



Australian Notices to Mariners are the authority for correcting Australian Charts

AUSTRALIAN NOTICES TO MARINERS

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Notices 38 – 61 Temporary and Preliminary Notices in Force

Published fortnightly by the Australian Hydrographic Service

B. J. KAUFER,
Hydrographer of Australia

- SECTIONS.**
- I. Australian Notices to Mariners, including blocks and notes.**
 - II. Amendments to Admiralty List of Lights and Fog Signals, Vol K**
 - III. Navigational Warnings.**
 - IV. Hydrographic Reports.**
 - V. Amendments to Admiralty List of Radio Signals (NP 281(2), 282, 283(2), 285, 286(4))**
 - VI. Amendments to Admiralty Sailing Directions (NP 9, 13, 14, 15, 17, 33, 34, 35, 36, 39, 44, 51, 60, 61, 62, 100, 136)**

[British Admiralty Notices to Mariners](#)
[New Zealand Notices to Mariners](#)

The substance of these notices should be inserted on the charts affected.

Bearings are referred to the true compass and are reckoned clockwise from 000° (North) to 359°; those relating to lights are given as seen by an observer from seaward. Positions quoted in permanent notices relate to the horizontal datum for the chart(s). When preliminary or temporary notices affect multiple charts, positions will be provided in relation to only one horizontal datum and that datum will be specified. When the multiple charts do not have a common horizontal datum, mariners will be required to adjust the position(s) for those charts not on the specified datum. The range quoted for a light is its nominal range. Depths are with reference to the chart datum of each chart. Heights are above mean high water springs or mean higher high water, as appropriate.

The capital letter (P) or (T) after the number of any notice denotes a preliminary or temporary notice respectively, which are contained separately at the end of the permanent notices. A star () adjacent to the number of a notice indicates that the notice is based on original information.*

Mariners are particularly requested to notify the AUSTRALIAN HYDROGRAPHIC SERVICE, Locked Bag 8801 South Coast Mail Centre, NSW 2521 (Fax 02-4221 8599, e-mail Hydro.NTM@defence.gov.au or, alternatively by filling in and submitting the [Hydrographic Notes](#) forms located on the web site – www.hydro.gov.au), immediately on the discovery of new dangers or suspected dangers to navigation. For changes or defects in aids to navigation notify AusSAR (Fax 02-6230 6868 or email rccaus@amsa.gov.au).

Copies of these notices can be obtained from the AUSTRALIAN HYDROGRAPHIC OFFICE, 8 Station Street, Wollongong; Distributors for the sale of Australian Navigational Products or register for eNotices at www.hydro.gov.au/enotices/enotices.htm.

The Notices may be copied for the purpose of inserting their substance on official charts and other publications. However, any copies of the notices may not be sold for profit.

IMPORTANT NOTICE

This edition of Notices to Mariners includes all significant information affecting AHS products which the AHS has become aware of since the last edition. All reasonable efforts have been made to ensure the accuracy and completeness of the information, including third party information, on which these updates are based. The AHS regards third parties from which it receives information as reliable, however the AHS cannot verify all such information and errors may therefore exist. The AHS does not accept liability for errors in third party information.

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NUMERICAL INDEX OF CHARTS AFFECTED

Edition No 1

9 January 2004

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38.....	Aus 32, 109, 114, 192, 311, 312, 313, 321, 839, 840, 4721, 4722, 60313, 60314, 60321, INT 720, 721
39.....	Revised prices
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61(T)	Temporary and Preliminary Notices

38 AUSTRALIA - Products.

AHS (fa11210).

New Chart

<i>Chart</i>	<i>Published</i>	<i>Title, limits and description of amendments</i>	<i>Scale</i>	<i>Folio</i>	<i>Index Chart</i>	<i>Price</i>
Aus 109	14/11/2003	Australia - South Coast – Western Australia - Port of Albany 35° 00' 48" S - 35° 05' 12" S 117° 50' 48" E - 118° 00' 00" E <i>New limits providing improved coverage of the approaches; including general updating throughout. Horizontal datum is referred to WGS84.</i>	1:12 500	4	Aus 65001	\$29.50
Aus 192	14/11/2003	Australia - East Coast - New South Wales - Twofold Bay 37° 00' 18" S - 37° 09' 06" S 149° 51' 15" E - 150° 03' 24" E Plan: Eden 37° 04' 06" S - 37° 05' 06" S 149° 53' 36" E - 149° 55' 06" E East Boyd Bay Wharves 37° 05' 17" S - 37° 06' 51" S 149° 54' 24" E - 149° 55' 54" E <i>New metric chart providing improved coverage of Twofold Bay. Datums are referred to WGS 84 and LAT.</i>	1:25 000 1:7 500 1:7 500	6	Aus 65001	\$29.50
Aus 312	28/11/2003	Australia - East Timor - Timor Sea - Dillon Shoal to East Timor 8° 22' 00" S - 11° 28' 00" S 125° 22' 30" E - 127° 21' 00" E <i>New chart with amended limits and general updating throughout.</i>	1:300 000	2	Aus 65000	\$29.50
Aus 313	28/11/2003	East Timor - Timor Sea - Approaches to East Timor 8° 02' 01" S - 10° 00' 00" S 124° 50' 00" E - 127° 57' 45" E <i>New chart providing coverage of East Timor. Datums are referred to WGS 84 and LAT.</i>	1:300 000	2	Aus 65000	\$29.50
Aus 321	28/11/2003	Indonesia – West Timor including Ambeno 8° 15' 00" S - 11° 21' 15" S 123° 25' 00" E - 125° 23' 44" E Plan: East Timor – Pante Makasar 9° 10' 48" S - 9° 11' 30" S 124° 23' 00" E - 124° 24' 00" E <i>New chart providing coverage of West Timor. Datums are referred to WGS 84 and LAT.</i>	1:300 000 1:10 000	2	Aus 65000	\$29.50

New Edition

Aus 114	14/11/2003	Australia - West Coast - Western Australia - Kwinana Inset: Kwinana Grain Jetty <i>General updating throughout including new port development at Jervoise Bay.</i>	1:12 500	4	Aus 65001	\$29.50
Aus 311	28/11/2003	Australia - East Timor - Timor Sea - Calder Shoal to Meatij Miarang <i>General updating throughout, including maritime boundaries.</i>	1:300 000	2	Aus 65000	\$29.50
Aus 839	14/11/2003	Australia - North East Coast - Queensland - Cairncross Islets to Arden Islet <i>General updating throughout, incorporating new two-way route through Great North East Channel.</i>	1:150 000	8	Aus 65000	\$29.50
Aus 840	14/11/2003	Torres Strait - Great North East Channel - Arden Islet to Bramble Cay <i>General updating throughout, incorporating new two-way route through Great North East Channel</i>	1:150 000	8	Aus 65000	\$29.50

New Chart to be published shortly

<i>Chart</i>	<i>Title</i>	<i>Scale</i>
Aus 32	Australia – North Coast – Western Australia – Cambridge Gulf Plan: Approaches to Wyndham Wyndham Wharf	1:75 000 1:37 500 1:7 500
Aus 4721 INT 721	Australia – North Coast – Cape Wessel to Adele Island and Adjacent Waters	1:1 500 000
Aus 4722 INT 722	Australia – Northwest Coast - Timor to Dampier	1:1 500 000

Chart permanently withdrawn

<i>Chart</i>	<i>On publication of new chart/new edition</i>	<i>Remarks</i>
Aus 109	Aus 109	
Aus 114	Aus 114	
Aus 311	Aus 311	
Aus 312	Aus 312	
Aus 839	Aus 839	
Aus 840	Aus 840	
Aus 60313	Aus 313	
Aus 60314	Aus 314	Aus 314 publication advised in Edition 22/2003.
Aus 60321	Aus 321	

39 AUSTRALIA - Products - Revised prices.

AHO (fA11206).

The following are the new GST Inclusive Retail Prices (GST IRP) which come into force from 1 January 2004:

<i>Product</i>	<i>Revised price</i>
Australian Nautical Charts	\$29.50
Australian Bathymetric Maps	\$13.00
Australian National Tide tables	\$55.00
Australian Chart Indexes	\$13.00
Seafarer Tides	\$55.00
Seafarer RNC - Australia Pack	\$1 600.00
Seafarer RNC - Regional Pack	\$850.00
Seafarer RNC - Day Mariner Pack	\$280.00
Seafarer RNC - Chart Pack	\$50.00
Seafarer RNC - Viewer	\$315.00

40 AUSTRALIA - Miscellaneous correction.

AHS (fA11264).

Aus 110 [882/2003]

Insert	magenta limits with legend <i>Aus 109</i> in SE corner		
	North	35° 00'.87 S	
	South	35° 05'.27 S	
	East		117° 59'.92 E
Delete	magenta limits with legend <i>Aus 109</i> centred on	35° 03'.7 S	117° 57'.0 E

Aus 118 [882/2003]

Insert	magenta limits with legend <i>Aus 109</i> in SE corner		
	North	35° 00'.87 S	
	South	35° 05'.27 S	
	East		117° 59'.92 E
	West		117° 50'.72 E
Delete	magenta limits with legend <i>Aus 109</i> centred on	35° 03'.5 S	117° 55'.0 E

Aus 191 (plan, Twofold Bay) [680/2003]

Delete plan Twofold Bay

Note: a new chart Aus 191 is in production and will include plans of Bermagui, Moruya, Narooma and Crookhaven River.

Aus 314 [NE 5/9/2003]

Insert	magenta legend, <i>Adjoining Chart Aus 321</i> , in N border centred on		124° 30'.0 E
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Aus 317 [795/2003]

Insert	magenta legend, <i>Adjoining Chart Aus 321</i> , in E border centred on	10° 45'.0 S	
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Aus 806 [710/2003]

Insert	magenta limits with legend <i>Aus 192</i> in SE corner		
	North	37° 00'.41 S	
	South	37° 09'.21 S	
	East		150° 03'.43 E
	West		149° 51'.28 E
Delete	magenta limits with legend <i>Aus 191</i> centred on	37° 05'.0 S	149° 55'.0 E

41* AUSTRALIA - NEW SOUTH WALES - Hawkesbury River - Cable; nomenclature.Telstra (A70849), HMAS *Watson* (A72042).**Aus 204 [787/2003]**

Amend	legend to <i>Dangar Island</i> centred on	33° 32'.32 S	151° 14'.50 E
Delete	submarine cable between	33° 32'.56 S	151° 13'.45 E
		33° 32'.79 S	151° 13'.28 E
	beacon	33° 34'.13 S	151° 13'.32 E

42* AUSTRALIA - NEW SOUTH WALES - Port Stephens - Buoyage.
Waterways (A71242).

Aus 209 [362/2003]

Insert	special spar light buoy, <i>Fl. Y. 5s</i> , without topmark	32° 41'.353 S	152° 06'.752 E
	starboard lateral light beacon, <i>Fl. G. 3s</i> , with topmark	32° 41'.153 S	152° 07'.208 E
	starboard lateral beacon with topmark	32° 41'.120 S	151° 59'.120 E
Substitute	starboard lateral light beacon, <i>Fl. G. 3s</i> , with topmark for beacon	32° 40'.60 S	152° 00'.90 E
		32° 40'.49 S	151° 59'.85 E
Delete	port lateral light beacon	32° 41'.45 S	152° 06'.68 E
	starboard lateral light beacon	32° 41'.15 S	152° 07'.20 E
	depth 0 ₃ m	32° 41'.05 S	152° 59'.11 E

43* AUSTRALIA - QUEENSLAND - Southport - Depths.
AHS (A71584).

Aus 814 [867/2003]

Substitute [accompanying plan](#)

44* AUSTRALIA - QUEENSLAND - Brisbane River - Caltex Crude Oil Wharf - Dredged depth.
Maritime Safety Queensland Notice 456/2003 (A70771).

Aus 237 [868/2003]

Amend	depth to 14.3m	27° 23'.11 S	153° 09'.62 E
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45* AUSTRALIA - QUEENSLAND - Mackay - Leading lights repositioned.
List of Lights Vol K/2003 -- 3034.00,3034.10
Maritime Safety Queensland Notice 467/2003 (A71138).

Aus 250 (plan, Mackay Harbour) [822/2003]

Insert	light, <i>F. Bu (F day)</i>	21° 06'.386 S	149° 13'.549 E
	light, <i>F. Bu (F day)</i>	(a) 21° 06'.402 S	149° 13'.435 E
	pecked line emanating from light (a) in a direction 081.6° for 525 metres, thence a firm line for 1475 metres, with legend 261.6°		
Delete	light	21° 06'.39 S	149° 13'.45 E
	light	(b) 21° 06'.41 S	149° 13'.36 E
	navline with legend 261° 40' emanating from light (b)		

46* AUSTRALIA - QUEENSLAND - Hook Island to Hayman Island - Moorings.
EPA Queensland (A70540).

Aus 254 (plan, Stonehaven Anchorage) [870/2003]

Insert	visitors mooring (INT 1 IU3)	20° 06'.005 S	148° 54'.368 E
		20° 05'.653 S	148° 54'.377 E
		20° 04'.781 S	148° 52'.654 E
		20° 04'.749 S	148° 52'.613 E
		20° 02'.744 S	148° 52'.796 E
		20° 02'.658 S	148° 52'.825 E
		20° 02'.578 S	148° 52'.841 E
		20° 02'.522 S	148° 52'.845 E
Delete	depth 18 ₃ m	20° 04'.74 S	148° 52'.63 E

47* AUSTRALIA - QUEENSLAND - Cooktown - Light buoy.

Former Notice - 901(T)/2003 is cancelled

Maritime Safety Queensland Notice 468(T)/2003 (A71583).

Aus 270 (plan, Cooktown) [748/2003]

Insert	starboard conical light buoy, <i>Fl. G. 2.5s No 1</i> , without topmark	15° 27'.201 S	145° 15'.343 E
Delete	light beacon	15° 27'.21 S	145° 15'.33 E
	depth 3 ₁ m	15° 27'.19 S	145° 15'.33 E

AU5270P6 ENC Cell will be amended in the February 2004 update release.

48* AUSTRALIA - TORRES STRAIT - Smith Cay - Light beacon established.

Former Notice - 641(P)/2003 is cancelled

AMSA (A71733).

Aus 377 [877/2003]

Insert	west cardinal light beacon, <i>Q(9) 15s 11M</i> , with topmark	9° 46'.02 S	143° 19'.09 E
Delete	depth 25 ₃ m	9° 45'.4 S	143° 18'.7 E
	drying height (3 ₁)m	9° 45'.3 S	143° 18'.6 E

Aus 840 [NE 14/11/2003]

Insert	west cardinal light beacon, <i>Q(9) 15s 8m 11M</i> , with topmark	9° 45'.93 S	143° 19'.15 E
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Note: The contents of this notice are included in the new edition of Aus 376 to be published shortly.

AU410143 ENC Cell will be amended in the February 2004 update release.

49* AUSTRALIA - NORTHERN TERRITORY - Cape Wessel - Wreck.

HMAS *Flinders* (A71271).

Aus 4720 (INT 720) [NC 17/10/2003]

Insert	danger circle enclosing depth 44m with legend <i>Wk</i>	10° 28'.6 S	137° 05'.5 E
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50* AUSTRALIA - NORTHERN TERRITORY - Darwin - Buoyage.

Darwin Port Corp (A71146).

Aus 28 (plan, Port Darwin) [750/2003]

Substitute	yellow conical light buoy, <i>Fl. R. 4s</i> , for port lateral light buoy	12° 28'.16 S	130° 51'.06 E
Amend	light characteristic to <i>Q. G</i>	12° 26'.65 S	130° 51'.56 E
	light characteristic to <i>Fl(2) G. 4s</i>	12° 26'.59 S	130° 51'.57 E

51 INDONESIA - Pu Pu Tanimbar - Lights.

Admiralty Notice 5418/50/2003 (A71259).

Aus 4603 (INT 603) [795/2003]

Insert	light	6° 59'.0 S	132° 00'.7 E
		6° 39'.0 S	131° 35'.6 E

52 INDIAN OCEAN - Andaman Islands - Depths.

Admiralty Notices 5366 & 5367/49/2003 (A70864).

Aus 4071 (INT 71) [368/2003]

Insert	depth, 190m, enclosed by danger circle	13° 39'.0 N	96° 00'.0 E
	depth, 69m, enclosed by danger circle	12° 28'.5 N	94° 42'.2 E

Substitute	depth, 7m, for depth 11m	10° 23'.0 N	92° 02'.0 E
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Delete	depth 88m and enclosing danger circle	12° 32'.0 N	94° 42'.0 E
	depth 812m	13° 28'.0 N	95° 47'.0 E

53* WESTERN AUSTRALIA - Albany - Restricted area; anchor berths.

Albany Port Authority (A71591 & A71635).

Aus 110 [40/2004]

Insert	prohibited anchorage between	35° 01'.56 S	117° 57'.91 E
		35° 03'.28 S	117° 57'.91 E
		35° 02'.01 S	117° 56'.56 E
		35° 01'.92 S	117° 56'.52 E

designated anchor berths, with 560 metre radius swinging circle

A	35° 02'.87 S	117° 55'.92 E
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B	35° 02'.47 S	117° 56'.52 E
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C	35° 03'.17 S	117° 57'.11 E
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D	35° 03'.77 S	117° 57'.72 E
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E	35° 01'.37 S	117° 57'.12 E
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F	35° 01'.67 S	117° 58'.52 E
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G	35° 02'.47 S	117° 58'.52 E
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legend, 252°, centred on	35° 01'.65 S	117° 57'.63 E
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Delete	prohibited anchorage area centred on	35° 02'.0 S	117° 56'.5 E
	legend Leading Lights 251° 56' centred on	35° 01'.8 S	117° 56'.9 E

Aus 118 [40/2004]

Insert	prohibited anchorage between	35° 01'.56 S	117° 57'.91 E
		35° 03'.28 S	117° 57'.91 E
		35° 02'.01 S	117° 56'.56 E
		35° 01'.92 S	117° 56'.52 E

Substitute	legend, 252°, for 251° 56'	35° 01'.7 S	117° 57'.7 E
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Delete	prohibited anchorage area centred on	35° 02'.0 S	117° 56'.5 E
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54(T)/2004 AUSTRALIA - NEW SOUTH WALES - Jervis Bay - Obstructions.

Former Notice - 406(T)/2003 is cancelled

MHQAUST (A71190 & A71191).

Ground mine shapes exist in the following positions:

35° 05'.98 S 150° 46'.54 E

35° 04'.25 S 150° 44'.72 E

Mariners are advised to navigate with caution in the area.

Chart temporarily affected – Aus 193.

55(T)/2004 AUSTRALIA - NEW SOUTH WALES - Port Kembla - Depth information.

Port Kembla Ports (A72070).

Available depths as at 17 December 2003:

<i>Harbour</i>	<i>Metres</i>
* Western end of Inner Harbour	14.8
<i>Berth</i>	
* Grain Berth	15.3
* Multi Purpose Berth	15.7
* No 6 (south side)	9.4

*Indicates new or revised entry.

Chart temporarily affected – Aus 195.

56(T)/2004 AUSTRALIA - NEW SOUTH WALES - Camden Haven – Lights restored to normal.

Former Notice - 407(T)/2003 is cancelled

Waterways NSW (A71423).

Cancel this notice on receipt.

Chart formerly affected – Aus 219

57(T)/2004 AUSTRALIA - QUEENSLAND - Mooloolaba - Shoal; light buoy.

Maritime Safety Queensland Notice 474(T)/2003 (A71479).

Shoaling extends westwards from eastern breakwater at the entrance to Mooloolah River.

A port lateral light buoy, *Fl. R. 4s*, has been established in position 26° 40'.844 S 153° 07'.857 E.

Mariners should use caution when transiting the entrance.

Chart temporarily affected – Aus 235.

58(P)/2004 AUSTRALIA - TIMOR SEA - Sahul Banks - Gas field charted.

Former Notice - 812(P)/2002 is cancelled

AHS (A71390).

Cancel this notice on receipt.

Chart formerly affected – Aus 312 – Aus 4603.

59(T)/2004 WESTERN AUSTRALIA - Port Walcott - Scientific instrument.

Date - Until 31 December 2003

Former Notice - 773(T)/2003 is cancelled

WNI (A71265 & A71662).

A scientific instrument marked by unlit polyfloats exists in position 20° 31'.96 S 117° 14'.06 E.

Chart temporarily affected – Aus 55 – Aus 56.

60(T)/2004 WESTERN AUSTRALIA - Dampier - East Intercourse Island - Scientific instrument.

Date - Until 31 January 2004

WNI (A71265 & A71662).

Sub-surface scientific instrument exists in position 20° 39'.12 S 116° 40'.25 E.

Chart temporarily affected – Aus 57 – Aus 58 – Aus 59.**61(T)/2004 AUSTRALIA - TEMPORARY AND PRELIMINARY NOTICES.**

Former Notice - 676(T)/2003 is cancelled

AHS (A72074).

<i>Notice</i>	<i>Charts affected</i>	<i>Locality and Subject</i>
BASS STRAIT		
		<i>Kilcunda</i>
783/2003	Aus150-350-422-445B-801	Gas pipeline southwards
CORAL SEA		
		<i>Lihou Reef</i>
653/2001	Aus614.....	Shoals
NEW SOUTH WALES		
		<i>Botany Bay</i>
888/2003	Aus198-199	Light beacon
		<i>Broken Bay</i>
845/2003	Aus197-204-215-AX70197 ..	Scientific instrument northwards
		<i>Broken Bay to Port Stephens</i>
889/2003	Aus197-209-361-362-809-810-AX70197	Seismic operations
		<i>Coffs Harbour</i>
846/2003	Aus220-812	Pipeline; jetty
		<i>Green Cape to Point Danger</i>
660/2003	Aus197-806-807-808-810-812-813-AX70197-70808	Scientific instruments
		<i>Jervis Bay</i>
54/2004	Aus193.....	Obstructions
		<i>Newcastle</i>
284/2003	Aus207-208	Light buoy
763/2003	Aus207-208	Depth information
		<i>Port Hacking</i>
466/2003	Aus198.....	Nav aids
		<i>Port Kembla</i>
838/2002	Aus195.....	Pipeline; jetty
55/2004	Aus195.....	Depth information
		<i>Potato Point to Byron Bay</i>
465/2003	Aus193-197-807-808-809-810-811-812-813-AX70197-70808	Light buoys
		<i>Shellharbour</i>
837/2002	Aus808.....	Scientific instrument
		<i>Tweed River</i>
111/2002	Aus813-814	Scientific Instrument
NORTHERN TERRITORY		
		<i>Darwin</i>
320/2003	Aus26-28	Depth information
321/2003	Aus26-28	Shoaling
811/2003	Aus26-722	Wreck; light buoy
906/2003	Aus26-28	Obstruction; buoys

250/2003	Aus15	<i>Gove</i> Light buoy off station
849/2002	Aus309-311-315	<i>Troubadour Shoals</i> Scientific instruments
QUEENSLAND		
438/2003	Aus238.....	<i>Brisbane River</i> Barge and pipeline removed
566/2003	Aus237.....	Dredging operations completed; dredging operations
610/2003	Aus236-237	Light buoys
725/2003	Aus237.....	Dredging
893/2003	Aus237-238	Depth information
665/2003	Aus242.....	<i>Bundaberg</i> Dredging operations
851/2003	Aus242-243	Depth information
348/2003	Aus262-263-264	<i>Cairns</i> Scientific instruments
700/2003	Aus262-263-264-830	Depth information
895/2003	Aus371-826-827-AU320147	<i>Cape Bowling Green</i> Light buoy eastwards withdrawn
770/2003	Aus251-370-824	<i>Cape Hillsborough</i> Wreck
897/2003	Aus371-372-826-827-828- AU319147-419146	<i>Chicken, Myrmidon and Pith Reefs</i> Scientific instruments
845/2002	Aus270.....	<i>Cooktown</i> Depth information
614/2003	Aus258-828-829	<i>Dunk Island</i> Obstruction
808/2003	Aus374-375-833-834	<i>Fairway Channel to Lads Passage</i> Light beacons to be established
567/2003	Aus235-236	<i>Flinders Reef</i> Light buoy off station
50/2003	Aus244-245	<i>Gladstone</i> Light beacons
473/2003	Aus244-245-246	Depth information
504/2003	Aus246.....	Light beacon destroyed; light buoy
542/2003	Aus244-245	Light beacon destroyed; light buoy
573/2003	Aus244-245	Barge; light buoys
849/2003	Aus235-365	<i>Gneering Shoals</i> Light buoy relit; topmark missing
696/2003	Aus814.....	<i>Gold Coast</i> Scientific instrument eastward
377/2003	Aus814.....	<i>Gold Coast Seaway</i> Shoaling
662/2003	Aus814.....	Shoaling
171/2003	Aus371-372-827-828	<i>Great Palm Island</i> Wreck; light buoy
288/2003	Aus250.....	<i>Hay Point</i> Shoaling
767/2003	Aus249-250	Depth information
768/2003	Aus249-250	Scientific instrument
653/2002	Aus6	<i>Karumba</i> Depth information

84/2003	Aus6	Light buoy off station
578/2003	Aus6	Light characteristics altered
896/2003	Aus371-827-828-AU319147	<i>Keeper Reef</i> Obstruction southwestwards
347/2002	Aus252.....	<i>Laguna Quays</i> Reduced depth
894/2003	Aus366-819	<i>Llewellyn Reef</i> Wreck westwards
312/2002	Aus249-250	<i>Mackay</i> Harbour works
769/2003	Aus250.....	Depth information
731/2003	Aus372-373-830	<i>Maori Reef</i> Wreck
57/2004	Aus235.....	<i>Mooloolaba</i> Shoal; light buoy
77/2003	Aus236-237	<i>Moreton Bay</i> Light buoys
78/2003	Aus236-237	Harbour works
565/2003	Aus236-237	Harbour works
726/2003	Aus235-236	Dredging
892/2003	Aus235-236-237-238-814	<i>Moreton Bay and Brisbane River</i> Depth information and keel clearances
501/2003	Aus236.....	<i>Moreton Island</i> Buoy
413/2003	Aus258.....	<i>Mourilyan</i> Depth information
292/2003	Aus373-831	<i>Pickersgill Reef</i> Wreck northwards
667/2003	Aus252-825	<i>Pioneer Bay</i> Obstruction
87/2002	Aus249.....	<i>Pioneer River</i> Obstructions marked by light buoys
136/2003	Aus4-236-247-249-251-256-365-814-830-AU413141-417145	<i>Point Danger to Weipa</i> Scientific instruments
539/2000	Aus247.....	<i>Port Alma</i> Depth information
378/2002	Aus270.....	<i>Port Douglas</i> Depth information
778/2002	Aus294.....	<i>Red Island</i> Stranded wreck
853/2003	Aus294-839-AU499142	<i>Red Island Point</i> Shoaling
687/2001	Aus293-299	<i>Thursday Island</i> Depth information
270/1998	Aus256-257	<i>Townsville</i> Shoaling
807/2003	Aus256-257-AU420146-5_ _257	Depth information
848/2002	Aus4-AU413141-5_ _4P1....	<i>Weipa</i> Depth information

290/2003	Aus252-253-254-824	<i>Whitsunday Group</i> Light buoys
441/2003	Aus252-254	Light beacon destroyed; light buoy

SOUTH AUSTRALIA

548/2003	Aus137.....	<i>Adelaide</i> Depths
547/2003	Aus121.....	<i>Coffin Bay</i> Light altered
490/2002	Aus125-781	<i>Gleneig</i> Restricted areas; light buoys
678/2002	Aus347.....	<i>Goolwa</i> Dredging operations
815/2003	Aus139-781	<i>Gulf St Vincent</i> Wreck
452/2002	Aus127.....	<i>Margaret Brock Reef</i> Structure
95/2002	Aus137.....	<i>Port Adelaide</i> Shoaling
229/2002	Aus780-781	Mooring buoys westward
622/2002	Aus137.....	Obstruction
779/2003	Aus136-344-444-778	<i>Port Bonython</i> Light buoy unlit
580/2003	Aus134.....	<i>Port Lincoln</i> Wreck
780/2003	Aus780-781	<i>Port Vincent</i> Yachting buoys
700/2000	Aus120.....	<i>Thevenard</i> Light beacon altered; light buoy
815/2002	Aus344-444-778	<i>Yarraville Shoal</i> Light beacon destroyed; light buoy

TASMAN SEA

562/2003	Aus4602.....	<i>Norfolk Island to Wanganella Bank</i> Scientific instruments
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TASMANIA

57/2003	Aus163.....	<i>Burnie</i> Depth
704/2003	Aus163.....	Harbour works
254/2000	Aus173.....	<i>D'Entrecasteaux Channel</i> Fish farm
419/2002	Aus173.....	Light buoys
914/2003	Aus173.....	Spat collection permit; light buoys
583/2003	Aus164.....	<i>Devonport</i> Harbour works
258/2003	Aus356.....	<i>Georges Bay</i> Shoaling
858/2003	Aus173-795	<i>Great Bay</i> Spat lines; light buoys
263/2002	Aus172.....	<i>Hobart</i> Depth information
860/2003	Aus172.....	Harbour works

Huon River

89/2003	Aus173.....	Wreck; buoy
701/2003	Aus177.....	<i>Macquarie Harbour</i> Harbour works
421/2002	Aus171.....	<i>Marion Bay Narrows</i> Leading lights
550/2003	Aus170-355	<i>Mercury Passage to Coles Bay</i> Scientific instruments
420/2002	Aus171.....	<i>Norfolk Bay</i> Marine farm
680/2002	Aus171-173-174	<i>North West Bay</i> Marine farm research permit
679/2002	Aus173-174	<i>Pillings Bay</i> Marine farm
339/1997	Aus167.....	<i>Port Dalrymple</i> Shoal depth
672/2003	Aus167.....	Beacon destroyed
264/2002	Aus170.....	<i>Spring Bay</i> Depth information
859/2003	Aus171-173-795	<i>Storm Bay</i> Scientific instruments
850/2002	Aus312.....	TIMOR SEA <i>Sahul Banks</i> Scientific instruments
904/2003	Aus289-292-293-294-296-299-376-700-839-AU499142	TORRES STRAIT <i>Hammond Hill</i> Changes to tide gauge broadcast
903/2003	Aus292-293-700-AU499142	<i>Nardana Patches</i> Light beacon to be established; light buoy to be withdrawn
262/2002	Aus140-786	VICTORIA <i>Cape Sir William Grant</i> Obstruction; light buoys
342/1997	Aus181.....	<i>Corner Inlet</i> Shoaling
781/2003	Aus141-349	<i>Port Campbell</i> Pipeline southwards
857/2003	Aus349.....	Obstruction
774/1998	Aus143-157	<i>Port Phillip</i> Buoy off station
238/2001	Aus154.....	Harbour works
658/2001	Aus143-158	Prohibited area; special buoy
121/2002	Aus154.....	Harbour works
816/2002	Aus144-158	Beacon destroyed; buoy
818/2002	Aus143-144-155-158	Beacons and buoys; marine parks
861/2002	Aus157.....	Harbour works
114/2003	Aus143-144-158	Scientific instruments
221/2003	Aus143-144	Light buoy southwestwards
225/2003	Aus143-155	Harbour works
299/2003	Aus143-144-158	Shoaling
738/2003	Aus143-144-158	Harbour works
782/2003	Aus143-144-158	Shoaling; light buoy
817/2003	Aus154-157	Depth information
590/2001	Aus140.....	<i>Portland</i> Depth information

91/2001	Aus150-151	<i>Western Port</i>
819/2002	Aus150-151	Shoaling
646/2003	Aus150-151-801-850	Beacons and buoys; marine park
917/2003	Aus150-350-422-445B-801	Racon
		Light destroyed
WESTERN AUSTRALIA		
		<i>Barrow Island</i>
616/2003	Aus327-328-742-743	Scientific instruments
907/2003	Aus328-742	Scientific instruments northwestwards
		<i>Bunbury</i>
444/2003	Aus115.....	Obstruction
856/2003	Aus115-755	Wreck westwards
		<i>Dampier</i>
59/2004	Aus57-58-59	Scientific instrument
		<i>Dampier Archipelago</i>
508/2003	Aus327-741	Scientific instruments northward
		<i>Dongara</i>
546/2003	Aus333-752	Scientific instrument
		<i>Esperance</i>
54/2003	Aus119.....	Scientific instrument
		<i>Fremantle</i>
386/2002	Aus113.....	Depth information
384/2003	Aus112.....	Scientific instrument
509/2003	Aus114-117-754-AX70117 ..	Scientific instruments westward
		<i>Geraldton</i>
715/2002	Aus81	Buoys
716/2002	Aus81	Fish farm removed
383/2003	Aus81-751	Buoyage
617/2003	Aus81-751	Scientific instrument
776/2003	Aus81-751	Buoy
812/2003	Aus81-751	Buoyage
813/2003	Aus81-751	Prohibited area; precautionary area
		<i>Glomar Shoal</i>
297/2003	Aus327-415	Scientific instruments northwestwards
854/2003	Aus327-741	Scientific instruments northeastwards
		<i>Jurien Bay to Cape Naturaliste</i>
385/2002	Aus112-753-754-756	Scientific instruments
		<i>Montebello Islands</i>
855/2003	Aus328-415-416	Scientific instruments westward
		<i>Port Walcott</i>
58/2004	Aus55-56	Scientific instrument
		<i>Rottneest Island</i>
777/2003	Aus334-754	Scientific instruments northwestwards
		<i>Varanus Island</i>
488/2002	Aus327-328-742	Shoal
PAPUA NEW GUINEA		
809/2003		Lights
		<i>Adele Island</i>
511/2002	Aus382-4060-4604-4621	Light unlit
		<i>Admiralty Islands</i>
112/2003	Aus4622.....	Scientific instrument northward
		<i>Bougainville Island</i>
570/1999	Aus399-461-683-684-4060-4604-4622	Buoyage

810/2003	Aus381-382-383-568-630-4060-4604-4621	<i>Bright Island to Jomard Island</i> Lights destroyed
51/2003	Aus376-377-378-840-4620..	<i>Bristow Island</i> Light unlit
216/2003	Aus384-519-520	<i>Cape Nelson</i> Lights unlit
217/2003	Aus384-520-521-4620-4622	<i>Cape Nelson to Cape Ward Hunt</i> Lights unlit
588/2001	Aus625.....	<i>Kwato Eina Kaba Kwasi Shoal</i> Beacon destroyed
566/1999 194/2000	Aus523..... Aus385-523-4622	<i>Lae</i> Depth Light unlit
572/1999	Aus462-576-662-1604-4622	<i>Manus Island</i> Lights destroyed
195/2000 115/2002 82/2003	Aus547..... Aus674..... Aus547.....	<i>New Britain</i> Light beacons unlit Light beacons unlit Light beacons destroyed
571/1999	Aus666-667	<i>New Ireland</i> Light beacons destroyed
337/2001	Aus628.....	<i>Raven Channel</i> Light beacon unlit
193/2000	Aus379-380-505-620	<i>Redscar Bay to Port Moresby</i> Lights unlit and racon non operational
564/1999	Aus380-506-4604-4620-4621	<i>Rothery Passage</i> Light beacon destroyed
215/2003	Aus523-644-4620-4622	<i>Salamaua Harbour</i> Light unlit
110/2003	Aus381-630	<i>Shortland Reef</i> Light unlit
295/2003	Aus384-570-4621-4622	<i>Trobriand Islands</i> Lights unlit
83/2003	Aus651.....	<i>Wewak Harbour</i> Lights unlit
675/2003		MISCELLANEOUS Summer time

II

AMENDMENTS TO ADMIRALTY LIST OF LIGHT AND FOG SIGNALS VOLUME K 2003/04

Edition No 1 dated 9 January 2004.

Last Amendment: Edition No 26 dated 26 December 2003

1372	Liran. South Point	8 03-0 125 44-0	Fl(4) W 15s	82	23	Metal framework tower 20	Vis 049°-211°(162°), 235°-333°(98°) *
1662-5	- Broome. Ldg Lts 022°. New Main Jetty. Front	18 00-1 122 13-0	F Bu	16	6	Orange △ on tapered galvanised metal tower 12	
			*				
1662-51	---- Rear	18 00-1 122 13-0	F Bu	22	6	Orange ▽ on tapered galvanised metal tower 17	
			*				
1665	-- Pier. Root. Front	18 00-3 122 13-0	F R	5	3	Orange △, white stripe, on column NE	Neon. Occas. Tidal Signals 205m
	*		*				
1665-1	<i>Remove from List</i>						
1781-723	-	32 31-4 115 42-6	F Bu	12	4	...	Vis 134.2°-149.2°(15°)
*	*	*	*	*	*	*	*
3223-2	-	13 54-0 144 14-3	Fl W 7.5s	21	14	Beacon	Racon. (P) April 2004. Fl(3) G 6s 20m 3M (T) December 2003 - April 2004
			*	*	*		*
3235	- Diamond Reign Reefs	13 11-5 143 47-8	Q(3) W 10s		6	◊ on black buoy, yellow band	Racon
							*
3235-05	--	13 11-6 143 47-6	Fl(2) WRG 8s	21	14	Beacon	R 167°-174°(7°), W 174°-309°(135°), G 309°-328°(19°), W 328°-332°(4°), R 332°-350°(18°), W 350-167°(177°). Racon. (P) April 2004. Fl(3) G 6s 20m 3M (T) December 2003 - April 2004
*	*	*	*	*	*	*	*
3235-575	--	12 52-7 143 41-8	Fl(2) WR 8s	21	14	Beacon	R 112°-150°(38°), W 150°-327°(177°), R 327°-340°(13°), W 340°-112°(132°). (P) April 2004. Fl(3) R 6s 20m 3M (T) December 2003 - April 2004
*	*	*	*	*	*	*	*
3238	Wye Reef (COM)	12 48-4 143 36-5	Fl(3) W 15s	7	10	White GRP hut on white concrete column 6	(fl 1, ec 2) x 2, fl 1, ec 8. Ra refl
							*
3601-3	-- Dick Davey Shoal. Dir Lt 014°	40 13-8 148 16-9	Dir Iso WRG 5s	...	W 6 R 4 G 4	...	G215°-008° (153°), W008°-017°(9°), R017°-087°(70°). 2 unlit orange beacons with △, 60m from rear
			*				*
3601-35	- Franklin Sound	40 15-2 148 13-3	Fl R 3s	...	2	Red beacon	Vis 195-6°-018-3°(182-7°)
							*
4470	- S Breakwater. 145m from head	42 26-4 171 11-5	LFl W 10s	20	9	Mast	fl 3-5. Vis 016°-196°(180°). F R lights on radio mast 20M SSW
							*

Volume K *continued***4557** *Remove from List***4557-1** *Remove from List***4558** *Remove from List***4558-1** *Remove from List*

4624	- Foiata	18 42-9 174 08-4	Q(3) W 10s	59	10	Red metal framework tower	Vis 106°-154°(48°), 225°-072°(207°)
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*

4637	- Ha'afeva Island	19 57-5 174 41-3	Fl(4) W 12s	6	10	Pile
-------------	-------------------	---------------------	-------------	---	----	------

*

4644	- Ha'atufu	21 04-1 175 19-8	Fl(2) W 10s	44	10	Aluminium tower 27	<i>fl 0-8, ec 1-2, fl 0-8, ec 7-2</i>
-------------	------------	---------------------	-------------	----	----	-----------------------	---------------------------------------

*

5004-64	-- N	16 22-0 143 11-3	Fl R 2-5s	5	5	Red □ on red metal column <i>fl 0-5</i> 7
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*

5007-2 *Remove from List*

III

NAVIGATION WARNINGS

The following radio messages have been received during the period to 19 December 2003. Signal copies of these messages may be destroyed. It is recommended that the reprint of Navigational Warnings should be kept in a file or a book divided into areas. Cancellation should be made on receipt of signals and reprints.

Rigs on location other than those listed in the latest Section III summary are the subject of Radio Navigational Warnings. Rigs in transit will not be the subject of Warnings.

AUSCOAST WARNING

335 Cancelled.
336 Cancelled.
337 Cancelled.
338 NE Coast. Turtle Head tide gauge (10° 31'S 142° 13'E) unreliable when measured tidal height falls below 1 metre.
339 SW Coast. Cervantes starboard turning beacon K1756.7 (30° 29'.0 S 115° 03'.5 E) unlit.
340 Cancelled.
341 NE Coast. Sunk Reef buoy (12° 51'.35 S 143° 38'.40 E) unlit.

NAVAREA X WARNINGS

Nil issued.

Navigational warnings in force as at 180001UTC DEC 03.

Auscoast

159 211 224 287 301 303 304 305 306 307 312 321 325 328 333 334 338 339 341.

Navarea X

005 014 022 023 025 035 036 039 045.

Summary of mobile drilling rigs as at 180001UTC DEC 03.

Name	Position
Sedco 703	10° 35'.5 S 125° 57'.7 E
Ensco 104	11° 04'.2 S 126° 36'.8 E
Ocean Bounty	13° 54'.0 S 123° 09'.5 E
Ensco 56	20° 27'.2 S 115° 04'.2 E
Ocean Epoch	38° 36'.0 S 148° 17'.0 E

NAVAREA XIV WARNINGS

119 Cancelled.
120 Cancelled.

Navarea XIV warnings in force as at 180001UTC DEC 03.

108 111 113.

IV

HYDROGRAPHIC REPORTS

<i>Locality</i>	<i>Report</i>	<i>Ship/Authority</i>	<i>Observer</i>
NSW- Jervis Bay	Buoy	HMAS <i>Success</i>	

AMENDMENTS TO ADMIRALTY LIST OF RADIO SIGNALS 2004

Edition No 1 dated 9 January 2004

VOLUME 2, NP 282, 2003/04

Published BA Wk 11/03

(Last Amendments: Edition No 26 dated 26 December 2003)

RADAR BEACONS

Page 56, **TURKEY (Aegean Coast)** section, insert:

Kizil Ada Lt Racon 36°39'·27N 29°02'·63E **70740**
D

Turkish Notice 45/189/03 Ad51/03

Page 107, **ECUADOR** section, insert:

Bahía de Santa Elena Lt Buoy Racon 2°10'·08S 80°54'·85W **91745**
L

Ecuadorean Notice 3/8/03 Ad51/03

Page 107, **ECUADOR** section,:

91755 Archipiélago de Colón (Galapagos Islands) Sea Lt Buoy

Delete station

Ecuadorean Notice 3/8/03 Ad51/03

Page 120, **UNITED STATES (Atlantic Coast)** section,

97130 Constable Hook Reach Lt Buoy KV

Delete position 40°39'·02N 74°03'·86W and replace by: 40°38'·92N 74°03'·80W

US Chart 12333 Ad50/03

DIFFERENTIAL GPS (DGPS)

BEACONS TRANSMITTING DGPS CORRECTIONS

Pages 174 & 175, **SPAIN (Mediterranean Coast)**, delete Gata Lt, Cabo de entry. After Rota entry insert:

Sabinal Lt, Punta del	36°41'·37N 2°41'·95W	298·5	100	515 516	358	100		On trial	3 5 6 7 9 16
-----------------------	-------------------------	-------	-----	---------	-----	-----	--	----------	--------------

Spanish Correcciones a la Publicación de Radioseñales 47/2003 Ad51/03

Page 178, **UNITED STATES (Pacific Coast)**, after Whidbey Island Washington entry, delete the boxed note and replace by:

The United States Coast Guard Navigation Information Service (NIS), operated by the USCG Navigation Centre, provides information for all radionavigation systems. The NIS is staffed 24 hours a day, 7 days a week, providing information on the current operational status, effective policies, and general information for GPS, DGPS and Loran-C. The NIS also disseminates Safety Broadcasts (BNM), Local Notice to Mariners (LNM) and the latest Notice Advisory to Navstar Users (NANU). NANU notices can also be obtained via e-mail subscription through the USCG Navigation Centre website (<http://www.navcen.uscg.gov/gps/default.htm>). In addition, the NIS investigates all reports of degraded or loss of GPS, DGPS or Loran-C service. Mariners are encouraged to report all degradation of radionavigation services to the NIS via any of the following: Phone: +1 703 313 5900, e-mail: webmaster@navcen.uscg.mil, or on the World Wide Web at <http://www.navcen.uscg.gov>

US Correction to Section III, 47/2003 Ad51/03

V

LEGAL TIME

Page 199, **Brazil**, (i) Eastern (except ii) and (iii) Western (except iv), **Daylight Saving Time**, in **Ends** column, delete entry 13 Feb 2004 and replace by: 14 Feb 2004

OAG Worldwide Ad51/03

VOLUME 3, PART 2, NP 283(2), 2003/04

Published BA Wk 18/03

(Last Amendments: Edition No 26 dated 26 December 2003)

RADIO WEATHER SERVICES AND NAVIGATIONAL WARNINGS

Page 92, **CANADA (Pacific Coast)**, **NAVTEX [D] [H]** (Canadian Coast Guard), **Weather Bulletins** section, delete last 14 lines and replace by:

H: 0110 0510 0910 1310 1710 2110	Automated Station Weather Reports from: a) Cape S. James b) Cathedral Point c) Herbert Island d) Sartine Island e) Solander Island f) Sheringham Point g) Race Rocks h) Discovery Island Ocean Buoy Weather Reports from: a) West Sea Otter b) East Dellwood c) South Brooks d) La Perouse Bank
-------------------------------------	---

Canadian Coast Guard, MCTS Operations Centre, Amphitrite Point, BC Ad51/03

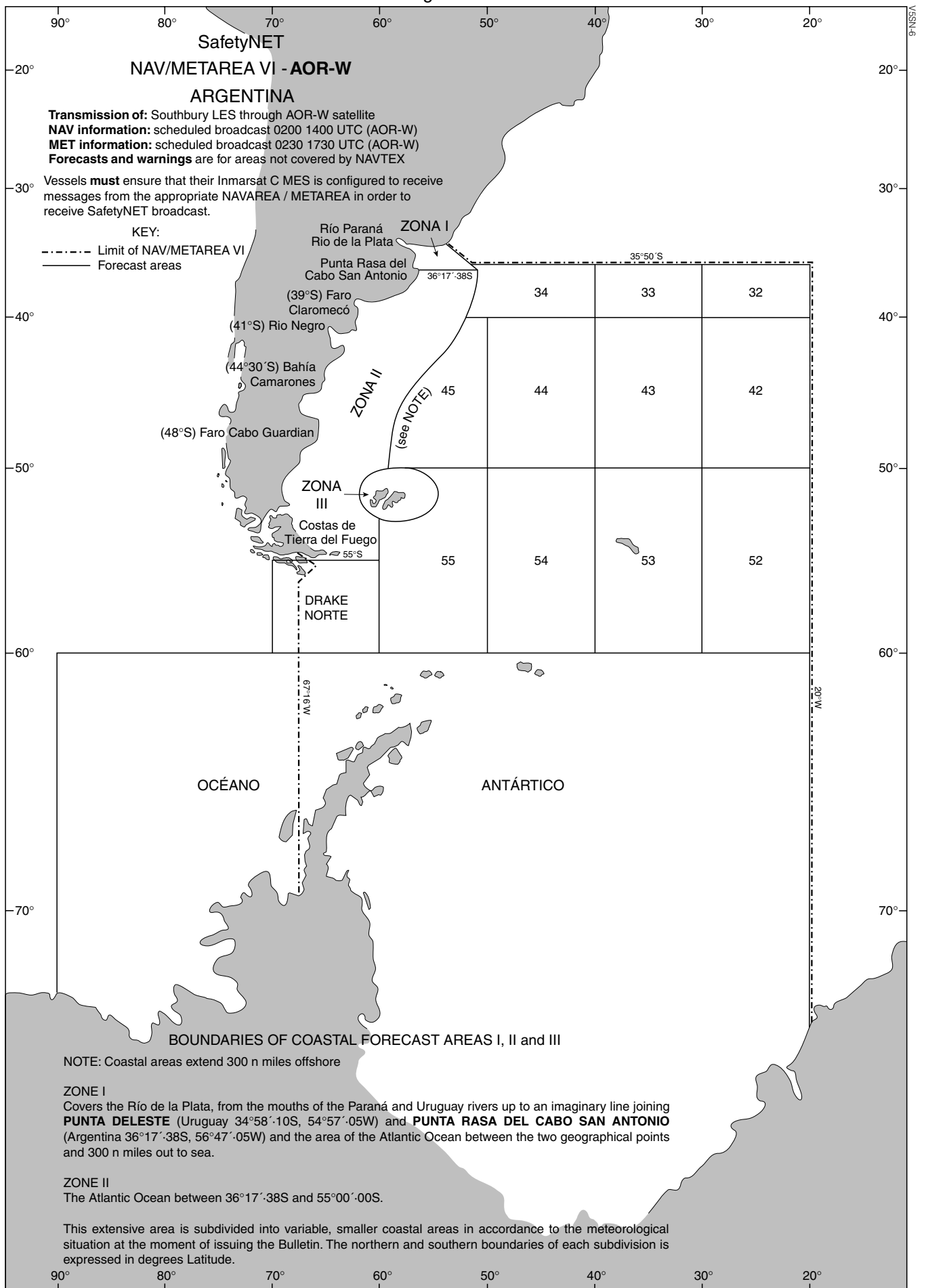
VOLUME 5, NP 285, 2003/04

Published BA Wk 23/03

(Last Amendments: Edition No 26 dated 26 December 2003)

Page 220, **Chapter 15: SAFETYNET**, Figure SN-6, delete diagram and replace with diagram on page 23

Servicio Meteorologico Nacional Ad50/03



VOLUME 6, PART 4, NP 286(4), 2003/04

Published BA Wk 37/03

*(Last Amendments: Edition No 26 dated 26 December 2003)*Page 117, **INDIA, OKHA****Pilots and Port, delete FREQUENCY and replace by:**

FREQUENCY: Ch 16

Port Officer, Okha Port Ad50/03

Page 207, **KOREA, SOUTH, ULSAN****Delete Port Traffic Management Service (PTMS) section and replace by:****Port Traffic Management Service (PTMS)**

CALL: Ulsan Port Service

FREQUENCY: Ch 14 16

HOURS: H24

PROCEDURE:

(1) Vessels should advise ETA 2h prior to arrival at Ulsan to receive berthing and/or anchoring information.

(2) Vessels should advise course and speed when 2 n miles from the port.

(3) Vessels requiring pilotage must also contact Ulsan Pilots at (1) and (2) above.

(4) Vessels must report before and after shifting.

(5) Vessels must report prior to departure to confirm identification and to receive navigational information.

(6) A continuous listening watch on VHF Ch 14 must be maintained when in the port area.

Ulsan Port Website Ad50/03

**ADMIRALTY LIST OF RADIO-SIGNALS CUMULATIVE LIST OF
ADMENDMENTS****CORRECT TO BA WK51/03**

This list is a summary of the entries in the current editions of the Admiralty List of Radio Signals which have had amendments issued in Section VI of the Weekly Edition of Admiralty Notices to Mariners.

The entries affected are shown in bold type followed by the numbers of the Weekly Editions in which amendments for that station were issued.

These summaries are issued on a quarterly basis.

VOLUME 1, PART 2, NP 281(2), 2003/04

Published BA Wk 29/03

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47

VOLUME 2, NP 282, 2003/04

Published BA Wk 11/03

RADIO DIRECTION-FINDING STATIONS

0001 11; 0752 39;

RADAR BEACONS

51210 12; 51440 26; 51530 34,38; 51680 34; 53620 27; 54010 11; 54015 11; 54750 30;
 54931 16; 54932 16; 54933 16; 54934 16; 55005 20,27; 55050 16; 55005 27; 55160 16;
 55676 11; 55775 33; 55815 33; 56300 30; 56690 36; 57700 11; 58200 13; 58620 34;
 58660 34; 63080 11; 63320 11; 63400 11; 63840 26; 65060 45; 65550 25; 67200 11,20;
 67240 17; 67280 28; 67645 21,31; 69910 31; 70700 21; 70710 46; 70720 46; 70730
 48; 70740 51; 71490 30; 71500 26; 71510 26; 71585 11; 72910 11; 73000 45; 73075 18;;
 73130 42; 74160 11; 74190 11; 74330 30; 77750 44; 78700 37; 80730 14; 80890 15; 81040
 11; 81140 11; 81645 11; 81665 11; 81820 31; 81960 11; 81970 11; 82165 11; 82300 42;
 82403 42; 82405 42; 82645 39; 82715 14,19; 85500 31; 85510 31; 85530 31; 85560 31;
 85580 31; 87060 11; 87510 25; 88211 19; 88214 32; 88215 19; 89490 20; 91745 51;
 91755 22,51; 91950 11,16; 92150 14; 92220 11; 92700 11; 94605 47; 94950 30; 95020
 12,46; 95420 12; 95450 12; 95890 11; 96180 25; 96350 19; 96750 15; 96820 20; 97130
 14,24,50; 97180 33;

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12,28

VOLUME 3, PART 2, NP 283(2), 2003/04

Published BA Wk 18/03

RADIO-FACSIMILE

BOSTON (NMF) 46 CASEY 24, CHILE 18, HONOLULU 29, NEW ORLEANS (U.S. Coast Guard) 27,30,39; RIO DE JANEIRO NAVAL 25; TŌKYŌ (JMH) 27;

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 AUSTRALIA 22,32,40,45
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Published BA Wk 23/03

Chapter 3: COMMUNICATIONS SYSTEMS FOR USE IN THE GLOBAL SYSTEM
 23,28,30,33,35,43,45,48

Chapter 9: VHF DSC, LIST OF COAST STATIONS FOR SEA AREA A1
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