

# **NEW ZEALAND NOTICES TO MARINERS**

*Notices*  
**NZ 166 – 169**

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New Zealand Notices to Mariners are the authority for correcting New Zealand charts within the New Zealand area of charting responsibility as shown in [Annual Notice No. 1](#).

**Mariners are requested to immediately inform New Zealand Hydrographic Authority, Land Information New Zealand, 155 The Terrace, PO Box 5501, Wellington 6145, New Zealand, Phone: 0800 665 463 or +64 (0)4 460 0110, Fax: +64 (0)4 460 0161, email: [ntm@linz.govt.nz](mailto:ntm@linz.govt.nz), of the discovery of new or suspected dangers to navigation, or shortcomings in charts and publications. A copy of a Hydrographic Note, a convenient form on which to send such information, is included at the end of Section VI of the Fortnightly Notices to Mariners.**

**Changes or defects in aids to navigation should be reported to the Rescue Coordination Centre New Zealand (RCCNZ) via the nearest New Zealand Coastal Maritime Radio Station Phone: +64 (0)4 577 8030, Fax: +64 (0)4 577 8038 or +64 (0)4 577 8041, email: [rccnz@maritimenz.govt.nz](mailto:rccnz@maritimenz.govt.nz).**

Copies of these Notices can be obtained from Land Information New Zealand, Maritime New Zealand, Principal Chart Agents at the major ports of New Zealand and the Internet: [www.linz.govt.nz](http://www.linz.govt.nz).

## EXPLANATORY NOTES

**Charts.** The notices in Section II give instructions for the correction of charts. Geographical positions refer to the largest scale chart unless otherwise stated. They are normally given in degrees, minutes and decimals of a minute, but may occasionally quote seconds for convenience when plotting from the graduation of some older-style charts. Bearings are true reckoned clockwise from 000° to 359°; those relating to lights are given as seen by an observer from seaward. Symbols referred to are those shown in publication Chart 5011 (*INT 1*) Symbols and Abbreviations used on Admiralty Paper Charts, published by the United Kingdom Hydrographic Office.

Alterations to depth contours, deletion of depths to make way for new detail, etc. are not mentioned unless they have some navigational significance.

Block corrections or notes accompanying notices in Section II are placed after Section VI.

**Temporary and Preliminary Notices.** These are indicated by (T) or (P) after the notice number. A list of [\(T\) and \(P\) Notices in force](#) is published on the LINZ website and in the fortnightly Editions of Notices to Mariners. Charts are not corrected for them before issue; they should be corrected in pencil on receipt.

**Light Lists.** The detailed correction to the Light List is given in Section III and may not be published in the same edition as the chart correcting notice. The entire entry for each light is printed, and an asterisk (\*) is shown under the column which contains an amendment. In the case of a new light, an asterisk (\*) appears under all the columns. New and extensively altered entries are intended to be pasted in. It is recommended that a manuscript entry be made for all shorter corrections.

It is emphasized that the [List of Lights](#) is the authority for lights and that many alterations, especially those of a temporary but operational nature, may only be promulgated as corrections to the List of Lights.

**Sailing Directions.** Corrections to Sailing Directions are given in Section IV. It is recommended that such corrections be kept together in a file with the latest list of those in force on top. The file can then be consulted when using the Current Edition of the book to see if any notices affecting the area under consideration are extant. Corrections should not be pasted into the Current Edition of the book or Supplement.

**New Zealand Publications.** Corrections to New Zealand Publications are given in Section IV.

**Navigational Warnings.** NAVAREA XIV and NZ Coastal Navigational Warnings that are in force at the time of publication are given in Section V.

**Radio Signals.** When radio signals are affected by a notice the Admiralty List of Radio Signals reference number is quoted. The detailed correction to the List of Radio Signals is given in Section VI and may be published in a later edition than the chart correcting notice. It is recommended that such corrections be kept together in a file with the latest list of those in force on top. Corrections should not be pasted into the Current Edition of the book.

**Correction of Charts and Publications by the User.** New Zealand Notices to Mariners contain important information and should be used to keep the specified charts and books up to date.

## THE USE OF CHARTS AND ASSOCIATED PUBLICATIONS

**Reliance on Charts and Associated Publications.** While every effort is made to ensure the accuracy of the information on New Zealand charts and other publications, it should be appreciated that it may not always be complete and up to date. The mariner must be the final judge of the reliance to be placed on the information given, bearing in mind their particular circumstances, local pilotage guidance and the judicious use of available navigational aids.

**Charts.** Charts should be used with prudence: there are areas where the source data are old, incomplete or of poor quality. The mariner should use the largest scale appropriate for his particular purpose; apart from being the most detailed, the larger scales are usually corrected first. When extensive new information (such as a new hydrographic survey) is received, some months may elapse before it can be fully incorporated in published charts. On small scale charts of ocean areas where hydrographic information is, in many cases, still sparse, charted shoals may be in error as regards position, least depth and extent. Undiscovered dangers may exist, particularly away from well-established routes.

**Further guidance.** The Mariner's Handbook (NP 100) gives a fuller explanation of the limitations of charts. All users should study it in their own interest.

**ENC/ECDIS Data Presentation and Performance Check in Ships.** The International Maritime Organization (IMO) has recently indicated its concerns about operating anomalies identified in some ECDIS that fail to display important new chart features.

The International Hydrographic Organization (IHO) has produced an ENC Data Presentation and Performance Check dataset that allows mariners to check their ECDIS. The check dataset is available through ENC service providers and from the IHO website ([www.iho.int](http://www.iho.int)) which includes instructions.

Mariners are strongly recommended to use the dataset and report the results of their checks to help the IHO identify how the different brands of ECDIS display and handle chart information. Mariners are asked to also inform the IMO, national Hydrographic Offices, ECDIS manufacturers and others, so that they can take any corrective action that may be necessary.

In order to present the most comprehensive report possible to the IMO and to further assist in resolving the issues so far identified, the IHO is keen that as many ships as possible forward their results. Reports on the results can be sent via a form provided with the data or the results can be submitted on-line through a web-form.

All relevant documentation can be downloaded free from the IHO website at: [www.iho.int](http://www.iho.int).

**II****NUMERICAL INDEX OF CHARTS AFFECTED**  
*(NZ NTM Edition No. 17 dated 21 August 2015)*

NZ Chart No.	INT Chart No.	ENC No.	Notice to Mariners
NZ 512		NZ300512	167(T)
NZ 521		NZ300521	167(T)
NZ 614			166
NZ 632		NZ400632	169(T)
NZ 4633		NZ404633	168(T)
NZ 4634		NZ546341	168(T)
NZ 5111			167(T)
NZ 5113			167(T)
NZ 5114		NZ451141	167(T)
NZ 5413			166
NZ 6321		NZ506321	169(T)

## NEW ZEALAND TEMPORARY AND PRELIMINARY NOTICES IN FORCE

(NZ NTM Edition No. 17 dated 21 August 2015)

NZ Notice	T/P	Charts Affected	Locality and Subject
		NZ Chart, ENC Cell	
242/09	P	<b>NZ 42, NZ 4265</b>	Kaipara Hr. Entrance: Depths
222/10	P	<b>NZ 542</b>	Whakatane: Depths
211/12	P	<b>NZ 61, NZ 614, NZ300061, NZ300614, NZ506141</b>	North Coast, Golden Bay & Tasman Bay: Lights
147/13	P	<b>NZ 521, NZ300521</b>	East Coast, Poor Knights Islands: Depths
156/13	P	<b>NZ 541, NZ 5413, NZ300541, NZ405413</b>	East Coast, Tauranga, Motiti Island: Depths
172/13	P	<b>NZ 6152</b>	North Coast, Havelock: Lights, Beacons
194/13	P	<b>NZ 5124</b>	East Coast, Bay of Islands, Kerikeri Inlet: Light Beacons
221/13	P	<b>NZ 4265</b>	West Coast, Kaipara Harbour: Lights, Beacons, Buoys
41/14	P	<b>NZ 268</b>	Chatham Islands: Depths and Rocks
42/14	P	<b>NZ 26, NZ 27, NZ 268</b>	Chatham Islands: Areas to be avoided
45/14	P	<b>NZ 632, NZ 6324, NZ406324</b>	East Coast, Akaroa Harbour: Area of Restricted Access
132/14	T	<b>NZ 6321, NZ506321, NZ606321</b>	East Coast, Lyttelton Harbour: Light, Beacon
139/14	P	<b>NZ 5612</b>	East Coast, Approaches to Napier: Light Sectors
141/14	T	<b>NZ 23 (INT 640), NZ 25 (INT 648), NZ 45, NZ 48, NZ200023, NZ300045</b>	West Coast, South Taranaki Bight: Seabed Obstructions
156/14	P	<b>NZ 82 (T 82), NZ 8238 (T 8238), NZ 8247 (T 8247), NZ 8248 (T 8248), NZ8259 (T 8259), NZ300082, NZ508238, NZ608238</b>	Kingdom of Tonga, Ha'apai Group: Navigation Aids
171/14	P	<b>NZ 521, NZ300521</b>	East Coast, Whangarei Harbour: Directional light
210/14	P	<b>NZ 8215, NZ508215</b>	Kingdom of Tonga, Niuaotupapu: Navigation Aids
211/14	P	<b>NZ 82 (T 82), NZ 827 (T 827), NZ 8275 (T 8275), NZ 8277 (T 8277), NZ300827, NZ408275, NZ508277</b>	Kingdom of Tonga, Tongatapu: Navigation Aids
213/14	T	<b>NZ 8655, NZ508655</b>	Samoa, Approaches to Apia Harbour: Buoys
224/14	P	<b>NZ 6422, NZ406422, NZ506422</b>	East Coast; Timaru Harbour: Works, Exclusion Zone and Buoy
238/14	P	<b>NZ 822 (T 822), NZ 8225 (T 8225), NZ400822, NZ508225</b>	Kingdom of Tonga, Vava'u Group, Neiafu Harbour: Prohibited Area
245/14	P	<b>NZ 531, NZ 534, NZ 5318, NZ300531</b>	East Coast, Mercury Islands, Mercury Bay: Depths, Rocks
251/14	T	<b>NZ 54, NZ 541, NZ 542, NZ 5413, NZ300541, NZ405413</b>	East Coast, Tauranga, Astrolabe Reef: Exclusion Zone and Waverider Buoy
261/14	T	<b>NZ 522, NZ 532, NZ 5227, NZ305322</b>	East Coast, Kawau Bay, Matakana River: Works in Progress
263/14	P	<b>NZ 62, NZ 63, NZ 6212, NZ300062, NZ462122</b>	East Coast, Kaikoura: Marine Reserve
264/14	P	<b>NZ 63, NZ 64, NZ 632, NZ 6324, NZ300063, NZ406324</b>	East Coast, Banks Peninsula, Akaroa Harbour: Marine Reserve
275/14	P	<b>NZ 8655, NZ508655</b>	Samoa, Apia Harbour: Buoys and Breakwater
24/15	P	<b>NZ 82 (T 82), NZ 822 (T 822), NZ 8225 (T 8225), NZ300082, NZ400822, NZ508225</b>	Kingdom of Tonga, Vava'u Group: Navigation Aids
29/15	T	<b>NZ 632, NZ 6321, NZ400632, NZ506321, NZ606321</b>	East Coast, Lyttelton Harbour, Sticking Point Eastwards: Exclusion Zone
59/15	T	<b>NZ 14065 (INT 65), NZ 14900 (INT 900), NZ14065E, NZ21490E</b>	Ross Sea, Terra Nova Bay, Gerlache Inlet: Scientific Instrument
68/15	T	<b>NZ 45, NZ 48, NZ 4541, NZ300045</b>	West Coast, Wanganui, South Mole Head: Light Unlit
73/15	P	<b>NZ 614, NZ 615, NZ 6151, NZ 6152, NZ 6153, NZ 6154, NZ300614, NZ300615, NZ461531, NZ461532, NZ561541, NZ561542, NZ661542</b>	Marlborough Sounds: Use of Automated Navigation Systems
97/15	P	<b>NZ 5113</b>	East Coast, Houhora & Rangaunu Harbour: Aids to Navigation
99/15	T	<b>NZ 23 (INT 640), NZ 26, NZ 58, NZ 14600 (INT 600), NZ200023, NZ300058, NZ14600E</b>	East Coast, Honeycomb Southeastwards: Scientific Instruments
124/15	T	<b>NZ 66, NZ 661, NZ 6612, NZ300661, NZ506612</b>	East Coast, Approaches to Otago Harbour: Scientific Instruments
125/15	T	<b>NZ 4633, NZ404633</b>	South Coast, Wellington, Lyall Bay, Lit Buoy Removed
131/15	P	<b>NZ 5314, NZ505314</b>	East Coast, Mercury Islands, Red Mercury Islands (Whakau) Northeastwards: Rocks
142/15	P	<b>NZ 5413</b>	East Coast, Tauranga, Port of Tauranga: Works
143/15	T	<b>NZ 14638 (INT 638)</b>	Fiji, Viti Levu & Southern Lau Group: Lights
144/15	T	<b>NZ 4314, NZ404314</b>	West Coast, Manukau Harbour Entrance: Depths
150/15	T	<b>NZ 23 (INT 640), NZ 26, NZ 55, NZ 14600 (INT 600), NZ200023, NZ300055, NZ14600E</b>	East Coast, Poverty Bay, Eastwards: Scientific Instruments
151/15	T	<b>NZ 463, NZ 4633, NZ 4634, NZ300463, NZ404633, NZ546341</b>	South Coast, Pencarrow Head: Light

II

NZ Notice	T/P	Charts Affected	Locality and Subject
		NZ Chart, ENC Cell	
152/15	P	<b>NZ 286, NZ 2862</b>	Auckland Islands: Rocks
154/15	P	<b>NZ 512, NZ 5124, NZ 5125, NZ300512</b>	East Coast, Approaches to Opuia: Light Sectors
155/15	P	<b>NZ 5413, NZ405413</b>	East Coast, Kaituna River Entrance & Okurei Point: Depths
157/15	T	<b>NZ 23 (INT 640), NZ 25 (INT 648), NZ 63, NZ 64, NZ 632, NZ200023, NZ300063, NZ400632</b>	East Coast, Banks Peninsula, Steep Head Eastwards: Buoy Unlit
163/15	T		Maritime Safety Broadcasts
164/15	T	<b>NZ 7142, NZ407142, NZ507142</b>	West Coast, Greymouth Harbour: Depths
167/15	T	<b>NZ 512, NZ 521, NZ 5111, NZ 5113, NZ 5114, NZ300512, NZ300521, NZ451141</b>	East Coast, Rangaunu Bay, Doubtless Bay & Whangaruru Harbour: Scientific Instruments
168/15	T	<b>NZ 4633, NZ 4634, NZ404633, NZ546341</b>	South Coast, Wellington Harbour, Camp Bay: Scientific Instrument
169/15	T	<b>NZ 632, NZ 6321, NZ400632, NZ506321</b>	East Coast, Lyttelton Harbour: Channel Depth

**NZ 166/15** NEW ZEALAND PUBLICATIONS – Paper Charts.

**New Editions to be Published Shortly.**

*Chart No. Title*

**NZ 614** Tasman Bay

**NZ 5413** Approaches to Tauranga

New Zealand Hydrographic Authority  
NI 173/2015

**NZ 167(T)/15 NEW ZEALAND – North Island – East Coast – Rangaunu Bay, Doubtless Bay & Whangaruru Harbour – Scientific Instruments.**

1. Seabed tide gauge equipment marked by red and yellow striped buoys have been deployed in the following positions until December 2015:
  - a) 34° 48'.27S., 173° 10'.39E. (Farmer Point)
  - b) 34° 52'.86S., 173° 17'.43E. (Kohanga Bay)
  - c) 34° 49'.35S., 173° 24'.62E. (Maitai Bay)
  - d) 34° 55'.68S., 173° 33'.36E. (Takerau Bay)
  - e) 35° 18'.64S., 174° 19'.31E. (W of Home Point)
  - f) 35° 20'.66S., 174° 19'.70E. (Tamateatai Point)
  - g) 35° 26'.09S., 174° 22'.87E. (Helena Bay)
  
2. Mariners are advised to exercise caution when navigating in the area.

**Charts temporarily affected: NZ 512, NZ 521, NZ 5111, NZ 5113, NZ 5114, NZ300512, NZ300521, NZ451141**

IX Survey Australia PTY LTD.

NI 172/2015



**NZ 168(T)/15 NEW ZEALAND – North Island – South Coast – Wellington Harbour – Camp Bay –  
Scientific Instrument.**

1. An unmarked scientific ocean bottom instrument has been deployed in position 41° 18'.95S., 174° 52'.29E. until further notice.
2. Mariners are advised to exercise caution when navigating in the area.

**Charts temporarily affected: NZ 4633, NZ 4634, NZ404633, NZ546341**

Centreport Ltd.  
NI 177/2015

**NZ 169(T)/15 NEW ZEALAND – South Island – East Coast – Lyttelton Harbour – Channel Depth.**

1. A recent survey (April 2015) has indicated that a channel depth of 11.7m can be expected in the Lyttelton Harbour main channel.
2. Mariners are requested to exercise caution when navigating in the area.

**Charts temporarily affected: NZ 632, NZ 6321, NZ400632, NZ506321**

Lyttelton Port Company Ltd.  
NI 171/2015

### III

#### **CORRECTIONS TO NEW ZEALAND LIGHT LIST**

*(NZ NTM Edition No. 17 dated 21 August 2015)*

#### **NEW ZEALAND NAUTICAL ALMANAC 2015/16 LIGHT LIST SECTION**

*Nil*

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### IV

#### **CORRECTIONS TO SAILING DIRECTIONS AND NEW ZEALAND PUBLICATIONS**

*(NZ NTM Edition No. 17 dated 21 August 2015)*

#### **Corrections to New Zealand Nautical Almanac (NZ 204), 2015/16 Edition**

#### **Page 205, ANNUAL NZ NTM – 4 SEARCH AND RESCUE INFORMATION AND PROCEDURES**

#### **New Zealand Search and Rescue Region**

Replace existing paragraph 5(d) with:

- (d) North by a line joining:
  - 25° 00'S., 163° 00'E.
  - 25° 00'S., 180° 00'W.
  - 05° 00'S., 171° 00'W.
  - 05° 00'S., 157° 00'W.
  - 30° 00'S., 157° 00'W.
  - 30° 00'S., 131° 00'W.

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(NI 176/2015)

**V**

**NAVIGATIONAL WARNINGS**

*Warnings in force 19 August 2015*

**NAVAREA XIV**

*(South West Pacific)*

73/15 FM NAVAREA XIV COORDINATOR 160930 UTC AUG 15 NAVAREA XIV 73/15 SOUTHERN OCEAN

1. CANCEL NAVAREA XIV 72/15.
2. HAZARDOUS OPERATIONS, FALLING SPACE DEBRIS FROM 191332 UTC AUG 15 TO 191446 UTC AUG 15 IN AREA BOUNDED BY:
  - A. 46-00S 106-00W
  - B. 53-00S 106-00W
  - C. 53-00S 155-00W
  - D. 48-27S 167-00W
  - E. 46-00S 167-00W
3. CANCEL THIS MESSAGE 191546 UTC AUG 15.

**NZ Coastal Navigational Warnings**

*(Area Z)*

NIL IN FORCE

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## VI

### CORRECTIONS TO ADMIRALTY LIST OF RADIO SIGNALS (NZ NTM Edition No. 17 dated 21 August 2015)

#### VOLUME 3, PART 2, NP 283(2), 2014/15

Published Wk 52/14  
(Last Updates: Weekly Edition No. 29 dated 16 July 2015)

### RADIO WEATHER SERVICES AND NAVIGATIONAL WARNINGS

**PAGE 183, NEW ZEALAND, TSUNAMI WARNING SYSTEM, VHF Channels to Guard by Port.**  
Delete section and replace by:

#### VHF Channels to Guard by Port

Port	Call Sign	VHF Channels Call 16, then (main channel in bold)
Akaroa	Akaroa Harbour Control	06 (not H24)
Auckland	Auckland Harbour Control	<b>12</b>
Bay of Islands	Russell Radio	63
Bluff	Bluff Harbour Radio	12, 14
Dunedin	Otago Harbour Control	12, 14, 62
Gisborne	Gisborne Harbour Radio	12
Greymouth	Greymouth Harbour Radio	06, <b>63</b>
Kaikoura	Kaikoura Harbour Control	16 and as directed (not H24)
Lyttelton	Lyttelton Harbour Radio	12, 63
Marsden Point	Whangarei Harbour Radio	19
Napier	Napier Harbour Radio	12
Nelson	Nelson Harbour Radio	12
Onehunga	Auckland Harbour Control	12
Picton	Picton Harbour Radio	19
Port Chalmers	Otago Harbour Control	12, 14, 62
Port Taranaki	New Plymouth Harbour Radio	12, 61
Tauranga	Tauranga Port Radio	12
Timaru	Timaru Harbour Radio	09
Wanganui	Wanganui Harbour Radio ZMH211	16 only
Wellington	Wellington Harbour Radio	14
Westport	Westport Harbour Radio ZMH92	14

New Zealand Nautical Almanac 2015/16 Edition. (RSDRA2015000128801) 34/15

**PAGE 184, NEW ZEALAND, diagram, NEW ZEALAND, PORT RADIO STATIONS, TSUNAMI WARNING SYSTEM, in approximate position 37°00'S 174°30'E.**  
Delete ● and legend Manukau Harbour Radio.

New Zealand Nautical Almanac 2015/16 Edition. (RSDRA2015000128801) 34/15

**PAGE 184, NEW ZEALAND, diagram, NEW ZEALAND, PORT RADIO STATIONS, TSUNAMI WARNING SYSTEM, in approximate position 37°00'S 177°30'E.**  
Delete legend Auckland Harbour Radio

and replace with

Auckland Harbour Control

New Zealand Nautical Almanac 2015/16 Edition. (RSDRA2015000128801) 34/15

## HYDROGRAPHIC NOTE

(For instructions, see next page)

New Zealand Hydrographic Authority  
Land Information New Zealand  
Radio New Zealand House  
155 The Terrace  
PO Box 5501  
Wellington 6145  
New Zealand

Tel: 0800 665 463 or +64 (0)4 460 0110

Fax: +64 (0)4 460 0161

Email: [ntm@linz.govt.nz](mailto:ntm@linz.govt.nz)

Date ..... Ref. No. ....

Name and address of ship or sender

.....  
.....

Tel/Fax/Telex/Email of sender .....

General locality .....

Subject .....

Position. Lat. .... Long. ....

Position fixing system used .....

Datum .....

Paper Chart/ENC affected ..... Edition .....

Dated .....

Latest Notice to Mariners held .....

Publications affected (Edition No. and date of latest supplement, page no., ID no. etc) .....

Details:

A replacement copy of Chart No. ....  
is required (see Instruction 4).

Signature of observer/reporter .....

# HYDROGRAPHIC NOTE

## Forwarding Information for Charts and Hydrographic Publications

**Note:** An acknowledgement of receipt will be sent and the information then used to the best advantage, which may mean immediate action or inclusion in a revision in due course. When a Notices to Mariners is issued, the sender's ship or name is quoted as authority unless (as sometimes happens) the information is also received in a foreign Notices to Mariners. An explanation of the use of contributions from all parts of the world would be too greater task and a further communication should only be expected when the information is of outstanding value or has unusual features.

### INSTRUCTIONS:

1. Mariners are requested to notify New Zealand Hydrographic Authority, Land Information New Zealand, 155 The Terrace, PO Box 5501, Wellington 6145, New Zealand, when new or suspected dangers to navigation are discovered, changes observed in aids to navigation, or corrections to publications seem to be necessary. The Admiralty publication, *The Mariner's Handbook* (NP 100), Chapter 4, gives general instructions.
2. This form and its instructions have been designed to help both the sender and the recipient. It should be used, or followed, closely, whenever appropriate. Copies of this form may be obtained gratis from the New Zealand Hydrographic Authority at the address above, or in PDF format directly from the LINZ website, [www.linz.govt.nz/hydro](http://www.linz.govt.nz/hydro). Hydrographic Notes can also be sent from mobile devices using the Hydrographic Notes Application available for [Android](#) and [Apple](#) devices.
3. When a position is defined by sextant angles or bearings (true or magnetic being specified) more than two should be used in order to provide a check. Distances observed by radar should be quoted. However, when there is a series of fixes along a ship's course, only the method of fixing and the objects used need to be indicated. Latitude and longitude should only be used specifically to position the details when they have been fixed by astronomical observations or GPS and a full description of the method, equipment and datum used should be given.
4. Paper Charts: A cutting from the largest scale paper chart is the best medium for forwarding details, the alterations and additions being shown thereon in red. When requested, a new copy will be sent in replacement of a chart that has been used to forward information, or when extensive observations have involved defacement of the observer's chart. If it is preferred to show the amendments on a tracing of the largest scale chart (rather than the chart itself) these should be in red as above, but adequate detail from the chart must be traced in black ink to enable the amendments to be fitted correctly.

Electronic Navigational Charts (ENCs): A screen dump of the largest scale usage band ENC with the alterations and additions being shown thereon in red.

5. When soundings are obtained, *The Mariners Handbook* (NP 100) should be consulted. The echo sounding trace should be marked with times, depths, etc., and forwarded with the report. It is important to state whether the echo sounder is set to register depths below the surface, or below the keel; in the latter case the vessel's draught should be given. Time and date should be given in order that corrections for the height of the tide may be made where necessary. The make, name, and type of echo sounder set should also be given.
6. Modern echo sounders frequently record greater depths than the set's nominal range, e.g. with a set whose maximum is 500m a trace appearing at 50m may in fact be 550m or even 1,050m. Erroneous deep soundings beyond the sets nominal range can usually be recognised by the following:
  - (a) The trace being weaker than normal for the depth registered
  - (b) The trace appearing to pass through the transmission line
  - (c) The "feathery" nature of the trace.
7. Reports which cannot be confirmed or are lacking in certain details should not be withheld. Shortcomings should be stressed and any firm expectation of being able to check the information on a succeeding voyage should be mentioned.
8. Reports of shoal soundings, uncharted dangers and navigational aids out of order should, at the mariner's discretion, also be made by radio to the nearest coast radio station. The draught of modern tankers is such that any uncharted depth under 30 metres or 15 fathoms may be of sufficient importance to justify a radio message.