



3 May 2013

Edition 9

Australian Notices to Mariners are the authority for correcting Australian Charts and Publications

AUSTRALIAN NOTICES TO MARINERS

Notices 441 – 492 

Published fortnightly by the Australian Hydrographic Service

Commodore B.K. BRACE RAN
Hydrographer of Australia

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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.

GENERAL INSTRUCTIONS

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

Bearings are referred to the true compass and are reckoned clockwise from North; 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.

REPORTING OF DANGERS

Mariners are particularly requested to notify the AUSTRALIAN HYDROGRAPHIC SERVICE, Locked Bag 8801 Wollongong, NSW 2500 (Fax 02-4223 6599, 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).

AUTHORISED USE

Copies of Australian notices are available free of charge from the Australian Hydrographic Service (AHS) website (www.hydro.gov.au) and through the eNotices (email) service (www.hydro.gov.au/enotices/enotices.htm).

Individual Notices may be copied for the purpose of inserting Notice substance on official charts and publications. Paper copies may be printed by chart agents and distributed to customers on a cost recovery basis. Participating chart agents are listed on the AHS website as providing a 'Paper Notices to Mariners' service (www.hydro.gov.au/prodserv/distributors/distributors.htm). Copies of the notices may not be sold for profit without prior written agreement.

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441 AUSTRALIA - Product

Australian Hydrographic Service (AA668034, AA668037)

New Chart

<i>Chart</i>	<i>Published</i>	<i>Title and description of amendments</i>	<i>Scale</i>	<i>Index Chart</i>	<i>Price</i>
Aus 203	3/5/2013	Australia - East Coast - New South Wales - Port Jackson (Western Sheet) - Parramatta and Lane Cove Rivers 33° 48'·93 S - 33° 52'·46 S 151° 03'·25 E - 151° 10'·50 E Plan: Parramatta River 33° 48'·70 S - 33° 49'·84 S 151° 00'·50 E - 151° 03'·64 E <i>New chart with amended limits and general updating throughout.</i>	1:10 000 1:10 000	Aus 5001	\$35.00

New Electronic Navigation Chart (Seafarer ENC)

<i>Cell Name</i>	<i>Released</i>	<i>Title</i>
AU5068P1	May 2013	Western Australia - North West Shelf - Cape Preston

New Chart to be published shortly

<i>Chart</i>	<i>Title</i>	<i>Scale</i>	<i>Expected Publication Date</i>
Aus 200	Australia - East Coast - New South Wales - Port Jackson Plan: Parramatta River	1:25 000 1:25 000	17 May 2013

New Edition to be published shortly

<i>Chart</i>	<i>Title</i>	<i>Scale</i>	<i>Expected Publication Date</i>
Aus 238	Australia - East Coast - Queensland - Brisbane River- Lytton Reach to Victoria Bridge Plan: Bulimba Reach Hamilton Reach South Brisbane Reach Town Reach and Shafston Reach	1:12 500 7 500 7 500 5 000 5 000	17 May 2013

For further details refer to the AHS website at www.hydro.gov.au for new edition and new chart stock arrival information.

When placing orders with a chart agent, mariners should advise whether their order pertains to the current edition or the new edition.

442 AUSTRALIA - Navigational warning service survey

Australian Maritime Safety Authority (AA666610)

The International Hydrographic Organization's World-Wide Navigational Warning Service (WWNWS) is conducting a survey concerning the quality of maritime safety information broadcast via SafetyNET and NAVTEX to identify measures to improve service. It provides an opportunity to comment on the quality of the content and reception of Navigational Warnings provided by each NAVAREA Coordinator. Please visit <http://www.needtopopulatethis.com> to complete the short survey. The World Meteorological Organization offers a similar survey regarding the World-Wide Meteorological Information and Warning Service available at: www.jcomm.info/mmms. Your participation is greatly appreciated and valued.

443 AUSTRALIA - AIS charting; amendment to ANTM No 17

Australian Hydrographic Service (AA668287, AA668288)

Given that AIS technology is increasingly being used for Aids to Navigation (AtoN) purposes, the IHO Hydrographic Services and Standards Committee considers that there is now a requirement to implement an interim solution to enable the encoding of Virtual AIS AtoN in ENC. Accordingly, the Australian Hydrographic Service will update both paper charts and ENC for all AIS AtoN. On paper charts all parts of the Virtual AIS AtoN symbol must be magenta, to distinguish it from a physical AtoN. Its position must therefore be identified on the chart by a small magenta position circle with central dot (ie magenta version of B22); see ANTM No 17.

Amendment to Australian Notice to Mariners No 17

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Substitute accompanying table**444* AUSTRALIA - NEW SOUTH WALES - Port Macquarie - Light***Former Notice - 141(P)/2013 is cancelled*

NSW Roads and Maritime Services Notice 1311/2013 (AA667484)

Aus 219 (plan, Port Macquarie) [1178/2011]

Amend	light to Oc.WRG.4s with sectors		
	Green 239° - 244° (5°)		
	White 244° - 249° (5°)		
	Red 249° - 269° (20°)	31° 25'.61 S	152° 54'.87 E

Aus 219 (plan, Hastings River)

Amend	light to Oc.WRG.4s with sectors		
	Green 239° - 244° (5°)		
	White 244° - 249° (5°)		
	Red 249° - 269° (20°)	31° 25'.61 S	152° 54'.87 E

445* AUSTRALIA - QUEENSLAND - Mourilyan Harbour - Maintained depth limit; light beacon; light

Ports North (AA667553, AA667554)

Aus 258 (plan, Mourilyan Harbour) [246/2013]

Insert	dashed line, between	17° 36'.042 S	146° 07'.725 E
		17° 36'.042 S	146° 07'.494 E
	light, F.G	17° 36'.082 S	146° 07'.278 E
Delete	dashed line, between	17° 36'.04 S	146° 07'.49 E
		17° 36'.08 S	146° 07'.57 E
	light beacon	17° 36'.10 S	146° 07'.57 E

446* AUSTRALIA - TORRES STRAIT - Alert Patches to Gannet Passage - AIS

Former Notice - 306(T)/2012 is cancelled

Australian Maritime Safety Authority ATH 5/2013 (AA666295)

Aus 292 [325/2013]

Insert	magenta circle with legend <i>AIS</i> , at light buoy	10° 28'.4 S	142° 22'.6 E
	magenta circle with legend <i>AIS</i> , at light buoy	10° 30'.2 S	142° 21'.5 E

Aus 293 [325/2013]

Insert	magenta circle with legend <i>AIS</i> , at light buoy	10° 28'.42 S	142° 22'.61 E
	magenta circle with legend <i>AIS</i> , at light buoy	10° 30'.16 S	142° 21'.50 E

Aus 296 [326/2013]

Insert	magenta circle with legend <i>AIS</i> , at light buoy	10° 35'.48 S	141° 52'.41 E
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Aus 700 [1246/2012]

Insert	magenta circle with legend <i>AIS</i> , at light buoy	10° 35'.5 S	141° 52'.4 E
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447* AUSTRALIA - NORTHERN TERRITORY - Darwin - Blaydin Point to Eastern Point - Light buoys

Darwin Port Corporation Notices 49/2013, 50/2013, 57/2013, 60/2013 (AA666708, AA666706, AA667670, AA668122)

Aus 24 [327/2013]

Insert	lit orange cylindrical mooring buoy, <i>Fl. Y. 3s</i>	12° 29'.914 S	130° 48'.808 E
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Delete	light buoy	12° 29'.93 S	130° 48'.87 E
	light buoy	12° 29'.49 S	130° 48'.67 E
	light buoy	12° 30'.13 S	130° 48'.70 E
	light buoy	12° 29'.79 S	130° 48'.50 E
	light buoy	12° 28'.08 S	130° 49'.77 E

Aus 26 [383/2013]

Insert	lit orange cylindrical mooring buoy, <i>Fl. Y. 3s</i>	12° 29'.91 S	130° 48'.81 E
	lit yellow cylindrical mooring buoy, <i>Fl. Y. 3s</i>	12° 29'.90 S	130° 55'.41 E

Delete	light buoy	12° 29'.9 S	130° 48'.9 E
	light buoy	12° 29'.5 S	130° 48'.7 E
	light buoy	12° 30'.1 S	130° 48'.7 E
	light buoy	12° 29'.8 S	130° 48'.5 E
	light buoy	12° 28'.1 S	130° 49'.8 E
	light buoy	12° 24'.3 S	130° 48'.1 E

Aus 28 [383/2013]

Insert	lit yellow cylindrical mooring buoy, <i>Fl. Y. 3s</i>	12° 29'.901 S	130° 55'.410 E
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AX 00026T [383/2013]

Insert	lit orange cylindrical mooring buoy, <i>Fl. Y. 3s</i>	12° 29'.91 S	130° 48'.81 E
	lit yellow cylindrical mooring buoy, <i>Fl. Y. 3s</i>	12° 29'.90 S	130° 55'.41 E

Delete	light buoy	12° 29'.9 S	130° 48'.9 E
	light buoy	12° 29'.5 S	130° 48'.7 E
	light buoy	12° 30'.1 S	130° 48'.7 E
	light buoy	12° 29'.8 S	130° 48'.5 E
	light buoy	12° 28'.1 S	130° 49'.8 E
	light buoy	12° 24'.3 S	130° 48'.1 E

448* AUSTRALIA - WESTERN AUSTRALIA - Barrow Island - Infrastructure; chart limits; light buoys

Australian Hydrographic Service (AA664141, AA665397, AA665398), Port of Barrow Notice 9/2013 (AA667489, AA667490, AA667584)

Aus 62 [384/2013]

Insert	accompanying block	20° 48'.8 S	115° 29'.0 E
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Aus 66 [384/2013]

Insert	north cardinal pillar light buoy, Q, with topmark	20° 48'.182 S	115° 28'.879 E
	east cardinal pillar light buoy, VQ(3)5s, with topmark	20° 48'.229 S	115° 28'.978 E
	south cardinal pillar light buoy, VQ(6)+LFI.10s, with topmark	20° 48'.303 S	115° 28'.975 E
	west cardinal pillar light buoy, VQ(9)10s, with topmark	20° 48'.218 S	115° 28'.851 E

449* AUSTRALIA - WESTERN AUSTRALIA - Bunbury to Geographe Bay - Artificial reefs

Department of Fisheries WA (AA668123)

Aus 115 [1031/2012]

Insert	fish haven with least depth, 12 ₉ , out of position	33° 18'.5 S	115° 35'.9 E
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Aus 334 [636/2012]

Insert	fish haven with least depth, 12 ₉ , centred on	33° 18'.50 S	115° 35'.90 E
	fish haven with least depth, 22 ₁ , centred on	33° 33'.96 S	115° 09'.98 E

Delete	depth, 14 ₃ m	33° 18'.2 S	115° 35'.8 E
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Aus 335 [890/2012]

Insert	fish haven with least depth, 12 ₉ , centred on	33° 18'.50 S	115° 35'.90 E
	fish haven with least depth, 22 ₁ , centred on	33° 33'.96 S	115° 09'.98 E

Delete	depth, 14 ₃ m	33° 18'.2 S	115° 35'.8 E
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Aus 755 [495/2012]

Insert	fish haven with least depth, 12 ₉ , centred on	33° 18'.50 S	115° 35'.90 E
	fish haven with least depth, 22 ₁ , centred on	33° 33'.96 S	115° 09'.98 E

Delete	depth, 25 ₆ m	33° 34'.0 S	115° 10'.4 E
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Aus 756 [728/2012]

Insert	fish haven with least depth, 22 ₁ , centred on	33° 33'.96 S	115° 09'.98 E
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Delete	depth, 25 ₆ m	33° 34'.0 S	115° 10'.4 E
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AX 00334S [636/2012]

Insert	fish haven with least depth, 12 ₉ , centred on	33° 18'.50 S	115° 35'.90 E
	fish haven with least depth, 22 ₁ , centred on	33° 33'.96 S	115° 09'.98 E

Delete	depth, 14 ₃ m	33° 18'.2 S	115° 35'.8 E
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AX 00755S [495/2012]

Insert	fish haven with least depth, 12 ₉ , centred on	33° 18'.50 S	115° 35'.90 E
	fish haven with least depth, 22 ₁ , centred on	33° 34'.0 S	115° 10'.0 E

Delete	depth, 25 ₆ m	33° 34'.0 S	115° 10'.4 E
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450* AUSTRALIA - WESTERN AUSTRALIA - Esperance - Light beacons

Esperance Ports Sea and Land (AA666322, AA666323)

Aus 119 (plan, Esperance) [292/2013]

Move	light beacon	33° 51'.94 S	121° 54'.23 E
	to	33° 51'.953 S	121° 54'.206 E
	light beacon	33° 52'.04 S	121° 54'.30 E
	to	33° 52'.051 S	121° 54'.263 E
Delete	light beacon	33° 52'.06 S	121° 54'.27 E

451* AUSTRALIA - SOUTH AUSTRALIA - Spencer Gulf - Cape Donington to Dangerous Reef - Depths

UKHO (AA665723)

Aus 343 [331/2013]

Substitute	depth, 14 ₆ m, enclosed by contour for depth, 15 ₇ m	34° 42'.7 S	136° 00'.4 E
	depth, 14 ₆ m, enclosed by contour for depth, 16m	34° 47'.8 S	136° 12'.1 E

Aus 485 [192/2013]

Substitute	depth, 14 ₆ m, for depth, 15 ₅ m	34° 42'.6 S	136° 00'.5 E
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Aus 776 [331/2013]

Insert	depth, 14 ₆ m, enclosed by contour	34° 42'.60 S	136° 00'.45 E
	depth, 15 ₇ m	34° 49'.58 S	136° 03'.93 E
	depth, 14 ₆ m, enclosed by contour	34° 47'.77 S	136° 12'.24 E
Delete	depth, 15 ₅ m	34° 42'.5 S	136° 00'.5 E
	depth, 16 ₇ m	34° 49'.6 S	136° 04'.0 E
	depth, 15 ₈ m	34° 47'.7 S	136° 12'.3 E

AX 00343S [331/2013]

Substitute	depth, 14 ₆ m, enclosed by contour for depth, 15 ₇ m	34° 42'.7 S	136° 00'.4 E
	depth, 14 ₆ m, enclosed by contour for depth, 16m	34° 47'.8 S	136° 12'.1 E

AX 00776S [331/2013]

Insert	depth, 14 ₆ m, enclosed by contour	34° 42'.60 S	136° 00'.45 E
	depth, 15 ₇ m	34° 49'.58 S	136° 03'.93 E
	depth, 14 ₆ m, enclosed by contour	34° 47'.77 S	136° 12'.24 E
Delete	depth, 15 ₅ m	34° 42'.5 S	136° 00'.5 E
	depth, 16 ₇ m	34° 49'.6 S	136° 04'.0 E
	depth, 15 ₈ m	34° 47'.7 S	136° 12'.3 E

452* AUSTRALIA - SOUTH AUSTRALIA - Spencer Gulf - Franklin Harbor to Hardwicke Bay - Marine farms

Primary Industries and Regions SA (DHDB 2351298)

Aus 133 (plan, Wallaroo) [192/2013]

Insert	dashed line, between	33° 55'.707 S	137° 30'.730 E
		33° 55'.597 S	137° 30'.864 E
		33° 55'.354 S	137° 32'.187 E
		33° 55'.475 S	137° 32'.191 E
		35° 55'.691 S	137° 32'.197 E
		33° 56'.085 S	137° 32'.210 E
		33° 56'.857 S	137° 31'.018 E
		33° 56'.951 S	137° 30'.730 E
Delete	dashed line, between	33° 55'.48 S	137° 32'.19 E
		33° 55'.69 S	137° 32'.20 E
	marine farm, centred on	33° 55'.8 S	137° 31'.6 E
	marine farm limit, centred on	33° 56'.2 S	137° 31'.1 E

452* AUSTRALIA - SOUTH AUSTRALIA - Spencer Gulf - Franklin Harbor to Hardwicke Bay - Marine farms
(continued)

Aus 133 (plan, Port Lincoln)

Insert	dashed line, between	34° 41'.600 S	135° 54'.397 E
		34° 41'.843 S	135° 54'.376 E
	dashed line, between	34° 41'.843 S	135° 54'.420 E
		34° 42'.948 S	135° 54'.107 E
		34° 43'.350 S	135° 54'.290 E

Delete	marine farm limit and symbol with legend (see Note), centred on	34° 42'.03 S	135° 54'.15 E
	marine farm limit and symbol with legend (see Note), centred on	34° 42'.55 S	135° 54'.26 E

Aus 343 [451/2013]

Delete	marine farm, centred on	34° 42'.4 S	136° 20'.5 E
	marine farm, centred on	34° 48'.5 S	136° 27'.8 E

Aus 485 [451/2013]

Insert	marine farm symbol with legend (see Note), centred on	33° 35'.0 S	137° 50'.0 E
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Aus 776 [451/2013]

Insert	dashed line, between	34° 51'.36 S	137° 20'.43 E
		34° 51'.06 S	137° 19'.54 E
		34° 49'.92 S	137° 19'.48 E
		34° 49'.45 S	137° 18'.78 E
		34° 48'.24 S	137° 18'.73 E
		34° 48'.24 S	137° 22'.72 E
		34° 51'.36 S	137° 22'.84 E
Delete	dashed line, between	34° 51'.4 S	137° 20'.4 E
		34° 51'.4 S	137° 22'.8 E
	marine farm, centred on	34° 29'.6 S	137° 23'.3 E
		34° 30'.4 S	137° 22'.6 E
		34° 42'.3 S	136° 20'.5 E
		34° 48'.4 S	136° 28'.0 E

Aus 777 [388/2013]

Insert	marine farm symbol with legend (see Note), centred on	34° 11'.37 S	136° 19'.59 E
	dashed line, between	33° 55'.47 S	137° 32'.19 E
		33° 55'.47 S	137° 32'.52 E
		33° 55'.68 S	137° 32'.52 E
		33° 55'.69 S	137° 32'.20 E
Delete	dashed line, between	33° 55'.5 S	137° 32'.2 E
		33° 55'.7 S	137° 32'.2 E
	marine farm, centred on	34° 29'.4 S	137° 23'.2 E

Aus 777 (plan, Franklin Harbor)

Insert	marine farm symbol with legend (see Note), centred on	33° 42'.13 S	136° 55'.66 E
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452* AUSTRALIA - SOUTH AUSTRALIA - Spencer Gulf - Franklin Harbor to Hardwicke Bay - Marine farms
(continued)

Aus 778 [139/2013]

Insert	dashed line, between	32° 52'.63 S	137° 49'.33 E
		32° 52'.63 S	137° 51'.39 E
		32° 57'.14 S	137° 51'.41 E
		32° 57'.14 S	137° 49'.35 E
		32° 56'.33 S	137° 49'.35 E
		32° 56'.33 S	137° 49'.14 E
		32° 53'.44 S	137° 49'.12 E
		32° 53'.44 S	137° 49'.33 E
		32° 52'.63 S	137° 49'.33 E
	marine farm symbol, centred on dashed line, between	33° 33'.3 S	137° 53'.4 E
		33° 33'.99 S	137° 52'.96 E
		33° 34'.08 S	137° 53'.23 E
		33° 36'.30 S	137° 51'.97 E
		33° 36'.13 S	137° 51'.59 E
		33° 33'.99 S	137° 52'.96 E
	dashed line and marine farm symbol with legend (see <i>Note</i>), between	33° 33'.76 S	137° 49'.18 E
		33° 35'.42 S	137° 51'.23 E
		33° 37'.45 S	137° 48'.13 E
		33° 35'.83 S	137° 46'.58 E
		33° 33'.76 S	137° 49'.18 E
	dashed line and marine farm symbol with legend (see <i>Note</i>), between	33° 37'.32 S	137° 50'.04 E
		33° 37'.53 S	137° 50'.29 E
		33° 38'.21 S	137° 49'.47 E
		33° 38'.65 S	137° 48'.53 E
		33° 38'.34 S	137° 48'.41 E
		33° 37'.32 S	137° 50'.04 E
	dashed line and marine farm symbol with legend (see <i>Note</i>), between	33° 39'.21 S	137° 47'.19 E
		33° 39'.63 S	137° 47'.57 E
		33° 40'.20 S	137° 46'.32 E
		33° 40'.63 S	137° 45'.66 E
		33° 40'.32 S	137° 45'.23 E
		33° 39'.58 S	137° 46'.02 E
		33° 39'.21 S	137° 47'.19 E
Move	marine farm symbol, centred on to	32° 53'.6 S	137° 49'.6 E
		32° 54'.5 S	137° 50'.4 E
AX 00343S [451/2013]			
Delete	marine farm, centred on	34° 48'.5 S	136° 27'.8 E
	marine farm, centred on	34° 42'.4 S	136° 20'.5 E
AX 00776S [451/2013]			
Insert	dashed line, between	34° 51'.36 S	137° 20'.43 E
		34° 51'.06 S	137° 19'.54 E
		34° 49'.92 S	137° 19'.48 E
		34° 49'.45 S	137° 18'.78 E
		34° 48'.24 S	137° 18'.73 E
		34° 48'.24 S	137° 22'.72 E
		34° 51'.36 S	137° 22'.84 E
Delete	dashed line, between	34° 51'.4 S	137° 20'.4 E
		34° 51'.4 S	137° 22'.8 E
	marine farm, centred on	34° 29'.6 S	137° 23'.3 E
	marine farm, centred on	34° 30'.4 S	137° 22'.6 E
	marine farm, centred on	34° 42'.3 S	136° 20'.5 E
	marine farm, centred on	34° 48'.4 S	136° 28'.0 E

453* AUSTRALIA - SOUTH AUSTRALIA - Spencer Gulf - Anchorage

Department of Planning, Transport and Infrastructure SA Notice 14/2013 (AA667067)

Aus 485 [452/2013]

Insert	anchorage area, between	33° 18'.9 S	137° 33'.0 E
		33° 20'.1 S	137° 37'.4 E
		33° 25'.5 S	137° 35'.4 E
		33° 24'.3 S	137° 31'.0 E
		33° 18'.9 S	137° 33'.0 E

Aus 778 [452/2013]

Insert	anchorage area, between	33° 18'.9 S	137° 33'.0 E
		33° 20'.1 S	137° 37'.4 E
		33° 25'.5 S	137° 35'.4 E
		33° 24'.3 S	137° 31'.0 E
		33° 18'.9 S	137° 33'.0 E

454* AUSTRALIA - VICTORIA - Port Phillip - Lonsdale Bay - Light beacons

Victorian Notice 53/2013 (AA667122)

Aus 144 [48/2013]

Move	light beacon	38° 16'.60 S	144° 37'.61 E
	to	38° 16'.599 S	144° 37'.612 E
	light beacon	38° 16'.87 S	144° 37'.73 E
	to	38° 16'.870 S	144° 37'.741 E
	light beacon	38° 17'.14 S	144° 37'.86 E
	to	38° 17'.134 S	144° 37'.867 E

455* AUSTRALIA - VICTORIA - Port Phillip - Princes Pier - Lights*Former Notice - 1100(T)/2010 is cancelled*

Victorian Notice 94(T)/2010 (AA496795, AA669156, AA669157)

Aus 154 [254/2013]

Insert	accompanying block	37° 50'.6 S	144° 55'.5 E
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456 CORAL SEA - Landsdowne Bank - Depth southwards

BA Notice 17/1813/2013 (AA667114)

Aus 4060 (INT 60) [256/2013]

Insert	depth, 34m	21° 23'.0 S	160° 46'.0 E
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Delete	depth, 48m	21° 10'.0 S	160° 48'.0 E
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Aus 4602 (INT 602) [582/2012]

Insert	depth, 34m	21° 23'.0 S	160° 46'.0 E
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Delete	depth, 48m	21° 19'.0 S	160° 44'.0 E
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Aus 4635 (INT 635) [1178/2012]

Insert	depth, 34m	21° 23'.0 S	160° 46'.0 E
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457(T)/2013 AUSTRALIA - NEW SOUTH WALES - Broken Bay - Barrenjoey Head - Light range reduced*Former Notice - 1318(T)/2010 is cancelled*

NSW Maritime (AA506509)

The light (33° 34'.82 S 151° 19'.79 E) has been temporarily altered to *F(4)20s 113m 12M*.

Chart temporarily affected - Aus 197 - Aus 204 - Aus 215 - Aus 489 - Aus 809 - Aus 4643 (INT 643) - AX 00215T - AX 00809S

458(T)/2013 AUSTRALIA - QUEENSLAND - Gold Coast - Nerang River - Harbour works*Date - Until 30 June 2014*

Maritime Safety Queensland Notice 327(T)/2013 (AA668391)

Construction works on the Gold Coast bridge are in progress.

The *F.Bu* lights in positions 27° 58'.62 S 153° 25'.27 E and 27° 58'.61 S 153° 25'.28 E are unlit.

Lateral light buoys will be positioned to guide vessels through the construction zone and beneath the relevant bridge navigation span as required.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 230

459(T)/2013 AUSTRALIA - QUEENSLAND - Moreton Bay - Brisbane River - Depth information

Former Notice - 340(T)/2013 is cancelled

Brisbane Port Corporation (AA669646)

Available depths and under keel clearances (UKC) at 2 May 2013:

<i>Berth</i>	<i>Metres</i>	<i>Remarks</i>
* Fisherman Islands No11	13.4	
Fisherman Islands No10	13.3	
Fisherman Islands No9	13.3	
Fisherman Islands No8	13.1	
Fisherman Islands No7	13.2	
* Fisherman Islands No6	13.7	
* Fisherman Islands No5	13.3	
* Fisherman Islands No4	13.3	
* Fisherman Islands No3	13.1	
* Fisherman Islands No2	13.0	
* Fisherman Islands No1	13.0	
* Fisherman Islands Grain and Woodchip	12.2	
* Caltex Fisherman Islands	14.4	
* Fisherman Islands Coal	13.6	
* Fisherman Islands General Purpose	10.7	
* BP Luggage Point	13.7	
* Caltex Products	9.8	
* Cement Australia Co Wharf	9.3	
* BP Products	9.8	
* Shell	9.9	
* Pacific Terminals	9.8	
* Incitec North	9.0	
* Incitec South	9.2	
* Pinkenba 1	10.1	
* Pinkenba 2	10.1	
Riverside Marina	-	
Sugar Terminal	9.9	
* Cairncross Fitting Out Wharf	7.4	
* Cairncross Breasting Wharf	5.5	
Brisbane Naval Wharf	4.3	
* Maritime No1	8.4	
Hamilton No4	10.1	
* Hamilton No1	8.6	
* Brisbane Cruise Ship Terminal	8.6	

	<i>Metres</i>	<i>UKC/Remarks</i>
<i>Moreton Bay:</i>		
North West Channel	15.0	2.3 (280m width)
North West Bypass Channel	9.2	1.6
Spitfire Channel	15.0	1.5 (600m width) Shoaling least depth, 14.6m, exists in position 27° 02'.39 S 153° 15'.66 E.
East Knoll Bypass Channel	6.0	1.4
East Channel	15.0	1.5 (300m width from western side)
Main Channel (M8 - M9)	10.0	1.8
Entrance Channel (E5 - EBCN)	14.7	1.5

<i>Brisbane River:</i>		
Outer Bar Cutting	13.9	1.46
Inner Bar Cutting	13.5	1.46
* Fisherman Islands Swing Basin	13.6	1.3
Pelican Banks Reach to Hamilton Reach	9.1	0.6 / 0.9 (draft/tide)
Cement Australia Swing Basin	9.1	0.6 / 0.9 (draft/tide)
Pinkenba Swing Basin	9.1	0.6 / 0.9 (draft/tide)
* Hamilton Swing Basin	8.4	0.6 / 0.9 (draft/tide)
* Indicates new or revised entry.		

Chart temporarily affected - Aus 235 - Aus 236 - Aus 237 - Aus 238 - Aus 814 - Aus 815

460(T)/2013 AUSTRALIA - QUEENSLAND - Moreton Bay - North East Channel - Light buoy repositioned*Former Notice* - 259(T)/2013 is cancelled*Date* - Until 24 May 2013

Maritime Safety Queensland Notice 322(T)/2013 (AA668447)

NE2 port lateral light buoy, *Fl.R.2-5s* (26° 57'.46 S 153° 20'.51 E), has been repositioned to 26° 57'.60 S 153° 20'.33 E.**Chart temporarily affected - Aus 235 - Aus 814 - Aus 815****461(T)/2013 AUSTRALIA - QUEENSLAND - Moreton Bay - Ship to ship transfer***Date* - Until 30 June 2013

Maritime Safety Queensland Notice 321(T)/2013 (AA668451)

Ship to ship transfer of LPG will be conducted at STS1 anchorage (27° 17'.25 S 153° 16'.56 E). An exclusion zone (1850 metres radius) exists around transfer operations.

Chart temporarily affected - Aus 236**462(T)/2013 AUSTRALIA - QUEENSLAND - Brisbane River - Aquarium Passage - Harbour works completed***Former Notice* - 697(T)/2012 is cancelled

Maritime Safety Queensland (AA668303, AA668304)

Note: this information has been incorporated in new edition Aus 238 to be published shortly.

Cancel this notice on receipt.

Chart formerly affected - Aus 238**463(T)/2013 AUSTRALIA - QUEENSLAND - Great Sandy Strait - Wreck**

Maritime Safety Queensland Notice 348(T)/2013 (AA669341)

A wreck exists in position 25° 32'.04 S 152° 55'.49 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 240 - Aus 241**464(T)/2013 AUSTRALIA - QUEENSLAND - Keppel Bay - Scientific instrument***Date* - Until 5 June 2013

Maritime Safety Queensland Notice 341(T)/2013 (AA668942)

A subsurface scientific instrument marked by 3 white poly floats exists in position 23° 27'.18 S 150° 55'.02 E.

Chart temporarily affected - Aus 247 - Aus 265 - Aus 819

465(T)/2013 AUSTRALIA - QUEENSLAND - Shoalwater Bay - Triangular Island - Live firing*Date - Until 27 May 2013*

Maritime Safety Queensland Notice 267(T)/2013 (AA664124)

Live firing activities will be conducted in the Shoalwater Bay training area during the period 11 to 26 May 2013.

A marine danger area extends to all waters within a 3M radius of position 22° 23'.0 S 150° 30'.3 E.

All waters, creeks, beaches and other areas within the declared marine danger area are not available for access.

Mariners are advised to keep clear of this area throughout the above times.

Chart temporarily affected - Aus 260 - Aus 367 - Aus 822 - AX 00260S - AX 00260T - AX 00367S - AX 00822S**466(T)/2013 AUSTRALIA - QUEENSLAND - Shoalwater Bay - Live firing completed***Former Notice - 346(T)/2013 is cancelled*

Maritime Safety Queensland Notice 266(T)/2013 (AA664121)

Cancel this notice on receipt.

Chart formerly affected - Aus 248 - Aus 367 - Aus 820 - AX 67248 - AX 00367S - AX 00820S**467(T)/2013 AUSTRALIA - QUEENSLAND - Hay Point - Diving operations***Former Notice - 347(T)/2013 is cancelled**Date - Until 30 June 2013*

Maritime Safety Queensland Notice 335(T)/2013 (AA668921)

Diving operations are in progress in the vicinity position 21° 15'.88 S 149° 18'.77 E.

MV *Shadows* is onsite and will display appropriate lights and shapes and will monitor VHF Ch 14 and Ch 16.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 249 - Aus 250 - AX 00249S**468(T)/2013 AUSTRALIA - QUEENSLAND - Cape Edgecumbe to Abbot Point - Scientific instruments recovered***Former Notice - 1032(T)/2011 is cancelled*

Maritime Safety Queensland (AA667524)

Cancel this notice on receipt.

Chart formerly affected - Aus 255 - Aus 825 - Aus 826**469(T)/2013 AUSTRALIA - QUEENSLAND - Cleveland Bay to Rowes Bay - Scientific instruments removed***Former Notice - 251(T)/2012 is cancelled*

Maritime Safety Queensland (AA667524)

Cancel this notice on receipt.

Chart formerly affected - Aus 256 - Aus 257 - Aus 827

470(T)/2013 AUSTRALIA - QUEENSLAND - Low Islets - AIS trial completed*Former Notice - 865(P)/2012 is cancelled*

Australian Maritime Safety Authority ATH 5/2013 (AA666295)

Cancel this notice on receipt.

Chart formerly affected - Aus 830 - Aus 831 - AX 6027S - Aus 4620 (INT 620) - AX 04620U**471(P)/2013 AUSTRALIA - QUEENSLAND - Hannibal Islands - Light altered***Date - On or about 3 May 2013*

Australian Maritime Safety Authority Preliminary ATH 09/2013 (AA668634)

The light (11° 35'.55 S 142° 56'.69 E) has been altered to *Fl(2)8s 28m 15M*.**Chart which will be affected - Aus 835 - Aus 4620 (INT 620) - Aus 4720 (INT 720) - AX 04620U - AX 04720U****472(T)/2013 PAPUA NEW GUINEA - Dampier Strait - Light beacon unlit**

National Maritime Safety Authority PNG Notice 18(T)/2013 (AA668923)

The light beacon, *Fl(2)10s 7m 10M* (5° 24'.15 S 148° 22'.17 E), is unlit.**Chart temporarily affected - Aus 386 - Aus 548 - Aus 673 - Aus 4603 (INT 603) - Aus 4604 (INT 604) - Aus 4622 (INT 622) - AX 04603U - AX 04604U****473(T)/2013 PAPUA NEW GUINEA - Djaul Island - Light unlit**

National Maritime Safety Authority PNG Notice 19(T)/2013 (AA668923)

The light, *Fl.10s 79m 10M* (3° 00'.04 S 150° 43'.57 E), is unlit.**Chart temporarily affected - Aus 392 - Aus 393 - Aus 543 - Aus 4060 (INT 60) - Aus 4604 (INT 604) - Aus 4622 (INT 622) - AX 04604U****474(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Cape Wessel to Cape Londonderry - Seismic survey completed***Former Notice - 408(T)/2013 is cancelled*

Seabird Exploration FZ-LLC (AA669411)

Cancel this notice on receipt.

Chart formerly affected - Aus 306 - Aus 309 - Aus 310 - Aus 311 - Aus 312 - Aus 315 - Aus 316 - Aus 318 - Aus 714 - Aus 716 - Aus 717 - Aus 718 - Aus 719 - Aus 725 - Aus 726 - Aus 727 - Aus 4720 (INT 720) - Aus 4721 (INT 721) - AX 00306U - AX 00309T - AX 00309U - AX 00310U - AX 00311U - AX 00312U - AX 00315U - AX 04720U - AX 04721U**475(T)/2013 AUSTRALIA - NORTHERN TERRITORY - Darwin - Scientific instrument recovered***Former Notice - 268(T)/2013 is cancelled*

Darwin Port Corporation Notice 66(T)/2013 (AA669373)

Cancel this notice on receipt.

Chart formerly affected - Aus 24

476(T)/2013 AUSTRALIA - NORTHERN TERRITORY - Darwin - East Arm - Blaydin Point - Harbour works*Former Notice - 352(T)/2013 is cancelled*

Darwin Port Corporation Notice 67(T)/2013 (AA669398)

Works associated with the construction of the module offloading facility are in progress in an area bounded by the following positions:

12° 30'.57 S 130° 55'.28 E
 12° 30'.29 S 130° 55'.63 E
 12° 30'.62 S 130° 55'.90 E
 12° 31'.02 S 130° 55'.99 E
 12° 31'.13 S 130° 55'.74 E.

An exclusion zone exists within the area of the works.

The causeway is marked at the extremities by Q.Y lights. A silt curtain marked by Q.Y lights exists around the causeway.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 26 - Aus 28 - AX 00026T

477(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - James Price Point - Scientific instruments recovered*Former Notice - 712(T)/2012 is cancelled*

MetOcean Engineers (AA669785)

Cancel this notice on receipt.

Chart formerly affected - Aus 324

478(P)/2013 AUSTRALIA - WESTERN AUSTRALIA - Port Hedland - Lights*Date - On or about 3 May 2013*

Port Hedland Port Authority, BHP Billiton (AA669057)

Leading lights have been altered/established as follows:

<i>Position</i>	<i>Characteristic</i>	<i>Remarks</i>
20° 18'.69 S 118° 34'.04 E	F.R.15m	Mazda rear moved
20° 18'.95 S 118° 34'.04 E	F.R.40m	Utah rear common with new Shelf rear and Airey front
20° 19'.01 S 118° 34'.15 E	F.R.18m	Utah front moved; bearing 297.8°
20° 19'.02 S 118° 34'.15 E	F.R.18m	Shelf front new light; bearing 302°
20° 19'.04 S 118° 33'.96 E	F.R.44m	Leslie rear new light common with Airey rear
20° 19'.06 S 118° 34'.04 E	F.R.37m	Leslie front new light; bearing 287.7°
20° 20'.00 S 118° 35'.38 E	F.R.15m	Smith Point rear moved
20° 19'.95 S 118° 35'.35 E	F.R.11m	Smith Point front moved.

Leading lights in positions 20° 19'.15 S 118° 33'.83 E and 20° 19'.16 S 118° 33'.93 E have been discontinued.

A new edition of Aus 54 is in production.

Chart which will be affected - Aus 54

479(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Port Walcott - Scientific instrument recovered*Former Notice - 126(T)/2012 is cancelled*

Department of Transport WA (AA669689)

Cancel this notice on receipt.

Chart formerly affected - Aus 55 - Aus 56

480(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Cape Preston - Drilling operations

Date - Until 20 June 2013

Department of Transport WA Notice 64/2013 (AA668443)

Jack-up barge *Driller 1* and support vessel *Southern Image* are conducting drilling operations in the following positions:

20° 50'.52 S 116° 13'.38 E
 20° 50'.44 S 116° 13'.39 E
 20° 50'.35 S 116° 13'.40 E
 20° 50'.22 S 116° 13'.41 E
 20° 50'.12 S 116° 13'.42 E
 20° 50'.01 S 116° 13'.43 E
 20° 49'.89 S 116° 13'.45 E
 20° 49'.61 S 116° 13'.45 E
 20° 49'.34 S 116° 13'.48 E
 20° 49'.33 S 116° 13'.23 E.

Vessels will display appropriate lights and shapes and will monitor VHF Ch 16.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 68 - Aus 742 - Aus 743**481(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Barrow Island - Drill rig westwards**

Former Notice - 420(T)/2013 is cancelled

Date - Until 4 July 2013

Australian Maritime Safety Authority Auscoast Warning 110/2013 (AA666329), MODU *Ocean America* (AA666330)Drill rig *Ocean America* is conducting drilling operations in position 20° 45'.41 S 114° 44'.00 E.**Chart temporarily affected - Aus 328 - Aus 4723 (INT 723) - AX 04723U****482(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Exmouth Plateau - Scientific instruments recovered**

Former Notice - 362(T)/2012 is cancelled

MetOcean Engineers (AA667665)

Cancel this notice on receipt.

Chart formerly affected - Aus 328 - Aus 329**483(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Serrurier Island - Scientific instruments**

Date - Until 31 May 2013

MetOcean Engineers (AA667665)

Scientific instruments exist as follows:

Position	Remarks
21° 39'.19 S 114° 40'.86 E	FI(5)Y.20s
21° 39'.22 S 114° 40'.90 E	5 poly floats.

Chart temporarily affected - Aus 328 - Aus 743 - Aus 744**484(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - North West Cape - Drill rig northwards**

Former Notice - 431(T)/2013 is cancelled

Date - Until 18 May 2013

BHP Billiton Petroleum Pty Ltd (AA669844)

Drill rig *Nan Hai 6* is conducting drilling operations in position 21° 31'.63 S 114° 05'.16 E.**Chart temporarily affected - Aus 328 - Aus 329 - Aus 744**

3 May 2013

485(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - North West Cape - Drill rig northwestwards*Former Notice* - 226(T)/2013 is cancelled*Date* - Until 12 July 2013Australian Maritime Safety Authority Auscoast Warning 125/2013 (AA668838), MODU *Atwood Eagle* (AA668632)Drill rig *Atwood Eagle* is conducting drilling operations in position 20° 57'.49 S 113° 05'.67 E.**Chart temporarily affected - Aus 329 - Aus 4723 (INT 723) - Aus 4725 (INT 725) - AX 04723U****486(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Port Gregory - Shoaling**

Department of Transport WA Notice 66/2012 (AA668957)

Shoaling, with a least depth of 0.1m, exists adjacent to the jetty (28° 11'.44 S 114° 14'.95 E).

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 84**487(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Pelsaert Bank - Seismic survey completed***Former Notice* - 434(T)/2013 is cancelled

S2V Consulting Pty Ltd (AA669441)

Cancel this notice on receipt.

Chart formerly affected - Aus 333 - Aus 752 - Aus 753**488(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Pelsaert Bank - Seismic survey***Date* - Until 15 May 2013

S2V Consulting Pty Ltd (AA669441)

MV *Western Trident*, with a 8000m towed array, support vessels MV *Pacific Crest* and MV *Ando* and guard vessels MV *Kuri Pearl II* and MV *Clive James* are conducting a survey in the area bounded by the following positions:

28° 52'.15 S 114° 10'.26 E

29° 02'.03 S 114° 39'.27 E

29° 32'.60 S 114° 52'.35 E

30° 01'.96 S 114° 50'.00 E

30° 12'.91 S 114° 41'.96 E

29° 55'.64 S 114° 02'.02 E.

Chart temporarily affected - Aus 332 - Aus 333 - Aus 751 - Aus 752 - Aus 753**489(P)/2013 AUSTRALIA - WESTERN AUSTRALIA - Emu Point - Light established***Date* - On or about 31 July 2013

Albany Port Authority Notice 1(P)/2013 (AA663443)

A light *Iso.WRG.2s 10m 11M* with sectors Red 167° - 164.5° (2.5°), White 164.5° - 160.5° (4°), Green 160.5° - 158° (2.5°) has been established in position 34° 59'.96 S 117° 56'.76 E. This light will be trialled for three months.**Chart which will be affected - Aus 110 - Aus 118 - AX 00110S - AX 00118S****490(T)/2013 AUSTRALIA - SOUTH AUSTRALIA - Gulf St Vincent - Scientific instrument recovered***Former Notice* - 363(T)/2013 is cancelled

Defence Science and Technology Organisation (AA663625)

Cancel this notice on receipt.

Chart formerly affected - Aus 780 - Aus 781

3 May 2013

491(T)/2013 AUSTRALIA - VICTORIA - Port Phillip - Port Melbourne - Station Pier - Harbour works*Date* - Until 14 May 2013

Victorian Notice 61(T)/2013 (AA669337)

Works associated with the remediation of the lighthouse (37° 50'.53 S 144° 55'.76 E) are in progress.

A barge is onsite and will display appropriate lights.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 154**492(P)/2013 AUSTRALIA - VICTORIA - Corner Inlet - Lighthouse Point - Light buoys; light bearing to be altered***Date* - On or about 6 May 2013

Victorian Notice 60(P)/2013 (AA669338)

The light *Fl.5s 36m 17M & Dir Fl.WRG.3s 35m 9M* (38° 50'.54 S 146° 28'.46 E (WGS84 datum)), will be altered to a centreline bearing of 278° with sectors Green 273° - 277° (4°), White 277° - 279° (2°), Red 279° - 283° (4°).

No1 light buoy (38° 51'.19 S 146° 35'.70 E) will be repositioned to 38° 51'.24 S 146° 35'.69 E.

No3 light buoy (38° 51'.03 S 146° 34'.02 E) will be repositioned to 38° 51'.09 S 146° 34'.11 E.

Chart which will be affected - Aus 181 - Aus 357 - Aus 802

HYDROGRAPHIC REPORTS

<i>Locality</i>	<i>Report</i>	<i>Ship/Authority</i>	<i>Observer</i>
AHS- Product	Block missing		G Falconer
WA- Ashburton Road	Nomenclature		J Silberberg

NAVIGATION WARNINGS

The following radio messages have been received during the period to 3 May 2013. 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

- 120 Cancelled.
- 121 Virtual AIS aid to navigation isolated danger mark MMSI No 995036058 established on trial at Pearn Rock 11° 25'.35 S 142° 56'.25 E.
- 122 Virtual AIS aid to navigation south cardinal mark MMSI No 995036057 established on trial at Reeves Shoal 10° 31'.62 S 142° 26'.80 E.
- 123 Virtual AIS aid to navigation isolated danger mark MMSI No 995036059 established on trial at Singleton Patch 14° 09'.7 S 144° 37'.8 E.
- 124 Cancelled.
- 125 Drill rig *Atwood Eagle* in position 20° 57'.49 S 113° 05'.67 E. 2.5M clearance requested.
- 126 Special purpose vessel Highland Navigator conducting pipeline dewatering operations in position 20° 27'.55 S 114° 50'.53 E, between 25 APR 13 and 28 APR 13. All vessels operating within 3M of this position are advised to shut down water making equipment during this period.
- 127 Nardana Patches current meter in position 10° 30'.28 S 142° 14'.63 E temporarily discontinued.
- 128 Port Walcott light buoy in position 20° 25'.84 S 117° 22'.84 E unlit.

NAVAREA X WARNINGS

- 019 Cancelled.
- 020 Cancelled.
- 021 Cancelled.
- 022 Cancelled.

Navigational warnings in force as at 030001UTC MAY 13.**Auscoast****2012** 318**2013** 014 019 024 026 028 063 069 070 075 082 088 091 096 098 099 100 103 105 107 109 110 111 116 118 121 122 123 125 126 127 128**Navarea X****2013** 018**Summary of mobile drilling rigs as at 030001UTC MAY 13.**

<i>Name</i>	<i>Position</i>
Jack Bates	13° 24'.93 S 123° 18'.21 E
Transocean Legend	13° 44'.28 S 122° 20'.13 E
Ensco 109	20° 00'.38 S 115° 38'.29 E
Atwood Falcon	20° 04'.23 S 115° 11'.03 E
Ensco 104	21° 19'.51 S 115° 06'.45 E
Atwood Osprey	20° 24'.30 S 114° 50'.57 E
Ocean America	20° 45'.41 S 114° 44'.00 E
Deepwater Frontier	19° 47'.59 S 114° 38'.93 E
Nan Hai 6	21° 32'.10 S 114° 09'.30 E
Noble Clyde Boudreaux	22° 05'.20 S 113° 10'.85 E
Atwood Eagle	20° 57'.49 S 113° 05'.67 E

NAVAREA XIV WARNINGS

Nil.

Navarea XIV warnings in force as at 030001UTC MAY 13.**2013** 026 027**2012** 076

To accompany Australian Notice to Mariners 443/2013

INT 1 Reference	Description	Symbol
D 17b	Helicopter Landing Site	
J 21	Approximate Rock Reef	
J 21	Rock Symbol	
J 22	Approximate Coral Reef	
J 22	Areas Considered to be Coral Reef	
J 22	Areas of possible shoaling	
J 22	Coral Pinnacle	
L 17	Moored Storage Tanker	
M	Preferred Route	
K 48.1	Marine Farm	
U 3	Visitors Mooring	
N	Ship Reporting System	
	Virtual Aids to Navigation	

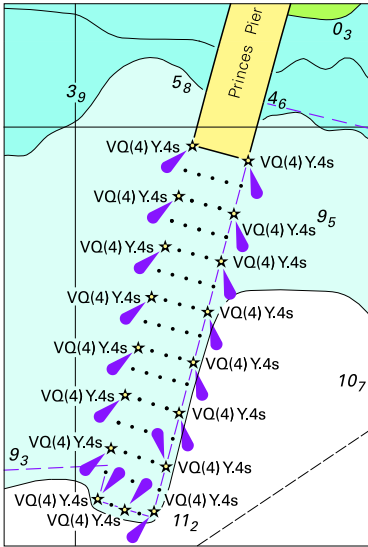
Datum of Soundings

Heights in metres above datum				
MHWS	MHWN	MSL	MLWN	MLWS
3-1	2-1	1-7	1-4	0-5
4-1	2-8	2-4	2-0	0-7
2-9	2-0	1-7	1-4	0-5

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(228.9 × 150.9mm)

To accompany Australian Notice to Mariners 455/2013



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Block for chart Aus 154 (48.3 x 71.7mm)