



20 September 2013

Edition 19

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

AUSTRALIAN NOTICES TO MARINERS

Notices 941 - 992



Published fortnightly by the Australian Hydrographic Service

Commodore B.K. BRACE RAN
Hydrographer of Australia

SECTIONS.

- I. Australian Notices to Mariners, including blocks and notes.
- II. Hydrographic Reports.
- III. Navigational Warnings.

SUPPLEMENTS.

- I. Tracings
- II. Cumulative List of Australian Notices to Mariners.
- III. Cumulative List of Temporary and Preliminary Australian Notices to Mariners.
- IV. Temporary and Preliminary Notices in force.
- V. Amendments to Admiralty List of Lights and Fog Signals (Vol K), Radio Signals (NP 281(2), 282, 283(2), 285, 286(4)) and Sailing Directions (NP 9, 13, 14, 15, 33, 34, 35, 36, 39, 44, 51, 60, 61, 62, 100, 136).

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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.

NUMERICAL INDEX OF NOTICES TO MARINERS

Edition No 19

Notices	Aus Chart, INT Chart, ENC Cell, AHP, BA Pubs
941	Aus 63
942	Amendment to Australian National Tide Tables 2014
943	Amendment to Australian Notice to Mariners No 2
944	Summer time
945	Aus 812
946	Aus 200, 202, AX 00202T
947	Aus 194, 195
948	Aus 262, 830, AX 63262, AXA 0830T
949	Aus 834, 835, 836
950	Aus 244, 245
951	Aus 230
952	Aus 293, 299
953	Aus 240, 241
954	Aus 256, 827
955	Aus 235, 236
956	Aus 521
957	Aus 683
958	Aus 20, 26, 309, 722, AX 00026T, 00309U, 00309T, 00722T
959	Aus 26, 27, 29, AX 00026T
960	Aus 55, 56
961	Aus 143, 155
962	Aus 173, 795
963	Aus 766
964	Aus 171
965	Aus 168
966(T)	Aus 196, 198, 199
967(T)	Aus 220, 222, 812, 813
968(T)	Aus 193, 807, 808, AX 00193T, 00808S, 67192, AXA 0193T
969(T)	Aus 193, 489, 806, 807, 808, 4643, INT 643, AX 00193T, 00808S, 6031S, 6031G, AXA 0193T
970(T)	Aus 242, 243
971(T)	Aus 263, 264
972(T)	Aus 262, AX 63262
973(P)	Aus 244, 245
974(T)	Aus 244, 245
975(T)	Aus 258, 828, 829
976(T)	Aus 235
977(T)	Aus 235, 236, 237, 238, 814, 815
978(T)	Aus 248, 367, 820, 822, AX 00367S, 00820S, 00822S
979(T)	Aus 260, 261, 367, 822, AX 00260T, 00260S, 00367S, 00822S, 67261
980(T)	Aus 4620, 4621, INT 620, 621, AX 04620U, 04621U
981(T)	Aus 397, 398, 554, 668, 4060, 4604, 4622, INT 60, 604, 622, AX 04604U
982(T)	Aus 378, 4620, INT 620, AX 04620U
983(T)	Aus 292, 293, 299, 700
984(T)	Aus 24, 26, 28, AX 00026T
985(P)	Aus 24, 26, AX 00026T
986(T)	Aus 26, 28, AX 00026T
987(T)	Aus 24, 26, AX 00026T
988(T)	Aus 327, 4723, INT 723, AX 04723U
989(T)	Aus 4708, 4714, 4723, INT 708, 714, 723, AX 04708U, 04714U, 04723U
990(T)	Aus 154
991(P)	Aus 143, 158
992(T)	Aus 164

NUMERICAL INDEX OF CHARTS AFFECTED

Edition No 19

Aus Chart	Notices
Aus 20	958
Aus 24	984(T), 985(P), 987(T)
Aus 26	958, 959, 984(T), 985(P), 986(T), 987(T)
Aus 27	959
Aus 28	984(T), 986(T)
Aus 29	959
Aus 55	960
Aus 56	960
Aus 63	941
Aus 143	961, 991(P)
Aus 154	990(T)
Aus 155	961
Aus 158	991(P)
Aus 164	992(T)
Aus 168	965
Aus 171	964
Aus 173	962
Aus 193	968(T), 969(T)
Aus 194	947
Aus 195	947
Aus 196	966(T)
Aus 198	966(T)
Aus 199	966(T)
Aus 200	946
Aus 202	946
Aus 220	967(T)
Aus 222	967(T)
Aus 230	951
Aus 235	955, 976(T), 977(T)
Aus 236	955, 977(T)
Aus 237	977(T)
Aus 238	977(T)
Aus 240	953
Aus 241	953
Aus 242	970(T)
Aus 243	970(T)
Aus 244	950, 973(P), 974(T)
Aus 245	950, 973(P), 974(T)
Aus 248	978(T)
Aus 256	954
Aus 258	975(T)
Aus 260	979(T)
Aus 261	979(T)
Aus 262	948, 972(T)
Aus 263	971(T)
Aus 264	971(T)
Aus 292	983(T)
Aus 293	952, 983(T)
Aus 299	952, 983(T)
Aus 309	958
Aus 327	988(T)
Aus 367	978(T), 979(T)
Aus 378	982(T)
Aus 397	981(T)

Aus Chart	Notices
Aus 398	981(T)
Aus 489	969(T)
Aus 521	956
Aus 554	981(T)
Aus 668	981(T)
Aus 683	957
Aus 700	983(T)
Aus 722	958
Aus 766	963
Aus 795	962
Aus 806	969(T)
Aus 807	968(T), 969(T)
Aus 808	968(T), 969(T)
Aus 812	945, 967(T)
Aus 813	967(T)
Aus 814	977(T)
Aus 815	977(T)
Aus 820	978(T)
Aus 822	978(T), 979(T)
Aus 827	954
Aus 828	975(T)
Aus 829	975(T)
Aus 830	948
Aus 834	949
Aus 835	949
Aus 836	949
Aus 4060	981(T)
Aus 4604	981(T)
Aus 4620	980(T), 982(T)
Aus 4621	980(T)
Aus 4622	981(T)
Aus 4643	969(T)
Aus 4708	989(T)
Aus 4714	989(T)
Aus 4723	988(T), 989(T)
AX 00026T	958, 959, 984(T), 985(P), 986(T), 987(T)
AX 00193T	968(T), 969(T)
AX 00202T	946
AX 00260S	979(T)
AX 00260T	979(T)
AX 00309T	958
AX 00309U	958
AX 00367S	978(T), 979(T)
AX 00722T	958
AX 00808S	968(T), 969(T)
AX 00820S	978(T)
AX 00822S	978(T), 979(T)
AX 04604U	981(T)
AX 04620U	980(T), 982(T)
AX 04621U	980(T)
AX 04708U	989(T)
AX 04714U	989(T)
AX 04723U	988(T), 989(T)
AX 6031G	969(T)

Aus Chart	Notices
AX 6031S	969(T)
AX 63262	948, 972(T)
AX 67192	968(T)
AX 67261	979(T)
AXA 0193T	968(T), 969(T)
AXA 0830T	948

INT Chart	Notices
INT 60	981(T)
INT 604	981(T)
INT 620	980(T), 982(T)
INT 621	980(T)
INT 622	981(T)
INT 643	969(T)
INT 708	989(T)
INT 714	989(T)
INT 723	988(T), 989(T)

941 AUSTRALIA - Product
UKHO (AA695149)

New Edition

Note: The New Edition of Aus 63 has been postponed.

Admiralty publication

<i>NP No</i>	<i>Title</i>	<i>Date</i>	<i>Remarks</i>
NP281(2)	Admiralty List of Radio Signals. Maritime Radio Stations. The Americas, Far East and Oceania.	19/09/2013	The 2012/13 edition is cancelled.

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.

942 AUSTRALIA - Product - Amendment to Australian National Tide Tables 2014

Australian Hydrographic Service (AA694598, AA694601, AA694602)

Page xxx

Amend Brisbane Bar To Chart Datum AUS 237 NC 26 JUL 2013 0.0

Page xxxi

Insert Cocos Islands Bar To Chart Datum AUS 606 NE 09 AUG 2013 0.0

Amend

Cocos Islands Bar To Chart Datum AUS 607 NE 09 AUG 2013 0.0

Page xxxvi

Amend Port Walcott To Chart Datum AUS 56 NE 09 AUG 2013 0.0

Pages 194-196

Substitute accompanying pages 194-196

Pages 200-202

Substitute accompanying pages 200-202

Page 384

Amend East Moncoeur I. (Port No 60615) To Chart Datum to 0.0
Curtis I. (Port No 60617) To Chart Datum to 0.0

943 AUSTRALIA - Product - Amendment to Australian Notice to Mariners No 2

Australian Hydrographic Service (AA695487)

Page 14

Amend Thomas Gunn Singapore Pte Ltd details to read:

Thomas Gunn Singapore Pte Ltd

2 Boon Leat Terrace

#05-02/03 Harbourside Building 2

Singapore 119844

Telephone

(65) 6602 9610

N

Fax

(65) 6276 3856

Email

info@thomasgunn.sg

Website

www.thomasgunn.com

944 AUSTRALIA - Summer time

Australian Government (AA695475)

Clocks will be advanced one hour at 0200 local time on 6 OCT 2013 and retarded one hour on 6 APR 2014 in the Australian Capital Territory, New South Wales, South Australia, Victoria and Tasmania.

No changes will be made in Queensland, Northern Territory and Western Australia.

945* AUSTRALIA - NEW SOUTH WALES - Pimpernel Rock - Light buoy

Department of Sustainability, Environment, Water, Population and Communities (AA694197)

Aus 812 [1175/2012]

Insert out of position special spar light buoy, *Fl. Y. 4s*, without topmark

29° 41'.88 S

153° 23'.86 E

946* AUSTRALIA - NEW SOUTH WALES - Port Jackson - Garden Island - Mooring buoys*Former Notice - 593(T)/2013 is cancelled*

Department of Defence (AA683136, AA687233)

Aus 200 [673/2013]

Insert	accompanying block	33° 51'.7 S	151° 14'.3 E
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Aus 202 [540/2013]

Insert	accompanying block	33° 51'.7 S	151° 14'.3 E
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AX 00202T [540/2013]

Insert	accompanying block	33° 51'.7 S	151° 14'.3 E
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947* AUSTRALIA - NEW SOUTH WALES - Port Kembla - Virtual AIS

Port Kembla Port Corporation Notice 10/2011 (AA695042)

Aus 194 [928/2012]

Insert	north cardinal virtual AIS	34° 27'.000 S	150° 55'.700 E
	south cardinal virtual AIS	34° 27'.783 S	150° 55'.667 E
	north cardinal virtual AIS	34° 28'.600 S	150° 56'.050 E
	special virtual AIS	34° 27'.967 S	150° 56'.717 E

Delete	depth, 9 ₆ m	34° 27'.96 S	150° 56'.72 E
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Aus 195 [788/2013]

Insert	north cardinal virtual AIS	34° 27'.000 S	150° 55'.700 E
	out of position south cardinal virtual AIS	34° 27'.783 S	150° 55'.667 E
	north cardinal virtual AIS	34° 28'.600 S	150° 56'.050 E
	special virtual AIS	34° 27'.967 S	150° 56'.717 E

948* AUSTRALIA - QUEENSLAND - Cairns - Anchorage

Maritime Safety Queensland Notice 703/2013 (AA694211)

Aus 262 [681/2013]

Move	anchor berth	16° 49'.8 S	145° 51'.1 E
	to	16° 49'.0 S	145° 51'.1 E

Aus 830 [794/2013]

Move	anchor berth	16° 49'.8 S	145° 51'.1 E
	to	16° 49'.0 S	145° 51'.1 E

AX 63262 [681/2013]

Move	anchor berth	16° 49'.8 S	145° 51'.1 E
	to	16° 49'.0 S	145° 51'.1 E

AXA 0830T [794/2013]

Move	anchor berth	16° 49'.8 S	145° 51'.1 E
	to	16° 49'.0 S	145° 51'.1 E

949* AUSTRALIA - QUEENSLAND - Eel Reef - Historic wrecks

Australian Hydrographic Service (AA694614)

Aus 834 [378/2013]Insert magenta legend, *Historic Wk (see Note)* 12° 24'.7 S 143° 22'.8 EDelete historic wreck with legend, *Historic Wk (see Note)* 12° 25'.7 S 143° 25'.3 E**Aus 835 [498/2013]**Insert magenta legend, *Historic Wk (see Note)* 12° 24'.7 S 143° 22'.8 EDelete historic wreck with legend, *Historic Wk (see Note)* 12° 25'.7 S 143° 25'.3 E**Aus 836 [744/2013]**Insert magenta legend, *Historic Wk (see Note)* 12° 24'.7 S 143° 22'.8 EDelete historic wreck with legend, *Historic Wk (see Note)* 12° 25'.7 S 143° 25'.3 E**950* AUSTRALIA - QUEENSLAND - Gladstone - Fishermans Landing Wharves - Infrastructure; depths**

Maritime Safety Queensland (DHDB 2079455)

Aus 244 (plan, Fishermans Landing Wharves) [584/2012]

Insert accompanying block 23° 47'.0 S 151° 10'.4 E

Aus 245 [127/2013]

Insert accompanying block 23° 47'.0 S 151° 10'.4 E

951* AUSTRALIA - QUEENSLAND - Gold Coast - Crab Island - Light buoys

Maritime Safety Queensland Notice 706/2013 (AA694671)

Aus 230 [240/2013]Insert light beacon, *Fl.G.2-5s*, with starboard lateral topmark 27° 54'.647 S 153° 24'.682 EMove light buoy 27° 54'.58 S 153° 24'.59 E
to 27° 54'.669 S 153° 24'.624 E

Delete light buoy 27° 54'.48 S 153° 24'.62 E

952* AUSTRALIA - QUEENSLAND - Goods Island - Historic wrecks; two-way route

Australian Hydrographic Service (AA694614), L Gregory (AA695955)

Aus 293 [747/2013]Insert magenta legend, *Historic Wks (see Note)* 10° 33'.8 S 142° 10'.3 E**Aus 299 [848/2013]**Insert magenta dashed line, between 10° 33'.533 S 142° 08'.690 E
10° 33'.170 S 142° 09'.220 E
10° 32'.518 S 142° 09'.805 EAmend magenta legend to *Historic Wks (see Note)* 10° 33'.8 S 142° 10'.1 EDelete magenta dashed line, between 10° 33'.27 S 142° 08'.69 E
10° 32'.52 S 142° 09'.81 E**953* AUSTRALIA - QUEENSLAND - Great Sandy Strait - Deep Creek - Historic wrecks**

Australian Hydrographic Service (AA694614)

Aus 240 [401/2011]Insert magenta legend, *Historic Wks (see Note)* 25° 30'.57 S 152° 59'.00 E
accompanying note 25° 56'.0 S 152° 56'.0 E**Aus 241 [37/2011]**Insert magenta legend, *Historic Wks (see Note)* 25° 30'.57 S 152° 59'.00 E
accompanying note 25° 22'.8 S 152° 46'.0 E

954* AUSTRALIA - QUEENSLAND - Paradise Bay to Nobby Head - Historic wrecks

Australian Hydrographic Service (AA694614)

Aus 256 [796/2013]

Insert	magenta legend, <i>Historic Wk (see Note)</i>	19° 13'.2 S	147° 03'.0 E
	magenta legend, <i>Historic Wk (see Note)</i>	19° 10'.5 S	146° 49'.3 E
	magenta legend, <i>Historic Wk (see Note)</i>	19° 09'.1 S	146° 52'.3 E
	accompanying note	19° 09'.8 S	146° 34'.3 E

Aus 827 [886/2013]

Insert	magenta legend, <i>Historic Wk (see Note)</i>	19° 10'.5 S	146° 49'.0 E
	magenta legend, <i>Historic Wk (see Note)</i>	19° 13'.2 S	147° 03'.5 E

955* AUSTRALIA - QUEENSLAND - Pumicestone Channel - Bellara - Historic wreck

Australian Hydrographic Service (AA694614)

Aus 235 [849/2013]

Insert	magenta legend, <i>Historic Wk (see Note)</i>	27° 03'.0 S	153° 07'.1 E
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Aus 236 [851/2013]

Insert	magenta legend, <i>Historic Wk (see Note)</i>	27° 03'.0 S	153° 07'.1 E
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956* PAPUA NEW GUINEA - Eve Shoal - Light

National Maritime Safety Authority PNG (AA301032, AA333674)

Aus 521 [186/2013]

Insert	light beacon, <i>Fl(2)8s 16m 10M</i> , without topmark	8° 31'.17 S	148° 25'.39 E
Delete	light with sectors	8° 31'.0 S	148° 25'.5 E

957* PAPUA NEW GUINEA - Wogoromodo Reef - Light beacon; beacon

Australian Hydrographic Service (AA148406, AA148450)

Aus 683 (plan, Approaches to Kieta Harbour and Anewa Bay) [635/2011]

Insert	port lateral topmark	6° 10'.12 S	155° 39'.03 E
	starboard lateral topmark	6° 12'.53 S	155° 38'.34 E
Move	beacon	6° 10'.16 S	155° 39'.23 E
	to	6° 10'.18 S	155° 39'.07 E

Aus 683 (plan, Kieta Harbour) [635/2011]

Insert	starboard lateral topmark	6° 12'.526 S	155° 38'.340 E
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958* AUSTRALIA - NORTHERN TERRITORY - Clarence Strait to Charles Point Patches - Depths
 HMAS *Benalla* and HMAS *Shepparton* (DHDB 692966)

Aus 20 [749/2013]

Insert	depth, 13 ₉ m	12° 08'.41 S	130° 54'.07 E
Delete	depth, 14 ₆ m, and enclosing contour	12° 07'.7 S	130° 51'.3 E
	depth, 13 ₇ m, and enclosing contour	12° 08'.0 S	130° 51'.5 E
	contour, centred on	12° 08'.4 S	130° 51'.3 E
	depth, 14 ₆ m	12° 08'.4 S	130° 54'.0 E

Aus 26 [749/2013]

Delete	depth, 19 ₃ m, and enclosing contour	12° 17'.0 S	130° 42'.6 E
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Aus 309 [890/2013]

Insert	depth, 11 ₆ m, enclosed by contour	12° 13'.92 S	130° 45'.10 E
	depth, 13m, enclosed by contour	12° 12'.08 S	130° 48'.61 E
	depth, 13 ₂ m, enclosed by contour	12° 10'.51 S	130° 50'.20 E
Delete	depth, 15 ₇ m	12° 14'.0 S	130° 44'.8 E
	depth, 14 ₄ m, and enclosing contour	12° 14'.6 S	130° 45'.7 E
	depth, 15 ₉ m	12° 11'.9 S	130° 48'.5 E

Aus 722 [890/2013]

Insert	depth, 12m, enclosed by contour	12° 13'.38 S	130° 44'.42 E
	depth, 11 ₆ m, enclosed by contour	12° 13'.92 S	130° 45'.10 E
	depth, 13 ₃ m, enclosed by contour	12° 14'.67 S	130° 45'.43 E
	depth, 13m, enclosed by contour	12° 12'.08 S	130° 48'.61 E
	depth, 13 ₂ m, enclosed by contour	12° 10'.51 S	130° 50'.20 E
	depth, 14m, enclosed by contour	12° 11'.29 S	130° 50'.06 E
Delete	depth, 19 ₃ m, and enclosing contour	12° 17'.0 S	130° 42'.6 E
	depth, 15 ₇ m	12° 14'.0 S	130° 44'.8 E
	depth, 14 ₄ m, and enclosing contour	12° 14'.6 S	130° 45'.7 E
	depth, 15m, and enclosing contour	12° 12'.7 S	130° 45'.4 E
	depth, 15 ₇ m	12° 12'.3 S	130° 49'.0 E
	depth, 16 ₆ m	12° 10'.4 S	130° 50'.4 E
	depth, 16 ₉ m	12° 11'.4 S	130° 50'.0 E
	depth, 14 ₁ m, and enclosing contour	12° 09'.0 S	130° 50'.8 E

AX 00026T [749/2013]

Delete	depth, 19 ₃ m, and enclosing contour	12° 17'.0 S	130° 42'.6 E
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AX 00309T [890/2013]

Insert	depth, 11 ₆ m, enclosed by contour	12° 13'.92 S	130° 45'.10 E
	depth, 13m, enclosed by contour	12° 12'.08 S	130° 48'.61 E
	depth, 13 ₂ m, enclosed by contour	12° 10'.51 S	130° 50'.20 E
Delete	depth, 15 ₇ m	12° 14'.0 S	130° 44'.8 E
	depth, 14 ₄ m, and enclosing contour	12° 14'.6 S	130° 45'.7 E
	depth, 15 ₉ m	12° 11'.9 S	130° 48'.5 E

AX 00309U [890/2013]

Insert	depth, 11 ₆ m, enclosed by contour	12° 13'.92 S	130° 45'.10 E
	depth, 13m, enclosed by contour	12° 12'.08 S	130° 48'.61 E
	depth, 13 ₂ m, enclosed by contour	12° 10'.51 S	130° 50'.20 E
Delete	depth, 15 ₇ m	12° 14'.0 S	130° 44'.8 E
	depth, 14 ₄ m, and enclosing contour	12° 14'.6 S	130° 45'.7 E
	depth, 15 ₉ m	12° 11'.9 S	130° 48'.5 E

958* AUSTRALIA - NORTHERN TERRITORY - Clarence Strait to Charles Point Patches - Depths**AX 00722T [890/2013]**

Insert	depth, 12 _m , enclosed by contour	12° 13'.38 S	130° 44'.42 E
	depth, 11 ₆ _m , enclosed by contour	12° 13'.92 S	130° 45'.10 E
	depth, 13 ₃ _m , enclosed by contour	12° 14'.67 S	130° 45'.43 E
	depth, 13 _m , enclosed by contour	12° 12'.08 S	130° 48'.61 E
	depth, 13 ₂ _m , enclosed by contour	12° 10'.51 S	130° 50'.20 E
	depth, 14 _m , enclosed by contour	12° 11'.29 S	130° 50'.06 E
Delete	depth, 19 ₃ _m , and enclosing contour	12° 17'.0 S	130° 42'.6 E
	depth, 15 ₇ _m	12° 14'.0 S	130° 44'.8 E
	depth, 14 ₄ _m , and enclosing contour	12° 14'.6 S	130° 45'.7 E
	depth, 15 _m , and enclosing contour	12° 12'.7 S	130° 45'.4 E
	depth, 15 ₇ _m	12° 12'.3 S	130° 49'.0 E
	depth, 16 ₆ _m	12° 10'.4 S	130° 50'.4 E
	depth, 16 ₉ _m	12° 11'.4 S	130° 50'.0 E
	depth, 14 ₁ _m , and enclosing contour	12° 09'.0 S	130° 50'.8 E

959* AUSTRALIA - NORTHERN TERRITORY - Darwin - Charles Point to Jones Creek - Light buoys

Darwin Port Corporation Notice 145(T)/2013 (AA692841)

Aus 26 [749/2013]

Delete	light buoy	12° 23'.3 S	130° 39'.8 E
	light buoy	12° 23'.5 S	130° 48'.6 E

Aus 27 [383/2013]

Delete	light buoy	12° 32'.95 S	130° 52'.43 E
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Aus 29 [883/2012]

Delete	light buoy	12° 23'.3 S	130° 39'.8 E
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AX 00026T [749/2013]

Delete	light buoy	12° 23'.3 S	130° 39'.8 E
	light buoy	12° 23'.5 S	130° 48'.6 E

960* AUSTRALIA - WESTERN AUSTRALIA - Port Walcott - Depths; infrastructure; nav aids; port security limit; mooring area

Department of Transport WA (AA691476), Rio Tinto (DHDB 2344521)

Aus 55 [328/2013]

Insert	dashed line with legend, <i>Small Craft Moorings</i> , between	20° 38'.15 S	117° 12'.21 E
		20° 38'.15 S	117° 12'.71 E
		20° 38'.56 S	117° 12'.71 E
		20° 38'.56 S	117° 12'.21 E
		20° 38'.15 S	117° 12'.21 E
	accompanying block	20° 35'.0 S	117° 11'.5 E

Delete	lit mooring buoy	20° 38'.4 S	117° 12'.4 E
	port security limit with legend Port Walcott Port Security Limit, between	20° 33'.2 S	117° 11'.2 E
		20° 27'.9 S	117° 16'.2 E
		20° 27'.9 S	117° 22'.9 E
		20° 33'.2 S	117° 23'.0 E
		20° 35'.7 S	117° 13'.5 E

Aus 56 [NE 9/8/2013]

Insert	dashed line with legend, <i>Small Craft Moorings</i> , between	20° 38'.150 S	117° 12'.212 E
		20° 38'.150 S	117° 12'.712 E
		20° 38'.560 S	117° 12'.712 E
		20° 38'.560 S	117° 12'.212 E
		20° 38'.150 S	117° 12'.212 E

Delete	mooring buoy	20° 38'.19 S	117° 12'.25 E
	mooring buoy	20° 38'.28 S	117° 12'.49 E
	mooring buoy	20° 38'.13 S	117° 12'.66 E
	lit mooring buoy	20° 38'.36 S	117° 12'.40 E

961* AUSTRALIA - VICTORIA - Port Phillip - Wreck

Victorian Notice 121/2013 (AA693622)

Aus 143 [696/2013]

Insert	depth, 18 ₂ m, enclosed by danger circle with legend, <i>Wk</i>	38° 03'.15 S	144° 50'.29 E
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Aus 155 [696/2013]

Insert	depth, 18 ₂ m, enclosed by danger circle with legend, <i>Wk</i>	38° 03'.15 S	144° 50'.29 E
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962* AUSTRALIA - TASMANIA - D'Entrecasteaux Channel - Huon Point to Hastings Bay - Marine farms

Department of Primary Industries, Parks, Water and Environment TAS (DHDB 2351255)

Aus 173 [899/2013]

Insert	marine farm symbol	43° 18'.91 S	147° 13'.60 E
	marine farm symbol	43° 19'.33 S	147° 13'.13 E
	marine farm symbol with legend, (see Note)	43° 17'.34 S	147° 06'.33 E
	marine farm symbol	43° 25'.52 S	146° 55'.70 E

Aus 795 [1257/2012]

Insert	marine farm symbol	43° 18'.91 S	147° 13'.60 E
	marine farm symbol	43° 19'.33 S	147° 13'.13 E
	marine farm symbol	43° 17'.34 S	147° 06'.33 E

963* AUSTRALIA - TASMANIA - Great Oyster Bay - Marine farms
 Department of Primary Industries, Parks, Water and Environment TAS (DHDB 2351255)

Aus 766 [1077/2011]

Insert	dashed line and marine farm symbol with legend, (<i>see Note</i>), between	42° 08'.71 S	148° 13'.42 E
		42° 08'.70 S	148° 13'.79 E
	dashed line and marine farm symbol with legend, (<i>see Note</i>), between	42° 07'.73 S	148° 13'.77 E
		42° 07'.50 S	148° 13'.11 E
		42° 07'.51 S	148° 12'.82 E
		42° 07'.87 S	148° 12'.61 E
		42° 08'.17 S	148° 12'.62 E
		42° 08'.71 S	148° 13'.42 E
		42° 09'.20 S	148° 07'.19 E
		42° 09'.74 S	148° 07'.06 E
		42° 09'.77 S	148° 08'.51 E
		42° 08'.64 S	148° 08'.79 E
		42° 08'.62 S	148° 08'.05 E
		42° 09'.22 S	148° 07'.91 E
		42° 09'.20 S	148° 07'.19 E
		41° 42'.2 S	148° 06'.0 E
		42° 09'.79 S	148° 05'.49 E
		42° 17'.78 S	148° 01'.23 E
	accompanying note marine farm symbol with legend, (<i>see Note</i>) marine farm symbol with legend, (<i>see Note</i>) marine farm symbol with legend, (<i>see Note</i>) marine farm symbol with legend, (<i>see Note</i>)	42° 15'.16 S	148° 01'.86 E
		42° 07'.44 S	148° 11'.76 E
Delete	legend, Shellfish Beds (<i>see Note</i>)	42° 09'.6 S	148° 08'.3 E

964* AUSTRALIA - TASMANIA - Norfolk Bay - Marine farms
 Department of Primary Industries, Parks, Water and Environment TAS (DHDB 2351255)

Aus 171 [898/2013]

Insert	marine farm symbol with legend, (<i>see Note</i>)	43° 00'.57 S	147° 50'.49 E
	marine farm symbol with legend, (<i>see Note</i>)	43° 00'.89 S	147° 52'.14 E
	marine farm symbol	43° 05'.91 S	147° 43'.33 E
Move	marine farm symbol to	42° 57'.5 S	147° 49'.0 E
		42° 57'.63 S	147° 49'.06 E

965* AUSTRALIA - TASMANIA - River Tamar - Gravelly Beach to Miserable Island - Infrastructure
 Australian Hydrographic Service (AA693013), Launceston City Council (AA676108)

Aus 168 [900/2013]

Insert	continuous line, between	41° 14'.86 S	146° 56'.32 E
		41° 14'.84 S	146° 56'.39 E
	accompanying block	41° 17'.7 S	146° 58'.3 E

966(T)/2013 AUSTRALIA - NEW SOUTH WALES - Botany Bay - Yarra Bay to Kurnell - Scientific instruments
 Sydney Ports Corporation Notice 33/2013 (AA696672)

Scientific instruments marked by special light buoys, *Fl.Y.5s*, exist in the following positions:

33° 58'.84 S 151° 13'.36 E
 34° 00'.23 S 151° 12'.49 E
 34° 00'.32 S 151° 12'.66 E
 34° 00'.29 S 151° 12'.80 E
 34° 00'.02 S 151° 12'.38 E
 34° 00'.03 S 151° 13'.22 E.

Chart temporarily affected - Aus 196 - Aus 198 - Aus 199

967(T)/2013 AUSTRALIA - NEW SOUTH WALES - Evans Head - Live firing

Former Notice - 903(T)/2013 is cancelled
 Department of Defence (AA693284)

Cancel this notice on receipt.

Chart formerly affected - Aus 220 - Aus 222 - Aus 812 - Aus 813

968(T)/2013 AUSTRALIA - NEW SOUTH WALES - Jervis Bay - Exclusion zone; light

Date - Until 4 October 2013

Department of Defence (AA695054), Australian Maritime Safety Authority (AA696652)

An exclusion zone exists in an area bounded by the following positions:

35° 07'.40 S 150° 42'.24 E
 35° 07'.13 S 150° 42'.28 E
 35° 06'.30 S 150° 43'.30 E
 35° 06'.00 S 150° 44'.00 E
 35° 06'.80 S 150° 44'.80 E
 35° 07'.80 S 150° 44'.70 E
 35° 07'.95 S 150° 44'.89 E.

The EZ will be enforced in accordance with the legislative authority of the *Control of Naval Waters Act 1918* and the *Control of Naval Waters Regulations 1922*.

The old Point Perpendicular light will be relit, with a range of 26M, between 27 September and 4 October 2013.

Chart temporarily affected - Aus 193 - Aus 807 - Aus 808 - AX 00193T - AX 00808S - AX 67192 - AXA 0193T

969(T)/2013 AUSTRALIA - TASMAN SEA - Live firing completed

Former Notice - 907(T)/2013 is cancelled
 Royal Australian Air Force (AA692669)

Cancel this notice on receipt.

Chart formerly affected - Aus 193 - Aus 489 - Aus 806 - Aus 807 - Aus 808 - Aus 4643 (INT 643) - AX 00193T - AX 00808S - AX 6031S - AX 6031G - AXA 0193T

970(T)/2013 AUSTRALIA - QUEENSLAND - Bundaberg - Depth information

Former Notice - 598(T)/2013 is cancelled

Maritime Safety Queensland Notice 730(T)/2013 (AA695781)

Available depths as at 12 September 2013:

	<i>Metres</i>
Sea Reach	6.5
Middle Reach	6.5
Inner Reach	6.5
Swing Basin	5.5
* Oil Berth	8.0
BST Berth	8.7
* Deep draught departure channel	8.6
* Indicates revised entry.	

Chart temporarily affected - Aus 242 - Aus 243

971(T)/2013 AUSTRALIA - QUEENSLAND - Cairns - Senrab Point - Light unlit

Maritime Safety Queensland Notice 678(T)/2013 (AA695404)

The light, *F.G* (16° 56'.44 S 145° 46'.73 E), is unlit.

Chart temporarily affected - Aus 263 - Aus 264

972(T)/2013 AUSTRALIA - QUEENSLAND - Cairns - Scientific instruments

Former Notice - 715(T)/2013 is cancelled

Date - Until 28 February 2014

Maritime Safety Queensland Notice 741(T)/2013 (AA697230)

A subsurface scientific instrument exists in position 16° 46'.84 S 145° 48'.60 E.

A scientific instrument marked by a special conical light buoy, *Fl.Y.2.7s*, exists in position 16° 51'.28 S 145° 49'.04 E.

Chart temporarily affected - Aus 262 - AX 63262

973(P)/2013 AUSTRALIA - QUEENSLAND - Gladstone - Light beacons

Date - On or about 4 November 2013

Maritime Safety Queensland Notice 733(T)/2013 (AA695765, AA696582)

Light beacons, marked by temporary lights, *Fl.Y.4s*, will be established as follows:

<i>Position</i>	<i>Characteristic</i>	<i>Remarks</i>
23° 48'.25 S 151° 13'.80 E	<i>Q.Bu (F Day) & Fl.G.4s</i>	Clinton Bypass Approach Front
23° 48'.00 S 151° 13'.45 E	<i>Iso.Bu.2s (F Day) & Fl(2)6s</i>	Clinton Bypass Approach Rear
23° 50'.23 S 151° 16'.53 E	<i>F.R (F Day) & Fl(2)6s</i>	Clinton Bypass Departure Front
23° 50'.49 S 151° 16'.90 E	<i>F.R (F Day) & Q</i>	Clinton Bypass Departure Rear
23° 49'.33 S 151° 15'.45 E	<i>Fl.G.4s</i>	Clinton Bypass 1
23° 49'.26 S 151° 15'.05 E	<i>Fl.R.4s</i>	Clinton Bypass 2
23° 49'.17 S 151° 15'.23 E	<i>Fl.G.4s</i>	Clinton Bypass 3
23° 49'.12 S 151° 14'.85 E	<i>Fl.R.4s</i>	Clinton Bypass 4
23° 47'.93 S 151° 13'.04 E	<i>Fl.G.4s</i>	Jacobs Channel 1

Chart which will be affected - Aus 244 - Aus 245

974(T)/2013 AUSTRALIA - QUEENSLAND - Gladstone - Fishermans Landing Wharves - Light buoy restored

Former Notice - 1270(T)/2012 is cancelled

Maritime Safety Queensland (AA697411)

Cancel this notice on receipt.

Chart formerly affected - Aus 244 - Aus 245

975(T)/2013 AUSTRALIA - QUEENSLAND - Hull River - Light unlit
Maritime Safety Queensland Notice 711(T)/2013 (AA695409)

The light, *Fl.2-5s* (17° 59'.40 S 146° 04'.67 E), is unlit.

Chart temporarily affected - Aus 258 - Aus 828 - Aus 829

976(T)/2013 AUSTRALIA - QUEENSLAND - Mooloolaba - Shoaling
Former Notice - 647(T)/2013 is cancelled
Maritime Safety Queensland Notice 717(T)/2013 (AA695252)

A least depth of *1.9m* exists within the main channel to Mooloolah River.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 235

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

Former Notice - 914(T)/2013 is cancelled

Maritime Safety Queensland Notice 1305(T)/2012 (AA643540), Brisbane Port Corporation (AA695763)

Available depths and under keel clearances (UKC) at 13 September 2013:

<i>Berth</i>	<i>Metres</i>	<i>Remarks</i>
* Fisherman Islands No12	13.9	
Fisherman Islands No11	14.0	
Fisherman Islands No10	13.3	
Fisherman Islands No9	14.0	
Fisherman Islands No8	14.0	
* Fisherman Islands No7	14.0	
* Fisherman Islands No6	14.3	
* Fisherman Islands No5	14.1	
* Fisherman Islands No4	13.9	
Fisherman Islands No3	13.6	
Fisherman Islands No2	14.0	
Fisherman Islands No1	14.0	
Fisherman Islands Grain and Woodchip	13.2	
* Caltex Fisherman Islands	14.2	
Fisherman Islands Coal	14.0	
Fisherman Islands General Purpose	11.4	
* BP Luggage Point	14.2	
Caltex Products	10.2	
Cement Australia Co Wharf	9.5	
* BP Products	10.5	
* Shell	10.7	
Pacific Terminals	10.7	
Incitec North	9.6	
* Incitec South	10.4	
Pinkenba 1	10.4	
Pinkenba 2	10.4	
Riverside Marina	-	
Sugar Terminal	9.8	
Cairncross Fitting Out Wharf	7.4	
Cairncross Breasting Wharf	5.0	
Brisbane Naval Wharf	4.3	
Maritime No1	8.8	
* Hamilton No4	9.6	
* Hamilton No1	8.5	
* 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	14.0	1.46
Inner Bar Cutting	14.0	1.46
Fisherman Islands Swing Basin	14.0	1.3
River	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	9.1	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

978(T)/2013 AUSTRALIA - QUEENSLAND - Shoalwater Bay - Live firing*Date* - Until 3 December 2013

Maritime Safety Queensland Notice 677(T)/2013 (AA692719)

Live firing activities will be conducted in the Shoalwater Bay training area during the period 30 September to 3 December 2013.

A marine danger area extends to all internal waters bounded by the following positions:

22° 27'.02 S 150° 34'.98 E
 22° 33'.13 S 150° 42'.40 E
 22° 40'.00 S 150° 38'.00 E
 22° 35'.87 S 150° 28'.80 E
 22° 27'.93 S 150° 23'.01 E
 22° 27'.02 S 150° 34'.98 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 248 - Aus 367 - Aus 820 - Aus 822 - AX 00367S - AX 00820S - AX 00822S

979(T)/2013 AUSTRALIA - QUEENSLAND - Shoalwater Bay - Live firing completed*Former Notice* - 867(T)/2013 is cancelled

Maritime Safety Queensland Notice 612(T)/2013 (AA688906)

Cancel this notice on receipt.

Chart formerly affected - Aus 260 - Aus 261 - Aus 367 - Aus 822 - AX 00260T - AX 00260S - AX 00367S - AX 00822S - AX 67261

980(T)/2013 AUSTRALIA - CORAL SEA - Osprey Reef - Light buoy off station southwards*Former Notice* - 917(T)/2013 is cancelled

Australian Bureau of Meteorology (AA696889)

The light buoy, *Fl.Y.2s* (14° 48'.0 S 153° 35'.0 E), is drifting and currently in position 14° 42'.2 S 146° 50'.0 E (17 September 2013).

Chart temporarily affected - Aus 4620 (INT 620) - Aus 4621 (INT 621) - AX 04620U - AX 04621U

981(T)/2013 PAPUA NEW GUINEA - Cape St George - Light unlit

National Maritime Safety Authority PNG Notice 40(T)/2013 (AA695289)

The light, *Fl.5s 101m 10M* (4° 50'.86 S 152° 52'.61 E), is unlit.

Chart temporarily affected - Aus 397 - Aus 398 - Aus 554 - Aus 668 - Aus 4060 (INT 60) - Aus 4604 (INT 604) - Aus 4622 (INT 622) - AX 04604U

982(T)/2013 PAPUA NEW GUINEA - Gulf of Papua - Drill rig moved*Former Notice* - 825(T)/2013 is cancelled

National Maritime Safety Authority PNG Notice 41/2013 (AA695540)

Cancel this notice on receipt.

Chart formerly affected - Aus 378 - Aus 4620 (INT 620) - AX 04620U

983(T)/2013 AUSTRALIA - TORRES STRAIT - Channel Rock - Wreck; light buoy*Former Notice* - 775(T)/2013 is cancelled

Maritime Safety Queensland Notice 709(T)/2013 (AA695295)

A wreck marked by a special light buoy, *Fl.Y.2-5s*, exists in position 10° 33'.14 S 142° 15'.13 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 292 - Aus 293 - Aus 299 - Aus 700

984(T)/2013 AUSTRALIA - NORTHERN TERRITORY - Darwin - Scientific instruments*Date* - Until 28 October 2013

Darwin Port Corporation Notice 162(T)/2013 (AA695250)

Scientific instruments marked by special light buoys, Q.Y, exist in positions 12° 28'.11 S 130° 50'.03 E and 12° 29'.71 S 130° 50'.97 E.

Chart temporarily affected - Aus 24 - Aus 26 - Aus 28 - AX 00026T**985(P)/2013 AUSTRALIA - NORTHERN TERRITORY - Darwin - Abbott Patches - Light buoy repositioned***Date* - On or about 13 September 2013

Darwin Port Corporation Notice 165(P)/2013 (AA695522)

No9 light buoy, /so.G.2s, will be repositioned to 12° 28'.11 S 130° 48'.34 E.

Chart which will be affected - Aus 24 - Aus 26 - AX 00026T**986(T)/2013 AUSTRALIA - NORTHERN TERRITORY - Darwin - East Arm - Dredging operations***Former Notice* - 872(T)/2013 is cancelled

Darwin Port Corporation Notice 164(T)/2013 (AA695325)

The dredges *Eastern Aurora* and *Gungner R* and support vessel MT *Skinfaxe R* are conducting dredging operations in the vicinity of position 12° 29'.60 S 130° 53'.46 E.

A floating pipeline, marked by special buoys and lights Q.Y, exists from the dredge *Eastern Aurora* to position 12° 29'.50 S 130° 53'.47 E and a submerged pipeline exists between positions 12° 29'.50 S 130° 53'.47 E and 12° 29'.39 S 130° 53'.47 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 26 - Aus 28 - AX 00026T**987(T)/2013 AUSTRALIA - NORTHERN TERRITORY - Darwin - Dredging operations; pipeline***Date* - Until 28 October 2013

Darwin Port Corporation Notice 167(T)/2013 (AA695804)

The dredge *Warraber* is conducting dredging operations in Darwin Naval Base (12° 27'.66 S 130° 49'.33 E).

A submerged pipeline exists between positions 12° 27'.68 S 130° 49'.24 E and 12° 27'.77 S 130° 49'.11 E. Anchors marked by special light buoys, Q.Y, exist in the following positions:

12° 27'.69 S 130° 49'.22 E
 12° 27'.73 S 130° 49'.22 E
 12° 27'.73 S 130° 49'.17 E
 12° 27'.77 S 130° 49'.17 E
 12° 27'.78 S 130° 49'.13 E
 12° 27'.80 S 130° 49'.13 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 24 - Aus 26 - AX 00026T**988(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Rankin Bank - Drilling operations***Date* - Until 18 October 2013

EGS Survey Pty Ltd (AA694525)

MV *Nor Captain* is conducting drilling operations in the area bounded by the following positions:

19° 38'.05 S 115° 54'.43 E
 19° 40'.08 S 115° 56'.17 E
 19° 45'.77 S 115° 48'.65 E
 19° 53'.22 S 115° 38'.29 E
 19° 51'.36 S 115° 37'.08 E
 19° 41'.69 S 115° 48'.31 E.

Chart temporarily affected - Aus 327 - Aus 4723 (INT 723) - AX 04723U

989(T)/2013 INDIAN OCEAN - Mid Indian Ocean Basin - Light buoy off station*Former Notice* - 933(T)/2013 is cancelled

Australian Bureau of Meteorology (AA696889)

The buoy (11° 26'.0 S 113° 36'.0 E) is drifting and currently in position 11° 02'.8 S 83° 52'.1 E (17 September 2013).

Chart temporarily affected - Aus 4708 (INT 708) - Aus 4714 (INT 714) - Aus 4723 (INT 723) - AX 04708U - AX 04714U - AX 04723U**990(T)/2013 AUSTRALIA - VICTORIA - Port Phillip - Port Melbourne - River Yarra - Harbour works***Former Notice* - 439(T)/2013 is cancelled

Victorian Notice 123/2013 (AA695258)

Cancel this notice on receipt.

Chart formerly affected - Aus 154**991(P)/2013 AUSTRALIA - VICTORIA - Port Phillip - South Channel - Light beacons to be established***Former Notice* - 839(P)/2013 is cancelled*Date* - On or about 25 September 2013

Victorian Notice 127(T)/2013 (AA695799)

Light beacons will be established as follows:

	<i>Position</i>	<i>Remarks</i>
No23	38° 18'.81 S 144° 55'.95 E	Fl(3)G.10s 5M
No24	38° 17'.93 S 144° 53'.92 E	Fl.5s 11M
No25	38° 17'.93 S 144° 55'.95 E	Fl(4)G.12s 8M

Chart which will be affected - Aus 143 - Aus 158

992(T)/2013 AUSTRALIA - TASMANIA - Devonport - Light beacon destroyed

Former Notice - 840(T)/2013 is cancelled

Marine and Safety Tasmania Notice M91/2013 (AA697019)

No11 light beacon, *F.R* (41° 10'.76 S 146° 21'.91 E), has been destroyed.

Chart temporarily affected - Aus 164

HYDROGRAPHIC REPORTS

<i>Locality</i>	<i>Report</i>	<i>Ship/Authority</i>	<i>Observer</i>
TORRES STRAIT- Prince of Wales Channel	Two-way route		L Gregory

NAVIGATION WARNINGS

The following radio messages have been received during the period to 19 September 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

- 216 Cancelled.
- 217 Special purpose vessel *Ramform Explorer* conducting seismic survey in an area bounded by 13° 00'.0 S to 13° 53'.0 S and 122° 25'.0 E to 123° 06'.0 E. 6M clearance requested.
- 218 Cancelled.
- 219 Cancelled.
- 220 Drill rig *ENSCO 109* in position 12° 40'.30 S 124° 32'.30 E. 2.5M clearance requested.
- 221 Cancelled.
- 222 Cancelled.
- 223 Cancelled.
- 224 Special purpose vessel *Nor Captain* conducting underwater operations in an area bounded by 19° 38'.06 S and 19° 53'.22 S to 115° 37'.09 E to 115° 56'.17 E. 2.5M clearance requested.
- 225 Cancelled.
- 226 Cancelled.
- 227 Cancelled.
- 228 Cancelled.
- 229 Cancelled.

NAVAREA X WARNINGS

- 051 Cancelled.
- 052 Cancelled.

Navigational warnings in force as at 190001UTC SEP 13.**Auscoast**

2013 024 099 134 154 208 212 214 217 220 224

Navarea X

2013 037 042 050

Summary of mobile drilling rigs as at 190001UTC SEP 13.

<i>Name</i>	<i>Position</i>
Ensco 104	10° 01'.07 S 129° 27'.15 E
Noble Clyde Boudreaux	13° 49'.00 S 123° 19'.35 E
Jack Bates	13° 24'.59 S 122° 59'.02 E
Transocean Legend	13° 44'.28 S 122° 20'.13 E
Atwood Eagle	19° 42'.41 S 115° 52'.53 E
Ensco 109	12° 40'.30 S 124° 32'.30 E
Atwood Falcon	20° 04'.23 S 115° 11'.00 E
Atwood Osprey	20° 31'.35 S 114° 49'.68 E
Deepwater Frontier	19° 47'.55 S 114° 38'.95 E
Nan Hai 6	21° 31'.40 S 114° 07'.50 E

NAVAREA XIV WARNINGS

Nil.

Navarea XIV warnings in force as at 190001UTC SEP 13.

2013 Nil.

To accompany Australian Notice to Mariners 953/2013

Historic Wreck

The site of an historic wreck is protected from unauthorised interference. For details see Seafarers Handbook for Australian Waters AHP 20.

Note for chart Aus 240

To accompany Australian Notice to Mariners 954/2013

Historic Wreck

The site of an historic wreck is protected from unauthorised interference. For details see Seafarers Handbook for Australian Waters AHP 20.

Note for chart Aus 256

To accompany Australian Notice to Mariners 953/2013

Historic Wreck

The site of an historic wreck is protected from unauthorised interference. For details see Seafarers Handbook for Australian Waters AHP 20.

Note for chart Aus 241

To accompany Australian Notice to Mariners 963/2013

MARINE FARMS

Marine farms, which may be floating or fixed structures and their associated moorings should be avoided. The farms are generally marked by buoys or beacons, which may be lit. Their charted positions are approximate.

Note for chart Aus 766

AUSTRALIA, WEST COAST - BUNBURY

LAT 33° 19' S LONG 115° 39' E

TIME ZONE -0800

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2014

JANUARY				FEBRUARY				MARCH				APRIL					
	Time	m		Time	m		Time	m		Time	m		Time	m		Time	m
1 WE ●	0531 1156 1311 2026	0.1 0.5 0.5 1.0	16 TH ○	0605 1241 1432 2106	0.3 0.6 0.5 0.9	1 SA	0629 1239 1502 2116	0.2 0.6 0.5 0.8	16 SU	0424 1111 1558 2217	0.4 0.7 0.5 0.8	1 SA ●	0514 1124 1653 2313	0.3 0.7 0.6 0.8	16 SU	0319 1020 1519 2134	0.5 0.8 0.5 0.8
2 TH	0615 1231 1410 2057	0.1 0.5 0.5 0.9	17 FR	0634 1320 1517 2147	0.3 0.6 0.5 0.9	2 SU	0708 1322 1550 2151	0.3 0.7 0.5 0.7	17 MO	0445 1126 1637 2254	0.4 0.7 0.5 0.7	2 SU	0551 1202 1514	0.4 0.7 0.5	17 MO ○	0338 1026 1556 2211	0.5 0.8 0.5 0.7
3 FR	0658 1315 1500 2133	0.1 0.6 0.5 0.9	18 SA	0503 1228	0.3 0.8	3 MO	0445 1407 1639 1844	0.4 0.7 0.6 0.6	18 TU	0508 1149 1715 2327	0.4 0.7 0.5 0.7	3 MO	0015 0625 1242 1915	0.7 0.5 0.8 0.5	18 TU	0358 1045 1632 2245	0.5 0.8 0.5 0.7
4 SA	0741 1400 1549 2212	0.2 0.6 0.5 0.8	19 SU	0526 1439 1639 2306	0.3 0.6 0.6 0.8	4 TU	0509 1454 1730 1920	0.4 0.7 0.6 0.6	19 WE	0528 1213 1756 2011	0.4 0.8 0.6 0.6	4 TU	0115 0403 1322	0.6 0.5 0.8	19 WE	0418 1105 1708 2315	0.5 0.9 0.5 0.6
5 SU	0822 1447 1638 2247	0.3 0.6 0.6 0.7	20 MO	0550 1229 1720 2341	0.3 0.6 0.6 0.7	5 WE	0145 0320 0536 1544	0.4 0.5 0.4 0.7	20 TH	0545 1236 1840 2009	0.4 0.8 0.6 0.6	5 WE	0023 0215 0432 1120	0.5 0.5 0.4 0.8	20 TH	0440 1128 2126 2342	0.5 0.9 0.5 0.6
6 MO	0900 1535 1729 1943	0.4 0.7 0.6 0.7	21 TU	0612 1259 1803 2047	0.3 0.7 0.6 0.7	6 TH	0237 0426 0603 1635	0.4 0.4 0.4 0.8	21 FR	0300 0403 0605 1303	0.5 0.5 0.4 0.8	6 TH	0121 0319 0502 1159	0.4 0.5 0.4 0.8	21 FR	0503 1155 2217	0.5 0.9 0.5
7 TU	0609 1623 1830 2006	0.4 0.7 0.6 0.7	22 WE	0628 1327 1857 2041	0.4 0.7 0.6 0.6	7 FR ●	0325 0546 0621 1726	0.3 0.4 0.4 0.8	22 SA	0308 0511 0624 1337	0.4 0.5 0.4 0.8	7 FR	0212 1240 1918 2017	0.4 0.9 0.6 0.6	22 SA	1226 2308	0.9 0.4
8 WE ●	0256 0428 0631 1710	0.4 0.4 0.4 0.8	23 TH	0642 1354 1508 1641	0.4 0.7 0.7 0.7	8 SA	0408 1500 1616 1813	0.3 0.8 0.8 0.8	23 SU ●	0326 1727	0.4 0.9	8 SA ●	0258 1325 1544 1648	0.4 0.8 0.8 0.8	23 SU	0038 0220 1301	0.5 0.4 0.9
9 TH	0345 0547 0648 1754	0.3 0.4 0.4 0.8	24 FR ●	0700 1718	0.4 0.8	9 SU	0447 1855	0.3 0.8	24 MO	0346 1813	0.3 0.9	9 SU	0339 1414	0.4 0.8	24 MO ●	0245 1340 1536 1657	0.4 0.9 0.9 0.9
10 FR	0430 1835	0.3 0.8	25 SA	0404 1756	0.4 0.9	10 MO	0517 1925	0.3 0.8	25 TU	0408 1900	0.3 0.9	10 MO	0414 1513 1654 1827	0.4 0.8 0.8 0.8	25 TU	0308 1748	0.4 0.9
11 SA	0511 1912	0.3 0.9	26 SU	0420 1835	0.3 0.9	11 TU	0353 1927	0.3 0.9	26 WE	0417 1953	0.3 0.9	11 TU	0433 1903	0.4 0.8	26 WE	0327 1058 1221 1842	0.4 0.7 0.7 0.9
12 SU	0544 1931	0.3 0.9	27 MO	0438 1917	0.3 1.0	12 WE	0423 1119 1219 1945	0.3 0.6 0.6 0.9	27 TH	0406 1129 1352 2054	0.3 0.6 0.6 0.9	12 WE	0255 1926	0.4 0.8	27 TH	0300 1047 1323 1942	0.4 0.7 0.7 0.9
13 MO	0427 1912	0.3 0.9	28 TU	0445 2002	0.2 1.0	13 TH	0456 1131 1347 2021	0.3 0.6 0.6 0.9	28 FR	0436 1053 1404 2204	0.3 0.7 0.6 0.9	13 TH	0327 1032 1327 1948	0.4 0.7 0.6 0.8	28 FR	0315 0953 1443 2057	0.4 0.7 0.6 0.8
14 TU	0455 1159 1201 1945	0.3 0.5 0.5 0.9	29 WE	0437 2053	0.2 1.0	14 FR	0523 1159 1436 2100	0.3 0.6 0.5 0.9				14 FR	0343 1043 1405 2021	0.4 0.7 0.6 0.8	29 SA	0349 1007 1604 2210	0.5 0.8 0.6 0.8
15 WE	0530 2025	0.3 0.9	30 TH	0510 1130 1309 2200	0.2 0.6 0.5 0.9	15 SA ○	0412 1223 1518 2139	0.4 0.6 0.5 0.8				15 SA	0315 1049 1443 2058	0.4 0.7 0.6 0.8	30 SU	0424 1042 1706 2313	0.5 0.8 0.5 0.7
			31 FR ●	0548 1200 1411 2046	0.2 0.6 0.5 0.9										31 MO ●	0240 1118 1805	0.6 0.9 0.5

AUSTRALIA, WEST COAST - BUNBURY

LAT 33° 19' S LONG 115° 39' E

TIME ZONE -0800

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2014

MAY				JUNE				JULY				AUGUST			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 TH 0111 0251 0948 1956	0.7 0.6 1.1 0.5	16 FR 0053 0244 0940 1930	0.7 0.7 1.1 0.4	1 SU 1048 2101 2356	1.1 0.6 0.6	16 MO 1027 2039	1.1 0.5	1 TU 0309 0424 1115 1812	0.7 0.7 1.0 0.5	16 WE 0217 0422 1043 2050	0.7 0.7 0.9 0.5	1 FR 0031 0552 1215 1826	0.8 0.7 0.8 0.5	16 SA 0316 0558 0742 1401	0.8 0.6 0.7 0.5
2 FR 1028 2051 2311	1.1 0.5 0.6	17 SA 0145 0319 1014 2020	0.7 0.7 1.1 0.4	2 MO 0050 1129 1838	0.6 1.0 0.6	17 TU 0256 0425 1106 2125	0.7 0.7 1.0 0.5	2 WE 0400 0504 1154 1841	0.7 0.7 1.0 0.6	17 TH 0306 0510 0733 1758	0.8 0.7 0.8 0.6	2 SA 0103 0635 0908 1843	0.8 0.7 0.7 0.5	17 SU 0040 0220 0409 1452	0.8 0.8 0.8 0.4
3 SA 0022 1108 2142 2347	0.6 1.0 0.5 0.6	18 SU 1051 2109	1.1 0.4	3 TU 1208 1911 2107 2225	1.0 0.6 0.6 0.6	18 WE 0345 0509 1143 2209	0.8 0.7 0.9 0.6	3 TH 0103 0220 1230 1908	0.7 0.7 0.9 0.6	18 FR 0355 0601 0804 1824	0.8 0.7 0.8 0.6	3 SU 0133 0902 1900	0.8 0.7 0.5	18 MO 0130 0308 0502 1539	0.8 0.8 0.8 0.4
4 SU 0115 1147 2229	0.6 1.0 0.6	19 MO 0331 0433 1130 2159	0.7 0.7 1.1 0.5	4 WE 0944 1053 1245 1944	0.9 0.9 0.9 0.6	19 TH 0830 1902 2051 2249	0.9 0.7 0.7 0.7	4 FR 0936 1132 1300 1928	0.9 0.8 0.8 0.6	19 SA 0444 1514 1708 1847	0.9 0.6 0.6 0.6	4 MO 0505 1559 1752 1922	0.8 0.5 0.6 0.6	19 TU 0555 1622 2350	0.8 0.4 0.7
5 MO 1228 1933 2051 2313	1.0 0.6 0.6 0.6	20 TU 1207 2247	1.0 0.5	5 TH 1000 1145 1318 2014	0.9 0.9 0.9 0.6	20 FR 0518 1526 1703 1921	0.9 0.7 0.7 0.7	5 SA 0530 0750 0929 1943	0.8 0.8 0.8 0.6	20 SU 0531 1602	0.9 0.5	5 TU 0545 1319 1408 1611	0.9 0.5 0.5 0.5	20 WE 0027 0645 1700	0.7 0.9 0.4
6 TU 0113 0231 1306 2353	0.6 0.6 0.9 0.6	21 WE 0905 1040 1241 2333	0.9 0.9 0.9 0.6	6 FR 0954 2036	0.9 0.7	21 SA 0600 1613	0.9 0.6	6 SU 0551 2003	0.9 0.6	21 MO 0619 1647	0.9 0.5	6 WE 0625 1628	0.9 0.4	21 TH 0730 1526	0.9 0.4
7 WE 1345	0.9	22 TH 0912 1528 1706	0.9 0.8 0.8	7 SA 0640 1316 1422 2058	0.9 0.8 0.8 0.7	22 SU 0642 1659	1.0 0.6	7 MO 0619 1647 1909 2028	1.0 0.6 0.7 0.6	22 TU 0704 1729	1.0 0.5	7 TH 0706 1640	1.0 0.4	22 FR 0805 1557 2219	0.9 0.4 0.6
8 TH 0026 1032 1245 1423	0.6 0.9 0.8 0.8	23 FR 0012 0842 1600 1814	0.6 0.9 0.7 0.8	8 SU 0657 1703 1919 2128	1.0 0.7 0.7 0.7	23 MO 0721 1741	1.0 0.5	8 TU 0651 1657	1.0 0.6	23 WE 0744 1759	1.0 0.5	8 FR 0752 1609	1.0 0.3	23 SA 0009 0814 1633 2250	0.6 0.9 0.4 0.6
9 FR 0048 0748 1328 1507	0.6 0.9 0.8 0.8	24 SA 0042 0712 1631 2151	0.7 0.9 0.7 0.7	9 MO 0721 1457 2039 2207	1.0 0.6 0.7 0.7	24 TU 0758 1808	1.1 0.5	9 WE 0727 1651	1.1 0.5	24 TH 0812 1639	1.0 0.5	9 SA 0843 1645 2254	1.1 0.3 0.6	24 SU 0133 0824 1706 2322	0.6 0.9 0.4 0.6
10 SA 0101 0747 1410 1930	0.6 0.9 0.7 0.8	25 SU 0046 0748 1620	0.7 1.0 0.6	10 TU 0749 1556	1.1 0.6	25 WE 0816 1704 2322	1.1 0.5 0.7	10 TH 0804 1633	1.1 0.4	25 FR 0755 1715 2329	1.0 0.5 0.7	10 SU 0100 0944 1726 2330	0.6 1.0 0.3 0.7	25 MO 0223 0858 1546 2344	0.5 0.9 0.5 0.6
11 SU 0114 0802 1458 2034	0.7 1.0 0.7 0.8	26 MO 0825 1633 2240	1.1 0.6 0.7	11 WE 0816 1648 2300	1.1 0.5 0.7	26 TH 0016 0759 1743 2357	0.7 1.1 0.5 0.7	11 FR 0845 1715 2326	1.1 0.4 0.7	26 SA 0122 0823 1754	0.6 1.0 0.5	11 MO 0200 1053 1808	0.6 1.0 0.4	26 TU 0306 0934 1601 2228	0.5 0.9 0.5 0.7
12 MO 0123 0823 1554 2142	0.7 1.0 0.6 0.8	27 TU 0015 0851 1713 2323	0.7 1.1 0.5 0.7	12 TH 0030 0837 1735 2345	0.7 1.2 0.4 0.7	27 FR 0125 0830 1823	0.7 1.1 0.5	12 SA 0052 0926 1757	0.7 1.1 0.3	27 SU 0007 0218 0901 1831	0.7 0.6 1.0 0.5	12 TU 0011 0247 1200 1850	0.7 0.6 0.9 0.4	27 WE 0346 1013 1628 2253	0.5 0.8 0.5 0.7
13 TU 0133 0843 1654 2253	0.7 1.1 0.5 0.7	28 WE 0100 0819 1758	0.7 1.1 0.5	13 FR 0124 0848 1820	0.7 1.2 0.4	28 SA 0040 0216 0911 1904	0.7 0.7 1.1 0.5	13 SU 0903 1840	1.1 0.4	28 MO 0046 0305 0943 1647	0.7 0.6 1.0 0.5	13 WE 0055 0334 1302 1933	0.7 0.6 0.8 0.5	28 TH 0426 1050 1654 2323	0.5 0.8 0.5 0.7
14 WE 0148 0858 1749 2357	0.7 1.1 0.5 0.7	29 TH 0847 1845	1.1 0.5	14 SA 0031 0212 0914 1906	0.7 0.7 1.2 0.4	29 SU 0127 0302 0952 1945	0.7 0.7 1.1 0.5	14 MO 0045 0246 0930 1924	0.7 0.6 1.0 0.4	29 TU 0128 0348 1023 1709	0.7 0.6 1.0 0.5	14 TH 0140 0421 1401 1650	0.7 0.6 0.7 0.5	29 FR 0504 1126 1718 2353	0.5 0.7 0.5 0.8
15 TH 0213 0914 1841	0.7 1.1 0.5	30 FR 0103 0226 0926 1931	0.7 0.7 1.1 0.5	15 SU 0118 0257 0948 1952	0.7 0.7 1.1 0.4	30 MO 1034 1745 1922 2022	1.0 0.5 0.6 0.6	15 TU 0130 0334 1311 2007	0.7 0.6 1.0 0.5	30 WE 1103 1736 2358	0.9 0.5 0.7	15 FR 0228 0508 0704 1719	0.8 0.6 0.7 0.5	30 SA 0542 1158 1739	0.5 0.7 0.5
		31 SA 0159 0304 1007 2017	0.7 0.7 1.1 0.5					31 TH 0511 1141 1803	0.6 0.9 0.5			31 SU 0020 0620 0830 1758	0.8 0.6 0.6 0.5		

AUSTRALIA, WEST COAST - BUNBURY

LAT 33° 19' S LONG 115° 39' E

TIME ZONE -0800

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2014

SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 MO 0047 1118 1251 1457	0.8 0.5 0.5 0.5	16 TU 0058 0314 0426 1510	0.8 0.7 0.7 0.3	1 WE 0042 1127 1304 1426	0.8 0.4 0.4 0.4	16 TH 0113 1512 2223	0.7 0.4 0.7	1 SA 0125 1220 2117	0.7 0.4 0.6	16 SU 0900 1048 1233 1910	0.5 0.5 0.5 0.7	1 MO 0342 0954 1203 1833	0.5 0.5 0.5 0.8	16 TU 0517 0620 0813 1842	0.5 0.5 0.4 0.8
2 TU 0118 1511 1749 1842	0.8 0.4 0.5 0.5	17 WE 0147 0353 0524 1548	0.7 0.7 0.7 0.4	2 TH 0119 0331 0434 1447	0.8 0.7 0.7 0.3	17 FR 0014 0202 1258 2245	0.6 0.7 0.4 0.6	2 SU 0014 0601 1300 1905	0.6 0.6 0.4 0.7	17 MO 0509 0655 1246 1923	0.5 0.5 0.5 0.7	2 TU 0411 1101 1219 1908	0.4 0.5 0.5 0.8	17 WE 0504 1900	0.4 0.8
3 WE 0157 0345 0510 1530	0.8 0.8 0.8 0.4	18 TH 0245 0427 0618 1617	0.7 0.7 0.7 0.4	3 FR 0529 1304 2221	0.7 0.3 0.6	18 SA 0100 0301 1332 2003	0.6 0.6 0.4 0.6	3 MO 0120 0716 1334 1941	0.5 0.6 0.4 0.7	18 TU 0221 0808 1246 1934	0.5 0.5 0.5 0.8	3 WE 0432 1945	0.3 0.9	18 TH 0455 1923	0.4 0.9
4 TH 0558 1343 2325	0.8 0.4 0.7	19 FR 0709 1427 2105 2209	0.7 0.4 0.6 0.6	4 SA 0010 0622 1350 2215	0.6 0.8 0.3 0.6	19 SU 0142 0727 1354 2020	0.5 0.6 0.4 0.7	4 TU 0258 0915 1402 2021	0.4 0.6 0.5 0.8	19 WE 0302 0917 1252 1948	0.4 0.5 0.5 0.8	4 TH 0420 2012	0.3 0.9	19 FR 0355 1944	0.3 0.9
5 FR 0013 0645 1441 2335	0.7 0.9 0.3 0.6	20 SA 0750 1500 2128	0.7 0.4 0.6	5 SU 0101 0722 1431 2032	0.5 0.8 0.4 0.6	20 MO 0215 0813 1355 2025	0.5 0.6 0.5 0.7	5 WE 0355 1014 1328 2100	0.3 0.6 0.5 0.8	20 TH 0347 1015 1309 2003	0.4 0.6 0.5 0.9	5 FR 0450 1130 1214 1949	0.2 0.5 0.5 0.9	20 SA 0433 2002	0.3 1.0
6 SA 0101 0736 1524 2250	0.6 0.9 0.3 0.6	21 SU 0145 0817 1521 2152	0.6 0.7 0.4 0.6	6 MO 0204 0835 1512 2115	0.5 0.7 0.4 0.7	21 TU 0240 0853 1355 2027	0.5 0.6 0.5 0.7	6 TH 0445 1103 1324 2025	0.3 0.6 0.5 0.8	21 FR 0436 1106 1330 2021	0.3 0.6 0.5 0.9	6 SA 0530 2012	0.2 0.9	21 SU 0514 1153 1249 2022	0.2 0.5 0.5 1.0
7 SU 0148 0835 1604 2211	0.6 0.9 0.3 0.6	22 MO 0156 0834 1451 2144	0.5 0.8 0.4 0.7	7 TU 0328 0950 1551 2200	0.4 0.7 0.4 0.7	22 WE 0301 0931 1410 2039	0.4 0.6 0.5 0.8	7 FR 0534 1155 1351 2031	0.3 0.5 0.5 0.9	22 SA 0526 1154 1356 2045	0.3 0.5 0.5 0.9	7 SU 0614 2049	0.2 0.9	22 MO 0555 2049	0.2 1.0
8 MO 0235 0944 1645 2249	0.5 0.9 0.4 0.7	23 TU 0230 0900 1457 2126	0.5 0.7 0.4 0.7	8 WE 0436 1054 1624 2244	0.4 0.7 0.5 0.8	23 TH 0329 1012 1430 2100	0.4 0.6 0.5 0.8	8 SA 0625 1248 1426 2107	0.2 0.5 0.5 0.9	23 SU 0614 1242 1426 2113	0.2 0.5 0.5 0.9	8 MO 0657 1333 1440 2130	0.2 0.5 0.5 0.9	23 TU 0637 1300 1438 2123	0.2 0.5 0.5 0.9
9 TU 0415 1051 1728 2331	0.5 0.8 0.4 0.7	24 WE 0306 0933 1517 2145	0.4 0.7 0.4 0.7	9 TH 0535 1152 1434 2100	0.3 0.6 0.5 0.8	24 FR 0401 1104 1453 2126	0.3 0.6 0.5 0.8	9 SU 0717 1346 1500 2148	0.3 0.5 0.5 0.9	24 MO 0700 1330 1500 2146	0.2 0.5 0.5 0.9	9 TU 0738 2212	0.3 0.8	24 WE 0721 1345 1524 2200	0.2 0.6 0.5 0.9
10 WE 0301 1154 1810	0.5 0.7 0.5	25 TH 0343 1008 1542 2213	0.4 0.7 0.4 0.8	10 FR 0633 1250 1502 2133	0.3 0.6 0.5 0.8	25 SA 0436 1246 1515 2153	0.3 0.5 0.5 0.9	10 MO 0810 2231	0.3 0.8	25 TU 0747 2225	0.2 0.9	10 WE 0559 0649 0817 2254	0.3 0.3 0.3 0.8	25 TH 0804 1431 1610 2240	0.2 0.6 0.5 0.8
11 TH 0015 0640 1255 1542	0.7 0.5 0.7 0.5	26 FR 0419 1043 1606 2241	0.4 0.6 0.5 0.8	11 SA 0734 1351 1533 2215	0.3 0.5 0.5 0.8	26 SU 0719 1350 1540 2223	0.3 0.5 0.5 0.9	11 TU 0902 1136 1233 2315	0.3 0.4 0.4 0.8	26 WE 0835 1509 1617 2304	0.2 0.5 0.5 0.8	11 TH 0613 2042	0.3 0.7	26 FR 0848 1519 1657 2318	0.3 0.6 0.6 0.7
12 FR 0059 0747 2244	0.7 0.8 0.5	27 SA 0456 1115 1628 2308	0.4 0.6 0.5 0.8	12 SU 0840 1042 1210 2259	0.3 0.4 0.4 0.8	27 MO 0816 1445 1607 2256	0.3 0.5 0.5 0.8	12 WE 0953 2059	0.4 0.7	27 TH 0922 1600 1658 2343	0.3 0.6 0.5 0.8	12 FR 0640 2104 2303	0.3 0.7 0.7	27 SA 0147 0241 0930 2003	0.6 0.6 0.4 0.7
13 SA 1243 1458 1642 2327	0.4 0.5 0.5 0.8	28 SU 0530 1145 1650 2336	0.4 0.5 0.5 0.8	13 MO 0945 1120 1308 2342	0.4 0.4 0.3 0.8	28 TU 0909 1540 1638 2332	0.3 0.5 0.5 0.8	13 TH 0659 0850 1041 2124	0.4 0.4 0.4 0.7	28 FR 1009 2033 2232	0.3 0.7 0.6	13 SA 0019 0710 2124 2356	0.7 0.4 0.7 0.6	28 SU 0637 1650 1846 2014	0.4 0.7 0.7 0.7
14 SU 0552 0720 1337	0.5 0.6 0.4	29 MO 0949 1555 1714	0.4 0.5 0.5	14 TU 1043 2125 2228	0.4 0.7 0.7	29 WE 0959	0.3	14 FR 0736 0936 1126 2147	0.4 0.4 0.4 0.7	29 SA 0018 1053 2041	0.7 0.4 0.7	14 SU 0058 0738 1809	0.6 0.4 0.7	29 MO 0306 0439 0656 1730	0.5 0.5 0.4 0.8
15 MO 0012 0641 0803 1426	0.8 0.6 0.6 0.3	30 TU 0007 1039 1236 1403	0.8 0.4 0.4 0.4	15 WE 0027 1438 2154 2324	0.7 0.4 0.7 0.7	30 TH 0010 1048 2112 2237	0.8 0.3 0.7 0.7	15 SA 0816 1015 1204 1853	0.4 0.5 0.4 0.7	30 SU 0314 0443 1131 1800	0.5 0.6 0.4 0.7	15 MO 0800 1826	0.4 0.7	30 TU 0346 0556 0702 1810	0.4 0.4 0.4 0.8
				31 FR 0047 1136 2122 2323	0.7 0.3 0.7 0.6							31 WE 0427 1848	0.3 0.9		

AUSTRALIA, WEST COAST - GERALDTON

LAT 28° 47' S LONG 114° 36' E

TIME ZONE -0800

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2014

JANUARY				FEBRUARY				MARCH				APRIL			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 WE ●	0536 2134 0.1 1.0	16 TH ○	0521 1132 1329 2149 0.3 0.5 0.5 0.9	1 SA	0611 1204 1506 2329 0.3 0.6 0.5 0.9	16 SU	0527 1148 1506 2324 0.4 0.7 0.5 0.8	1 SA ●	0459 1100 1501 2241 0.3 0.7 0.5 0.9	16 SU	0418 1045 1617 2237 0.5 0.8 0.6 0.8	1 TU	0325 1119 1752 2358 0.6 0.9 0.5 0.7	16 WE	0241 1055 1735 2340 0.6 1.0 0.5 0.7
2 TH	0614 2228 0.1 1.0	17 FR	0541 1157 1408 2240 0.3 0.6 0.5 0.9	2 SU	0626 1233 1604 0.3 0.7 0.5	17 MO	0547 1214 1730 2359 0.4 0.7 0.5 0.8	2 SU	0521 1129 1648 2327 0.4 0.7 0.5 0.8	17 MO ○	0439 1111 1658 2314 0.5 0.8 0.5 0.8	2 WE	0308 1149 1825 0.6 1.0 0.5	17 TH	0234 1124 1815 0.6 1.0 0.5
3 FR	0647 1238 1420 2322 0.2 0.5 0.5 0.9	18 SA	0601 1222 1443 2131 0.3 0.6 0.5 0.8	3 MO	0014 0630 1303 1819 0.8 0.4 0.7 0.6	18 TU	0605 1239 1820 0.4 0.7 0.5	3 MO	0529 1157 1743 0.5 0.8 0.5	18 TU	0456 1136 1737 2349 0.5 0.8 0.5 0.7	3 TH	0032 0258 1221 2240 0.6 0.5 1.0 0.5	18 FR	0017 0242 1154 1855 0.7 0.6 1.0 0.5
4 SA	0709 1310 1507 0.2 0.5 0.5	19 SU	0623 1248 1515 0.3 0.6 0.5	4 TU	0055 0638 1337 2351 0.7 0.4 0.7 0.5	19 WE	0032 0621 1305 1908 0.7 0.4 0.8 0.5	4 TU	0007 0527 1226 1830 0.7 0.5 0.8 0.5	19 WE	0503 1201 1816 0.5 0.9 0.5	4 FR	0108 0315 1254 2330 0.6 0.5 1.0 0.5	19 SA	0056 0250 1228 2236 0.6 0.6 1.0 0.5
5 SU	0014 0715 1343 1546 0.8 0.3 0.6 0.6	20 MO	0000 0644 1247 0.8 0.3 0.7	5 WE	0135 0636 1417 0.6 0.4 0.8	20 TH	0107 0628 1334 2351 0.6 0.4 0.8 0.5	5 WE	0044 0437 1258 2317 0.6 0.5 0.9 0.5	20 TH	0024 0356 1228 1858 0.7 0.5 0.9 0.5	5 SA	0149 0340 1325 0.5 0.5 0.9	20 SU	0139 0302 1305 2325 0.6 0.6 1.0 0.5
6 MO	0101 0724 1444 0.7 0.3 0.6	21 TU	0702 1345 1625 2200 0.3 0.7 0.6 0.7	6 TH	0053 0215 0516 1505 0.5 0.5 0.4 0.8	21 FR	0144 0458 1407 0.6 0.4 0.8	6 TH	0121 0403 1332 0.5 0.5 0.9	21 FR	0100 0345 1257 2313 0.6 0.5 0.9 0.5	6 SU	0019 1354 0.5 0.9	21 MO	1346 1.0
7 TU	0738 1512 1737 1812 0.4 0.7 0.7 0.7	22 WE	0719 1418 2020 2213 0.4 0.7 0.6 0.6	7 FR ●	0538 1602 0.4 0.8	22 SA	0034 0224 0500 1447 0.5 0.5 0.4 0.9	7 FR	0012 0200 0424 1411 0.5 0.5 0.4 0.9	22 SA	0137 0350 1330 2359 0.6 0.5 0.9 0.4	7 MO ●	0107 1423 0.5 0.9	22 TU ●	0015 1437 0.5 0.9
8 WE ●	0130 0233 0614 1607 0.5 0.5 0.4 0.8	23 TH	0721 1456 2138 2207 0.4 0.7 0.6 0.6	8 SA	0337 1704 0.4 0.8	23 SU ●	0122 0318 0502 1545 0.4 0.4 0.4 0.9	8 SA ●	0111 0245 0448 1452 0.4 0.5 0.4 0.8	23 SU	0224 0402 1410 0.5 0.5 0.9	8 TU	0145 1515 0.5 0.9	23 WE	0101 1617 0.5 0.9
9 TH	0623 1702 0.4 0.8	24 FR ●	0117 0228 0610 1543 0.5 0.5 0.4 0.8	9 SU	0407 1800 0.4 0.9	24 MO	0216 1721 0.4 0.9	9 SU	0216 1547 0.4 0.8	24 MO ●	0046 1502 0.4 0.9	9 WE	0203 1655 0.5 0.8	24 TH	0129 0955 1138 1754 0.5 0.8 0.8 0.9
10 FR	0355 0507 0638 1752 0.4 0.4 0.4 0.9	25 SA	0608 1646 0.4 0.8	10 MO	0432 1848 0.3 0.9	25 TU	0311 1835 0.3 0.9	10 MO	0306 1703 0.4 0.8	25 TU	0138 1645 0.4 0.9	10 TH	0203 1830 0.5 0.8	25 FR	0133 0751 1327 1916 0.6 0.8 0.7 0.8
11 SA	0433 1836 0.3 0.9	26 SU	0305 1756 0.4 0.9	11 TU	0445 1935 0.3 0.9	26 WE	0345 1935 0.3 1.0	11 TU	0331 1812 0.4 0.8	26 WE	0223 1815 0.4 0.9	11 FR	0214 0857 1401 1959 0.5 0.8 0.7 0.8	26 SA	0154 0815 1452 2044 0.6 0.9 0.6 0.8
12 SU	0505 1915 0.3 0.9	27 MO	0355 1852 0.3 1.0	12 WE	0429 2026 0.3 0.9	27 TH	0405 2040 0.3 1.0	12 WE	0330 1915 0.4 0.9	27 TH	0247 1117 1238 1927 0.4 0.7 0.7 0.9	12 SA	0232 0911 1453 2058 0.6 0.8 0.6 0.8	27 SU	0218 0854 1551 2146 0.6 0.9 0.6 0.8
13 MO	0524 1951 0.3 0.9	28 TU	0428 1945 0.2 1.0	13 TH	0429 1043 1245 2119 0.3 0.6 0.6 0.9	28 FR	0430 1034 1356 2145 0.3 0.6 0.6 0.9	13 TH	0321 0959 1143 2019 0.4 0.6 0.6 0.9	28 FR	0306 0925 1414 2043 0.4 0.7 0.6 0.9	13 SU	0254 0934 1536 2144 0.6 0.9 0.6 0.8	28 MO	0214 0932 1639 2234 0.6 1.0 0.5 0.7
14 TU	0514 2026 0.3 0.9	29 WE	0449 2038 0.2 1.0	14 FR	0445 1100 1341 2206 0.3 0.6 0.6 0.9			14 FR	0334 1000 1440 2113 0.4 0.7 0.6 0.9	29 SA	0333 0946 1532 2147 0.5 0.8 0.6 0.8	14 MO	0312 1000 1617 2225 0.6 0.9 0.5 0.8	29 TU ●	0149 1009 1720 2314 0.6 1.0 0.5 0.7
15 WE	0507 1115 1234 2101 0.3 0.5 0.5 0.9	30 TH	0514 1118 1243 2137 0.2 0.5 0.5 1.0	15 SA ○	0505 1124 1424 2246 0.3 0.6 0.5 0.8			15 SA	0355 1021 1532 2158 0.4 0.7 0.6 0.8	30 SU	0359 1018 1630 2239 0.5 0.9 0.5 0.8	15 TU ○	0317 1027 1656 2303 0.6 1.0 0.5 0.8	30 WE	0154 1042 1752 2349 0.6 1.1 0.5 0.7
		31 FR ●	0544 1137 1408 2237 0.2 0.6 0.5 0.9					31 MO ●	0407 1049 1715 2320 0.6 0.9 0.5 0.7						

AUSTRALIA, WEST COAST - GERALDTON

LAT 28° 47' S LONG 114° 36' E

TIME ZONE -0800

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2014

MAY				JUNE				JULY				AUGUST			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 TH 0201 1115 2103	0.6 1.1 0.5	16 FR 0141 1050 1823	0.6 1.1 0.4	1 SU 0050 0230 1147 1902	0.7 0.6 1.0 0.5	16 MO 0101 0216 1200 2056	0.7 0.6 1.1 0.5	1 TU 0102 0309 1210 1905	0.7 0.6 0.9 0.5	16 WE 0112 0411 1249 1915	0.7 0.6 0.9 0.5	1 FR 0125 0702 1314 1914	0.7 0.6 0.7 0.5	16 SA 0147 1206 1411 1646	0.8 0.5 0.5 0.5
2 FR 0023 0217 1146 1846	0.6 0.6 1.0 0.5	17 SA 0017 0200 1129 2105	0.7 0.6 1.1 0.4	2 MO 0128 0300 1218 1931	0.7 0.7 1.0 0.5	17 TU 0146 0244 1249 2000	0.7 0.7 1.0 0.5	2 WE 0134 0340 1245 1929	0.7 0.7 0.9 0.5	17 TH 0148 0648 1336 1931	0.7 0.7 0.8 0.5	2 SA 0155 0755 1015 1928	0.7 0.6 0.7 0.5	17 SU 0232 1310 1504 1707	0.8 0.4 0.4 0.4
3 SA 0100 0243 1218 1919	0.6 0.6 1.0 0.5	18 SU 0100 0215 1208 2200	0.6 0.6 1.1 0.5	3 TU 1245 2001	1.0 0.6	18 WE 1339 2021	0.9 0.6	3 TH 0207 0412 1035 1953	0.7 0.7 0.8 0.5	18 FR 0233 1231 1425 1940	0.8 0.6 0.7 0.5	3 SU 0229 1244 1428 1750	0.8 0.6 0.6 0.5	18 MO 0327 1418	0.8 0.4
4 SU 1246 1957 2140 2327	1.0 0.5 0.6 0.6	19 MO 0156 0224 1251 2251	0.6 0.6 1.1 0.5	4 WE 1126 2031	0.9 0.6	19 TH 1045 1242 1434 2046	0.8 0.8 0.8 0.6	4 FR 0245 0448 1048 2014	0.8 0.7 0.8 0.6	19 SA 0326 1344 1522 1808	0.8 0.6 0.6 0.5	4 MO 0309 1324 1514 1753	0.8 0.5 0.5 0.5	19 TU 0433 1516	0.8 0.4
5 MO 1309 2036 2214	1.0 0.6 0.6	20 TU 1337 2339	1.0 0.5	5 TH 1137 2100	0.9 0.6	20 FR 0430 2046	0.8 0.6	5 SA 0327 0921 1057 2025	0.8 0.7 0.7 0.6	20 SU 0426 1459 1646 1830	0.9 0.5 0.5 0.5	5 TU 0400 1407	0.8 0.4	20 WE 0538 1554	0.8 0.4
6 TU 0004 1325 2124 2239	0.6 0.9 0.6 0.6	21 WE 1433	0.9	6 FR 0733 0940 1136 2127	0.8 0.8 0.8 0.6	21 SA 0515 1519 1707 1923	0.9 0.6 0.6 0.6	6 SU 0416 1918	0.8 0.6	21 MO 0523 1556	0.9 0.5	6 WE 0514 1451	0.9 0.4	21 TH 0633 1607	0.8 0.4
7 WE 0030 1355	0.6 0.9	22 TH 0011 1242 2336	0.6 0.8 0.6	7 SA 0642 2148	0.9 0.7	22 SU 0601 1615	1.0 0.6	7 MO 0512 1445 1643 1855	0.9 0.6 0.6 0.6	22 TU 0615 1637	0.9 0.4	7 TH 0624 1530	0.9 0.3	22 FR 0727 1550	0.8 0.4
8 TH 0037 1457	0.6 0.8	23 FR 0613 1521 1730	0.9 0.7 0.8	8 SU 0631 1452 1731 2205	0.9 0.7 0.7 0.7	23 MO 0646 1659	1.0 0.5	8 TU 0604 1526	1.0 0.5	23 WE 0701 1705	1.0 0.4	8 FR 0722 1602	1.0 0.3	23 SA 0824 1559 2210	0.8 0.4 0.6
9 FR 0036 0803 1320 1628	0.6 0.8 0.8 0.8	24 SA 0000 0642 1610 1903	0.7 0.9 0.7 0.7	9 MO 0658 1517 2049 2226	1.0 0.6 0.7 0.7	24 TU 0730 1732	1.0 0.5	9 WE 0652 1601	1.0 0.4	24 TH 0745 1655	1.0 0.4	9 SA 0818 1635 2235	1.0 0.3 0.6	24 SU 0109 0917 1618 2233	0.5 0.8 0.4 0.6
10 SA 0049 0752 1415 1917	0.6 0.9 0.7 0.8	25 SU 0029 0723 1649	0.7 1.0 0.6	10 TU 0731 1548 2138 2302	1.0 0.5 0.7 0.7	25 WE 0811 1737	1.1 0.5	10 TH 0740 1633	1.1 0.4	25 FR 0830 1649 2245	1.0 0.4 0.6	10 SU 0043 0919 1710 2302	0.5 1.0 0.3 0.6	25 MO 0159 1003 1642 2300	0.5 0.8 0.4 0.6
11 SU 0106 0808 1457 2043	0.7 0.9 0.7 0.8	26 MO 0806 1630 2153 2335	1.1 0.6 0.7 0.7	11 WE 0812 1625	1.1 0.5	26 TH 0850 1722 2306	1.1 0.5 0.6	11 FR 0830 1707 2259	1.1 0.3 0.6	26 SA 0042 0919 1705 2309	0.6 1.0 0.4 0.6	11 MO 0202 1020 1743 2334	0.5 0.9 0.3 0.6	26 TU 0244 1044 1705 2327	0.5 0.8 0.4 0.7
12 MO 0120 0833 1536 2132	0.7 1.0 0.6 0.8	27 TU 0848 1653 2234	1.1 0.5 0.7	12 TH 0855 1707 2257	1.1 0.4 0.7	27 FR 0038 0930 1739 2333	0.6 1.1 0.4 0.7	12 SA 0002 0923 1745 2330	0.6 1.1 0.3 0.6	27 SU 0132 1008 1725 2335	0.6 0.9 0.4 0.6	12 TU 0300 1114 1806	0.5 0.9 0.4	27 WE 0439 1120 1728 2353	0.5 0.8 0.4 0.7
13 TU 0123 0903 1615 2215	0.7 1.0 0.5 0.7	28 WE 0023 0928 1727 2311	0.7 1.1 0.5 0.7	13 FR 0029 0941 1754 2337	0.7 1.2 0.4 0.7	28 SA 0126 1013 1757	0.6 1.0 0.4	13 SU 0120 1018 1823	0.6 1.1 0.3	28 MO 0211 1051 1746	0.6 0.9 0.4	13 WE 0005 0405 1200 1815	0.7 0.5 0.8 0.4	28 TH 0526 1154 1748	0.5 0.7 0.4
14 WE 0108 0938 1657 2256	0.7 1.1 0.5 0.7	29 TH 0100 1004 1753 2344	0.7 1.1 0.5 0.7	14 SA 0111 1027 1844	0.6 1.2 0.4	29 SU 0001 0203 1054 1817	0.7 0.6 1.0 0.5	14 MO 0004 0224 1112 1853	0.6 0.6 1.0 0.4	29 TU 0002 0245 1130 1809	0.7 0.6 0.9 0.4	14 TH 0036 0556 1244 1821	0.7 0.5 0.7 0.5	29 FR 0018 0608 1227 1805	0.7 0.5 0.7 0.4
15 TH 0120 1014 1739 2336	0.7 1.1 0.4 0.7	30 FR 0130 1040 1813	0.6 1.1 0.5	15 SU 1114 1941	1.1 0.4	30 MO 0031 0237 1133 1841	0.7 0.6 1.0 0.5	15 TU 0038 0318 1202 1907	0.7 0.6 1.0 0.4	30 WE 0030 0319 1205 1831	0.7 0.6 0.8 0.4	15 FR 0110 0703 1326 1830	0.8 0.5 0.6 0.5	30 SA 0045 0650 1301 1814	0.7 0.4 0.6 0.4
		31 SA 0016 0200 1115 1835	0.7 0.6 1.1 0.5					31 TH 0057 0353 1239 1853	0.7 0.6 0.8 0.5			31 SU 0113 0734 1337 1628	0.7 0.4 0.5 0.4		

AUSTRALIA, WEST COAST - GERALDTON

LAT 28° 47' S LONG 114° 36' E

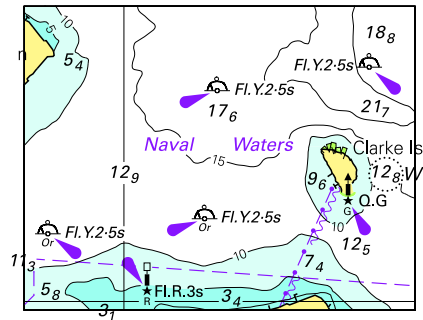
TIME ZONE -0800

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

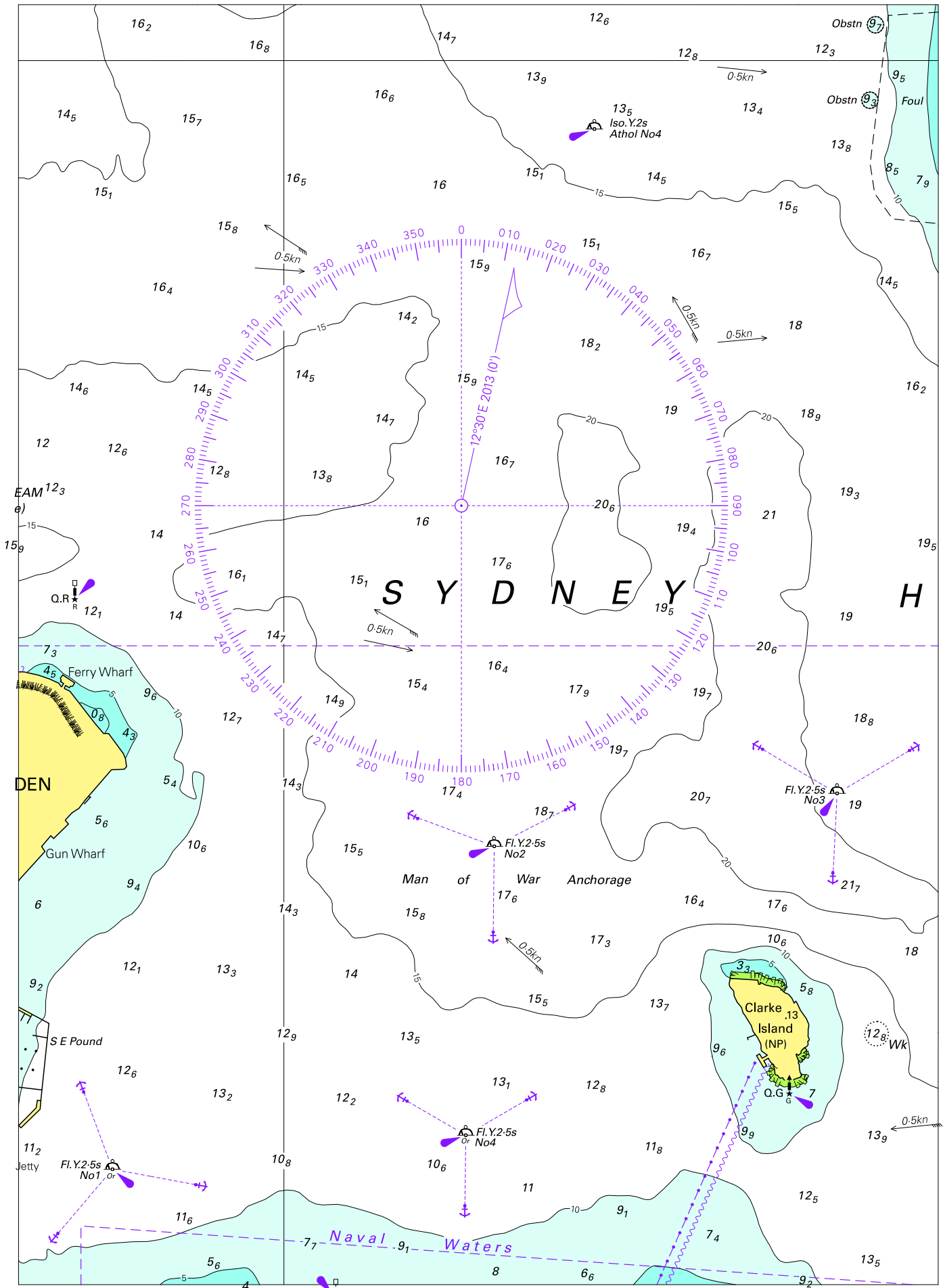
YEAR 2014

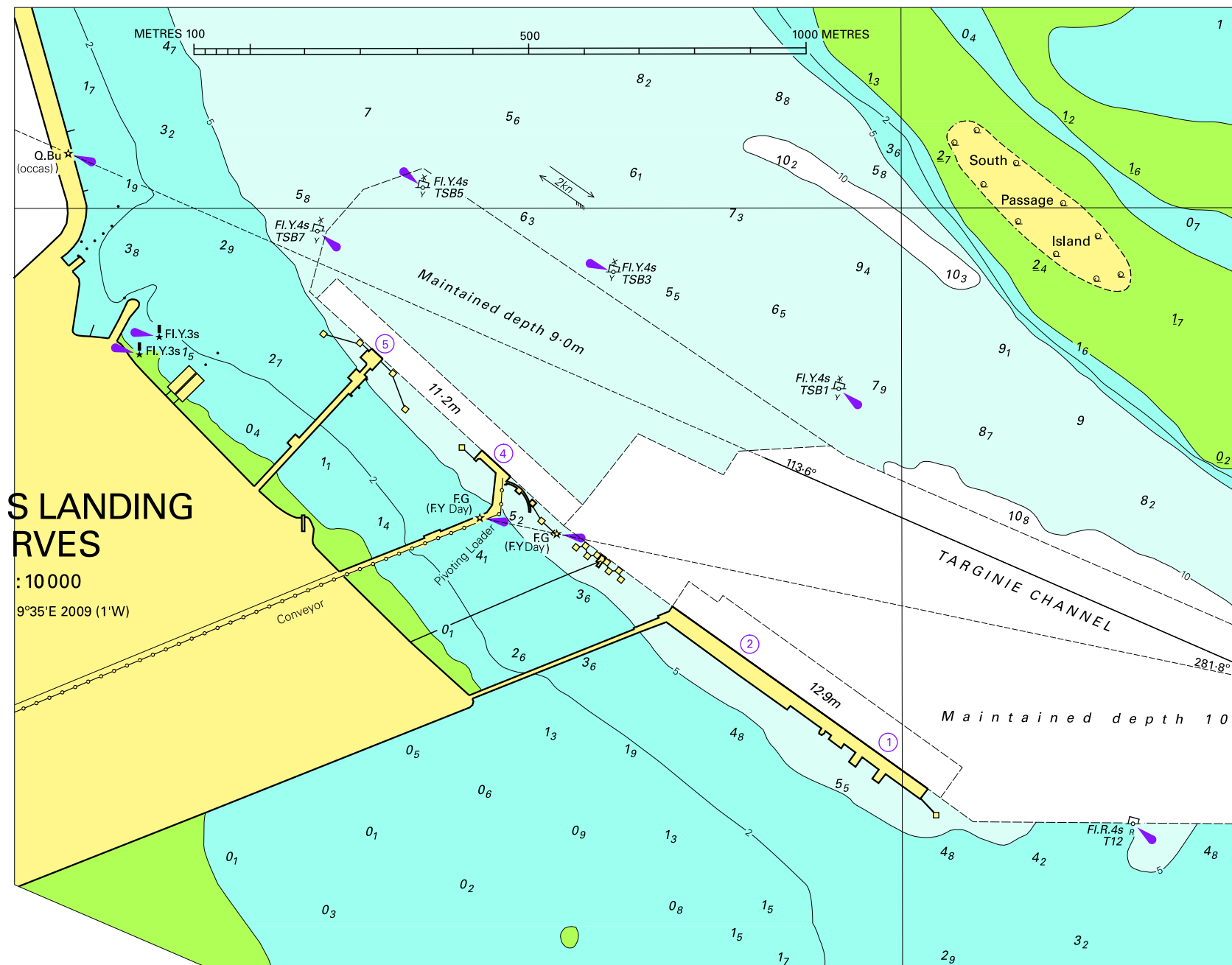
SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 MO 0143 1205 1417 1637	0.8 0.4 0.5 0.4	16 TU 0229 1328 ☉	0.7 0.3	1 WE 0142 1212	0.8 0.3	16 TH 1316 ☉	0.4	1 SA 0300 1244 2015	0.7 0.3 0.6	16 SU 0958 1919	0.4 0.7	1 MO 0307 0442 1035 1816	0.5 0.5 0.5 0.8	16 TU 0757 1817	0.4 0.8
2 TU 0219 1247 1510 1644 ☉	0.8 0.4 0.4 0.4	17 WE 0323 1418	0.7 0.3	2 TH 0226 1256 ☉	0.7 0.3	17 FR 0036 1330 ☉	0.6 0.4	2 SU 0006 0510 1252 1906	0.6 0.6 0.4 0.6	17 MO 1045 1917	0.4 0.7	2 TU 0354 0631 0804 1853	0.4 0.5 0.5 0.8	17 WE 0703 1840	0.4 0.8
3 WE 0305 1330	0.8 0.3	18 TH 0442 1448	0.7 0.4	3 FR 0333 1334	0.7 0.3	18 SA 0439 1320 2015	0.6 0.4 0.6	3 MO 0122 0647 1315 1930	0.5 0.6 0.4 0.7	18 TU 0245 0743 1133 1936	0.5 0.5 0.5 0.8	3 WE 0433 1933	0.4 0.9	18 TH 0410 1910	0.4 0.9
4 TH 0418 1413	0.8 0.3	19 FR 0556 1445	0.7 0.4	4 SA 0535 1400 2053	0.7 0.3 0.5	19 SU 0116 0624 1332 2011	0.5 0.6 0.4 0.6	4 TU 0234 0828 1340 2009	0.4 0.6 0.4 0.8	19 WE 0304 0856 1152 2000	0.4 0.5 0.5 0.8	4 TH 0500 2013	0.3 0.9	19 FR 0410 1945	0.3 0.9
5 FR 0600 1448	0.8 0.3	20 SA 0706 1444 2105	0.7 0.4 0.6	5 SU 0039 0659 1423 2029	0.5 0.7 0.3 0.6	20 MO 0207 0800 1355 2032	0.5 0.6 0.4 0.7	5 WE 0332 0937 1344 2049	0.3 0.5 0.5 0.8	20 TH 0334 0939 1206 2028	0.3 0.5 0.5 0.8	5 FR 0455 2049	0.2 0.9	20 SA 0428 2023	0.3 1.0
6 SA 0709 1517 2139	0.8 0.3 0.5	21 SU 0145 0815 1500 2124	0.5 0.7 0.4 0.6	6 MO 0156 0818 1451 2100	0.5 0.7 0.4 0.7	21 TU 0249 0859 1417 2100	0.4 0.6 0.4 0.7	6 TH 0422 1028 1320 2129	0.3 0.5 0.5 0.9	21 FR 0408 1016 1227 2100	0.3 0.5 0.5 0.9	6 SA 0522 1125 1215 2123 ☉	0.2 0.5 0.5 0.9	21 SU 0456 2105	0.2 1.0
7 SU 0054 0815 1549 2152	0.5 0.8 0.3 0.6	22 MO 0241 0909 1524 2151	0.5 0.7 0.4 0.6	7 TU 0307 0929 1518 2137	0.4 0.7 0.4 0.7	22 WE 0329 0942 1430 2128	0.4 0.6 0.4 0.7	7 FR 0507 1111 1327 2204 ☉	0.2 0.5 0.5 0.9	22 SA 0444 1052 1251 2135 ●	0.2 0.5 0.5 0.9	7 SU 0551 1151 1302 2156	0.2 0.5 0.5 0.9	22 MO 0530 1130 1245 2151 ●	0.2 0.5 0.5 1.0
8 MO 0209 0924 1622 2224	0.5 0.8 0.3 0.6	23 TU 0328 0953 1548 2218	0.4 0.7 0.4 0.7	8 WE 0408 1024 1521 2214 ☉	0.3 0.6 0.4 0.8	23 TH 0407 1020 1412 2155	0.3 0.6 0.4 0.8	8 SA 0545 1148 1336 2240	0.2 0.5 0.4 0.9	23 SU 0520 1129 1318 2213	0.2 0.5 0.5 0.9	8 MO 0611 2228	0.2 0.9	23 TU 0606 2238	0.2 0.9
9 TU 0323 1023 1650 2257 ☉	0.4 0.8 0.4 0.7	24 WE 0409 1031 1610 2245 ●	0.4 0.7 0.4 0.7	9 TH 0458 1110 1448 2247	0.3 0.6 0.4 0.8	24 FR 0444 1057 1359 2224 ●	0.3 0.6 0.4 0.8	9 SU 0613 2315	0.2 0.8	24 MO 0559 2252	0.2 0.9	9 TU 0626 1249 1411 2129	0.2 0.5 0.5 0.8	24 WE 0641 1245 1409 2326	0.2 0.5 0.5 0.9
10 WE 0436 1113 1702 2328	0.4 0.7 0.4 0.7	25 TH 0447 1107 1624 2312	0.4 0.6 0.4 0.7	10 FR 0539 1150 1443 2320	0.3 0.5 0.4 0.8	25 SA 0519 1131 1407 2253	0.2 0.5 0.4 0.8	10 MO 0634 1259 1415 2129	0.2 0.4 0.4 0.8	25 TU 0635 1247 1403 2333	0.2 0.5 0.5 0.9	10 WE 0647 1325 1445 2144	0.3 0.5 0.5 0.8	25 TH 0707 1325 1440	0.2 0.5 0.5
11 TH 0528 1155 1647 2359	0.4 0.6 0.4 0.8	26 FR 0524 1142 1519 2337	0.3 0.6 0.4 0.7	11 SA 0613 1226 1431 2354	0.3 0.5 0.4 0.8	26 SU 0555 1207 1420 2324	0.2 0.5 0.4 0.8	11 TU 0702 1341 1443 2151	0.3 0.4 0.4 0.8	26 WE 0710 1337 1416	0.2 0.5 0.5	11 TH 0713 2207	0.3 0.8	26 FR 0015 0727	0.8 0.3
12 FR 0613 1234 1601	0.4 0.5 0.4	27 SA 0600 1215 1514	0.3 0.6 0.4	12 SU 0645 1303 1444	0.3 0.4	27 MO 0630 1245 1433 2358	0.2 0.5 0.4 0.8	12 WE 0734 0953 1049 2223	0.3 0.3 0.3 0.7	27 TH 0015 0743	0.8 0.3	12 FR 0739 2231	0.3 0.7	27 SA 0102 0746 2203	0.7 0.7 0.7
13 SA 0031 1036 1314 1531	0.8 0.4 0.5 0.4	28 SU 0003 0638 1250 1519	0.8 0.3 0.5 0.4	13 MO 0030 0720 0857 1055	0.8 0.3 0.3 0.3	28 TU 0708 1327 1446	0.2 0.4 0.4	13 TH 0808 2257	0.3 0.7	28 FR 0100 0817 2234	0.8 0.3 0.7	13 SA 0803 1925 2027 2247	0.3 0.6 0.6 0.7	28 SU 0808 1815	0.4 0.7
14 SU 0107 1134 1357 1548	0.8 0.3 0.4 0.4	29 MO 0032 0717 1328 1530	0.8 0.3 0.5 0.4	14 TU 0103 1147 2250	0.7 0.3 0.7	29 WE 0034 0750 0916 1048	0.8 0.3 0.3 0.3	14 FR 0843 2322	0.4 0.7	29 SA 0858 1925 2120 2238 ☉	0.4 0.6 0.6 0.6	14 SU 0824 1916 ☉	0.4 0.7	29 MO 0146 0244 0801 1653 ☉	0.5 0.5 0.4 0.7
15 MO 0146 1230 1454 1611	0.8 0.3 0.4 0.4	30 TU 0104 1128	0.8 0.3	15 WE 0848 1000 1237 2337	0.4 0.4 0.3 0.7	30 TH 0114 1135	0.8 0.3	15 SA 0918 1958 ☉	0.4 0.6	30 SU 0200 0244 0943 1804	0.6 0.6 0.4 0.7	15 MO 0834 1826	0.4 0.7	30 TU 0307 0412 0656 1739	0.4 0.4 0.4 0.8
				31 FR 0158 1217 ☉	0.7 0.3									31 WE 0359 1824	0.4 0.9

To accompany Australian Notice to Mariners 946/2013

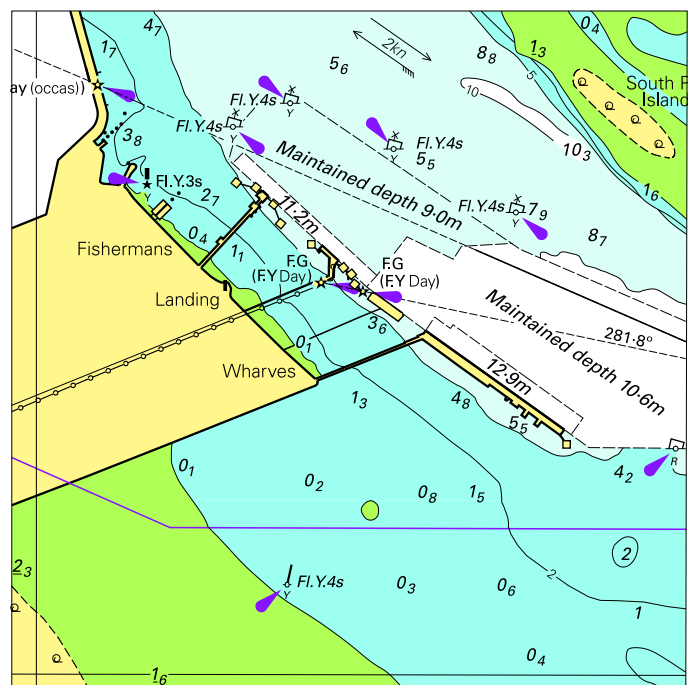


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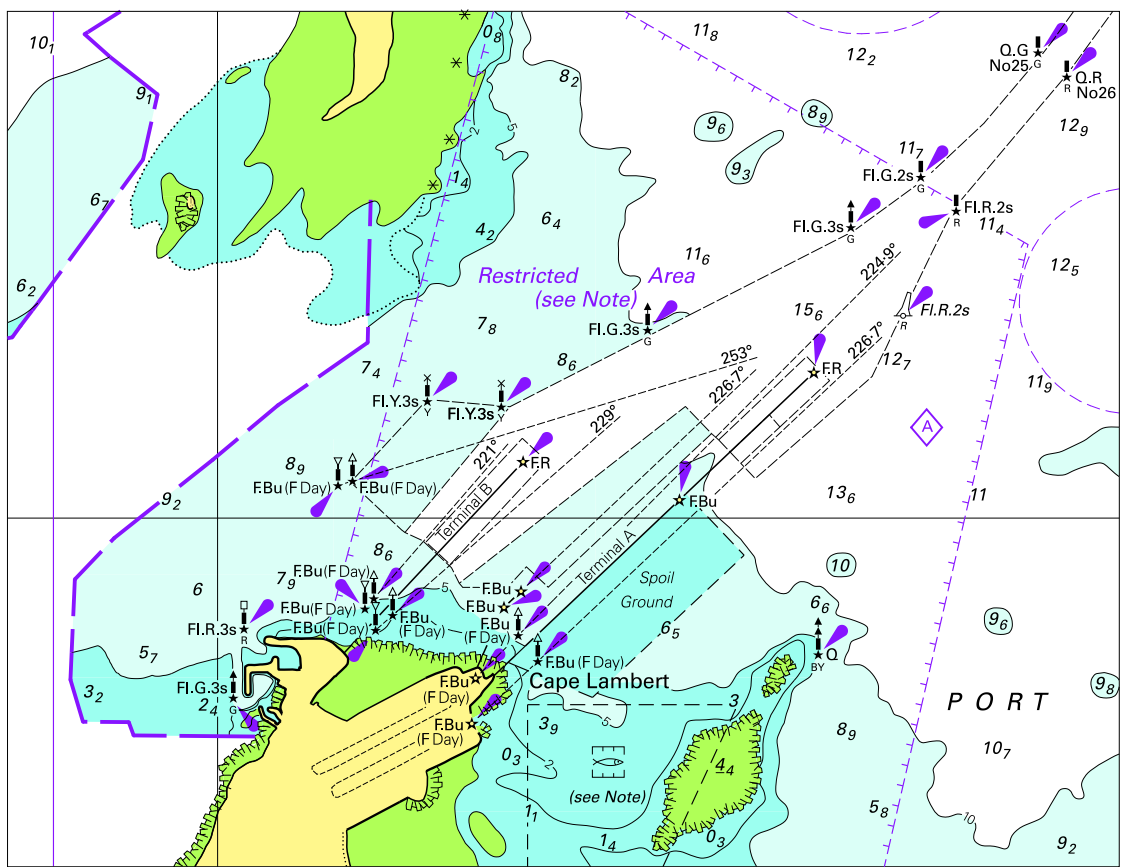
To accompany Australian Notice to Mariners 950/2013



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To accompany Australian Notice to Mariners 960/2013

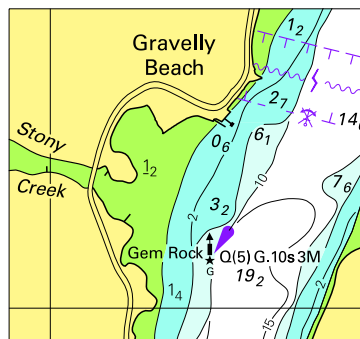


Block for chart Aus 55

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(147.0 x 113.1mm)

To accompany Australian Notice to Mariners 965/2013



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Block for chart Aus 168 (46.6 x 44.1mm)