

NEW ZEALAND NATIONAL REPORT

TO THE

11TH SOUTH WEST PACIFIC
HYDROGRAPHIC COMMISSION (SWPHC)
MEETING

Brisbane, AUSTRALIA

15TH – 16TH February 2012

1. Land Information New Zealand (LINZ)

1.1 The National Hydrographer (Adam Greenland) and Manager Hydrography (Andrea McDonald) lead the New Zealand Hydrographic Authority in partnership. Both positions report to the General Manager Customer Services (Jan Pierce).

2. Hydrographic Surveys

2.1 There have been no recent LINZ hydrographic surveys in the Pacific Island Countries (PICs).

2.2 LINZ works with all key stakeholders including New Zealand Defence Force (NZDF), Maritime New Zealand (MNZ) and Ministry of Foreign Affairs & Trade (MFAT) to determine the priorities for the NZ Prioritised National Survey Plan

2.3 Recent New Zealand surveys:

Survey Number	Area	Completed
HYD-0512-HS17	South Island, East Coast - Shipping Lane 6	Ongoing
HYD-2010/11-01	Chatham Islands	Dec 2011
HYD-2010/11-02	North Island, East Coast - Mercury Bay	June 2011
HYD-2010/11-03	North Island, East Coast – Poor Knights Islands	June 2011

3. Nautical Charts and Publications

3.1 Detailed information of the full NZ chart portfolio can be found on the LINZ website at <http://www.linz.govt.nz/hydro/charts/index.aspx>

3.2 19 Paper Charts Published since the 2010 10th SWPHC Meeting:

New Zealand – 19 paper charts			
Chart No.	Title	Scale	Published
NZ 443	Approaches to Port Taranaki	150K	5/2010
NZ 521	Cape Brett to Bream Tail	100K	10/2010
NZ 5223	Great Barrier Island (Northwestern Part)	25K	10/2010
NZ 5224	Great Barrier Island (Southern Part)	25K	10/2010
NZ 463	Approaches to Wellington	100K	3/2011
NZ 615	Marlborough Sounds	100K	3/2011
NZ 5214	Marsden Point	18K	3/2011
NZ 5215	Whangarei Harbour	18K	3/2011
NZ 5221	Cradock Channel and Mokohinau Islands	50K	3/2011
NZ 5222	Great Barrier Island (Aotea Island)	50K	3/2011
NZ 6825	Paterson Inlet (Whaka A Te Wera)	40K	3/2011
	Horseshoe Bay to Ulva Island	15K	
	Continuation West to Prices Inlet	15K	
NZ 6153	Queen Charlotte Sound	36K	3/2011
NZ 6154	Tory Channel Entrance	11K	3/2011
	Picton Harbour	10K	
	Picton Wharves	3K	
NZ 522	Bream Head to Kawau Island including Great Barrier Island (Aotea Island)	100K	4/2011
NZ 531	Great Barrier Island (Aotea Island) to Mercury Bay	100K	4/2011
NZ 5612	Napier Roads	25K	4/2011
	Napier Harbour	7.5K	
NZ 4315	Approaches to Onehunga	18K	8/2011
	Onehunga Wharf	2.5K	
NZ 6151	Plans in the Marlborough Sounds		9/2011
	Forsyth and Guards Bay	30K	

	Approaches to Te Aumiti (French Pass)	35K	
	Te Aumiti (French Pass)	10K	
	Port Gore	30K	
	Stephens Passage	30K	

3.3 Paper charts scheduled for publication in the next six months include:

New Zealand	
Chart No.	Title
NZ 53	Bream Head to Slipper Island including Hauraki Gulf
NZ 532	Approaches to Auckland
NZ 4314	Manukau Harbour
NZ 5113	Rangaunu Bay and Awanui River Approaches
NZ 5216	Poor Knights Islands
NZ 5219	Approaches to Marsden Point
NZ 5314	Mercury Bay (North)
NZ 5315	Mercury Bay (South)
NZ 5322	Auckland Harbour East
NZ 5323	Auckland Harbour West

3.4 RNC

NZ*Mariner* is the product name of New Zealand's Official RNC folio, and is available for download at no charge from the LINZ website at <http://www.linz.govt.nz/hydro/charts/digital-charts/nzmariner/index.aspx>

LINZ publishes NZ*Mariner* annually plus a monthly cumulative update file of corrections published in Notices to Mariners

3.5 ENCs

To date LINZ has published 114 official NZ ENCs.

Detailed information of the full NZ ENC folio can be found on the LINZ website at <http://www.linz.govt.nz/hydro/charts/digital-charts/encs/index.aspx> and in the ENC Coverage Catalogue available on the IHO website www.iho.int.

LINZ is a member of IC-ENC and distributes all NZ ENCs through the Australian Regional ENC Co-ordination Centre (AusRENC).

3.6 ENCs scheduled for publication in the next six months include:

New Zealand	
North Island Coastal Series x 6 – NZ512, NZ521, NZ522, NZ531, NZ533, NZ534	
South West Pacific	
1.5M x 5 - NZ 14638 (INT 638), NZ 14631 (INT 631), NZ 14629 (INT 629), NZ 93, NZ 21 (INT 641)	
3.5M x 5 - NZ 14613, NZ 14612, NZ 14606 (INT 606), NZ 14605 (INT 605), NZ 14600 (INT 600)	

3.7 Publications

The NZ publications are available in whole or part to download from the LINZ website at: <http://www.linz.govt.nz/hydro/nautical-info/index.aspx>

Publication	Title	Published:	Edition
NZ 202	New Zealand Chart Catalogue	Electronic copy only	Ed 15
NZ 204	New Zealand Nautical Almanac	June 2011	2011/12

4. Maritime Safety Information (MSI) – See Attachment 1

4.1 LINZ is the NAVAREA XIV Co-ordinator navareaxiv@linz.govt.nz

Year	Number of XIV message
2010	52
2011	125*
2012 to date	16

Maritime New Zealand (MNZ) is the National Coordinator for New Zealand

Year	Number of CNW message
2010	88
2011	251*
2012 to date	37

* The increase in messages is attributed to changes in broadcast procedures.

The National Coordinators in the NAVAREA XIV area for the assessment, coordination and broadcast of MSI are Maritime New Zealand (MNZ), French Polynesia, Fiji, Kingdom of Tonga, Western Samoa, Cook Islands, New Caledonia, and Wallis & Futuna Is.

5. C-55 Status of Hydrographic Surveying & Nautical Charting Worldwide – NZ Update

5.1 The most recent updates to C-55 for NZ areas is August 2011.

6. Capacity Building

6.1 LINZ fully supports the IHO CBSC prime objectives and where possible, will assist, to develop future CB programmes within the region.

6.2 Cook Islands Technical Visit – 21-25 February 2011

Commodore Rod Nairn, Hydrographer of Australia, Royal Australian Navy, and Adam Greenland, National Hydrographer, LINZ, the New Zealand Hydrographic Authority, undertook a technical assessment visit to the Cook Islands on behalf of the IHO. The visit was funded from the IHO Capacity Building Fund. Coincidentally, the visit coincided with a visit from a representative of Maritime NZ who had come to discuss potential Cook Island maritime infrastructure aid projects.

6.3 SOPAC

6.3.1 Rarotonga, Cook Islands – pre-construction survey of tender landing sites

In February 2011 SOPAC undertook pre-construction surveys at cruise tender landing sites in Rarotonga. To ensure the surveys met IHO standards, LINZ provided a detailed survey specification to the Cook Islands Ports Authority and advised them to engage the services of a Surveyor-in-Charge. Discovery Marine Limited provided this service, producing a Report of Survey for LINZ. The report

provided constructive feedback for SOPAC to develop their hydrographic survey capability for their ongoing work in the region.

6.3.2 Mangaia, Cook Islands – tide gauge technical assistance

Technical assistance provided for the installation of a tide gauge on Mangaia, to be used for an assessment of coastal wave hazards; to select a suitable tide gauge, install, calibrate and connect the gauge to a datum; and deliver sea level data in the correct format for processing by LINZ.

6.3.3 Technical advice on positioning system and equipment – Fugro SeaSTAR

Technical advice requested regarding the purchase of GNSS receiver and use of the SeaSTAR differential correction service.

6.3.4 Tongatapu, Tonga – provision of LINZ survey data in 2010

Processed survey data from the LINZ 2008 Tongatapu multi-beam survey provided.

7. Oceanographic Activities

7.1 GEBCO

LINZ is responsible for distribution of bathymetric data within NZ area of charting responsibility to GEBCO.

7.2 Sea Level Data

LINZ maintains a network of sea level monitoring sites at 18 locations around New Zealand and Antarctica. The primary purpose of the network is to upgrade and improve New Zealand's response to tsunami hazards.

Sea level data (tide gauge readings) for each of the 18 sites is available for download at <http://www.linz.govt.nz/hydro/tidal-info/gauges/sea-level-data-downloads/index.aspx>

LINZ also holds sea level data from other sources. This data is retained by LINZ and can be made available on request subject to the approval of the supplier of the data.

8. Other Activities

8.1 South West Pacific Regional Hydrography Programme

LINZ, MFAT NZ Aid Programme and Maritime New Zealand (MNZ) are working in partnership on a 2 year programme of work; the South West Pacific Regional Hydrography Programme. The goal is to achieve accurate and adequate charting coverage in the South West Pacific.

The work consists of two projects; accelerated NZ ENC production and a strategic hydrography risk assessment for the South West Pacific. The risk assessment work will be conducted in collaboration with Pacific Island countries and hydrographic offices in the region.

The outputs include a complete set of ENCs for the NZ area of charting coverage and an enduring Hydrography Risk Assessment Framework established for the South West Pacific maritime infrastructure that comprises: a regional risk assessment; an economic impact assessment; and an implementation plan and funding mechanism agreed by donors/key stakeholders.

8.2 LINZ Data Service

The LINZ Data Service (<http://data.linz.govt.nz>), launched in July 2011 has significantly changed the way LINZ topographic, hydrographic, survey, titles and geodetic datasets are accessed and used. Hydrographic information is available for download in shapefile format.

8.3 Partnership and Cooperation

In August 2011 LINZ and AHS met with Carnival Australia to discuss concerns for safety of navigation in Vanuatu, with regards to survey and chart coverage. As one of the larger cruise operators in the region, Carnival Australia has expressed concerns to New Zealand and Australia, about inaccurate navigational charts in the region. Such a low level of confidence in navigational charts represents an operational barrier to the expansion of the cruise industry in the Pacific region, with consequential economic implications regarding development.

9. Conclusion

NZ is committed to hydrography in the SWP region through the ongoing work of the SWPHC.

LINZ contact details

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