

NEW ZEALAND NATIONAL REPORT

TO THE

10th HYDROGRAPHIC COMMITTEE ON
ANTARCTICA (HCA)

Cambridge, UNITED KINGDOM

20th – 22nd September 2010

1. Land Information New Zealand (LINZ)

1.1 Changes in LINZ

In April 2010 the Specialist Processing and Data Management (SPDM) Team (which included Hydrographic Services) was restructured. SPDM has been replaced with three distinct teams – Topography, Geodesy and Hydrography.

The National Hydrographer (Adam Greenland) and Manager Hydrography (Nicole Botherway) 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 new hydrographic surveys performed by LINZ in Antarctica.

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.

2.2 Recent Surveys

LINZ		
Survey Number	Area	Completed
HYD0001-HS4	Cape Adare, Cape Hallett, Possession Islands & Balleny Islands	2001
HYD 03/04-HS4	Cape Adare to Cape Hallett	2004
Other		
CSP2005-MS10-ANT	Scott Island and Balleny Islands	2006
OS2020-BS	IPY-CAML Ross Sea Biodiversity Survey	2008

3. Nautical Charts and Publications

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

3.2 Charts Published:

New Zealand – Ross Dependency			
Chart No.	Title	Scale	Published
NZ 14065 (INT 65)	Ross Sea to New Zealand	1:10M	10/1994
NZ 14900 (INT 900)	Ross Sea	1:2M	4/1998
NZ 14901 (INT 9001)	Cape Royds to Pram Point	1:60K	7/2007
NZ 14902 (INT 9002)	McMurdo Station and Scott Base	1:5K	7/2007
NZ 14903 (INT 9003)	Approaches to Scott Island: Scott Island	1:75K	8/2008
	Scott Island	1:25K	
NZ 14906 (INT 9006)	Cape Adare	1:50K	8/2006
	Cape Hallett	1:50K	
	Ridley Beach	1:15K	
	SeeBee Hook	1:15K	
NZ 14907 (INT 9007)	Possession Islands	1:60K	8/2006
NZ 14908 (INT 9008)	Cape Adare to Cape Daniell	1:200K	8/2006
NZ 14909 (INT 9009)	Cape Hooker to Coulman Island	1:500K	6/2004
NZ 14912 (INT 9012)	Balleny Islands	1:300K	8/2006
	Balleny Seamount	1:300K	

There are no updates to these charts scheduled in the next six months.

NZMariner 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 NZMariner annually plus a monthly cumulative update file of corrections published in Notices to Mariners

3.4 ENC's:

New Zealand – Ross Dependency			
ENC Cell	Title	Nav Purpose	Schedule
NZ 14065 (INT 65)	Ross Sea to New Zealand	Overview: 1	Q1 2011
NZ 14900 (INT 900)	Ross Sea	General: 2	Q2 2011
NZ 14901 (INT 9001)	Cape Royds to Pram Point	Approach: 4	TBC
NZ 14902 (INT 9002)	McMurdo Station and Scott Base	Harbour: 5	TBC
NZ 14903 (INT 9003)	Approaches to Scott Island: Scott Island	Approach: 4	Q2 2011
	Scott Island	Harbour: 5	Q2 2011
NZ 14906 (INT 9006)	Cape Adare	Approach: 4	TBC
	Cape Hallett	Approach: 4	TBC
	Ridley Beach	Harbour: 5	TBC
	SeeBee Hook	Harbour: 5	TBC
NZ 14907 (INT 9007)	Possession Islands	Approach: 4	TBC
NZ 14908 (INT 9008)	Cape Adare to Cape Daniell	Coastal: 3	TBC
NZ 14909 (INT 9009)	Cape Hooker to Coulman Island	Coastal: 3	Q2 2011
NZ 14912 (INT 9012)	Balleny Islands	Coastal: 3	TBC
	Balleny Seamount	Coastal: 3	TBC

In accordance with the WEND Principles, NZ ENC's are distributed via the AusRENC (IC-ENC) RENC.

3.4 Publications:

3.4.1 These 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 14 Updated for NtM
NZ 204	New Zealand Nautical Almanac	June 2010	2010/11
NP51	ASD New Zealand Pilot	October 2007	Ed 17

4. Maritime Safety Information (MSI)

4.1 LINZ is the NAVAREA XIV Coordinator navareaxiv@linz.govt.nz

Year	Number of XIV message
2008	94
2009	72
2010 to date	30

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

Year	Number of CNW message
2008	131
2009	89
2010 to date	64

The national coordinators in the NAVAREA XIV area for the assessment, coordination and broadcast of MSI are Maritime New Zealand (MNZ), Papeete, Fiji, Tuvalu and Wallis Is.

4.2 Voluntary Ship Reporting System

The New Zealand Search and Rescue Region extends to 90° South and the NZ Search and Rescue Authorities have established a voluntary ship reporting system for all vessels operating in the NZSRR Area south of 60° South for the purposes of assisting RCCNZ in co-ordinating SAR operations in that area.

Area covered: 60°S to the southern edge of the Ross Sea bounded by 163° E to 131° W.

LINZ as NAVAREA XIV Coordinator broadcasts an annual NAVAREA XIV message advising all vessels to notify the authorities on entry and departure into the area and are encouraged to make daily position reports.

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

5.1 LINZ is in the process of establishing procedures to ensure the annual updating of the C-55 entries for NZ areas of charting/survey responsibility.

5.2 The most recent updates to C-55 for NZ areas is 2003 – 2007.

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.

7. Oceanographic Activities

7.1 GEBCO

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

7.2 Tide Gauge Network

Sea level recorders installed at Cape Roberts (1991) and Scott Base (2001) stopped working at the end of 2009 and early 2010 respectively. Arrangements are being made to have these sites operational once again this coming austral summer season. LINZ personnel undertake calibration checks at both sites every November. LINZ is responsible for the Cape Roberts station and data is freely available from the LINZ web-site on a daily basis. The site at Scott Base is part of the GLOSS core network and is operated by the National Institute of Water and Atmospheric Research Ltd (NIWA). A pressure sensor is used at Cape Roberts whilst the Scott Base station comprises a bubbler system.

8. Other Activities

8.1 **Action 9/1** – Visit to IAATO ship to advise on the collection and rendering of hydrographic data and report to HCA10.

- Visit to *Spirit of Enderby*, South Port NZ, Port of Bluff, 7th January 2010

8.2 **Action 9/5** – Liaise to ensure the delivery of complementary presentations at the ATME in Wellington, NZ, December 2009.

Three papers presented:

- WP 4 - New Zealand: Hydrographic Surveying and Charting in the Ross Sea Region, Antarctica - LINZ
- IP 13 – Hydrography and Charting – Report by the IHO
- IP 14 – Cooperation between the ATCM and the IHO – Report by the IHO

8.3 **Cooperation and Partnerships** - Meeting with Antarctica New Zealand, Chief Executive, Lou Sanson, 22nd July 2010, Christchurch. Initial discussions on future cooperation for collection and rendering of hydrographic data.

8. Conclusion

Many areas within the Ross Sea Region are not adequately surveyed or charted. There is much work ahead to survey and chart these areas to modern standards.

LINZ is committed to hydrography in the Southern Ocean and Ross Sea Region through the ongoing work of the IHO HCA.

9. LINZ contact details

LINZ
New Zealand Hydrographic Authority
160 Lambton Quay
Private Box 5501
Wellington 6145
New Zealand

LINZ
<http://www.linz.govt.nz/hydro/index.aspx>
LINZ NtM Subscription
<http://www.linz.govt.nz/hydro/ntms/subscribe/index.aspx>
LINZ NAVAREA XIV Coordinator
navareaxiv@linz.govt.nz