC7 established the Crowd-Sourced Bathymetry Working Group (CSBWG) to provide guidelines on the collection and use of crowd-sourced bathymetry. Member States and other interested parties were invited to nominate representatives to participate in the CSBWG (see IHO CL 42/2015).

31. The web-based interface portal to the IHO Data Centre for Digital Bathymetry, hosted by the USA in Boulder, Colorado, as part of its commitment to the system of World Data Centres, is being upgraded to be compatible with the crowd-sourced bathymetry concept. This will enable an IHO-led CSB infrastructure to be established and promoted in the IMO and across the wider maritime community. It is intended to include a comprehensive presentation on the work and aspirations of the CSBWG at Assembly-1.

Preparation of the next IH Conference / IHO Assembly

32. The next IH Conference or first IHO Assembly is scheduled to take place from 24 to 28 April 2017. It is likely that the meeting will be the first session of the Assembly.

33. As indicated in IHO CCL 1 dated 21 April 2016, registration for the Assembly is available on-line via the IHO website from 1 September 2016. Because of IT security issues, the initial version of the tool will, in the first instance, be self-contained, with no connection to the IHO Country Information System (CIS). The initial registration of the identity of applicants will be validated by the IHO Secretariat. After this initial approval, legitimate applicants will be able to register for further IHO meetings without having to re-enter their details. A beta-version, developed with the support of the KHOA through the Project Officer seconded by the Republic of Korea, is being tested at present. The tool has been testing as part of registering participants for HSSC8.

34. In accordance with the new General Regulations of the IHO that entered into force on 8 November, the first Assembly will establish an IHO Council. The selection process for the establishment of the Council was initiated by the Secretary-General in October 2016. It is expected that all RHCs will have agreed before that date on the process by which they will assign Members to occupy the seat(s) in the Council allocated to them, and possibly instruct, the relevant occupant(s).

35. The agenda of the Assembly will include a review of the IHO Strategic Plan and consideration of the IHO Work Programme for the next 3-year or 5-year cycle. In accordance with IHO Resolution 12/2002 as amended the relevant documents will be prepared by the IHO Secretariat in consultation with the HSSC, the IRCC and the Member States.

IHO Outreach

World Hydrography Day

36. The theme for World Hydrography Day 2016 was “*Hydrography – the key to well-managed seas and waterways.*”

37. This theme was intended to highlight the fundamental importance of hydrography and our knowledge of the shape, nature and depth of the seafloor as a fundamental enabler of the proper, safe, sustainable and cost effective use of the world’s seas, oceans and waterways.

38. Taking into account the discussions at the GEBCO Forum for Future Ocean Floor Mapping held in Monaco in June (see IHO CL 34/2016) and the fact that the depth has not been directly measured in about 50% of the World’s coastal waters and about 90% of the oceans, the proposed theme for 2017 is:

“*Mapping our seas, oceans and waterways - more important than ever.*”

International Hydrographic Review

39. Twice a year, the IHR provides an opportunity for Member States to publicise technical and other achievements in their region. An editorial board comprising a representative from each region has been established. The representative for the SWPHC is IGA Bruno Frachon (France).

40. Papers for consideration for publication in the IHR should be forwarded directly to the editor (*ihreview@iho.int*, copy to *ian.halls1@defence.gov.au*). The deadlines are:

end of January for the May Edition

end of July for the November Edition

41. The IHB has been working with the University of New Brunswick (UNB), Canada, in a project to develop a digital repository of the complete library of the IHR. As a result, the first phase of the project now provides access to volumes from 1963 to 2015. They can be found at: <https://journals.lib.unb.ca/index.php/ihr>.

Action Requested of SWPHC Member States

Note this report

Review entries related to IHO C-55, P-5 (Yearbook) and ECDIS back up arrangements at least annually

Provide continuous updates to S-11 Part B for INT Region L through the INTtoGIS tool and implement the procedure depicted in IHO CL 64/2015 for the review and monitoring of INT charts

Report to the IHO Secretariat on the status and description of the ENC schemes in the Region


Consider appropriate arrangements to prepare for the IHO Assembly to be held in April 2017

Consider submitting papers for publication in the IH Review

Take any other actions as considered appropriate


Table Showing the Status of the Provision of Hydrographic Services in the Asia-Pacific Region

(based on information available to the IHO Secretariat)

Country	IMO Member State	 IHO Member State	APHoMSA Member	Effective MSI capability ¹	Principal Charting Authority	Is there a Formally Nominated Hydrographic Authority
Australia	✓	✓	✓	✓	AU	✓
British Overseas Territory - Pitcairn Is		✓			GB	✓
Cook Is	✓		✓	IHO MSI training most recently provided in 2014 National MSI Coordinator appointed Sept 2016.	NZ	Cook Islands Hydrographic Service (CIHS) established June 2016 ✓
Fiji	✓	✓	✓	✓	FJ/GB	✓
French Overseas Collectivities - New Caledonia. Wallis & Futuna, French Polynesia	✓ France	✓ France	✓ New Caledonia	✓	FR	✓
Kiribati	✓		✓	IHO MSI training most recently provided in 2014 No obvious capability in place as yet.	GB	No
Marshall Islands						
Micronesia			✓		US	
Nauru					GB	
New Zealand	✓	✓	✓	✓	NZ	✓
Nuie			✓	IHO MSI training most recently provided in 2014 No obvious capability in place as yet.	NZ	No
Palau	✓				US	
Papua New Guinea	✓	✓	✓	IHO MSI training most recently provided in 2016 PNG Coast Radio not yet operational	AU	✓

1 based on IHO WNWNS Sub Committee assessment

**Annex A to
SWPHC14-04.1**

Country	IMO Member State	 IHO Member State	APHoMSA Member	Effective MSI capability ¹	Principal Charting Authority	Is there a Formally Nominated Hydrographic Authority
Samoa	✓			IHO MSI training most recently provided in 2014 No obvious capability in place as yet.	NZ	No
Solomon Is	✓	application submitted	✓	IHO MSI training most recently provided in 2016 No obvious capability in place as yet.	GB (AU ²)	✓
Timor Leste	✓				(AU) ³	
Tokelau				No obvious capability in place as yet.	NZ	No
Tonga	✓	✓		IHO MSI training most recently provided in 2014. Developing and increasing the number of reports being promulgated.	NZ	✓
Tuvalu	✓		✓	No obvious capability in place.	GB	
United States Insular Areas - N. Mariana Is, Guam, American Samoa		✓		✓	US	✓
Vanuatu	✓	application submitted		IHO MSI training most recently provided in 2016 No obvious capability in place as yet.	GB	

² GB in process of transferring to AU

³ Australia publishes a number of charts pending guidance from Timor Leste on its preferred charting arrangements