



SOUTH WEST PACIFIC HYDROGRAPHIC COMMISSION

INTERNATIONAL CHARTING COORDINATION WORKING GROUP (SWPHC ICCWG)

Report for SWPHC 18
17th – 19th Feb 2021, VTC



Chair: Mr Robert Cario
Australian Hydrographic Office

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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

Nav Purpose 1 and 2 ENC produced since last conference:

The US National Geospatial-Intelligence Agency (US NGA) and US National Oceanic and Atmospheric Administration (US NOAA) took responsibility for six UK Hydrographic Office (UKHO) ENC's. The UKHO provided the unencrypted GB ENC's to the US for internal reference purposes to enable production of replacement products in the region. The six US ENC's were released as a set and UKHO simultaneously cancelled their ENC's in October 2020.

Table below represents the following cells transferred:

Previous ENC Name	Current ENC Name	Scale	Ownership
GB203552	US2SP02M	1:1,500,000	US NOAA
GB200764	US2SP03M	1:1,500,000	US NOAA
GB200763	US2FAS01	1:1,500,000	US NGA
GB200762	US2FAS02	1:1,500,000	US NGA
GB200761	US2FAS03	1:1,500,000	US NGA
GB204623	US2FAS03	1:1,500,000	US NGA

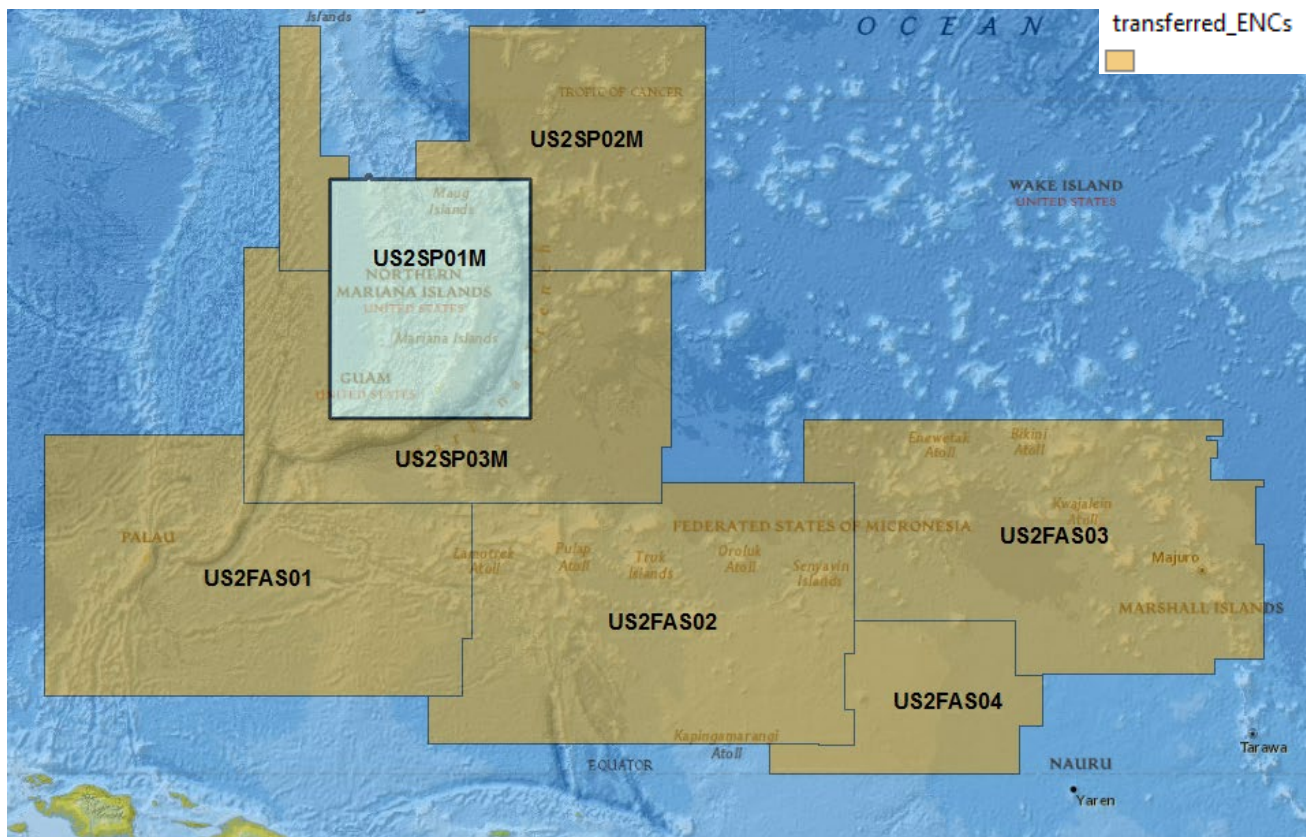


Figure 1: UKHO Nav Purpose 2 ENC's transferred to US NGA/NOAA

INT Charts and 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 2021 and 2022.

Shom plan to produce new FR272680 (based on paper chart FR7268) and reduce FR273210.

AHO

Small scale ENC project is currently underway to update all region L Overview and General usage ENC's - AU130060, AU130090, AU130120, AU130150, AU160060, AU160090, AU160120 and AU160150 and corresponding AU2 cells are being updated to current specifications, updated isogonals and generalisation of coastal data.

Proposals for New INT Charts

LINZ

LINZ are still waiting to make a decision about withdrawing paper chart NZ 14630 (INT 630) as withdrawing this chart in contingent on some other factors.

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.

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. Table below pertains to Nav Purpose 1 and Nav Purpose 2 reschemed ENCs.

Usage Band	Navigational Purpose	Cell Height (decimal degrees)	Cell Width (decimal degrees)	Reschemed NOAA ENC Scale
1	Overview	19.2°	19.2°	1: 5,120,000
				1: 2,560,000
2	General	4.8°	4.8°	1: 1,280,000
				1: 640,000

The figures below represent the current NOAA and NGA ENC boundaries (red) and future NOAA reschemed ENCs (blue) for Nav Purpose 2 in Region L. The Nav Purpose 1 NOAA

reschemed ENC plan has not been created. 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.

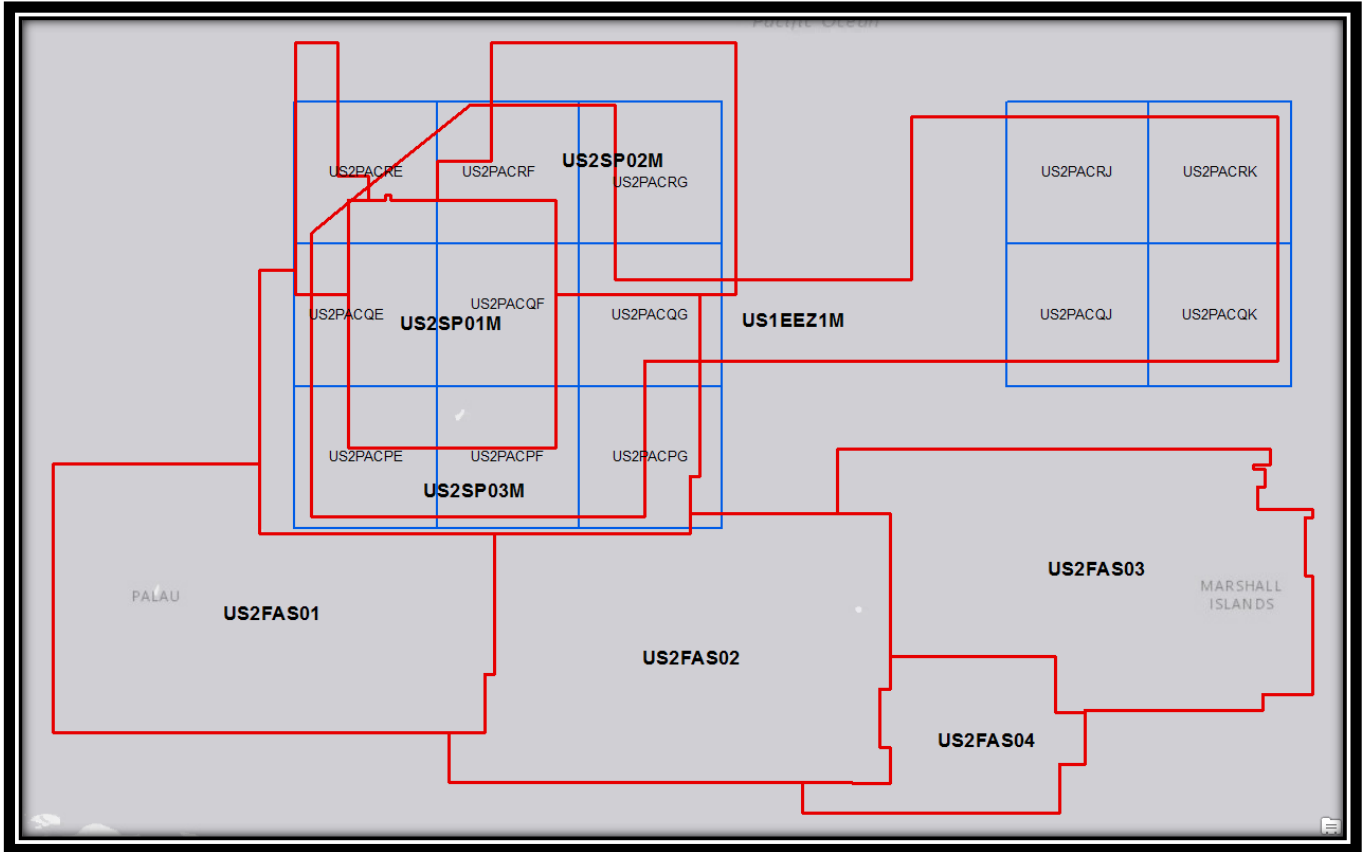


Figure 2: US current ENCs (outlined in red) with planned Nav Purpose 2 reschemed ENCs (outlined in blue).

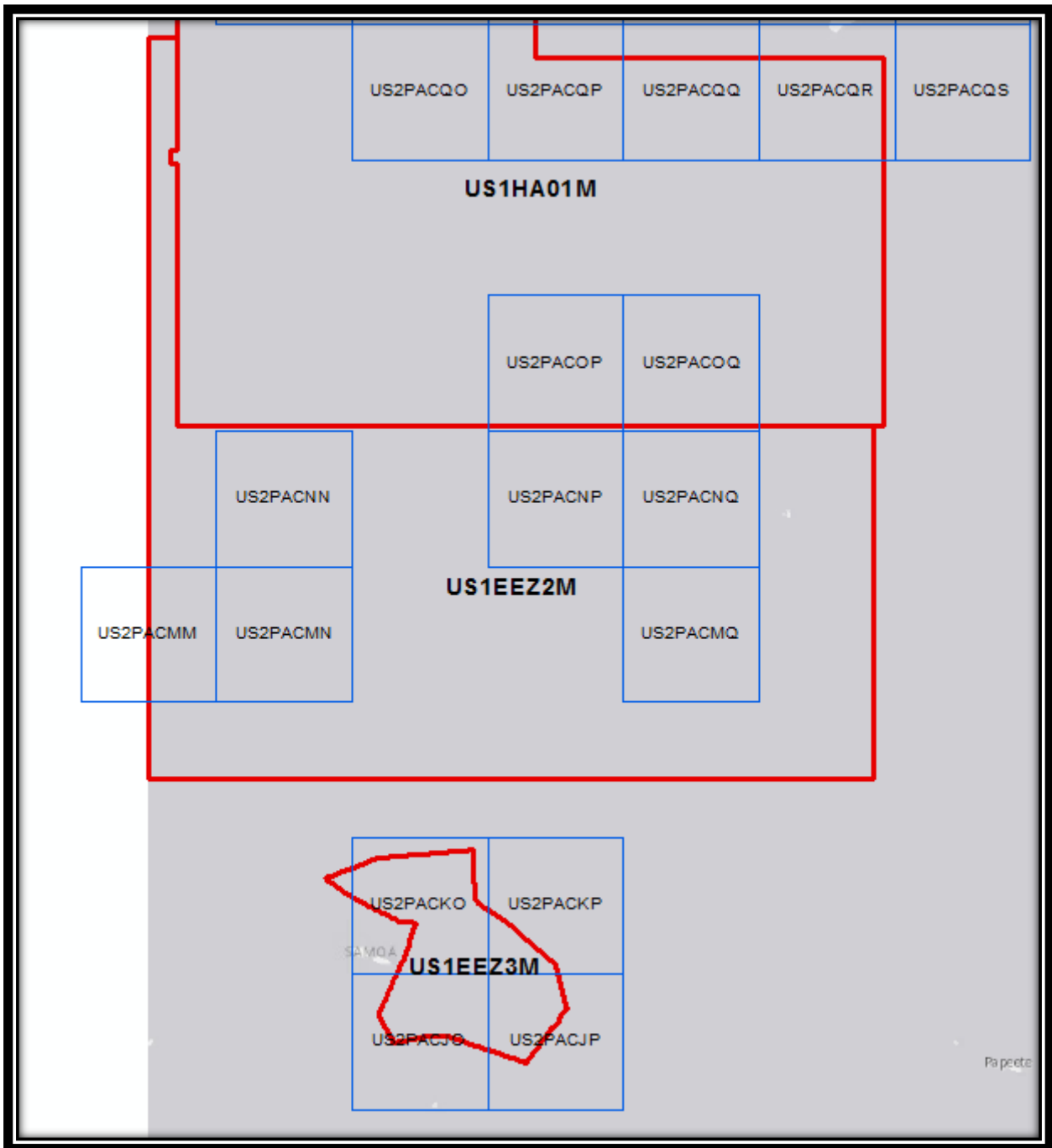


Figure 3: US current ENC (outlined in red) with planned Nav Purpose 2 rescheduled ENC (outlined in blue)

AHO

A review is currently underway regarding future requirements for INT paper nautical charts. A number of INT charts have been identified as suitable for withdrawal without replacement. The intention is that, for most areas, coverage will remain available at 1:3.5M only. One 1:10M and one 1:1.5M chart are likely to remain from within the existing portfolio. The intention is that remaining INT paper charts will be the minimum necessary to:

- i. Facilitate route planning and monitoring in areas not fully covered by the coastal series (e.g. offshore reefs, neighbouring countries and Antarctica).
- ii. Display maritime claims (EEZ and Continental Shelf limits).

The INT chart withdrawal program is scheduled for completion by end of 2021.

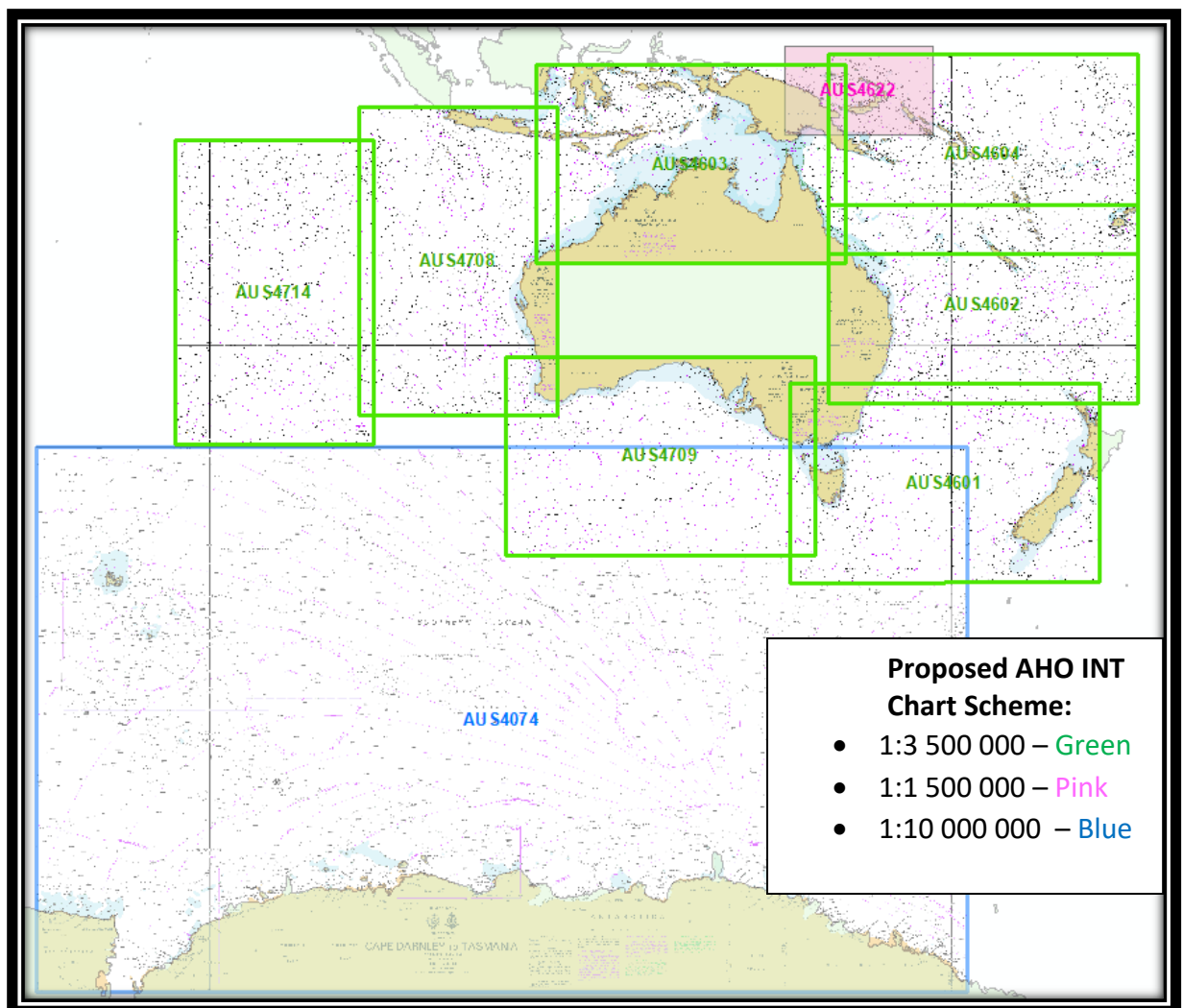
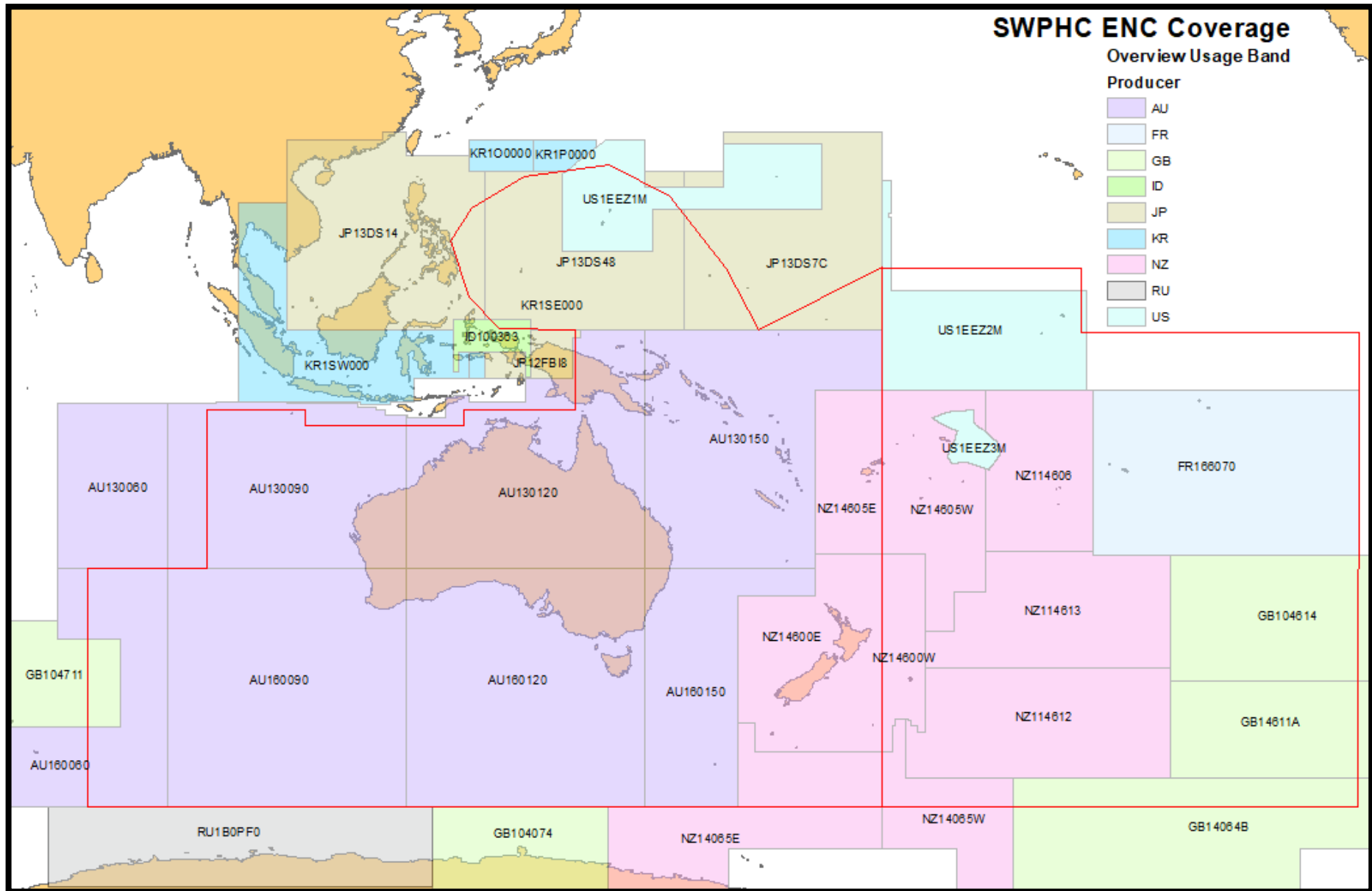
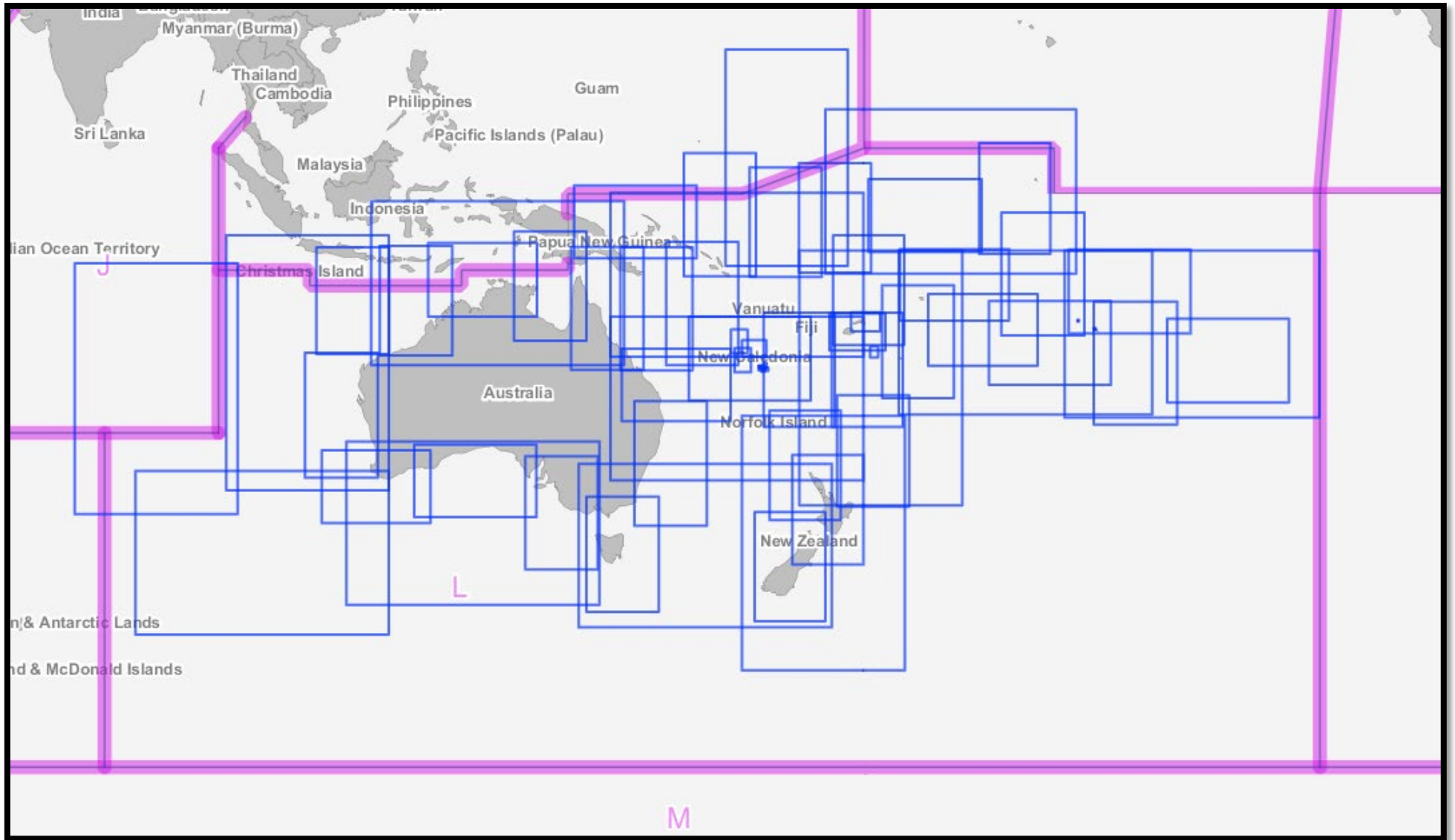


Figure 4: Proposed AUS INT paper chart reschemed.

Current ENC – Nav Purpose 1 - Overview



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 2021																			
STATUS	RENC Membership	RHC	ENC 1	ENC 2	Usage Band	ENC 1 Scale	ENC 2 Scale	ENC 1 Version	ENC 2 Version	Overlap extent (Km x km) (m/square NM)	Content difference	Geog. Location	Shipping density	Size	Scale	Route patterns	ECDIS	Overall Severity of Risk	Justification
LIVE	IC-ENC	SWPHC/HCA	RU1B0PF0	AU160060	1	3000000	3500000	1 (0)	4 (0)	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.
LIVE	IC-ENC	SWPHC/HCA	RU1B0PF0	AU160090	1	3000000	3500000	1 (0)	3 (1)	560Km x 1700Km 273008 sq. NM	LOW	LOW	LOW	LOW	LOW	LOW	MEDIUM	LOW	Overlap is located in the Antarctica, it charts very deep waters. Little traffic as expected.
LIVE	IC-ENC	SWPHC/HCA	RU1B0PF0	AU160120	1	3000000	3500000	1 (0)	3 (4)	560Km x 195Km 31605 sq. NM	LOW	LOW	LOW	LOW	LOW	LOW	MEDIUM	LOW	Overlap is located in the Antarctica, it charts very deep waters. Little traffic as expected.

SWPHC17 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.

Australia attends the annual Papua New Guinea National Maritime Safety Authority (PNG NMSA) planning meeting to discuss with PNG NMSA and Port and Shipping Company representatives their charting requirements and priorities. Australia has initiated a similar arrangement with Solomon Islands to discuss Charting priorities and survey requirements on an annual basis and attended meetings with SIMA in September 2019 however due to COVID 19 restrictions no meeting took place in 2020.

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 18

1. Members of the SWPHC note this report.