

# NEW ZEALAND NATIONAL REPORT

TO THE

11<sup>th</sup> IHO HYDROGRAPHIC COMMISSION ON  
ANTARCTICA (HCA)

Hobart, Tasmania, AUSTRALIA

5<sup>th</sup> – 7<sup>th</sup> October 2011

## 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 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.

### 2.3 Latest Surveys

<b>LINZ</b>		
<b>Survey Number</b>	<b>Area</b>	<b>Completed</b>
HYD0001-HS4	Cape Adare, Cape Hallett, Possession Islands & Balleny Islands	2001
HYD 03/04-HS4	Cape Adare to Cape Hallett	2004
<b>Other</b>		
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:

<b>New Zealand – Ross Dependency</b>			
<b>Chart No.</b>	<b>Title</b>	<b>Scale</b>	<b>Published</b>
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.

### 3.3 RNC

*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:

<b>New Zealand – Ross Dependency</b>			
<b>ENC Cell</b>	<b>Title</b>	<b>Nav Purpose</b>	<b>Schedule</b>
*NZ 14065 (INT 65)	Ross Sea to New Zealand	Overview: 1	Q4 2011
NZ 14900 (INT 900)	Ross Sea	General: 2	Q2 2012
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 2012
	Scott Island	Harbour: 5	Q2 2012
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 2012
NZ 14912 (INT 9012)	Balleny Islands	Coastal: 3	TBC
	Balleny Seamount	Coastal: 3	TBC

\*NZ14065E and NZ14065W will replace GB14065W and GB14065E

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

## 3.5 Publications:

3.5.1 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>

<b>Publication</b>	<b>Title</b>	<b>Published:</b>	<b>Edition</b>
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)

4.1 LINZ is the NAVAREA XIV Coordinator [navareaxiv@linz.govt.nz](mailto:navareaxiv@linz.govt.nz)

<b>Year</b>	<b>Number of XIV message</b>
2009	72
2010	52
2011 to date	98*

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

<b>Year</b>	<b>Number of CNW message</b>
2009	89
2010	88
2011 to date	251*

\* 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.

## 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°S for the purposes of assisting RCCNZ in coordinating 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 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.

## **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. In November 2010 the Scott Base recorder was repaired and is operational. Arrangements are being made to repair the Cape Roberts site this coming austral summer season in November 2011.

LINZ personnel undertake calibration checks at both sites annually. LINZ is responsible for the Cape Roberts station and data is freely available from the LINZ web-site. 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 is a bubbler system.

## **8. Other Activities**

### **8.1 Recent visits to vessels**

- Visit & tour of *Araon* – new Korean research icebreaker, Wellington, 28 October 2010. Information pack provided, including; NZ Nautical Charts and Annual Notices to Mariners; IHO Collection and Rendering of Hydrographic Data Form; NZ Hydrographic Note; and ATME documentation.
- Visit to *Orion*, Port Chalmers, Dunedin, 14<sup>th</sup> January 2011. Information pack provided, including; NZ Nautical Charts and Annual Notices to Mariners; IHO Collection and Rendering of Hydrographic Data Form; NZ Hydrographic Note; and ATME documentation.

**8.3 Cooperation and Partnerships** – Ongoing discussions with Antarctica New Zealand, on future opportunities to collaborate for collection and rendering of hydrographic data.

## **9. 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.

## 10. LINZ contact details

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<http://www.linz.govt.nz/hydro/nautical-info/navigation-area-14>