

SOUTH WEST PACIFIC HYDROGRAPHIC COMMISSION

INTERNATIONAL CHARTING COORDINATION WORKING GROUP

(SWPHC ICCWG)

Report for SWPHC 19

23rd – 25th Feb 2022, VTC



Chair: Mr Robert Cario
Australian Hydrographic Office

robert.cario@defence.gov.au

Background

The SWPHC ICCWG was established in 2012 as a subsidiary of the SWPHC. It is made up of Producer Nations who publish Paper chart and ENC's in the SWPHC geographic area.

Its main responsibility is for the coordination of Nautical Charting in the region, ensuring the Paper Chart INT series is comprehensive and current and the ENC coverage is appropriate. The main focus is on paper Charts at 1:500,000 and smaller and ENC Nav Purpose 1 and 2 coverage.

The group operates as a correspondence group.

Current SWPHC ICCWG Members

Australia (chair) Robert Cario – robert.cario@defence.gov.au

France - Nicolas David - nicolas.david@shom.fr

New Zealand - Rachel Gabara - rgabara@linz.govt.nz

UK - Lee Truscott - lee.truscott@ukho.gov.uk

USA (NOAA) - Sydney Catoire - sydney.catoire@noaa.gov

USA (NGA) - Rachel Janes - rachel.r.janes@nga.mil

SWP Countries and their Charting Producer Nations

SWPHC nations

Primary Charting Authority (PCA)

SWPHC Members:

Australia	Australia
Fiji	UK
France	France
New Zealand	New Zealand
Papua New Guinea	Australia
Samoa	New Zealand
Solomon Islands	Australia
Tonga	New Zealand
UK	UK
USA	USA
Vanuatu	UK

Associate Members:

Cook Islands	New Zealand
Indonesia	Indonesia
Kiribati	UK
Nauru	UK
Niue	New Zealand
Palau	USA

SWPHC Observer:

New Caledonia	France
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Intergovernmental Observer Organization:

Secretariat of the Pacific Community (SPC)

Fed States of Micronesia	USA
Marshall Islands	USA
American Samoa	USA
Pitcairn Islands	UK
Guam	USA
French Polynesia	France
Northern Mariana Islands	USA
Tokelau	New Zealand
Tuvalu	UK
Wallis and Futuna	France

S-11 Part B, Region L updates

Updates are now managed through INTERNATIONAL Chart Web Manager

Paper INT charts produced since the last conference:

UKHO

UKHO has produced the following new editions.

Reproductions of INT charts produced by SHOM:

GB Chart Number	Title	Published
4655 (INT 655)	International Chart Series – South Pacific Ocean, Mururia to Ducie Island	25th Feb 2021
4657 (INT 657)	International Chart Series – South Pacific Ocean, Southern Cook Islands to Îles de la Société and Îles Australes	25th March 2021
4656 (INT 656)	International Chart Series – South Pacific Ocean, Îles Tuamotu to Îles Australes	15th April 2021
4653 (INT 653)	International Chart Series – South Pacific Ocean, Malden Island to Îles de la Société	15th April 2021
4636 (INT 636)	International Chart Series – South Pacific Ocean, Récifs Bampton to Île Hunter	22nd July 2021

New editions of GB INT charts:

GB Chart Number	Title	Published	ENC
4637 (INT 637)	International Chart Series – South Pacific Ocean, Vanuatu to Norfolk Island	25th Nov 2021	GB204637

SHOM

SHOM has produced the following new editions.

FR Chart Number	Title	Published	ENC
7321 (INT636)	Des Récifs Bampton à l'île Hunter	21 st April 2021	FR273210
6933 (INT6881)	De l'Île Ouen à l'Île des Pins	21 st July 2021	FR469330
7643 (INT6900)	Port de Nouméa	20 th July 2021	FR676430
7466 (INT6955)	Bora-Bora	17 th March 2021	FR574660

AHO

New editions of AUS INT charts:

GB Chart Number	Title	Published	ENC
4727 (INT 727)	International Chart Series – South Pacific Ocean, Vanuatu to Norfolk Island	4 th Mar 2021	AU160120

Nav Purpose 1 and 2 ENC produced since last conference:

LINZ

Nil

AHO

Small scale ENC project was conducted in 2021 to update all region L Overview and General usage ENC's. The following cells were updated to current specifications, updated isogonals and generalisation of coastal data.

New Editions Feb 2021 - Feb 2022	Area	Published
AU160150	Australia - South East Approaches	25/11/2021
AU130090	North West Approaches	03/06/2021
AU160090	South West Approaches	02/09/2021
AU160120	Southern Approaches	30/09/2021
AU2597P0	Approaches to Heard Island	07/01/2021
AU240100	Cuvier Plateau to Diamantina Fault Zone	04/02/2021
AU240110	Jurien Bay to Albany	18/03/2021
AU240120	Esperance to Eucla	02/09/2021
AU240130	Head of Great Australian Bight to Cape Jaffa	09/09/2021
AU240140	Cape Martin to Cape Howe	02/12/2021
AU250130	Southern Ocean	19/08/2021
AU250140	Tasmania to South Tasman Rise	09/09/2021
AU250150	East Tasman Plateau	18/11/2021
AU240150	Bermagui to Coffs Harbour	18/11/2021
AU210100	Java Ridge (West)	13/05/2021
AU210110	Java Ridge (East)	13/05/2021
AU220110	Glomar Shoal to Lombok Basin	27/05/2021
AU230110	Port Hedland to Geraldton	24/06/2021
AU230100	Indian Ocean (South)	27/05/2021
AU220100	Indian Ocean (North)	13/05/2021

UKHO

New Cells Feb 2021 - Jan 2022	Area	Week No.
GB600991	Pitcairn – Bounty Bay	51_21
GB6H0002	Vanuatu – Port Villa, Pontoon Bay	44_21

INT Charts and Nav Purpose 1 & 2 ENC underway:

SHOM

On French waters around New Caledonia, SHOM is producing a chain at scale 1:300000. FR6686 (INT6843) Nouvelle-Calédonie (partie Sud-Est) - Iles Loyauté and FR6768 (INT6844) - Nouvelle-Calédonie (partie Sud) - Ile des Pins - expected to be published in 2022 and 2023.

SHOM plan to produce :

- new FR272680 (based on paper chart FR7268) and reduce FR273210;
- new FR272460 (based on paper chart FR7246) to expand ENC coverage in its EEZ.

AHO

AHO to update remaining Overview ENC's - AU130120 and AU130150 and corresponding AU2 cells. AHO currently undergoing New Editions of AUS4708 and 4714 with limits amended to cover proposed withdrawn charts.

The intention is that, for most areas, coverage will remain available at 1:3,500,000 only with One 10 Million and one 1.5 Million chart likely to remain from within the existing portfolio.

The INT chart withdrawal program is scheduled for completion by end of 2022.

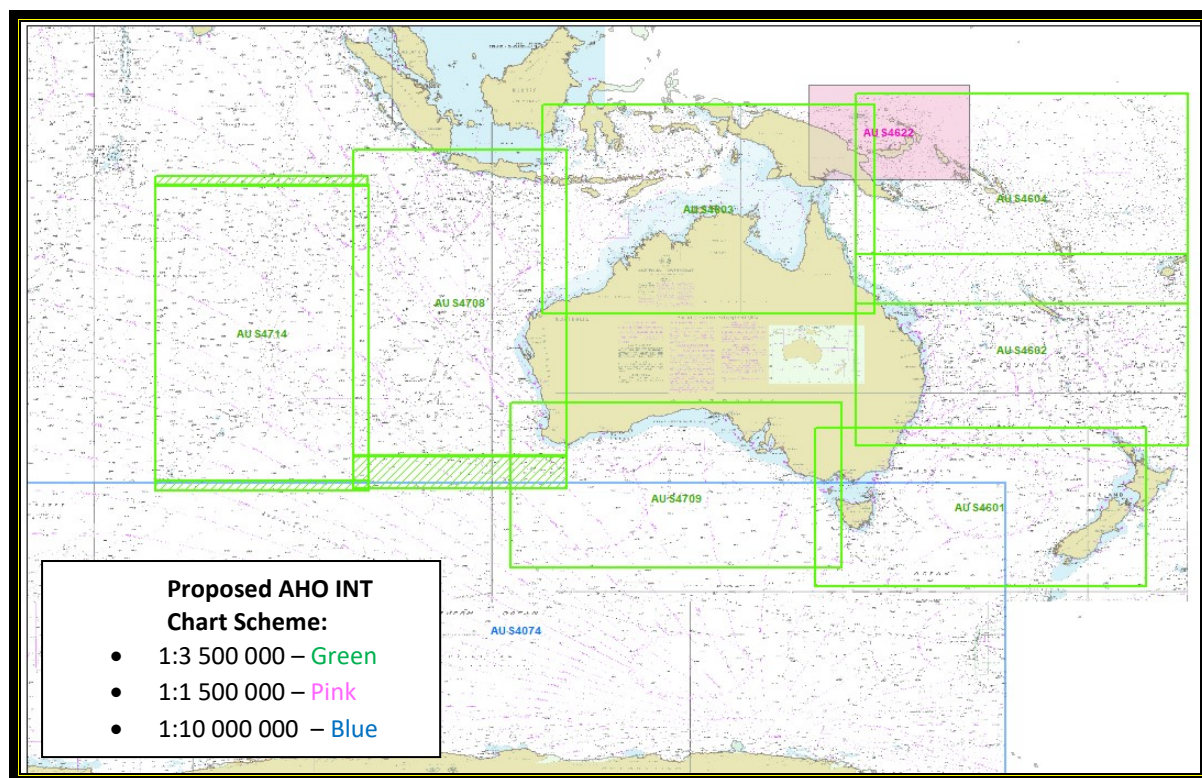


Figure 1: Proposed AUS INT paper chart reschemed.

Proposals for New INT Charts

LINZ

LINZ has now withdrawn NZ14630 (INT630) in April 2021 on publication of new chart NU131 <https://www.linz.govt.nz/sea/charts/paper-charts/nu131>.

AHO

Nil

NOAA/NGA

Paper INT Chart Update:

NOAA is undertaking a five-year program to end all raster and paper nautical chart production. Ultimately, production of all NOAA paper nautical charts (including paper INT charts), raster navigational charts (NOAA RNC®), and related products will cease.

The following large scale raster charts in the Southwest Pacific are in their last edition and will be cancelled on May 4, 2022:

RNC	Title	Scale
81063	Commonwealth of the North Mariana Islands Rota	1:25,000
81086	Plans in the Mariana Islands; Faraloon de Pajaros; Sarigan Island; Farallon de Medinilla; Ascuncion Island; Agrihan; Agrihan Anchorage; Alamagan Island; Guguan; Anatahan	1:72,962
81092	Commonwealth of the Northern Mariana Islands	1:26,420
83157	Palmyra Atoll; Approaches to Palmyra Atoll	1:10,000
83153	United States Possession Kingman Reef	1:25,000

For a list of latest editions and pending chart cancellations, visit:

<https://www.charts.noaa.gov/MCD/Dole.shtml>

Nav Purpose 1 and 2 ENC Updates:

NOAA's Office of Coast Survey is in the process of rescheming its ENC suite. Current ENC boundaries are based on the paper nautical chart extents but will transition to a rectangular grid following latitude and longitude lines. Additionally, reschemed ENCs will have a standardized size with two scales per usage band. The table below pertains to Nav Purpose 2 reschemed ENCs.

Usage Band	Navigational Purpose	Cell Height (decimal degrees)	Cell Width (decimal degrees)	Reschemed NOAA ENC Scale
2	General	4.8°	4.8°	1: 1,280,000
				1: 640,000

The figure below represents the current NOAA and NGA ENC boundaries (red) and future NOAA reschemed ENCs (blue) for Nav Purpose 2 in Region L. Additionally, NGA is in the process of creating a separate ENC grid for use in building its future ENC portfolio. NOAA plans to coordinate with other Hydrographic Offices and use a CATCOV solution to prevent ENC overlap.

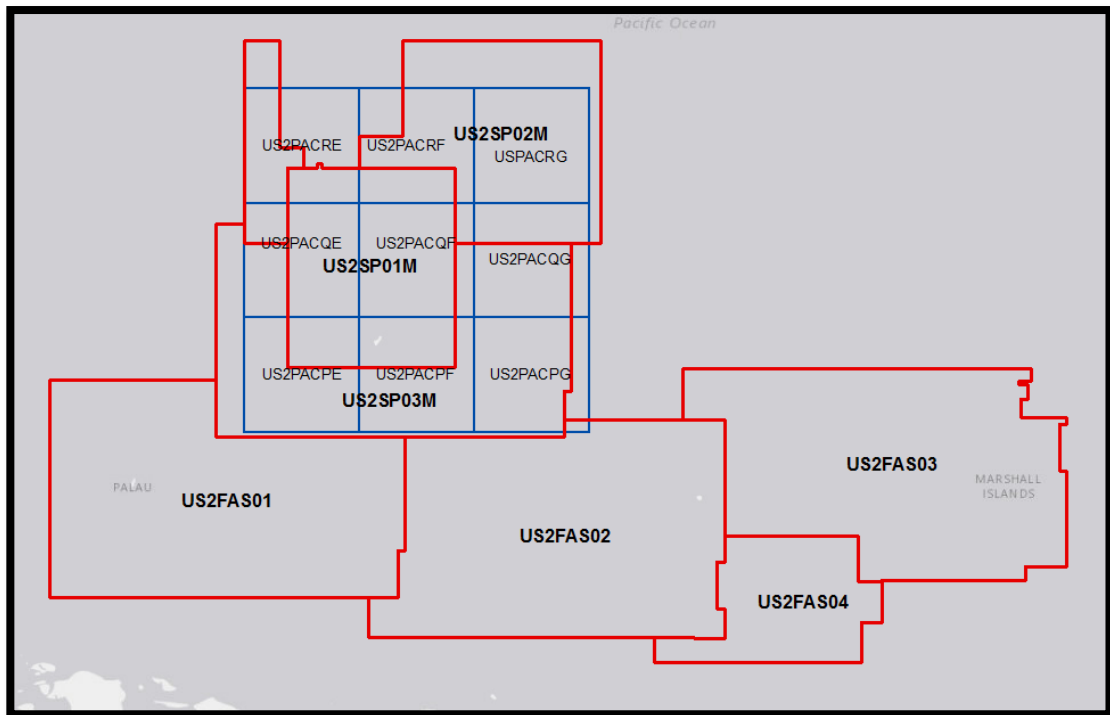


Figure 2: US current ENCs (outlined in red) with planned Nav Purpose 2 reschemed ENCs (outlined in blue).

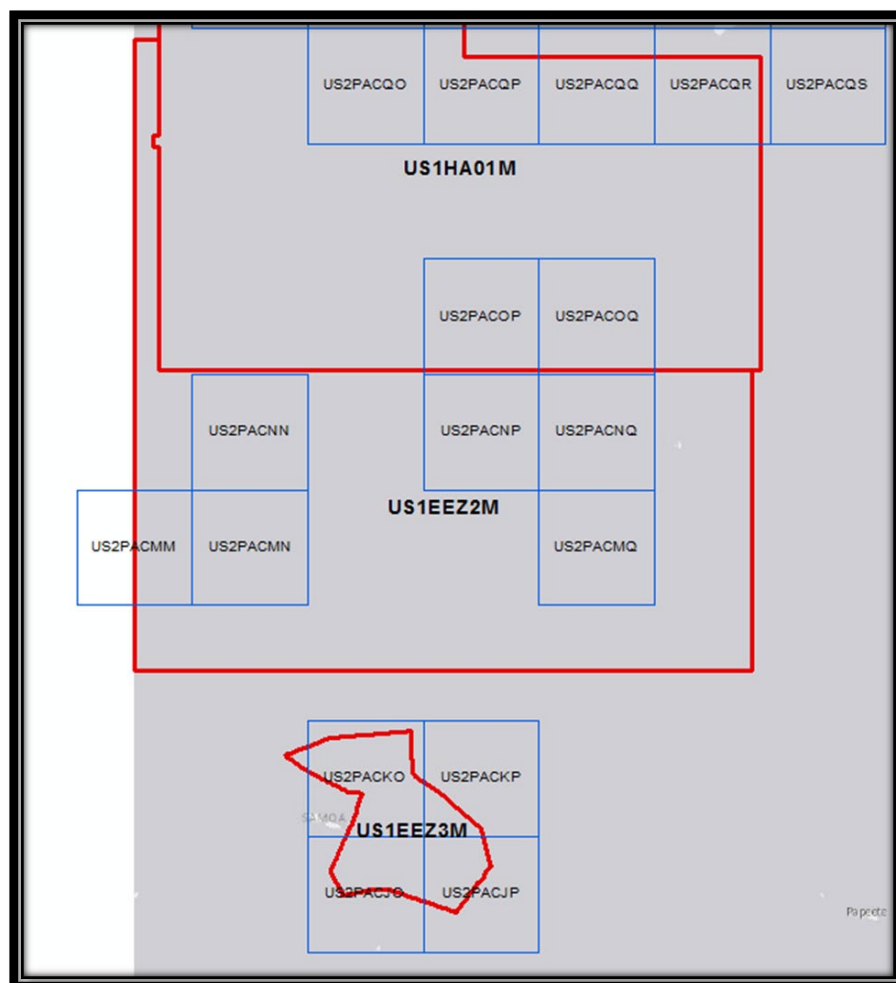
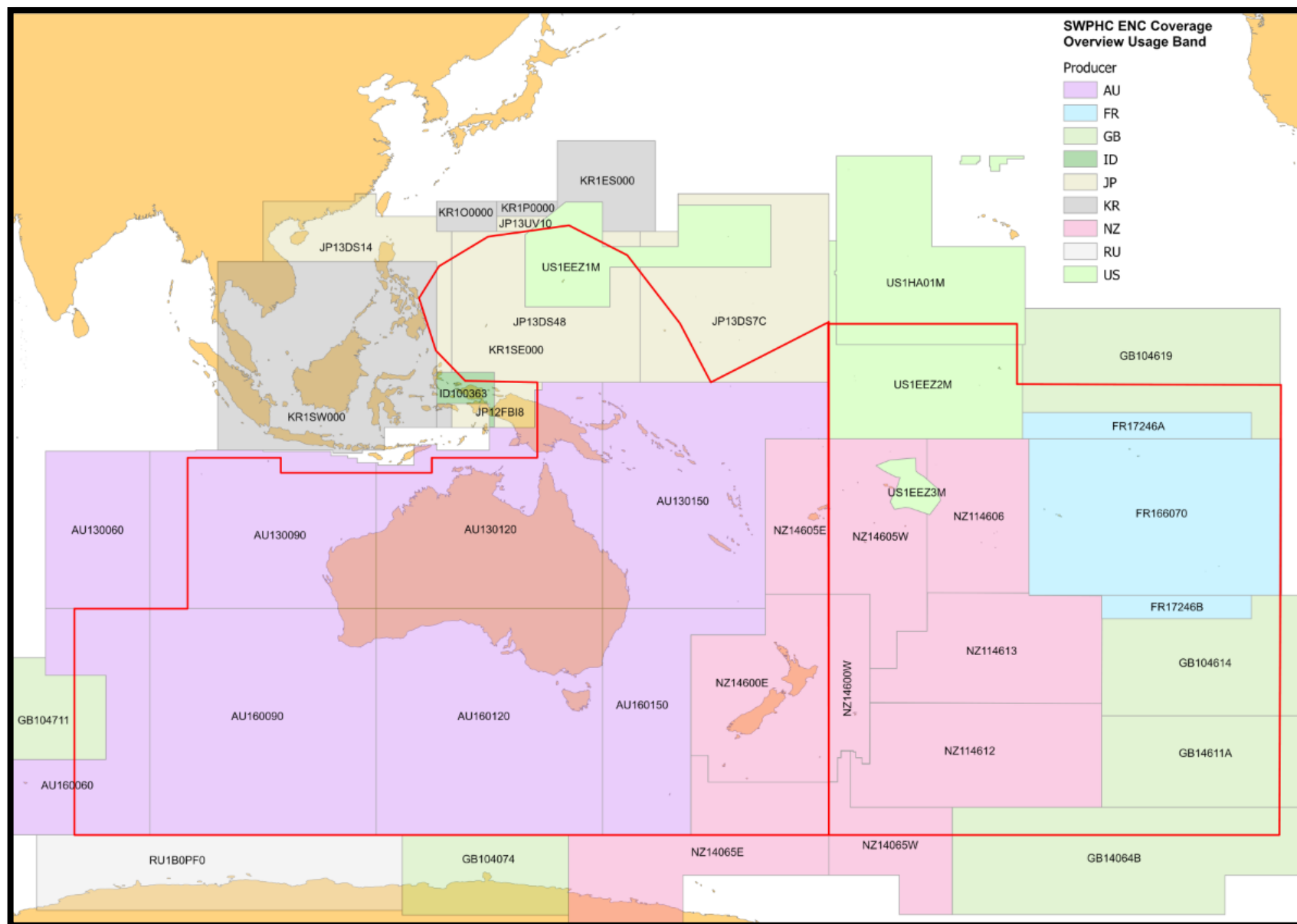
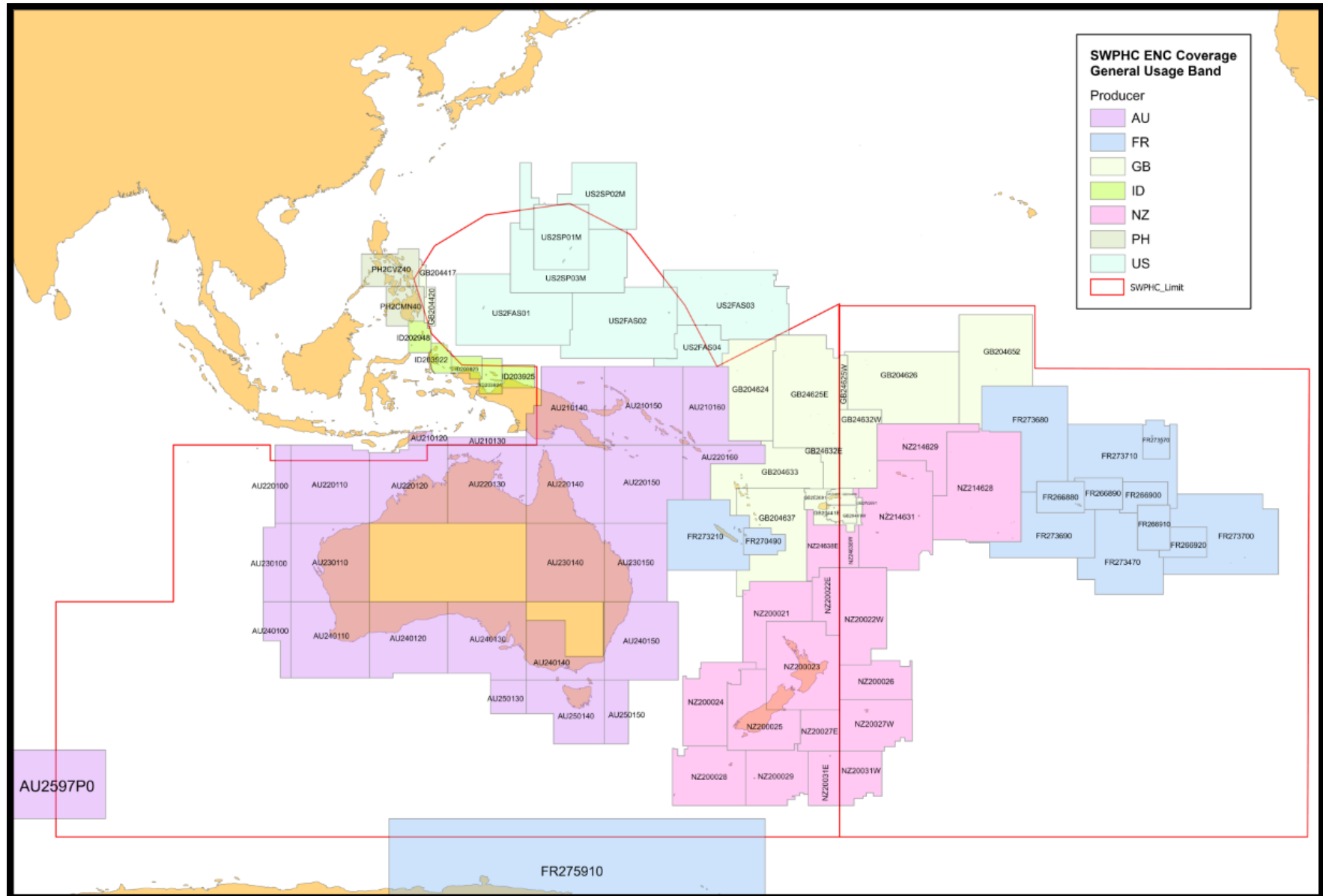


Figure 3: US current ENCs (outlined in red) with planned Nav Purpose 2 reschemed ENCs (outlined in blue).

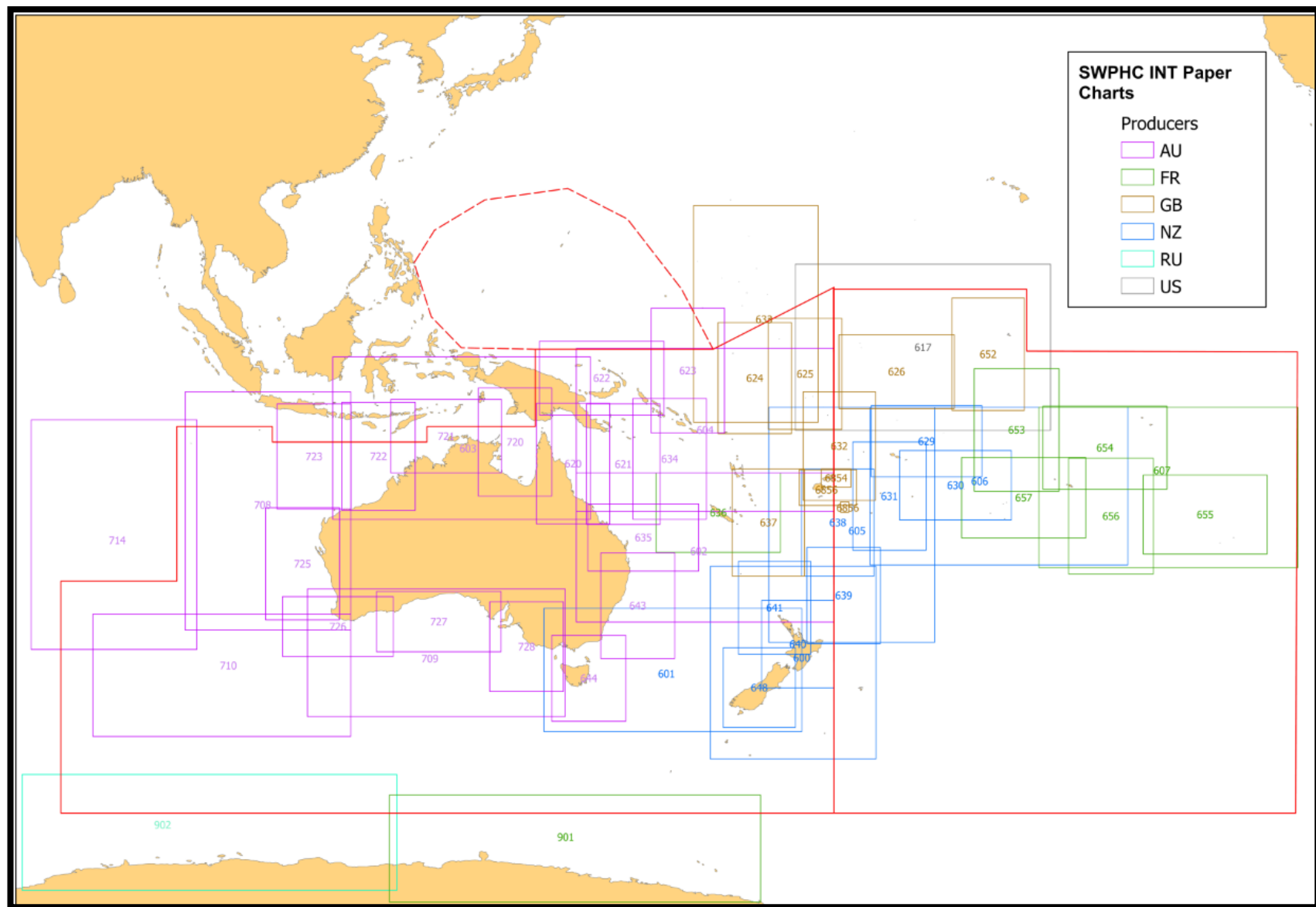
Current ENC – Nav Purpose 1 - Overview



Current ENC – Nav Purpose 2 - General



Current INT Paper charts in SWPHC



Overlaps of Navigation Purpose 1 and 2 ENC cells in SWP

- The following is an extract from a report received from IC-ENC regarding overlaps of ENC in the SWP. Further details can be provided by contacting the ICCWG Chair.

IC-ENC REGIONAL HYDROGRAPHIC COMMISSION OVERLAP REPORT - SOUTH WEST PACIFIC RHC - FEBRUARY 2022																		
ID	STATUS	RENC Membership	RHC	ENC 1	ENC 2	Usage Band	ENC 1 Scale	ENC 2 Scale	Overlap extent (Kmxkm) (m/square NM)	Content difference	Geog. Location	Shipping density	Size	Scale	Route patterns	ECDIS	Overall Severity of Risk	Justification
126	LIVE	IC-ENC	SWPHC/HCA	RU1B0PF0	AU160060	1	3000000	3500000	840Km x 558Km 135600 sq. NM	LOW	LOW	LOW	LOW	LOW	LOW	MEDIUM	LOW	Overlap is located in the Antarctica, it charts very deep waters. There is a 119m shoal depth which is captured on AU160000 which is not captured on RU1B0PF0. Little traffic as expected.
127	LIVE	IC-ENC	SWPHC/HCA	RU1B0PF0	AU160090	1	3000000	3500000	560Km x 1700Km	LOW	LOW	LOW	LOW	LOW	LOW	MEDIUM	LOW	Overlap is located in the Antarctica, it charts very deep waters. Little traffic as expected.
128	LIVE	IC-ENC	SWPHC/HCA	RU1B0PF0	AU160120	1	3000000	3500000	560Km x 195Km	LOW	LOW	LOW	LOW	LOW	LOW	MEDIUM	LOW	Overlap is located in the Antarctica, it charts very deep waters. Little traffic as expected.

SWPHC18 Actions

Nil

Engagement with Non Producer Nations in SWP

Within the South West Pacific, the Producer Nations of New Zealand, UK, France and Australia have reported good working relationships with the Hydrographic Offices / National Maritime jurisdictions and/or Governments of the countries they chart.

Adherence to WEND principles

ENCs are distributed worldwide via the following mechanisms:

Producer nation	Mechanism
France	PRIMAR RENC
Australia	IC-ENC RENC
New Zealand	IC-ENC RENC
UK	IC-ENC RENC
US	IC-ENC RENC

Recommendations for discussion at SWPHC 19

1. Members of the SWPHC note this report.