9 March 2012 **Edition 5**

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

AUSTRALIAN NOTICES TO MARINERS

Notices 218 – 274

Published fortnightly by the Australian Hydrographic Service

Commodore R. NAIRN 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 5

Notices	Aus Chart, INT Chart, AHP
218	Aus 120, 125, 208, 444, 485, 840
219	Amendment to Australian Seafarers Handbook AHP20
220	Amendment to Australian Chart and Publication Maintenance Handbook AHP24
221	Aus 191
222	Aus 238
223	Aus 816, 817
224	Aus 256
225	Aus 827, 828
226	Aus 263
227	Aus 397, 554, 668
228	Aus 545, 554, 680
229	Aus 376
230	Aus 321, 4721, INT 721, AX 0321F, 4721F
231	Aus 323, 4722, INT 722, AX 4722F
232	Aus 55
233	Aus 327, 741, 4723, INT 723, AX 4723F
234	Aus 4071, INT 71
235	Aus 4070, 4071, INT 70, 71
236	Aus 121
237	Aus 347, 348
238	Aus 182
239(T)	Aus 193, 807, 808, AX 60193, 70193, 00808S
240(T)	Aus 814
241(T)	Aus 235, 236, 237, 238, 814, 815
242(T)	Aus 236
243(T)	Aus 236
244(T)	Aus 235
245(T)	Aus 244, 245
246(T)	Aus 252, 824
247(T)	Aus 255
248(T)	Aus 255
249(T)	Aus 255
250(T)	Aus 826, 827
251(T)	Aus 256, 257, 827
252(T)	Aus 386, 387, 388, 390, 391, 392, 393, 543, 545, 546, 547, 548, 554, 664, 678, 680, 4622, INT 622
253(T)	Aus 315
254(T)	Aus 901
255(T)	Aus 322, 323, 324, AX 0322F
256(T)	Aus 325, 326
257(T)	Aus 52, 53, 54
258(T)	Aus 55, 56, 740, 741
259(T)	Aus 327, 328, 4723, INT 723, AX 4723F
260(T)	Aus 327, 328, 742
261(T)	Aus 63, 64, 327, 328, 743, 744
262(T)	Aus 328, 4723, INT 723, AX 4723F
263(T)	Aus 328, 329, 4723, 4725, INT 723, 725, AX 4723F
264(T)	Aus 328, 329, 4723, 4725, INT 723, 725, AX 4723F
265(T)	Aus 329, 745, 746, 4723, 4725, INT 723, 725, AX 4723F
266(T)	Aus 343, 346, 4727, 4728, INT 727, 728
267(T)	Aus 137
268(T)	Aus 169
269(T)	Aus 144, 158
270(T)	Aus 154
271(T)	Aus 155
272(T)	Aus 143
273(T)	Aus 181
274(T)	Aus 4621, INT 621, AX 4621F

I

NUMERICAL INDEX OF CHARTS AFFECTED

Edition No 5

Aus Chart	Notices	Aus Chart	Notices
Aus 52	257(T)	Aus 485	218
Aus 53	257(T)	Aus 543	252(T)
Aus 54	257(T)	Aus 545	228, 252(T)
Aus 55	232, 258(T)	Aus 546	252(T)
Aus 56	258(T)	Aus 547	252(T)
Aus 63	261(T)	Aus 548	252(T)
Aus 64	261(T)	Aus 554	227, 228, 252(T)
Aus 120	218	Aus 664	252(T)
Aus 121	236	Aus 668	227
Aus 125	218	Aus 678	252(T)
Aus 137	267(T)	Aus 680	228, 252(T)
Aus 143	272(T)	Aus 740	258(T)
Aus 144	269(T)	Aus 741	233, 258(T)
Aus 154	270(T)	Aus 742	260(T)
Aus 155	271(T)	Aus 743	261(T)
Aus 158	269(T)	Aus 744	261(T)
Aus 169	268(T)	Aus 745	265(T)
Aus 181	273(T)	Aus 746	265(T)
Aus 182	238	Aus 807	239(T)
Aus 191	221	Aus 808	239(T)
Aus 193	239(T)	Aus 814	240(T), 241(T)
Aus 208	218	Aus 815	241(T)
Aus 235	241(T), 244(T)	Aus 816	223
Aus 236	241(T), 242(T), 243(T)	Aus 817	223
Aus 237	241(T)	Aus 824	246(T)
Aus 238	222, 241(T)	Aus 826	250(T)
Aus 244	245(T)	Aus 827	225, 250(T), 251(T)
Aus 245	245(T)	Aus 828	225
Aus 252	246(T)	Aus 840	218
Aus 255	247(T), 248(T), 249(T)	Aus 901	254(T)
Aus 256	224, 251(T)	Aus 4070	235
Aus 257	251(T)	Aus 4071	234, 235
Aus 263	226	Aus 4621	274(T)
Aus 315	253(T)	Aus 4622	252(T)
Aus 321	230	Aus 4721	230
Aus 322	255(T)	Aus 4722	231
Aus 323	231, 255(T)	Aus 4723	233, 259(T), 262(T), 263(T), 264(T), 265(T)
Aus 324	255(T)		
Aus 325	256(T)	Aus 4725	263(T), 264(T), 265(T)
Aus 326	256(T)	Aus 4727	266(T)
Aus 327	233, 259(T), 260(T), 261(T)	Aus 4728	266(T)
Aus 328	259(T), 260(T), 261(T), 262(T), 263(T), 264(T)	AX 0321F	230
		AX 0322F	255(T)
Aus 329	263(T), 264(T), 265(T)	AX 4621F	274(T)
Aus 343	266(T)	AX 4721F	230
Aus 346	266(T)	AX 4722F	231
Aus 347	237	AX 4723F	233, 259(T), 262(T), 263(T), 264(T), 265(T)
Aus 348	237		
Aus 376	229	AX 60193	239(T)
Aus 386	252(T)	AX 70193	239(T)
Aus 387	252(T)	AX 00808S	239(T)
Aus 388	252(T)		
Aus 390	252(T)		
Aus 391	252(T)		
Aus 392	252(T)		
Aus 393	252(T)		
Aus 397	227		
Aus 444	218		

I

INT Chart	Notices
INT 70	235
INT 71	234, 235
INT 621	274(T)
INT 622	252(T)
INT 721	230
INT 722	231
INT 723	233, 259(T), 262(T), 263(T), 264(T), 265(T)
INT 725	263(T), 264(T), 265(T)
INT 727	266(T)
INT 728	266(T)

I

218 AUSTRALIA - Products
Australian Hydrographic Service (AA586203)

New Chart

Chart	*Published*	*Title and description of amendments*	*Scale*	*Index Chart*	*Price*
Aus 125	9/03/2012	Australia - South Coast - Plans in South Australia (Sheet 1) Plans: Port Stanvac 35° 03'·14 S - 35° 07'·76 S 138º 24'·10 E - 138º 29'·47 E Oyster Bay 34° 52'·20 S - 34° 54'·82 S 137º 47'·67 E - 137º 51'·20 E Port Vincent 34° 44'·61 S - 34° 46'·80 S 137º 51'·40 E - 137º 54'·62 E Glenelg 34° 57'·05 S - 34° 59'·05 S 138º 28'·41 E - 138º 31'·00 E Wirrina Cove 35° 29'·62 S - 35° 30'·45 S 138º 13'·11 E - 138º 14'·97 E Cape Jervis 35° 36'·00 S - 35° 36'·69 S 138º 04'·93 E - 138º 05'·85 E Penneshaw 35° 42'·84 S - 35° 43'·35 S 137º 56'·31 E - 137º 57'·24 E *New chart providing improved coverage of Oyster Bay, Port Vincent and Glenelg.*	 1:25 000 1:20 000 1:15 000 1:10 000 1:10 000 1:5 000 1:5 000	Aus 5001	$35.00

New Chart to be published shortly

Chart	*Title*	*Scale*	*Expected Publication Date*	*Remarks*
Aus 120	Australia - South Coast - South Australia - Approaches to Thevenard	1:75 000	23 March 2012	
Aus 485	Australia - South Coast - South Australia - Spencer Gulf and Gulf St Vincent	1:500 000	23 March 2012	Metric replacement of chart Aus 444.

Chart permanently withdrawn

Chart	*On publication of new chart*
Aus 125	Aus 125

Publications postponed
Charts Aus 208 and Aus 840 previously advised to be published in February will now be published in the second quarter 2012.

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.

219 AUSTRALIA - Product - Amendment to Australian Seafarers Handbook AHP20
Australian Hydrographic Service (AA584882)

Delete paragraph 8.13 - Under Keel Clearances

Insert accompanying pages 145 - 147

I

220 AUSTRALIA - Product – Amendment to Australian Chart and Publication Maintenance Handbook AHP24
Australian Hydrographic Service (AA564396)

Australian Hydrographic Service product name change (all references)

Seafarer RNC change to AusRNC

Seafarer Tides change to AusTides

221* AUSTRALIA - NEW SOUTH WALES - Batemans Bay - Light buoy
Former Notice - 317(T)/2006 is cancelled
Roads and Maritime Services (AA583626, AA584081)

Aus 191 (plan, Batemans Bay Marina) [*239/2011*]

Insert	special spar buoy, without topmark	35º 42'.880 S	150º 11'.393 E
	contour, between	35º 42'.883 S	150º 11'.402 E
		35º 42'.880 S	150º 11'.393 E
		35º 42'.892 S	150º 11'.390 E
Delete	contour, between	35º 42'.88 S	150º 11'.40 E
		35º 42'.89 S	150º 11'.39 E

222* AUSTRALIA - QUEENSLAND - Brisbane River - Hamilton Reach - Light buoy
Maritime Safety Queensland Notice 177/2012 (AA585987)

Aus 238 [*1299/2011*]

Move	light buoy	27º 26'.78 S	153º 04'.48 E
	to	27º 26'.762 S	153º 04'.478 E

Aus 238 (plan, Hamilton Reach)

Move	light buoy	27º 26'.78 S	153º 04'.48 E
	to	27º 26'.762 S	153º 04'.478 E

223* AUSTRALIA - QUEENSLAND - Sandy Cape - Racon
L-3 Nautronix (AA586287)

Aus 816 [*1300/2011*]

Delete	racon	24º 43'.8 S	153º 12'.5 E

Aus 817 [*632/2011*]

Delete	racon	24º 43'.8 S	153º 12'.5 E

224* AUSTRALIA - QUEENSLAND - Townsville - Light buoy
Maritime Safety Queensland Notice 165/2012 (AA584855, AA585848)

Aus 256 [*186/2012*]

Insert	special conical light buoy, *Fl.Y.2·5s,* without topmark	19º 12'.599 S	146º 51'.155 E

I

225* AUSTRALIA - QUEENSLAND - Cassady - Light buoys
Maritime Safety Queensland (AA571585)

Aus 827 [*185/2012*]

Amend	light buoy to *Fl.4·3s*	18º 36'.9 S	146º 21'.6 E
	light buoy to *Fl.G.4·3s*	18º 37'.0 S	146º 20'.8 E

Aus 828 [*1240/2011*]

Amend	light buoy to *Fl.4·3s*	18º 36'.9 S	146º 21'.6 E
	light buoy to *Fl.G.4·3s*	18º 37'.0 S	146º 20'.8 E

226* AUSTRALIA - QUEENSLAND - Cairns - Trinity Inlet - Wrecks
Maritime Safety Queensland (AA584528)

Aus 263 [*135/2012*]

Delete	depth, 2_4m, and enclosing danger circle with legend, Wk	16º 55'.35 S	145º 47'.13 E
	depth, 2m, and enclosing danger circle with legend, Wk	16º 55'.38 S	145º 47'.11 E

227* PAPUA NEW GUINEA - Lamasa Island - Depth
MV *Barbarian* (AA584806, AA584871)

Aus 397 [*895/2011*]

Insert	upright sounding, *10m,* enclosed by approximate contour with legend, *Rep (2012)*	4º 42'.53 S	152º 44'.28 E

Aus 554 [*96/2012*]

Insert	upright sounding, *10m,* enclosed by approximate contour with legend, *Rep (2012)*	4º 42'.53 S	152º 44'.28 E

Aus 668 (plan, Sperber Point to Cape St George) [*NC 24/9/2010]*

Insert	upright sounding, *10m,* enclosed by approximate contour with legend, *Rep (2012)*	4º 42'.53 S	152º 44'.28 E

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228* PAPUA NEW GUINEA - Blanche Bay - Wrecks
New Zealand Hydrographic Authority (AA585360, AA585361)

Aus 545 [*96/2012*]

Insert	depth, *101m,* enclosed by danger circle with legend, *Wk*	4º 15'.49 S	152º 12'.91 E

Aus 554 [*227/2012*]

Insert	depth, *101m,* enclosed by danger circle with legend, *Wk*	4º 15'.49 S	152º 12'.91 E

Aus 680 [*96/2012*]

Insert	depth, *101m,* enclosed by danger circle with legend, *Wk*	4º 15'.49 S	152º 12'.91 E

Aus 680 (plan, Simpson and Matupit Harbours)

Insert	depth, *17$_5$m,* enclosed by danger circle with legend, *Wk*	4º 13'.434 S	152º 10'.515 E
	depth, *79m,* enclosed by danger circle with legend, *Wk*	4º 14'.644 S	152º 10'.257 E
	depth, *54m,* enclosed by danger circle with legend, *Wk*	4º 13'.676 S	152º 09'.818 E
Substitute	depth, *42m,* for depth, 31m	4º 13'.33 S	152º 09'.68 E
	depth, *23$_7$m,* for depth, 18$_1$m	4º 12'.73 S	152º 10'.10 E
	depth, *25$_3$m,* for depth, 21$_7$m	4º 12'.70 S	152º 10'.33 E
	depth, *32 m,* for depth, 27$_2$m	4º 12'.82 S	152º 10'.13 E
Delete	depth, 18$_1$m	4º 13'.45 S	152º 10'.52 E

229* AUSTRALIA - TORRES STRAIT - Cook Reef - Depths
HMAS *Mermaid* and HMAS *Paluma* (DHDB 1842635)

Aus 376 [*138/2012*]

Insert	accompanying block	10º 08'.0 S	141º 39'.0 E

230* INDONESIA - Sawu Sea - Nomenclature
Australian Hydrographic Service (AA585547)

Aus 321 [*851/2011*]

Amend	name to *SAWU SEA*	8º 53'.0 S	123º 37'.0 E

Aus 4721 (INT 721) [*139/2012*]

Amend	name to *SAWU SEA*	9º 04'.0 S	123º 03'.0 E

AX 0321F [*851/2011*]

Amend	name to *SAWU SEA*	8º 53'.0 S	123º 37'.0 E

AX 4721F [*139/2012*]

Amend	name to *SAWU SEA*	9º 04'.0 S	123º 03'.0 E

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231* AUSTRALIA - WESTERN AUSTRALIA - Lacepede Islands - Scientific instruments northwestwards
Australian Institute of Marine Science (AA585515)

Aus 323 [*142/2012*]

Insert	depth, *20m,* enclosed by danger circle with legend, *ODAS*	16º 23'.27 S	121º 35'.29 E
	depth, *20m,* enclosed by danger circle with legend, *ODAS*	15º 40'.79 S	121º 18'.23 E
	depth, *20m,* enclosed by danger circle with legend, *ODAS*	15º 32'.08 S	121º 14'.58 E

Aus 4722 (INT 722) [*1009/2011*]

Insert	depth, *20m,* enclosed by danger circle with legend, *ODAS*	16º 23'.3 S	121º 35'.3 E
	depth, *20m,* enclosed by danger circle with legend, *ODAS*	15º 40'.8 S	121º 18'.2 E
	depth, *20m,* enclosed by danger circle with legend, *ODAS*	15º 32'.1 S	121º 14'.6 E
	depth, *20m,* enclosed by danger circle with legend, *ODAS*	15º 13'.3 S	121º 06'.9 E
Delete	depth, 87m	15º 43'.0 S	121º 20'.0 E

AX 4722F [*1009/2011*]

Insert	depth, *20m,* enclosed by danger circle with legend, *ODAS*	16º 23'.3 S	121º 35'.3 E
	depth, *20m,* enclosed by danger circle with legend, *ODAS*	15º 40'.8 S	121º 18'.2 E
	depth, *20m,* enclosed by danger circle with legend, *ODAS*	15º 32'.1 S	121º 14'.6 E
	depth, *20m,* enclosed by danger circle with legend, *ODAS*	15º 13'.3 S	121º 06'.9 E
Delete	depth, 87m	15º 43'.0 S	121º 20'.0 E

232* AUSTRALIA - WESTERN AUSTRALIA - Port Walcott - Chart note
Australian Hydrographic Service (AA584177)

Aus 55 [*143/2012*]

Delete	note, LIGHT BUOYS	20º 37'.3 S	117º 29'.5 E
	legend, Light Buoys (see Note)	20º 23'.8 S	117º 27'.2 E

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233* AUSTRALIA - WESTERN AUSTRALIA - Dampier Archipelago - Scientific instruments northwestwards
Australian Institute of Marine Science (AA585515)

Aus 327 [*191/2012*]

Insert	depth, *20m,* enclosed by danger circle with legend, *ODAS*	20º 03'.28 S	116º 24'.97 E
	depth, *20m,* enclosed by danger circle with legend, *ODAS*	19º 41'.66 S	116º 06'.69 E
	depth, *20m,* enclosed by danger circle with legend, *ODAS*	19º 26'.13 S	115º 54'.92 E

Aus 741 [*191/2012*]

Insert	depth, *20m,* enclosed by danger circle with legend, *ODAS*	20º 03'.28 S	116º 24'.97 E

Aus 4723 (INT 723) [*1011/2011*]

Insert	depth, *20m,* enclosed by danger circle with legend, *ODAS*	19º 26'.1 S	115º 54'.9 E

AX 4723F [*1011/2011*]

Insert	depth, *20m,* enclosed by danger circle with legend, *ODAS*	19º 26'.1 S	115º 54'.9 E

234 INDIAN OCEAN - RED SEA - Salalah to Jabal at Tair - Light; aeronautical beacons
BA Notice 9/883/2012 (AA585807)

Aus 4071 (INT 71) [*1127/2011*]

Delete	light	15º 32'.0 N	41º 50'.0 E
	aero beacon	11º 32'.0 N	43º 05'.0 E
	aero beacon	16º 11'.0 N	52º 10'.0 E
	aero beacon	17º 05'.0 N	54º 03'.0 E

235 INDIAN OCEAN - Mozambique Channel - Ile Europa - Depth; aeronautical beacons
BA Notice 9/884/2012 (AA585808)

Aus 4070 (INT 70) [*1192/2011*]

Insert	depth, *759m,* enclosed by contour	21º 59'.4 S	40º 06'.0 E
Delete	aero beacon	17º 50'.0 S	36º 50'.0 E
	aero beacon	19º 45'.0 S	34º 55'.0 E
	aero beacon	22º 20'.0 S	40º 25'.0 E
	aero beacon	23º 15'.0 S	43º 45'.0 E
	aero beacon	18º 05'.0 S	49º 25'.0 E
	aero beacon	17º 00'.0 S	42º 40'.0 E

Aus 4071 (INT 71) [*234/2012*]

Insert	depth, *759m,* enclosed by contour	21º 59'.4 S	40º 06'.0 E
Delete	aero beacon	17º 50'.0 S	36º 50'.0 E
	aero beacon	19º 45'.0 S	34º 55'.0 E
	aero beacon	23º 50'.0 S	35º 25'.0 E
	aero beacon	22º 20'.0 S	40º 25'.0 E
	aero beacon	23º 15'.0 S	43º 45'.0 E
	aero beacon	24º 55'.0 S	47º 00'.0 E
	aero beacon	18º 05'.0 S	49º 25'.0 E
	aero beacon	17º 00'.0 S	42º 40'.0 E

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236* AUSTRALIA - SOUTH AUSTRALIA - Streaky Bay to Corvisart Bay - Depths
Australian Hydrographic Service (AA584885)

Aus 121 (plan, Streaky Bay) [*105/2012*]

Insert	accompanying block	32º 45'.5 S	134º 04'.0 E
	depth, *16m*	32º 38'.28 S	134º 02'.16 E
	depth, *28m,* enclosed by contour	32º 37'.52 S	133º 59'.60 E

237* AUSTRALIA - SOUTH AUSTRALIA - Cape Rebelais to Cape Banks - Depths
LADS Flight (AA585812 - AA585814)

Aus 347 [*1117/2010*]

Insert	depth, *15_9m,* enclosed by contour	37º 24'.34 S	139º 49'.66 E
Delete	depth, 28m	37º 24'.5 S	139º 49'.0 E

Aus 348 [*106/2012*]

Insert	depth, *15_9m,* enclosed by contour	37º 24'.34 S	139º 49'.66 E
	depth, *14_4m,* enclosed by contour	38º 00'.77 S	140º 25'.80 E
Delete	depth, 28m	37º 24'.5 S	139º 49'.0 E

238* AUSTRALIA - VICTORIA - Lakes Entrance - Cunninghame Arm - Lights
Australian Hydrographic Service (AA545987 - AA545990), Gippsland Ports (AA585694)

Aus 182 (plan, Lakes Entrance) [*1315/2011*]

Delete	light	37º 52'.97 S	147º 58'.79 E
	light	37º 52'.97 S	147º 58'.80 E
	light	37º 52'.96 S	147º 58'.86 E
	light	37º 52'.95 S	147º 58'.88 E

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239(T)/2012 AUSTRALIA - NEW SOUTH WALES - Bowen Island - Mine
Former Notice - 150(T)/2012 is cancelled
Date - Until 30 March 2012
Department of Defence (AA586206)

A buoyant mine, least depth *15m,* exists in position 35° 08'.22 S 150° 46'.38E.

Chart temporarily affected - Aus 193 - Aus 807 - Aus 808 - AX 60193 - AX 70193 - AX 00808S

240(T)/2012 AUSTRALIA - QUEENSLAND - Point Lookout - Scientific instruments northeastwards
Date - Until 30 September 2013
CSIRO (AA586284)

Subsurface scientific instruments, 20m below the surface, exist in positions 27° 19'.8 S 153° 46'.8 E and 27° 18'.6 S 153° 52'.2 E.

Chart temporarily affected - Aus 814

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241(T)/2012 AUSTRALIA - QUEENSLAND - Moreton Bay - Brisbane River - Depth information
Former Notice - 198(T)/2012 is cancelled
Brisbane Port Corporation (AA587696)

Available depths and under keel clearances (UKC) at 8 March 2012:

	Berth	*Metres*	*Remarks*
*	Fisherman Islands No10	14.0	
	Fisherman Islands No9	14.0	
	Fisherman Islands No8	14.1	
	Fisherman Islands No7	14.0	
	Fisherman Islands No6	14.0	
*	Fisherman Islands No5	14.0	
*	Fisherman Islands No4	14.0	
	Fisherman Islands No3	13.8	
	Fisherman Islands No2	14.0	
*	Fisherman Islands No1	13.6	
*	Fisherman Islands Grain and Woodchip	13.2	
	Caltex Fisherman Islands	14.8	
	Fisherman Islands Coal	14.0	
*	Fisherman Islands General Purpose	11.3	
	BP Luggage Point	13.9	
	Caltex Products	10.1	
	Cement Australia Co Wharf	9.7	
	BP Products	10.9	
	Shell	10.9	
	Pacific Terminals	10.5	
*	Incitec North	10.0	
*	Incitec South	10.4	
	Pinkenba 1	10.2	
	Pinkenba 2	10.2	
	Riverside Marina	-	
	Sugar Terminal	9.8	
	Cairncross Fitting Out Wharf	8.0	
	Cairncross Breasting Wharf	6.1	
	Brisbane Naval Wharf	4.3	
	Maritime No3	5.6	(not maintained)
	Maritime No2	8.3	
	Maritime No1	9.0	
*	Hamilton No4	10.3	
*	Hamilton No1	8.9	
*	Brisbane Cruise Ship Terminal	8.4	

	Metres	*UKC/Remarks*
Moreton Bay :		
North East Channel	5.5	1.5
North West Channel	15.0	2.3 (280m width)
North West Bypass Channel	9.2	1.6
Spitfire Channel	14.9	1.5 (600m width)
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
Brisbane River :		
Entrance Beacons and Bar Cutting	13.1	1.46
Fisherman Islands Swing Basin	13.5	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	8.7	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

I

242(T)/2012 AUSTRALIA - QUEENSLAND - Moreton Bay - Chain Banks - Light beacon destroyed
Maritime Safety Queensland Notice 188(T)/2012 (AA586782)

The starboard lateral light beacon, *Fl.G.2·5s* (27° 25'.28 S 153° 18'.28 E), has been destroyed; a starboard lateral light buoy, *Q.G,* exists in situ.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 236

243(T)/2012 AUSTRALIA - QUEENSLAND - Moreton Bay - Lamb Island - Harbour works
Date - Until 23 March 2012
Maritime Safety Queensland Notice 182(T)/2012 (AA586045)

Works associated with the reconstruction of the boat ramp (27° 37'.83 S 153° 22'.35 E) are in progress.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 236

244(T)/2012 AUSTRALIA - QUEENSLAND - Mooloolaba - Shoaling
Former Notice - 199(T)/2012 is cancelled
Maritime Safety Queensland Notice 196(T)/2012 (AA586697)

Shoaling with a least depth of *1.0m* exists within the main channel to Mooloolah River, between positions 26° 40'.74 S 153° 07'.95 E and 26° 40'.74 S 153° 07'.86 E. A least depth of *2.4m* exists in the vicinity of position 26° 40'.77 S 153° 07'.84. A least depth of *2.8m* exists between positions 26° 40'.74 S 153° 07'.87 E and 26° 40'.81 S 153° 07'.93 E.

The leading lights (26° 40'.97 S 153° 08'.17 E and 26° 40'.93 S 153° 08'.14 E) are temporarily unlit. A port lateral light buoy, *Q.R,* exists in position 26° 40'.78 S 153° 07'.88 E and marks the western edge of the shoal.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 235

I

245(T)/2012 AUSTRALIA - QUEENSLAND - Gladstone - Pipelines
Former Notice - 155(T)/2012 is cancelled
Date - Until 31 December 2012
Maritime Safety Queensland Notices 1115(T)/2011, 1132(T)/2011, 57(T)/2012, 173/2012 (AA567581, AA567881, AA578641, AA586341)

Submarine pipelines, marked by unlit orange buoys and lit special buoys, exist between;
23° 46'.87 S 151° 10'.14 E
23° 46'.69 S 151° 10'.70 E
23° 46'.68 S 151° 11'.06 E
23° 46'.94 S 151° 11'.59 E
23° 47'.06 S 151° 11'.96 E
and
23° 47'.06 S 151° 11'.96 E
23° 46'.77 S 151° 11'.65 E
and
23° 46'.56 S 151° 10'.03 E
23° 46'.65 S 151° 10'.71 E
23° 46'.64 S 151° 10'.88 E
23° 46'.56 S 151° 11'.12 E
23° 46'.38 S 151° 11'.38 E
and
23° 46'.65 S 151° 10'.71 E
23° 46'.31 S 151° 10'.98 E
23° 46'.07 S 151° 11'.07 E
and
23° 46'.18 S 151° 09'.95 E
23° 45'.49 S 151° 10'.34 E
23° 45'.40 S 151° 10'.55 E
and
23° 48'.52 S 151° 12'.98 E
23° 49'.14 S 151° 12'.61 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 244 - Aus 245

246(T)/2012 AUSTRALIA - QUEENSLAND - Proserpine River - Light beacons destroyed
Former Notice - 445(T)/2010 is cancelled
Maritime Safety Queensland Notice 169(T)/2012 (AA586327)

The starboard lateral light beacon, *Fl.G.3s* (20° 30'.62 S 148° 44'.03 E), has been destroyed; a special light buoy, *Fl.Y.3s,* exists in situ.

The starboard lateral light beacon, *Fl.G.3s* (20° 29'.88 S 148° 43'.52 E), has been destroyed; a starboard lateral light buoy, *Fl.G.3s,* exists in situ.

Chart temporarily affected - Aus 252 - Aus 824

I

247(T)/2012 AUSTRALIA - QUEENSLAND - Abbot Point - Drilling operations completed
Former Notice - 156(T)/2012 is cancelled
Maritime Safety Queensland (AA586568)

Cancel this notice on receipt.

Chart formerly affected - Aus 255

248(T)/2012 AUSTRALIA - QUEENSLAND - Abbot Bay - Clark Shoal - Drilling operations completed
Former Notice - 1277(T)/2011 is cancelled
Maritime Safety Queensland (AA586570)

Cancel this notice on receipt.

Chart formerly affected - Aus 255

249(T)/2012 AUSTRALIA - QUEENSLAND - Abbot Point - Scientific instruments
Date - Until 1 February 2013
Maritime Safety Queensland Notice 103(T)/2012 (AA587706)

Subsurface scientific instruments exist in the following positions:
19° 50'.75 S 148° 03'.77 E
19° 51'.70 S 148° 02'.61 E
19° 52'.76 S 148° 05'.27 E.

Chart temporarily affected - Aus 255

250(T)/2012 AUSTRALIA - QUEENSLAND - Cape Bowling Green - Light buoy restored
Former Notice - 1278(T)/2011 is cancelled
Australian Institute of Marine Science (AA586406)

Cancel this notice on receipt.

Chart formerly affected - Aus 826 - Aus 827

251(T)/2012 AUSTRALIA - QUEENSLAND - Cleveland Bay to Rowes Bay - Scientific instruments
Date - Until 31 March 2013
Maritime Safety Queensland Notice 194(T)/2012 (AA586719)

Special light buoys, *Fl.Y.4s,* exist in positions 19° 12'.82 S 146° 47'.53 E and 19° 14'.44 S 146° 49'.42 E.

Chart temporarily affected - Aus 256 - Aus 257 - Aus 827

252(T)/2012 PAPUA NEW GUINEA - Bismarck Sea - Seismic survey
Date - Until 5 June 2012
National Maritime Safety Authority PNG Notice 6(T)/2012 (AA586639)

MV *Duke* is conducting a survey in the area bounded by the following positions:
2° 40'.76 S 144° 59'.59 E
2° 19'.82 S 148° 36'.18 E
4° 01'.60 S 152° 14'.72 E
5° 13'.74 S 148° 08'.43 E.

Chart temporarily affected - Aus 386 - Aus 387 - Aus 388 - Aus 390 - Aus 391 - Aus 392 - Aus 393 - Aus 543 - Aus 545 – Aus 546 - Aus 547 - Aus 548 - Aus 554 - Aus 664 - Aus 678 - Aus 680 - Aus 4622 (INT 622)

I

253(T)/2012 AUSTRALIA - TIMOR SEA - Van Cloon Shoal - Seismic survey completed
Former Notice - 162(T)/2012 is cancelled
Albers Group (AA581760, AA582164)

Cancel this notice on receipt.

Chart formerly affected - Aus 315

254(T)/2012 EAST TIMOR - Dili - Point Laguebada - Light relit
Former Notice - 727(T)/2006 is cancelled
MTADCP Timor Leste (AA585819)

Cancel this notice on receipt.

Chart formerly affected - Aus 901

255(T)/2012 AUSTRALIA - WESTERN AUSTRALIA - Scott Reef to James Price Point - Scientific instruments
Date - Until 31 March 2013
MetOcean Engineers (AA586402)

Scientific instruments exist as follows:

Position	*Remarks*
14° 26'.41 S 121° 38'.66 E	subsurface, 3m above seabed
15° 00'.09 S 121° 46'.77 E	subsurface, 120m above seabed
15° 02'.78 S 121° 48'.06 E	subsurface, 85m above seabed
15° 10'.83 S 121° 42'.96 E	*Fl(5)Y.20s*
15° 23'.90 S 121° 35'.73 E	subsurface, 60m above seabed
15° 59'.04 S 121° 39'.25 E	*Fl(5)Y.20s*
15° 59'.45 S 121° 38'.86 E	*Fl(5)Y.20s*
15° 59'.54 S 121° 38'.64 E	*Fl(5)Y.20s*
15° 59'.74 S 121° 38'.65 E	*Fl(5)Y.20s*
16° 40'.35 S 121° 44'.38 E	*Fl(5)Y.20s*
16° 40'.27 S 121° 44'.21 E	*Fl(5)Y.20s*
16° 40'.17 S 121° 44'.32 E	*Fl(5)Y.20s*
17° 31'.31 S 122° 07'.48 E	5 poly floats
17° 31'.19 S 122° 07'.51 E	*Fl(5)Y.20s*
17° 31'.22 S 122° 07'.65 E	*Fl(5)Y.20s.*

Chart temporarily affected - Aus 322 - Aus 323 - Aus 324 - AX 0322F

256(T)/2012 AUSTRALIA - WESTERN AUSTRALIA - Rowley Shoals - Seismic survey completed
Former Notice - 206(T)/2012 is cancelled
Fugro (AA586158)

Cancel this notice on receipt.

Chart formerly affected - Aus 325 - Aus 326

I

257(T)/2012 AUSTRALIA - WESTERN AUSTRALIA - Port Hedland - Dredging operations
Former Notice - 620(T)/2011 is cancelled
Date - Until 31 May 2012
Port Hedland Port Authority (AA539585, AA586409)

Dredging operations are in progress in an area bounded by the following positions:
20° 19'.74 S 118° 33'.86 E
20° 19'.47 S 118° 34'.16 E
20° 19'.55 S 118° 34'.39 E
20° 19'.66 S 118° 34'.36 E
20° 19'.92 S 118° 34'.07 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 52 - Aus 53 - Aus 54

258(T)/2012 AUSTRALIA - WESTERN AUSTRALIA - Port Walcott - Dredging operations
Former Notice - 1402(T)/2010 is cancelled
Department of Transport WA Notice 24/2012 (AA586422)

The dredges *Castor* and *Rotterdam* and support vessels are conducting dredging operations in areas bounded by the following positions:
20° 35'.68 S 117° 10'.18 E
20° 35'.59 S 117° 09'.74 E
20° 35'.38 S 117° 09'.74 E
20° 35'.05 S 117° 10'.18 E
20° 35'.43 S 117° 10'.18 E
and
20° 35'.25 S 117° 11'.41 E
20° 34'.70 S 117° 10'.70 E
20° 34'.19 S 117° 11'.22 E
20° 33'.33 S 117° 13'.14 E
20° 34'.67 S 117° 11'.85 E
20° 34'.77 S 117° 11'.95 E
20° 35'.25 S 117° 11'.41 E.

The dredge material will be deposited in spoil grounds in the following positions:
20° 31'.0 S 117° 13'.1 E
20° 29'.0 S 117° 14'.8 E
20° 26'.0 S 117° 21'.0 E.

All vessels will display appropriate lights and shapes and will monitor VHF Ch 19.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 55 - Aus 56 - Aus 740 - Aus 741

I

259(T)/2012 AUSTRALIA - WESTERN AUSTRALIA - Montebello Islands - Seismic survey
Former Notice - 1222(T)/2011 is cancelled
Date - Until 13 April 2012
Chevron Australia Pty Ltd (AA567493, AA587355, AA587356, AA587359)

MV *Ramform Explorer,* towing ten 6000m cables, and support vessel MV *Nautika Pride* and MV *No Limit* are conducting a survey in the areas bounded by the following positions:
20° 00'.49 S 115° 12'.76 E
19° 39'.04 S 115° 12'.74 E
19° 37'.10 S 115° 16'.37 E
19° 37'.14 S 115° 22'.11 E
19° 39'.87 S 115° 26'.92 E
19° 58'.50 S 115° 26'.99 E
20° 03'.42 S 115° 17'.78 E
and
21° 00'.45 S 114° 59'.93 E
20° 44'.94 S 115° 04'.23 E
20° 46'.30 S 115° 09'.30 E
21° 01'.63 S 115° 04'.94 E.

Chart temporarily affected - Aus 327 - Aus 328 - Aus 4723 (INT 723) - AX 4723F

260(T)/2012 AUSTRALIA - WESTERN AUSTRALIA - Barrow Island - Pipeline
Former Notice - 209(T)/2012 is cancelled
Date - Until 30 June 2013
Australian Maritime Safety Authority (AA584979), Chevron Australia Pty Ltd (AA585081, AA585082, AA587422)

SPV *Lorelay* and support vessels *Highland Navigator* and *Calamity Jane* are conducting pipe laying operations between the following positions:
20° 41'.45 S 115° 24'.94 E
20° 33'.59 S 115° 05'.86 E
20° 08'.98 S 114° 49'.43 E
20° 02'.34 S 114° 46'.95 E
19° 54'.34 S 114° 39'.60 E
19° 48'.54 S 114° 36'.47 E
and
19° 49'.54 S 114° 34'.21 E
19° 47'.45 S 114° 38'.63 E
and
20° 34'.92 S 115° 08'.99 E
20° 33'.97 S 115° 04'.62 E
20° 29'.25 S 114° 53'.86 E
20° 24'.56 S 114° 50'.87 E
20° 31'.33 S 114° 49'.35 E
20° 29'.25 S 114° 53'.86 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 327 - Aus 328 - Aus 742

I

261(T)/2012 AUSTRALIA - WESTERN AUSTRALIA - Mary Anne Group to Ashburton Road - Scientific instruments
Date - Until 25 February 2013
Department of Transport WA Notice 25/2012 (AA586413, AA587483, AA587484)

Scientific instruments marked by special light buoys, *Fl.Y.6s,* exist in the following positions:

21° 19'.59 S 115° 23'.48 E	21° 32'.82 S 115° 04'.61 E
21° 19'.69 S 115° 09'.41 E	21° 32'.84 S 115° 01'.93 E
21° 31'.78 S 115° 05'.32 E	21° 33'.43 S 114° 59'.70 E
21° 31'.81 S 115° 05'.33 E	21° 33'.46 S 114° 59'.71 E
21° 32'.53 S 115° 03'.14 E	21° 34'.01 S 115° 00'.98 E
21° 32'.55 S 115° 03'.15 E	21° 34'.15 S 115° 03'.42 E
21° 32'.62 S 115° 02'.87 E	21° 35'.80 S 115° 01'.56 E
21° 32'.65 S 115° 02'.88 E	21° 35'.86 S 115° 01'.37 E
21° 32'.68 S 115° 02'.71 E	21° 35'.87 S 115° 01'.57 E
21° 32'.69 S 115° 02'.36 E	21° 35'.90 S 115° 01'.40 E
21° 32'.70 S 115° 02'.72 E	21° 35'.92 S 115° 01'.06 E
21° 32'.71 S 115° 02'.37 E	21° 35'.96 S 115° 01'.10 E
21° 32'.73 S 115° 02'.20 E	21° 36'.49 S 114° 58'.85 E
21° 32'.76 S 115° 02'.21 E	21° 36'.55 S 114° 58'.85 E
21° 32'.81 S 115° 01'.92 E	21° 37'.87 S 114° 41'.40 E

Chart temporarily affected - Aus 63 - Aus 64 - Aus 327 - Aus 328 - Aus 743 - Aus 744

262(T)/2012 AUSTRALIA - WESTERN AUSTRALIA - Barrow Island - Drill rig northwestwards
Date - Until 2 April 2012
Chevron Australia Pty Ltd (AA587761)

Drill rig *Atwood Osprey* is conducting drilling operations in position 20° 24'.47 S 114° 50'.95 E.

Chart temporarily affected - Aus 328 - Aus 4723 (INT 723) - AX 4723F

263(T)/2012 AUSTRALIA - WESTERN AUSTRALIA - North West Cape - Drill rig northwestwards
Date - Until 5 April 2012
MODU *Atwood Eagle* (AA586066, AA586067)

Drill rig *Atwood Eagle* is conducting drilling operations in position 20° 52'.50 S 113° 44'.56 E.

Chart temporarily affected - Aus 328 - Aus 329 - Aus 4723 (INT 723) - Aus 4725 (INT 725) - AX 4723F

264(T)/2012 AUSTRALIA - WESTERN AUSTRALIA - North West Cape - Drill rig northwestwards
Date - Until 23 March 2012
MODU *Ocean America* (AA586068, AA586069)

Drill rig *Ocean America* is conducting drilling operations in position 21° 32'.24 S 113° 52'.54 E.

Chart temporarily affected - Aus 328 - Aus 329 - Aus 4723 (INT 723) - Aus 4725 (INT 725) - AX 4723F

I

265(T)/2012 AUSTRALIA - WESTERN AUSTRALIA - North West Cape to Point Maud - Seismic survey
Date - Until 21 March 2012
Shell Development (Australia) Pty Ltd (AA586919, AA586920)

RV *Voyager Explorer,* with an 8000m towed array, is conducting a survey between the following positions:
21° 37'.0 S 113° 26'.0 E
22° 05'.0 S 113° 11'.0 E
23° 16'.0 S 113° 20'.0 E
and in an area bounded by the following positions:
22° 25'.0 S 112° 45'.0 E
22° 25'.0 S 113° 30'.0 E
22° 55'.0 S 113° 30'.0 E
22° 55'.0 S 112° 35'.0 E.

Chart temporarily affected - Aus 329 - Aus 745 - Aus 746 - Aus 4723 (INT 723) - Aus 4725 (INT 725) - AX 4723F

266(T)/2012 AUSTRALIA - SOUTH AUSTRALIA - Great Australian Bight - Ceduna Terrace - Seismic survey
Former Notice - 166(T)/2012 is cancelled
Date - Until 12 May 2012
NT Shipping Agencies (AA565932, AA581292, AA586826)

MV *Ramform Sterling,* with a 9100m towed array, and support vessels, *Ocean Dynasty* and *Unlimited,* are conducting a survey in the areas bounded by the following positions:
33° 34'.25 S 129° 23'.50 E
33° 34'.25 S 130° 45'.00 E
34° 29'.50 S 131° 52'.00 E
35° 30'.00 S 131° 52'.00 E
35° 30'.00 S 129° 23'.50 E.

Chart temporarily affected - Aus 343 - Aus 346 - Aus 4727 (INT 727) - Aus 4728 (INT 728)

267(T)/2012 AUSTRALIA - SOUTH AUSTRALIA - Port Adelaide - Harbour works
Date - Until 30 June 2012
Department of Planning, Transport and Infrastructure SA Notice 8/2012 (AA586051)

Harbour works are in progress at berth H (34° 49'.98 S 138° 30'.41 E).

A barge, which has deployed anchors, is onsite and will display appropriate lights and shapes; the plant may extend 35m into the channel.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 137

268(T)/2012 AUSTRALIA - TASMANIA - Georges Bay - Buoy off station
Date - Until 27 April 2012
Marine and Safety Tasmania Notice M33/2012 (AA586827)

The buoy (41° 16'.23 S 148° 20'.29 E) is off station.

Chart temporarily affected - Aus 169

269(T)/2012 AUSTRALIA - VICTORIA - Port Phillip - South Channel - Obstruction removed
Former Notice - 214(T)/2012 is cancelled
Victorian Notice 53/2012 (AA587592, AA587824)

Cancel this notice on receipt.

Chart formerly affected - Aus 144 - Aus 158

I

270(T)/2012 AUSTRALIA - VICTORIA - Port Phillip - Port Melbourne - Nelson Pier - Harbour works
Date - Until 31 July 2012
Victorian Notice 38(T)/2012 (AA586508)

Harbour works associated with the construction of a new dolphin are in progress at Nelson Pier.

The dolphin will be established in position 37° 51'.64 S 144° 54'.77 E and the *F* light (37° 51'.64 S 144° 54'.77 E) will be moved to this position.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 154

271(T)/2012 AUSTRALIA - VICTORIA - Port Phillip - St Kilda - Shoaling
Victorian Notice 52(T)/2012 (AA587715)

Shoaling with a least depth of *-0.5m* exists at St Kilda Pier in position 37° 51'.87 S 144° 58'.07 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 155

272(T)/2012 AUSTRALIA - VICTORIA - Port Phillip - Patterson River - Harbour works completed
Former Notice - 1110(T)/2011 is cancelled
Victorian Notice 119(T)/2011 (AA561577)

Cancel this notice on receipt.

Chart formerly affected - Aus 143

273(T)/2012 AUSTRALIA - VICTORIA - Middle Ground to Midge Channel - Beacons restored
Former Notices - 1302(T)/2009, 884(T)/2011 are cancelled
Gippsland Ports (AA587752)

Cancel this notice on receipt.

Chart formerly affected - Aus 181

274(T)/2012 AUSTRALIA - CORAL SEA - Light buoy off station
Former Notice - 217(T)/2012 is cancelled
Australian Bureau of Meteorology (AA587419)

The light buoy, *Fl.Y.2s* (14° 47'.8 S 153° 34'.7 E), is drifting and currently in position 13° 00'.89 S 157° 50'.13 E (6 Mar 2012).

Chart temporarily affected - Aus 4621 (INT 621) - AX 4621F

HYDROGRAPHIC REPORTS

Locality	*Report*	*Ship/Authority*	*Observer*
NSW – Garden Island	Beacon	HMAS *ANZAC*	
QLD – Weipa	Lights		M Templeton
WA – North West Cape	Light buoy	MV *Britoil 20*	L Zidek

NAVIGATION WARNINGS

The following radio messages have been received during the period to 9 March 2012. 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

053 Cancelled.
054 Drill rig *Ocean America* in position 21º 32'·23 S 113º 52'·54 E. 2·5M clearance requested.
055 Drill rig *Atwood Eagle* in position 20º 52'·50 S 113º 44'·55 E. 2·5M clearance requested.
056 Cancelled.
057 Drill rig *Ocean Patriot* in position 11º 56'·51 S 124º 58'·43 E. 2·5M clearance requested.
058 Cancelled.
059 Cancelled.
060 Cancelled.
061 Cancelled.
062 Cancelled.
063 Cancelled.
064 Cancelled.

NAVAREA X WARNINGS

003 Cautionary notification cancelled. Further information can be obtained from the Australian Customs and Border Protection notice No. 2012/09 or http://www.customs.gov.au/webdata/resources/files/ACN201209.pdf
004 Cancelled.

Navigational warnings in force as at 090001UTC MAR 12.

Auscoast
2011 288 289 290 293 318 319 321 323 328 333 336 337 338 339
2012 002 025 047 052 054 055 057

Navarea X
2012 003

Summary of mobile drilling rigs as at 090001UTC MAR 12.

Name	*Position*
Ocean Patriot	11º 56'·51 S 124º 58'·43 E
Ensco 109	12º 40'·20 S 124º 32'·22 E
Transocean Legend	20º 31'·70 S 116º 40'·70 E
Ensco 104	20º 41'·01 S 115º 01'·13 E
Atwood Osprey	20º 24'·51 S 114º 50'·98 E
Nan Hai 6	21º 26'·03 S 114º 01'·95 E
Atwood Eagle	20º 52'·50 S 113º 44'·55 E
Ocean America	21º 32'·23 S 113º 52'·54 E
Stena Clyde	38º 20'·97 S 141º 41'·01 E

NAVAREA XIV WARNINGS

Nil.

Navarea XIV warnings in force as at 090001UTC MAR 12.

Nil.

8.21 Under Keel Clearance Management System in the Torres Strait

8.21.1 Introduction

1. AMSA's Under Keel Clearance Management (UKCM) System was declared operational on the 16th December 2011 (Marine Notice 17/2011). The Torres Strait lies between Papua New Guinea and the northern tip of the Australian continent and is a vital shipping route for the Asia-Pacific region. Numerous large vessels transit Torres Strait and face many challenges to safe navigation due to the numerous reefs, shallow waters, complex tides and strong tidal streams.

2. The UKCM system is web-based and uses accurate vessel information, hydrodynamic modelling and environmental data from tide, stream, wind and wave sensors to estimate a vessel's UKC. The UKCM system allows vessel operators and coastal pilots to plan the safe and efficient passage of deep draught vessels through Torres Strait.

8.21.2 Operational Status

1. The operational status of the UKCM system means that vessel operators, masters and watchkeepers, pilotage providers and coastal pilots are able to use the system to:

   - assess loading scenarios for deep draught vessels,
   - optimise the scheduling of deep draught transits and pilot transfers, and
   - improve the safety and efficiency of deep draught transits.

2. As a general principle, mariners are to use all available means to navigate safely and therefore, as an aid to navigation, the UKCM system can provide relevant information and may be used for planning deep draught transits through Torres Strait.

3. Based on monitoring of the UKCM system over the course of system trials, AMSA recommends use of the UKCM system for all vessels with a draught of nine metres or more. Circumstances may warrant use of the UKCM system for vessels of lesser draught.

4. The UKCM system is specifically designed to complement other measures to protect the marine environment and to deliver enhanced safety and efficiency of navigation in Torres Strait and the Great Barrier Reef. Additionally, the system will:

   - validate the existing under keel safety margin for deep draught vessels; and
   - help evaluate the appropriateness of the draught limit regime.

5. AMSA considers the use of the system to be an effective way of minimising UKC risks and, when integrated into a pilotage provider's safety management system, is considered by AMSA to satisfy the UKC aspects of the safety management system required by Marine Orders 54.

6. Precautions have been taken to ensure that the information in and generated by, the UKCM system is accurate. However, the responsibility for safe navigation continues to reside with mariners (masters and pilots) through the appropriate use of the system in conjunction with other aids to navigation, official hydrographic products and prudent seamanship, which includes voyage planning as defined in IMO Resolutions. AMSA accepts no liability arising from misuse of the system or misinterpretation of information provided or generated.

8.21.3 UKCM System Access

1. Access to the UKCM system is available for approved users through a vetted registration process. To request registration, please follow the registration application process available at:

Link:	https://ukcm.amsa.gov.au

8.21.4 UKCM System Services

1. The system provides the services to authorised users as seen in table on next page.

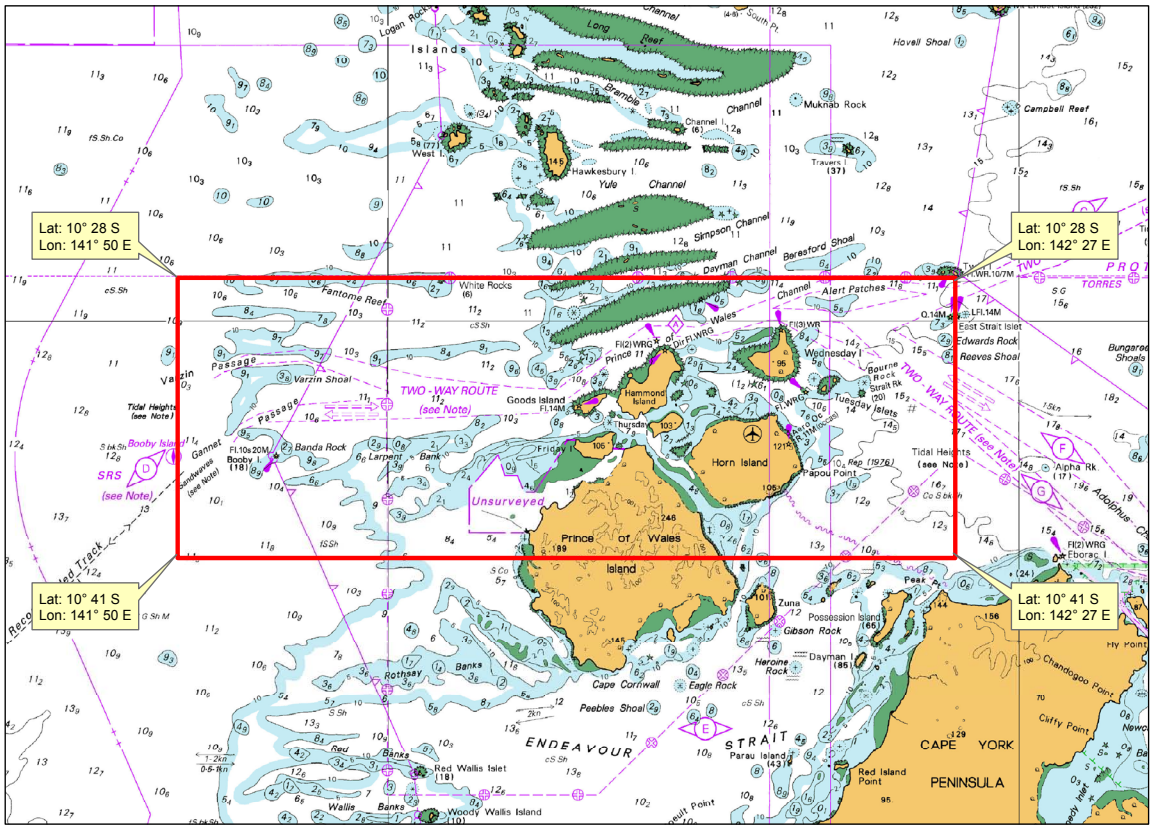
Under Keel Management System Services

Service	Description
Registration Services	Service to support the management of users registration.
Vessel Service	Service to input relevant vessel particulars.
Voyage Planning Service	Service to support the long term planning of transits through the Torres Strait. Includes determination of maximum safe draught for a transit and tide windows.
Transit Planning Service	Service to support the planning of transits through the Torres Strait. Includes determination of maximum draught for a transit, times at key way points (and speeds to make good those way points) and the resultant net UKC throughout the transit.
Met Ocean Data Service	Service to view met-ocean sensor data and predictions.
Business Messages Service	Service to monitor business messages.
System Monitoring Service	Service to monitor and report on the components of the system.
Reporting Service	Service to support the request of standard and generic reports.
Help Service	Services to support the provision of electronic help.

8.21.5 Area of Operation

1. The UKCM System is in use for vessels transiting the Prince Of Wales Channel in Torres Strait as seen in diagram below.

Area of Operation of UKCM System in Torres Strait



8.21.6 Under Keel Clearance Requirements for Torres Strait (Marine Orders 54)

1. Vessels may transit the Prince of Wales Channel, the Gannet or the Varzin Passages only if the ship:

   (a) does not have a draught that exceeds 12.20 m; and

   (b) has a net under keel clearance of:

      (i) if the ship has a draught of less than 11.90 m - at least 1 m; or

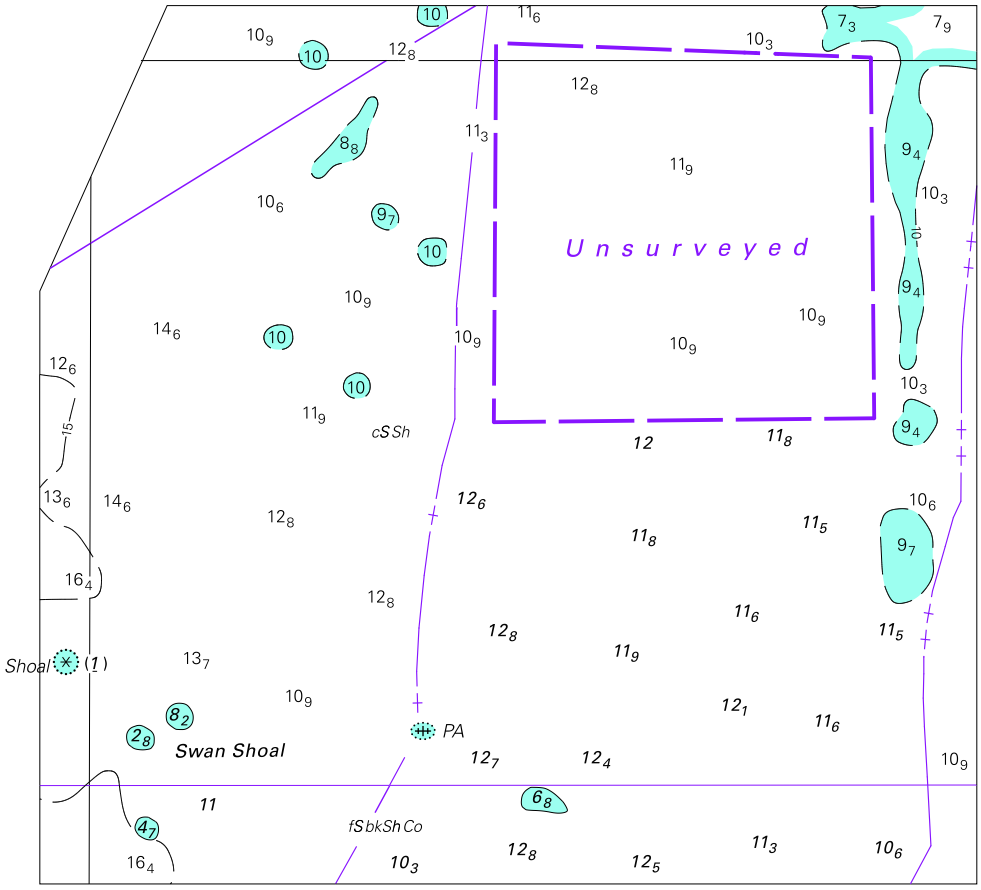
      (ii) if the ship has a draught of 11.90 m or more - at least 10% of the draught of the ship; or

      (iii) for a ship piloted through the Gannet or Varzin Passages - at least 1 m.

8.21.7 Summary

1. The UKCM system is one of a number of protective measures implemented by AMSA to enhance the safety of shipping in Torres Strait and the Great Barrier Reef. Complementing the system of pilotage and the recent extension to REEFVTS coverage, the UKCM system provides a modern aid to navigation that seamlessly links complex shore-based calculations with ship-based operations.

To accompany Australian Notice to Mariners 229/2012

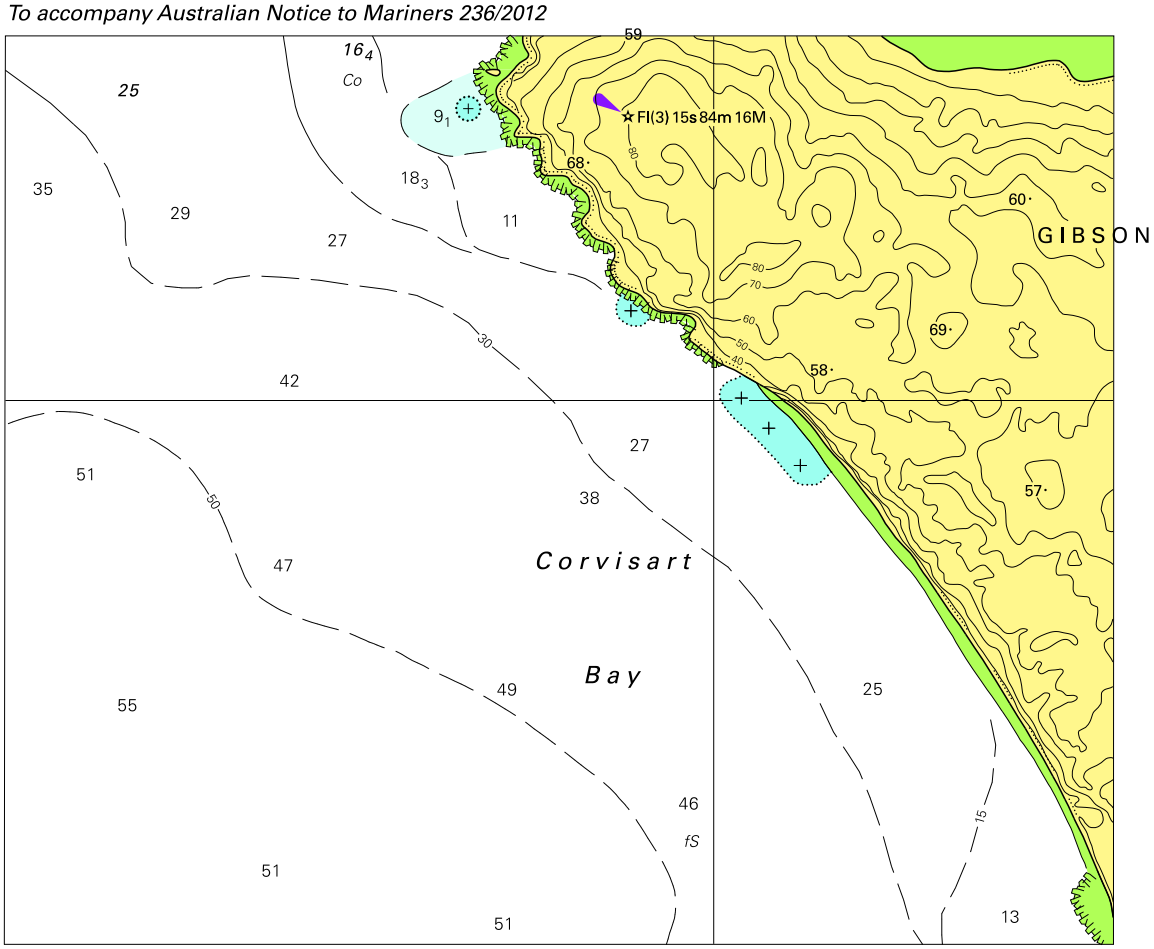


Block for chart Aus 376

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(123·9 x 116·2mm)

To accompany Australian Notice to Mariners 236/2012



Block for chart Aus 121

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(146·7 x 120·1mm)